

**Hans-Joachim Freund**  
**Invited Talks (since 1984)**

1. "Elektronenspektroskopie molekularer Adsorbate"  
GdCh-Vortrag  
03.05.1984, Erlangen

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2. "Bandstruktur und winkelaufgelöste Valenzphotoionization aus geordneten Kohlenmonoxid-adsorbaten"  
Bunsentagung  
02.06.1984, Kaiserslautern

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3. "Many Body Effects in Adsorbed Atoms and Molecules"  
Tagung  
7.06.1984, Trieste, Italy

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4. "Comparison of Photoelectron Spectra of CO Adsorbates and CO Transitionmetal Complexes"  
ISPICC, Tagung  
11.07.1984, Berlin

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5. "Chemical Information from Photoelectron Spectroscopy"  
Seminar, General Electric  
04.10.1984, Schenectady, USA

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6. "Electron Spectroscopy of N<sub>2</sub> Complexes and Adsorbates. A Comparison"  
Seminar  
09.10.1984, Philadelphia, USA

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7. "Vielteilcheneffekte bei der Photoemission an molekularen Adsorbaten"  
Oberflächenphysik Seminar  
05.12.1984, Osnabrück

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8. "Elektronenspektroskopie molekularer Adsorbate"  
Seminar  
13.12.1984, Göttingen

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9. "Interpretation von Elektronenenergieverlustspektren molekularer Adsorbate"  
Seminar  
04.01.1985, Köln

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10. "Interpretation of the N1s-Photoelectron Spectra of chemisorbed N<sub>2</sub> in Terms of Local Metalmolecule Interactions" (with: R.P. Messmer, C.M. Kao, E.W. Plummer)  
3S-Symposium  
29.01.1985, Obertraun, Austria

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11. "Electronic and Geometric Structure of CO on Ni(110): Experiment and Theory"  
(with: H. Kuhlbeck, M. Neumann)  
ECOSS  
02.04.1985, Aix-en-Provence, France

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12. "Photoemission from Ordered Physisorbed Adsorbate Layers: N<sub>2</sub> Graphite and CO, N<sub>2</sub> Ag(111)" (with: D. Schmeisser, F. Greuter, E.W. Plummer)  
ECOSS  
03.04.1985, Aix-en-Provence, France

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13. "Photoemissionsstudien an molekularen Adsorbaten"  
IGV-Seminar,  
02.05.1985, Jülich

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14. "Elektronische und geometrische Struktur von CO/Ni(110)p2mg"  
Oberflächenphysik Seminar  
30.05.1985, Würzburg

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15. "Photoionisation molekularer Adsorbate auf Oberflächen"  
Oberflächenphysik Seminar  
19.06.1985, Saarbrücken
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16. "Photoionization of Molecular Adsorbates on Transition Metal Surfaces"  
PC-Kolloquium  
27.06.1985, Szeged, Hungary
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17. "How to Interpret ESCA-Chemical Shifts?"  
GE-Branch Seminar, General Electric R&D  
27.08.1985, Schenectady, USA
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18. "Photoelectron and Electron Energy Loss Spectroscopy of Transition Metal Adsorbates in Comparison to Transition Metal Compounds"  
Physik. Kolloquium  
27.08.1985, Orono, USA
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19. "On the Bonding of CO<sub>2</sub> Towards Metal Surfaces"  
GE-Branch Seminar, General Electric R&D  
12.09.1985, Schenectady, USA
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20. "Electron Energy Loss Spectroscopy of CO on Metal Surface: a New Interpretation"  
Seminar  
15.10.1985, Philadelphia, USA
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21. "Photoemission from Ordered Physisorbed Adsorbate Phases: N<sub>2</sub>-Graphite, N<sub>2</sub> and CO on Ag(111)" (with: D. Schmeisser, I.W. Luy, F. Greuter, E.W. Plummer)  
Bunsenkolloquium  
26.09.1985, Erlangen
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22. "Elektronenspektroskopien zur Untersuchung von Oberflächen: ein Vergleich"  
Seminar  
08.01.1986, Düsseldorf
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23. "Theoretische Untersuchungen an molekularen Adsorbaten"  
Physik-Kolloquium  
10.01.1986, Osnabrück
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24. "Intermolekulare Wechselwirkungen auf Oberflächen: Eine elektronenspektroskopische Studie"  
PC-Kolloquium  
03.02.1986, Mainz
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25. "Bremsstrahlungs-Isochromaten im System CO/Ni(110): Starke intermolekulare Wechselwirkungen" (with: J. Rogozdik, V. Dose, M. Neumann)  
DPG-Tagung  
07.02.1986, Freudenstadt
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26. "Photoemissionsstudien zur elektronischen Struktur molekularer Adsorbate"  
PC-Kolloquium  
14.02.1986, Bochum
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27. "Elektronische Struktur von Adsorbaten"  
WEH-Seminar  
04.03.1986, Bad Honnef
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28. "CO<sub>2</sub> adsorption and CO<sub>2</sub>/O Coadsorption and Reaction on Ni(110): An Angle Resolved Photoemission Study" (with: B. Bartos, H. Kuhlenbeck, M. Neumann)  
ECOSS  
14.04.1986, Jülich
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29. "Adsorption and Reaction von CO<sub>2</sub> auf einer Nickel(110)-Oberfläche: Eine richtungsaufgelöste Photoemissionsstudie" (with: B. Bartos, H. Kuhlenbeck, M. Neumann)  
Bunsentagung  
10.05.1986, Heidelberg
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30. "Zur elektronischen Struktur und zur Reaktivität molekularer Adsorbate: Elektronen-spektroskopische Studien"  
PC-Kolloquium  
11.06.1986, München
31. "Autoionization of CO after C1s  $\rightarrow$  2 $\pi^*$  excitation: A comparison with photoemission and Auger-Spectroscopy"  
ICTP-Tagung  
26.06.1986, Trieste, Italy
32. "Dynamic Effects in VUV and XUV Spectroscopy of Organic Molecular Solids"  
VUV-8 Tagung  
06.08.1986, Lund, Sweden
33. "CO<sub>2</sub> Adsorption and Reaction on Ni(110) and Fe(111): An Angle Resolved Photoemission Study" (with: B. Bartos, G. Wedler, H. Kuhlenbeck, M. Neumann)  
VUV-8 Tagung  
06.08.1986, Lund, Sweden
34. "Elektronenspektroskopische Untersuchungen an molekularen Adsorbaten: Dissoziations-Precursor-Zustände"  
ÖGV-Seminar  
10.02.1987, Innsbruck, Austria
35. "Winkelaufgelöste Photoemissionsstudien am Koadsorptionssystem CO + O/Pd(111)" (with: G. Odörfer, B. Bartos, H. Kuhlenbeck, M. Neumann)  
DPG-Tagung  
16.-20.03.1987, Igls, Austria
36. "N<sub>2</sub>-Adsorption auf Fe(111): ARUPS-Studien" (with: B. Bartos, R.P. Messmer, M. Grunze, H. Kuhlenbeck, M. Neumann)  
DPG-Tagung  
16.-20.03.1987, Igls, Austria
37. "Geometrie und molekulare Struktur von Benzol auf Os(0001)"  
(with: H.H. Graen, M. Neumann, G. Odörfer, J. Wambach, G. Illing, F.P. Netzer)  
DPG-Tagung  
16.-20.03.1987, Igls, Austria
38. "Selektive Eigenschaften in der laserinduzierten Desorption von NO auf Ni" (with: D. Weide, P. Andresen)  
DPG-Tagung  
16.-20.03.1987, Igls, Austria
39. "Orientation of Molecular N<sub>2</sub> on Fe(111) as Determined by Angle Resolved Photemission:  $\sigma$ -N<sub>2</sub> vs.  $\pi$ -N<sub>2</sub>"  
ECOSS 9  
12.-16.04.1987, Luzern, Switzerland
40. "UV-Laser Stimulated Resonant Desorption from Metall: NO/Ni(100)"  
ECOSS 9  
12.-16.04.1987, Luzern, Switzerland
41. "UV-Laser Stimulated Resonant Desorption from Metal: NO/Ni(100)"  
(with: P. Andresen, D. Weide)  
Bunsentagung  
8.-30.05.1987, Göttingen
42. "A Direct Observation of the Two-dimensional  $\tilde{O}$ -d Bands for Adsorbed CO" (with: M. Neumann, H. Kuhlenbeck, H.B. Saalfeld, E.W. Plummer)  
2nd Nordic Conf. Surf. Sci.  
16.06.1987, Linköping, Sweden

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43. "Adsorption und Reaktion von CO<sub>2</sub> auf Übergangsmetallen: Identifikation eines Dissoziations-Precursor-Zustands" (with: B. Bartos, H. Kohlenbeck, M. Neumann)  
GDCh-Hauptversammlung  
14.09.1987, Berlin
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44. "Autoionisation molekularer Adsorbate"  
(with: G. Illing, T. Porwol, H. Kuhlenbeck, M. Neumann)  
Statusseminar Synchrotronstrahlung  
10.-11.12.1987, Berlin
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45. "CO<sub>2</sub> Adsorption und Reaktion auf Übergangsmetalloberflächen"  
Kolloquium des MPI f. Strömungsforschung  
27.01.1988, Göttingen
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46. "Photoemissionsuntersuchungen an molekularen Adsorbaten"  
DPG-Tagung, Hauptvortrag  
14.03.1988, Karlsruhe
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47. "Adsorption von CO<sub>2</sub> auf einer Na-vorbelegten Pd(111)-Oberfläche" (with: J. Wambach, G. Odörfer, H. Kuhlenbeck, M. Neumann)  
DPG-Tagung  
14.3-18.03.1988, Karlsruhe
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48. "Autoionisation nach  $c1s \rightarrow 2\pi$ -Anregung im System CO/Ni(110)"  
(with: G. Illing, T. Porwol, H. Kuhlenbeck, M. Neumann, S. Bernstorff)  
DPG-Tagung  
14.03-18.03.1988, Karlsruhe
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49. "Adsorption und Reaktion von CO<sub>2</sub> auf Ni(110): XPS und NEXAFS Studien"  
(with: G. Buskotte, M. Neumann, G. Illing, Th. Lindner, J. Somers, A.M. Bradshaw)  
DPG-Tagung  
14.03.-18.03.1988, Karlsruhe
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50. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik"  
Physikalisches Kolloquium  
21.04.1988, Düsseldorf
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51. "Moleküle auf Metalloberflächen: Elektronische Struktur und Dynamik"  
Chemisches Kolloquium (GDCh)  
06.06.1988, Dortmund
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52. "Influence of Alkali-co-adsorption on the Adsorption and Reaction of CO<sub>2</sub> on Pd/(111)" (with: J. Wambach, G. Odörfer, H. Kuhlenbeck, M. Neumann)  
ECOSS 10  
05.-08.09.1988, Bologna, Italy
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53. "UV-Laser induzierte Desorption von Metalloberflächen"  
Physikalisch-chemisches Kolloquium  
19.12.1988, Hannover
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54. "Autoionisation nach Anregung innerer Elektronen: CO<sub>2</sub>/Ni(110)"  
(with: G. Illing, H. Kuhlenbeck, M. Neumann, S. Bernstorff, W. von Niessen, C.-M. Liegener)  
DPG-Tagung  
04.04.-07.04.89, Münster
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55. "Schwingungsspektroskopische Untersuchungen an den Systemen NO/Ni(100), NO+O/Ni(100), NO<sub>2</sub>/Ni(100)"  
(with: G. Odörfer, G. Watson, K.D. Tsuei, E.W. Plummer)  
DPG-Tagung  
04.04.-07.04.89, Münster
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56. "N<sub>2</sub> adsorbiert auf Ni(110): Bedeckungsgradabhängige ARUPS-Studien" (with: H. Kuhlenbeck, M. Neumann)  
DPG-Tagung  
04.04.-07.04.89, Münster
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57. "Adsorption von NO auf Ni(100) und NiO - Eine Untersuchung mit ARUPS und NEXAFS" (with: R. Jaeger, H. Geisler, G. Odörfer, H. Kuhlenbeck, M. Neumann)  
DPG-Tagung  
04.04.-07.04.89, Münster
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58. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik"  
GdCh-Vortrag  
02.05.1989, Bonn
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59. "Autoionisationsspektroskopie nach Anregung innerer Elektronen: Eine Möglichkeit zur Untersuchung der Ionenzustände von Adsorbaten" (with: G. Illing, T. Porwol, H. Kuhlenbeck, M. Neumann, S. Bernstorff, W. Braun)  
Bunsentagung  
04.-06.05.1989, Siegen
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60. "Temperaturabhängiges Adsorptionsverhalten von Benzol auf Übergangsmetall-oberflächen: Erster Nachweis und Charakterisierung von C<sub>6</sub>H<sub>4</sub> auf Os(0001)" (with: H.H. Graen, M. Neuber, M. Neumann, G. Illing, F.P. Netzer)  
Bunsentagung  
04.-06.05.1989, Siegen
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61. "Moleküle auf Metalloberflächen: Elektronische Struktur und Dynamik"  
Chemisches Kolloquium, (GDCh)  
23.05.1989, Heidelberg
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62. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik"  
Physik-Kolloquium  
09.06.1989, Bielefeld
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63. "Korrelationseffekte bei der Ionisation von Adsorbaten"  
Seminar  
26.06.1989, Osnabrück
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64. "Moleküle auf Metalloberflächen: Elektronische Struktur und Dynamik"  
GdCh-Vortrag  
05.07.1989, Essen
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65. "Electron Spectroscopy of Adsorbates via Autoionization of Core-to-bound Excited States: Experiment und Theory" (with: G. Illing, T. Porwol, I. Hemmerich, G. Dömötör, H. Kuhlenbeck, C.-M. Liegener, W. von Niessen)  
Fourth International Conference on Electron Spectroscopy ICES4  
10.-14.07.1989, Honolulu, Hawaii, USA
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66. "UV-Laserphotochemistry of Molecules on Solid Surfaces: NO/Ni(100)-0" (with: Th. Mull, G. Odörfer, H. Kuhlenbeck, D. Weide, U. Schütter, P. Andresen, F. Budde, P. Ferm, V. Hamza, G. Ertl)  
Ninth International Conference on Vacuum Ultraviolet Radiation Physics, (VUV9)  
17.-21.07.1989, Honolulu/Hawaii, USA
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67. "Thermal and Photo-chemistry of Triatomics (CO<sub>2</sub>, NO<sub>2</sub>) on Metals and Oxides"  
IUVSTA-workshop meeting "The structure and reactivity of small molecules on Surfaces",  
17.-22.07.1989, Ofir, Portugal
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68. "UV-Laser-Induced Photodesorption of NO from NiO" (with: Budde, IBM T.J. Watson Research Center, P.M. Ferm, Allied-Signal Inc. A.V. Hamza, Sandia National Laboratories, S. Jakubith, G. Ertl, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, D. Weide, P. Andresen, Max-Planck-Institut für Strömungsforschung, Göttingen)  
AVS, 36th National Symposium  
23.-27.10.1989 Boston, Massachusetts, USA
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69. "Moleküle auf Oberflächen: Elektronische Struktur und Dynamik."  
Physik Seminar  
10.10.1989, Witten-Herdecke
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70. "Photochemisch induzierte Desorption von Molekülen an Oberflächen."  
Kolloquium zum 60. Geburtstag G. Wedler  
27.10.1989, Erlangen-Nürnberg
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71. "Lichtinduzierte Reaktionen an Oberflächen"  
Max-Planck-Institut für Quantenoptik  
30.01.1990, München
- 
72. "Adsorption und Reaktion von CO<sub>2</sub> auf reinen und modifizierten Metalloberflächen"  
Seminar der FG "REAKOB",  
13.02.1990, Erlangen-Nürnberg
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73. "Modellierung der Moleküldynamik nach UV-Laserinduzierter Desorption" (with: B. Baumeister, M. Menges, Th. Mull)  
DPG-Tagung (Oberflächenphysik),  
26.03.-30.03.1990, Regensburg
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74. "Winkelaufgelöste Autoionisationsspektroskopie von CO, N<sub>2</sub>, und NO auf Ni(110) bzw. Ni(100): Experiment und Theorie" (with: I. Hemmerich, G. Dömötör, T. Porwol und G. Illing)  
DPG-Tagung (Oberflächenphysik)  
26.-30.03.1990, Regensburg
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75. "UV-Laserinduzierte Desorption und Reaktion von Stickoxiden (NO, NO<sub>2</sub>) auf geordneten Nickeloxidoberflächen" (with: Th. Mull, M. Menges, B. Baumeister und H. Kühlenbeck)  
DPG-Tagung (Oberflächenphysik)  
26.-30.03.1990, Regensburg
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76. "Adsorption kleiner Moleküle auf geordneten Cr<sub>2</sub>O<sub>3</sub> und NiO-Schichten"  
(with: C. Xu, G. Odörfer, G. Illing, R. Jaeger, J. Wambach und H. Kühlenbeck)  
DPG-Tagung (Oberflächenphysik)  
26.03.-30.03.1990, Regensburg
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77. "Photoelektronenspektroskopie"  
3. Ringbergtreffen "Technologie der Strahl-Laser-Wechselwirkung: Cluster und Oberflächen",  
Schloß Ringberg  
07.-11.05.1990, Tegernsee
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78. "Moleküle auf Oberflächen: Struktur und Dynamik"  
Koll. "Spektrum der Materialwissenschaften"  
11.06.1990, Bochum
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79. "Moleküle auf Oberflächen: Struktur und Dynamik"  
Chemisches Kolloquium  
27.06.1990, Basel
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80. "Moleküle auf Oberflächen: Struktur und Dynamik"  
Chemisches Kolloquium  
16.07.1990, Ulm
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81. "Adsorption on Oxide Surfaces, Structure and Dynamics"  
LBL Material Science Center  
18.10.1990, Berkeley, USA
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82. "Adsorption on Oxide Surfaces, Structure and Dynamics"  
LBL Chemistry Department  
16.11.1990, Berkeley, USA
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83. "Adsorption on Oxide Surfaces, Structure and Dynamics"  
Physik-Seminar  
06.12.1990, Rutgers University, USA
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84. "Molecular Adsorption on Oxide Surfaces: An Overview"  
LRSM-Kolloquium  
07.12.1990, University of Pennsylvania, USA
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85. "Adsorption and Reaction of Molecules on Thin, Ordered Metall-oxide Films on Metal Substrates"  
Seminar  
21.03.1991, Technical University, Lyngby, Denmark
- 
86. "Richtungsaufgelöste Autoionisationsspektroskopie von CO auf Ni(110)" (with: T.Porwol, G. Dömötör, I. Hemmerich, G. Illing, C.M. Liegener)  
DPG-Tagung (Oberflächenphysik) Münster  
08.04.-12.04.1991, Münster
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87. "SPA-LEED-Untersuchungen zur strukturellen Charakterisierung eines dünnen NiO(100)-Films auf einer gestuften Ni(100)-Oberfläche" (with: M. Bäumer, D. Cappus, H. Kuhlenbeck)  
DPG-Tagung (Oberflächenphysik) Münster  
08.04.-12.04.1991, Münster
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88. "ARUPS- und TDS-Untersuchungen an den Systemen Ag/Ni(100) und NO/Ag/Ni(100)" (with: F. Winkelmann, H. Kuhlenbeck)  
DPG-Tagung (Oberflächenphysik)  
08.04.-12.04.1991, Münster
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89. "Adsorption von NO, NO<sub>2</sub>, CO, und CO<sub>2</sub> auf epitaktischem Cr<sub>2</sub>O<sub>3</sub>(111)/Cr(110)" (with: C. Xu, H. Kuhlenbeck, M. Haßel, B. Adam, M. Neuber, M. Neumann)  
DPG-Tagung (Oberflächenphysik)  
08.04.-12.04.1991, Münster
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90. "Adsorption und Reaktion von CO<sub>2</sub> und H<sub>2</sub> auf Ni(110)" (with: J. Wambach, D. Ehrlich)  
DPG-Tagung (Oberflächenphysik)  
08.04.-12.04.1991, Münster
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91. "UV-laserinduzierte Desorption von NO/O/Ni(100)"  
(with: M. Menges, Th. Mull, B. Baumeister, D. Weide, C. Fischer, P. Andresen)  
DPG-Tagung (Oberflächenphysik)  
08.04.-12.04.1991, Münster
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92. "Elektronenspinresonanzuntersuchungen an Adsorbaten im Ultrahochvakuum"  
Physik-Seminar  
17.04.1991, Marburg
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93. "Untersuchung einer dünnen geordneten Aluminiumoxidschicht auf NiAl(110)" (with: R.M. Jaeger, H. Kuhlenbeck, M. Wuttig, W. Hoffmann)  
Bunsentagung  
09.05.-11.05.1991, Bochum
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94. "Struktur eines dünnen NiO(100)-Films auf einer schwach gestuften Ni(100)-Oberfläche"  
(with: M. Bäumer, D. Cappus, H. Kuhlenbeck)  
Bunsentagung  
09.05.-11.05.1991, Bochum
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95. "UV-Laserdesorption von NO/O/Ni(100)" (with: Th. Mull, M. Menges, B. Baumeister, D. Weide, C. Fischer, P. Andresen)  
Bunsentagung  
09.05.-11.05.1991, Bochum
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96. "Structure of a Thin Aluminium Oxide Film Grown by Oxidation of NiAl(110)"  
(with: H. Kuhlenbeck, R.M. Jaeger, M. Wuttig, W. Hoffmann, R. Franchy and H. Ibach)  
III European Conference on Surface Crystallography  
26.05.-29.05.1991, San Miniato, Italy
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97. "Molekulare Adsorption an Oxid-Oberflächen: Struktur und Dynamik"  
PC-Kolloquium  
03.06.1991, Karlsruhe
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98. "NO(X2P) Quantum State Populations after UV-Laser Desorption from NiO(100)"  
European Research Conference "Fundamental Aspects of Surface Science"  
10.-14.06.1991, Davos, Schweiz
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99. "Surface Science Studies of Molecular Adsorbates on Solid Surfaces. A Series of Case Studies"  
NATO Advanced Study Institute, "Metal-Ligand Interactions: from atoms, to clusters, to surface"  
16.-21.06.1991, Cetraro, Italy
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100. "Moleküle auf Oberflächen: Struktur und Dynamik "  
PC-Kolloquium  
01.07.1991, Münster
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101. "Elektronenspektroskopische Untersuchungen dünner geordneter Aluminiumoxidschichten auf NiAl"  
Seminar, Max-Planck-Institut für Eisenforschung  
02.07.1991, Düsseldorf
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102. "Autoionization Versus Photoionization and Auger decay of Physisorbed Molecular Adsorbates: Condensed Benzene on Cu(110)"  
(with: T. Porwol, G. Dömötör, R. Dudde, C.-M. Liegener, W. von Niessen)  
IWASES II, International Workshop on Auger Spectroscopy and Electronic Structure, 04.09.-06.09.1991, Lund, Sweden
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103. "Fully State-resolved 2-D Imaging of Desorbing NO Molecules from NiO(100)" (with: M. Menges, B. Baumeister, Th. Mull, H.-J. Freund, C. Fischer, D. Weide, P. Andresen)  
ECOSS 12, 12th European Conference on Surface Science  
09.09.-12.09.1991, Stockholm, Sweden
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104. "Structure of a thin Aluminium Oxide Film Grown by Oxidation of NiAl(110)" (with: H. Kühlenbeck, R.M. Jaeger, M. Wuttig, W. Hoffmann, R. Franchy, H. Ibach)  
ECOSS 12, 12th European Conference on Surface Science  
09.09.-12.09.1991, Stockholm, Sweden
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105. "Molecules on Metal- and Oxide-surfaces: Structure and Dynamics"  
Schuit-Kolloquium  
25.09.1991, Eindhoven, The Netherlands
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106. "Adsorbate und kein Ende....!?"  
WEH-Seminar "Gelöste und ungelöste Probleme der Oberflächenphysik",  
03.-05.10.1991, Kassel
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107. "The Structure of a Thin NiO(100) Film Grown on Ni(100) - a SPA- LEED Study" (with: M. Bäumer, D. Cappus, G. Illing, H. Kühlenbeck)  
National Symposium of the American Vacuum Society  
11.11.-15.11.1991, Seattle, USA
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108. "Adsorption and Reaction of Molecules on Ordered Metal and Metal Oxide Surfaces"  
German-Australian Workshop on Surface Science  
02.-05.12.1991 Kensington, Sidney, Australien
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109. "Laser Induced Desorption of Molecules from Oxide Surfaces"  
German-Australian Workshop on Surface Science  
02.-05.12.1991 Kensington, Sydney, Australia
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110. "Adsorption auf Oxiden"  
Physikalisches Kolloquium  
13.01.1992, Erlangen
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111. "Moleküle auf Oberflächen"  
Physikalisch-Chemisches Kolloquium  
04.02.1992, Köln
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112. "Adsorption and Reaction of Molecules on Oxide Surfaces"  
Seminar INIFTA,  
10.03.1992, La Plata, Argentina
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113. "Laser-induced Desorption of Molecules from Oxide Surfaces"  
Seminar INIFTA  
11.03.1992, La Plata, Argentina
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114. "CO<sub>2</sub> Activation on Clean and Modified Metal Surfaces"  
Seminar INIFTA  
12.03.1992, La Plata, Argentina
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115. "Adsorption and Reaction of Molecules on Oxide Surfaces"  
Seminar INIQUI  
16.03.1992, Salta, Argentina
- 
116. "Elektronische Struktur von Adsorbaten auf Oberflächen"  
IFF Ferienschule "Synchrotronstrahlung zur Erforschung der kondensierten Materie",  
23.03.-03.04.1992, Forschungszentrum Jülich
- 
117. "Low Energy Excitations and Desorption Dynamics from Oxide Surface"  
DIET V, Plenarvortrag  
01.04.-04.04.1992, Taos, New Mexico, USA
- 
118. "Light Induced Desorption of Molecules from Oxide Surfaces as Probed by Laser Techniques"  
Seminar am Lawrence Livermore National Laboratory  
06.04.1992, Livermore, USA
- 
119. "Adsorption of Molecules on Oxide Surfaces"  
Kolloquium, Department of Physics, University of Rhode Island  
08.04.1992, Kingston, USA
- 
120. "Dynamics of Molecules Desorbing from Oxide Surfaces as Probed by Laser Techniques"  
Seminar, Department of Applied Physics, Yale University,  
10.04.1992, New Haven, USA
- 
121. "Moleküle auf Oberflächen: Struktur und Dynamik"  
Physikalisch-Chemisches Kolloquium  
28.04.1992, Freiburg
- 
122. "Moleküle auf Oxidoberflächen":  
Physikalisch-Chemisches Kolloquium  
27.05.1992, LMU München
- 
123. "Elektronische Struktur von Oxidoberflächen"  
Seminar, Experimentalphysik  
07.07.1992, Saarbrücken
- 
124. "Moleküle auf Oberflächen: Struktur und Dynamik"  
GdCh-Vortrag  
02.07.1992, Göttingen
- 
125. "Adsorption and Reaction of Molecules on Surfaces of Metal-metaloxide Systems"  
4th Symposium on the Mechanisms of Heterogeneous Catalysis  
27.07.-31.07.1992, Krakow, Poland
- 
126. "Die Haut kondensierter Materie: Die physikalische Chemie der Oberflächen" (with: C. Wöll)  
Ferienakademie der Studienstiftung des Deutschen Volkes,  
16.-29.09.1992, Alpbach, Austria
- 
127. "ESR-studies in Ultra-high-vacuum of Adsorbates on Single Crystal Surfaces"  
Diskussionstagung der Bunsengesellschaft  
30.09.-02.10.1992, Lahnstein
- 
128. "Laser Induced Processes on Oxide Surfaces"  
Dead Sea Symposium on Dissociation Dynamics  
04.-06.01.1993, Kibbutz Ein-Gedi, Israel
- 
129. "Low Energy Excitations and Desorption Dynamics from Oxide Surfaces"  
Seminar, The Fritz-Haber Institute of Molecular Dynamics, Hebrew University  
07.01.1993, Jerusalem, Israel
-

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130. "Desorptionsdynamik mit Lasern an Oberflächen"  
Mitarbeiterseminar des Instituts für Physikalische Chemie und Elektrochemie der Universität  
Düsseldorf  
04.02.1993, Düsseldorf
- 
131. "Molecular Adsorption on Thin Ordered Oxide Films (NiO, Cr<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub>)"  
WEH-Symposium: "Adsorption on Ordered Surfaces of Ionic Solids and Thin Films"  
15.-17.02.1993, Bad Honnef
- 
132. "Introduction to the PhD. thesis of A. Sandell"  
Department of Physics, Uppsala University  
26.03.1993, Uppsala, Sweden
- 
133. "Die elektronische Struktur der NiO(100-Oberfläche und der Einfluss von OH-Gruppen auf das  
Adsorptionsverhalten von NO auf NiO(100) und NiO(111)"  
92. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie e.V.  
20.-22.05.1993, Leipzig
- 
134. "ESR Under UHV Conditions on Single Crystal Metal and Metal-Oxide Surfaces"  
Symposium on Surface Science  
10.-16.05.1993, Kitzsteinhorn, Kaprun, Austria
- 
135. "Adsorbates on Metals"  
Ringberg Symposium: Electronic Structure of Surfaces and Interfaces  
26.-29.05.1993, Tegernsee
- 
136. "Vibrational Structure in Excited States of Molecules on Oxide Surfaces"  
7th International Conference "Vibrations at Surfaces"  
14.-17.06.1993, S. Margherita-Portofino, Italy
- 
137. "Molecules on Oxide Surfaces: Structure and Dynamics"  
European Conference Series on Catalysis: Second G.-M. Schwab Symposium, Plenarvortrag  
18.-23.07.1993, Berlin
- 
138. "Electronic and Geometric Structure of Adsorbates"  
5th International Conference on Electron Spectroscopy, ICES-5,  
26.07.-01.08.1993, Kiev/Ukraine, Plenary talk
- 
139. "Adsorption at Oxide Surfaces"  
Seminar, Chemistry Department,  
27.08.1993, Cambridge, United Kingdom
- 
140. "Molecules on Clean and Modified Oxide Surfaces: Structure and Dynamics"  
ECOSS, Plenarvortrag  
30.8.-04.09.1993, Warwick, United Kingdom
- 
141. "Activation of Carbon Dioxide and its Interaction with Transition Metal Surfaces"  
CO<sub>2</sub>- Workshop  
19.-24.09.1993, Hemava, Sweden
- 
142. "Photoelektronenspektroskopie an molekularen Adsorbaten"  
Seminarvortrag  
03.12.1993, Leipzig
- 
143. "CO<sub>2</sub>-Aktivierung und Oberflächenchemie in der Physikalischen Chemie in Bochum"  
Seminarvortrag  
22.12.1993, Ruhrchemie Oberhausen
- 
144. "Struktur und Dynamik molekularer Adsorbate auf Oxidoberflächen"  
12.01.1994, Max-Planck-Institut für Strömungsforschung, Göttingen
- 
145. "Adsorption on Epitaxial Oxide Films as Model Systems for Heterogeneous Catalysis" (with H.  
Kuhlenbeck)  
2. German-Australian Workshop on Surface Science  
24.-28.01.1994, Schloß Ringberg, Tegernsee
-

146. "State and Spatially Resolved Studies of UV-laser Induced Desorption of Molecules from Oxide Surfaces"  
Optics, Electro-Optics & Laser-Applications in Science and Engineering (OE-LASE '94)  
27.-29.01.1994, Los Angeles, USA
147. "Adsorption at Clean and Modified Oxide Surfaces"  
Department of Chemistry, Texas, A&M University  
01.02.1994, College Station, USA
148. "ESR of Adsorbates on Single Crystal Surfaces"  
Surface Science Seminar, Texas A&M University  
02.02.1994, College Station, USA
149. "ESR of Adsorbates on Single Crystal Surfaces"  
Seminar, Oak Ridge National Laboratory,  
04.02.1994, Knoxville, USA
150. "Adsorption and Reaction of Ultrathin Metal Films on Oxide Surfaces"  
Seminar, University of Pittsburgh,  
07.02.1994, Pittsburgh, USA
151. "Struktur und Reaktivität von reinen und modifizierten Oxidoberflächen"  
IGV-Seminar  
17.03.1994, KFA Jülich
152. "Polar Oxide Surfaces: Surface Stability, Reconstruction and Reactivity"  
Workshop on "Surface reconstruction: Structure and Dynamics",  
(60th birthday, K. Müller)  
11.-13.04.1994, Erlangen
153. "Molecules on Oxide Surfaces"  
Seminar, Universität Twente  
29.4.1994, Enschede, The Netherlands
154. "Elektronische Oberflächenzustände und die photoinduzierte Zersetzung von Wasser auf Cr<sub>2</sub>O<sub>3</sub>(111)"  
Bunsentagung  
12.-14.05.1994, Berlin
155. "Dynamik desorbierender Teilchen von Festkörperoberflächen"  
Physikalisch-chemisches Kolloquium, Technische Hochschule  
09.06.1994, Darmstadt
156. "Adsorption at Oxide Surfaces: An Experimental Approach"  
Quantum Chemical Aspects of Heterogeneous Catalysis  
19.-23.6.1994, Berlin
157. "Electronic Structure of Adsorbates on Transition Metal Oxide Surfaces"  
Adriatico Research Conference (ARC '94) on "Geometric and Electronic Structure of Solids and Surfaces"  
13.07.1994, Trieste, Italy
158. "UV-Laser Desorption of NO from NiO(100): Ab-initio-and Wave-packet-calculation" (with: T. Klüner, J. Freitag, V. Staemmler)  
Adriatico Research Conference (ARC '94) on "Lasers in Surface Science"  
09.-12.08.1994, Trieste, Italy
159. "Lecture Series (3 lectures) on "Adsorption at Oxide Surfaces and Model Catalysts"  
Nato-Advanced Study Institute "Metal-Ligand Interactions: Structure and Reactivity"  
04.-16.09.1994, Cetraro, Italy
160. "Angle Resolved Autoionization Spectroscopy and NEXAFS of Adsorbates on Metal Oxide Surfaces", (with: J. Klinkmann)  
Third International Workshop on Auger Spectroscopy and Electronic Structure (IWASES III)  
05.-08.09.1994, Liverpool, United Kingdom

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161. "Structural Characterization of a Model Catalyst: Pt/Al<sub>2</sub>O<sub>3</sub>/NiAl(110)" (with: T. Bertrams, F. Winkelmann, H. Neddermeyer)  
14th European Conference on Surface Science (ECOSS - 14)  
19.-23.09.1994, Leipzig
- 
162. "ESR of Adsorbates on Single Crystal Surfaces Under UHV Conditions: A Novel Approach to the Dynamics of Adsorbed Molecules"  
Akademie der Wissenschaften  
26.09.1994, Budapest, Hungary
- 
163. "Laser Induced Desorption from Oxide Surfaces"  
Seminar, Attila Josef Universität Szeged  
27.09.1994, Szeged, Hungary
- 
164. "Oriented Molecules on Oxide Surfaces"  
OMSI 3 - Workshop, FOM-Institute for Atomic and Molecular Physics  
30.09.-05.10.1994, Amsterdam, The Netherlands
- 
165. "State and Spatially Resolved UV-laser-induced Desorption Studies"  
51st Okazaki-Conference "Dynamics of Photoinduced Process at Surfaces"  
05.-07.10.1994, Okazaki, Japan
- 
166. "Molecules on Clean and Modified Oxide Surfaces"  
Nagoya University, Department of Applied Chemistry  
11.10.1994, Nagoya, Japan
- 
167. "Carbondioxide Chemistry on Clean Surfaces"  
Hitachi Advanced Research Laboratory  
12.10.1994, Hatoyama, Saitama, Japan
- 
168. "Molecules on Clean and Modified Oxide Surfaces"  
Hitachi Advanced Research Laboratories  
13.10.1994, Hatoyama Saitama, Japan
- 
169. "Molecules on Clean and Modified Oxide Surfaces"  
Institute of Solid State Physics  
14.10.1994, University of Tokyo, Japan
- 
170. "UV-Laser Induced Desorption of NO from NiO(100: ab-initio and Wave Packet Calculations)" (with: T. Klüner, J. Freitag, V. Staemmler)  
6th International Workshop on Desorption Induced by Electronic Transitions  
26.-29.10.1994, Krakau/Poland
- 
171. "Molecules on Clean and Modified Oxide Surfaces"  
Seminar, Universitaires Notre-Dame de la Paix  
04.11.1994, Namur, Belgium
- 
172. "Reaktivität von reinen und modifizierten Oxidoberflächen"  
GdCh-Vortrag, Universität Ulm  
17.11.1994, Ulm
- 
173. "Oxidoberflächen, Struktur, Dynamik und Reaktivität"  
Physikalisches Kolloquium, Universität Dresden  
23.11.1994, Dresden
- 
174. "Moleküle auf reinen und modifizierten Oxidoberflächen: Struktur und Dynamik"  
GdCh-Vortrag, Universität Erlangen-Nürnberg  
01.12.1994, Erlangen-Nürnberg
- 
175. "Oxide Surfaces: Structure and Reactivity"  
Gordon Conference on "Chemical Reactions at Surfaces"  
22.-27.01.1995, Ventura, USA
- 
176. "Molecules on Clean and Modified Oxide Surfaces"  
Seminar, Universität Mailand,  
22.02.1995, Milano, Italy
-

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177. "Metal Oxide Surfaces: Electronic Structure and Molecular Adsorption"  
First German-Brasilian Workshop on "Applied Surface Science: Nanostructures, Sensors, Catalysis"  
04.-07.04.1995, Brazil
- 
178. "Molecules on Oxide Surfaces"  
Seminar, COPPE  
12.04.1995, Rio de Janeiro, Brazil
- 
179. "Spectroscopy of Oxide Surfaces"  
International Symposium on Atomic Bonding at Internal Interfaces: Modelling and Spectroscopy, Tagungsstätte der MPG, Schloß Ringberg  
23.-28.04.1995, Tegernsee
- 
180. "Cr<sub>2</sub>O<sub>3</sub>(111) Surface Spectroscopy: Clean and Adsorbate Covered Surfaces"  
Seminar, University of Copenhagen  
10.05.1995, Copenhagen, Denmark
- 
181. "The Metal-oxide Interface and Supported Metals"  
Seminar, Danish Society of Engineers, Copenhagen  
11.05.1995, Denmark
- 
182. "Struktur und Dynamik von Adsorbaten auf Oxidoberflächen"  
Hauptversammlung der Deutschen Bunsengesellschaft Bremen (Plenarvortrag)  
26.-28.05.1995, Bremen
- 
183. "Moleküle auf komplexen Oberflächen"  
GDCh-Vortrag  
08.06.1995, Mülheim
- 
184. "Chemie in zwei Dimensionen" (mit M. Bäumer)  
Ferienakademie der Studienstiftung des Deutschen Volkes  
16.-29.09.1995, Alpbach, Austria
- 
185. "Moleküle auf Oxidoberflächen: Struktur und Dynamik"  
31. Symposium für Theoretische Chemie, Evangel. Akadem. Loccum  
10.-13.10.1995, Loccum
- 
186. "Interaction of CO with Pd Clusters Supported on a Thin Alumina Film"  
42nd National AVS Symposium, Mineapolis Convention Center,  
16.-20.10.1995, Minneapolis/Minnesota, USA
- 
187. "Four Lectures in PhD-course in Surface Physics"  
1. General introduction to clean oxide surfaces  
2. Reactivity of oxide surfaces  
3. Oxide surface modification by metal deposition  
4. Molecular motion and desorption dynamics on oxide surfaces"  
Technical University of Denmark, Physics Department  
02.-03.11.1995, Lyngby, Denmark
- 
188. "Molecule on Metal-oxide Surfaces"  
5. European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis Berlin,  
06.-07.11.1995, Berlin
- 
189. "Molecules on Complex Surfaces"  
Physical Chemistry Seminar, Universität Louis Pasteur  
14.11.1995, Strasbourg, France
- 
190. "Oxide Surfaces and the Oxide-Metal Interface Workshop on „New Opportunities in Nanotechnologies and Materials Surfaces“"  
23.-24.11.1995, Barcelona, Spain
- 
191. "Moleküle auf komplexen Oberflächen"  
Physikalisches Kolloquium  
04.12.1995, Würzburg
-

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192. "Moleküle auf komplexen Oberflächen"  
Physikalisches Kolloquium  
11.12.1995, Bochum
- 
193. "Adsorption von Gasen auf Festkörperoberflächen"  
GdCh-Vortrag  
18.12.1995, Paderborn
- 
194. "Surface and Adsorbate Dynamics at the Cr<sub>2</sub>O<sub>3</sub>(0001) Surface: Electron and Laser Spectroscopy".  
Advanced research Laboratory, Hitachi  
18.01.1996, Saitama, Japan
- 
195. "Photon Simulated Desorption of CO and K from Cr<sub>2</sub>O<sub>3</sub>(0001)".  
Institute of Solid State Physics, University of Tokyo  
19.01.1996, Tokyo, Japan
- 
196. "Size Dependent CO Dissociation on Rh Particles Supported on Thin Alumina Films"  
18. Taniguchi Symp., „Elementary Processes in Excitations and Reactions on Solid Surfaces“,  
23.01.1996, Kashikojima, Japan
- 
197. "Electronic Excitations at Oxide Surfaces"  
18. Taniguchi Symp., „Elementary Processes in Excitations and Reaction on Solid Surfaces“,  
25.01.1996, Kashikojima, Japan
- 
198. "Moleküle auf komplexen Oberflächen"  
Verb. Österr. Chem. Innsbruck  
29.01.1996, Innsbruck, Austria
- 
199. "Dynamische Prozesse an Oxidoberflächen"  
Walter-Schottky-Institut  
08.02.1996, München
- 
200. "Dynamische Prozesse auf Oxidoberflächen"  
Physikalisch-chemisches Kolloquium der drei Berliner Universitäten (FU, TU, HU)  
12.02.1996, Berlin
- 
201. "Moleküle auf komplexen Oberflächen"  
GDCh-Vortrag  
13.03.1996, Jena
- 
202. "Elementarprozesse bei molekularer Adsorption auf Oxidoberflächen"  
Jahrestreffen Deutscher Katalytiker  
20.-22.03.1996, Friedrichroda
- 
203. "Elektronenspinresonanz an Monolagen selbstorganisierender Filme unter Ultrahochvakuumbedingungen"  
Analytica 96  
23.-26.04.1996, München
- 
204. "Moleküle auf Verbindungsoberflächen: Struktur und Dynamik"  
GdCh-Vortrag  
07.05.1996, Siegen
- 
205. "Morphology, Electronic Structure and Reactivity of Small Metal Particles Deposited on Thin Oxide Films"  
10.05.1996, Marseille, France
- 
206. "Moleküle auf komplexen Oberflächen"  
GdCh-Vortrag  
20.05.1996, Saarbrücken
- 
207. "Moleküle auf komplexen Oberflächen"  
Physik-Kolloquium  
06.06.1996, Halle/Saale
-

- 
208. "Modellstudien zur Katalyse: Möglichkeiten und Grenzen"  
Physik-Kolloquium  
11.06.1996, Kiel
- 
209. „Ultradünne Oxidfilme“  
Physik-Kolloquium der FUB, TUB und HUB  
13.06.1996, Berlin
- 
210. "Moleküle auf komplexen Oberflächen“  
CDCh Vortrag  
21.06.1996, Tübingen
- 
211. "Moleküle auf komplexen Oberflächen“  
GdCh-Vortrag  
03.07.1996, Frankfurt
- 
212. "3 Vorlesungen zu den Themen:  
1. Structure and reactivity of clean and modified oxide surfaces.  
2. Electronic Structure and Morphology at Metals on crystalline oxide.  
3. Reactivity of oxide-supported metals"  
Nato Advanced Study Institute on „Chemisorption and Reactivity on Supported Clusters and Thin Films: Towards an understanding of Microscopic Processes in Catalysis“  
15.-27.07.1996, Erice, Italy
- 
213. "Moleküle auf komplexen Oberflächen“  
GdCh-Vortrag  
15.10.1996, Aachen
- 
214. "Laser Induced Processes in Alkali Covered Oxide Surfaces"  
BRITE-Euram Meeting  
30.10.1996, Cardiff, United Kingdom
- 
215. "Molecules on Complex Surfaces: Structure and Dynamics"  
Seminar, Laboratoire de Photophysique Moleculaire, CNRS  
08.11.1996, Orsay, France
- 
216. "Moleküle auf komplexen Oberflächen“  
GdCh-Vortrag  
28.11.1996, Leipzig
- 
217. "Adsorption and Reactivity of Clean and Modified Oxide Surfaces“.  
Faraday Discussion on „Exploring the Catalytic interface“  
16.-18.12.1996, Reading, UK
- 
218. "Molecules on Complex Surfaces: Structure and Dynamics"  
Seminar, University of Electrocommunications  
10.12.1996, Tokyo, Japan
- 
219. "Moleküle auf komplexen Oberflächen“  
GdCh-Vortrag  
07.01.1997, München
- 
220. "Moleküle auf komplexen Oberflächen“  
GdCh-Vortrag  
09.01.1997, Hannover
- 
221. "Chemistry and Modified Polar Surfaces of Oxides as Models for Reactive Oxide Surfaces"  
Centre de Physique Les Houches  
13.-17.01.1997, Les Houches, France
- 
222. "Moleküle auf komplexen Oberflächen: Struktur und Dynamik"  
IGFAA-Kolloquien, Adlershof  
06.02.1997, Berlin
-

223. "Morphology, Structure and Reactivity of Small Metal Aggregates on Alumina Supports"  
Gordon Research Conference "Chemical Reactions at Surfaces"  
17.02.1997, Ventura, USA
224. "Structure and Reactivity of a Polar Cr<sub>2</sub>O<sub>3</sub>(0001) Surface"  
Gordon Research Conference "Chemical Reactions at Surfaces"  
19.02.1997, Ventura, USA
225. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"  
University of California  
16.02.-04.03.1997, Berkeley, USA
226. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"  
University of Washington  
24.02.1997, Seattle, USA
227. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"  
Sandia National Laboratories  
27.03.1997, Albuquerque, USA
228. "Photo-Induced Processes on Alkali Covered Surfaces"  
DIET VII  
08.-11.04.1997, Ambleside, United Kingdom
229. "Moleküle auf komplexen Oberflächen"  
Universität Rostock, Physikcolloquium  
22.05.1997, Rostock
230. "Molecules on Complex Surfaces: Metal Deposits on Epitaxial Oxide Films"  
4th Nordic Conference on Surface Science  
29.05.-10.6.1997, Ålesund, Norway
231. "Desorption Dynamics at Oxide Surfaces"  
German-Japanese Workshop on Dynamics at Surfaces  
16.-20.06.1997, Berlin
232. „Elektronenbeugung und -spektroskopie kleiner deponierter Metallaggregate“  
Antrittsvorlesung Festkörperkolloquium, F.U. Berlin  
04.07.1997, Berlin
233. "Molecules on Oxide Surfaces"  
Seminar, Universität Turin,  
22.07.1997, Torino, Italy
234. "CO<sub>2</sub>- und Methan-Aktivierung an wohldefinierten Oberflächen"  
Seminar, Celanese, Werk Ruhrchemie Oberhausen  
12.08.1997, Oberhausen
235. 1. "Clean and Modified Oxide Surfaces: Geometry and Electronic Structure"  
2. "Molecular Adsorption on Clean and Modified Oxide Surfaces"  
4th European Summerschool in Surface Science  
16.-22.08.1997, Copenhagen, Denmark
236. "Adsorption and Reaction of Small Molecules on Deposited Metal Particles as Studied by  
Electron and Infrared Spectroscopy"  
Inst. of Industrial Science, University of Tokyo  
04.09.1997, Tokyo, Japan
237. "Molecules on Clean and Modified Oxide Surfaces"  
Tokyo Inst. of Technology  
05.09.1997, Tokyo, Japan
238. "Adsorption and Reaction on Small Deposited Metal Aggregates"  
IUVSTA-Workshop on Surface Chemistry on the Nanoscopic Scale  
11.-13.09.1997, Oegstgeest, The Netherlands



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239. "AFM/STM Studies of Rhodium Deposits on an Alumina Film"  
ECOSS 17  
16.-19.09.1997, Enschede, The Netherlands
- 
240. "Infrared Study of CO Adsorption on Alumina Supported Palladium Particles"  
ECOSS 17  
16.-19.09.1997, Enschede, The Netherlands
- 
241. "Molecules on Complex Surfaces: Structure and Reactivity"  
Seminar, University of California  
13.10.1997, Riverside, USA
- 
242. "Molecules on Complex Surfaces: Structure and Reactivity"  
Seminar, University of Southern California  
16.10.1997, Los Angeles, USA
- 
243. "Molecules on Complex Surfaces: Structure and Reactivity"  
Seminar, University of California  
17.10.1997, Irvine, USA
- 
244. "Clean and Modified Oxide Surfaces: Structure and Reactivity"  
AVS 44th National Meeting  
20.-24.10.1997, San José, USA
- 
245. "Particle Size Dependent CO Dissociation on Alumina Supported Rh:  
A Model Study"  
AVS 44th National Meeting  
20.-24.10.1997, San José, USA
- 
246. "Metal Aggregates on Oxide Surfaces: Models in Material Science and Catalysis"  
1st Conf. on Mat. Science  
01.-04.11.1997, Karak, Jordan
- 
247. "Moleküle auf komplexen Oberflächen: Struktur und Reaktivität kleiner getragener  
Metallteilchen"  
Physikalisch-Chemisches Kolloquium  
11.11.1997, Heidelberg
- 
248. "Molecules on Complex Surfaces: Structure and Dynamics"  
Universität Nijmegen  
18.11.1997, Nijmegen, The Netherlands
- 
249. "Kann man Katalysatoren modellieren? Physikalische Chemie komplexer Oberflächen"  
GDCh-Vortrag, Universität Bielefeld  
20.11.1997, Bielefeld
- 
250. "Metals on Thin Oxide Films"  
GDR-CNRS Meeting on Metals on Oxides  
24.-26.11.1997, Marseille, France
- 
251. "Electronic Structure of Thin Oxide Films"  
Oxid-workshop  
04.-05.12.1997, Halle
- 
252. "Kann man Katalysatoren modellieren?"  
GDCh-Vortrag  
11.12.1997, Ulm
- 
253. "Adsorption und Reaktion an komplexen Oberflächen: Kann man Katalysatoren modellieren?"  
GDCh-Vortrag  
12.12.1997, Konstanz
- 
254. "Metalldeponate auf Oxidoberflächen: Physikalische Chemie komplexer Oberflächen"  
Vortrag, Paul-Scherrer-Institut  
15.01.1998, Switzerland
-

255. "Influence of Defects on Adsorption of Molecules on Oxide Surfaces and Deposited Metal Aggregates"  
GDR-CNRS ISIAM-Meeting  
20.-23.01.1998, Dole, France
256. "UV-Laser Induced Desorption of NO from the Pure and Modified Cr<sub>2</sub>O<sub>3</sub>(0001) Surface: Spin Effects in Surface State Induced Desorption"  
SPIE Conference  
30.01.1998, San José, California, USA
257. "Thermal and Light Induced Chemistry on Oxide Surfaces and Small Deposited Metal Aggregates"  
Surface Science and Catalysis Seminar, LBL Berkeley  
26.01.1998, Berkeley, USA
258. "Molecules on Small Metal Aggregates: Physical Chemistry of Complex Surfaces"  
College Station  
03.02.1998, Texas, USA
259. "Kleine deponierte Metallaggregate auf Oxidoberflächen: Modellkatalysatoren"  
GDCh-Vortrag  
12.02.1998, Stuttgart
260. "Kleine deponierte Metallaggregate: Struktur, Adsorption und Reaktivität"  
Physikzentrum Bad Honnef  
26.02.1998, Bad Honnef
261. "CO<sub>2</sub> Reaction with Well Characterized Oxide Surfaces: Cr<sub>2</sub>O<sub>3</sub>(0001)"  
Vortrag 30.03.1998, Symposium on CO<sub>2</sub> Conversions  
29.03.-02.04.1998, Dallas/Texas, USA
262. "Adsorption and Reaction of Molecules on Size Selected Deposited Nanometal Particles"  
3S'98, Park City, Vortrag 31.03.98  
29.03.-04.04.1998, Park City/Utah, USA
263. "Moleküle auf komplexen Oberflächen: Struktur und Dynamik"  
GDCh-Vortrag  
08.04.1998, Halle
264. "Molecules on Complex Surfaces: Metal Deposits on Oxide Supports"  
VIth European Conf. on Surface Crystallography  
10.-13.05.1998, La Grande Motte, France
265. "Komplexe Oberflächen: Metalle in Wechselwirkung mit Oxiden"  
Kolloquiumsvortrag, Max-Planck-Institut für Festkörperforschung  
09.06.1998, Stuttgart
266. "Metals on Oxide Surfaces: Physics and Chemistry"  
Physical Electronics Conference (PEC), Plenarvortrag, Penn State  
14.-17.06.1998, College Park, USA
267. "Adsorption on Clean Oxide Surfaces"  
Summerschool "Solid Films and Surfaces"  
28.06.-05.07.1998, Copenhagen, Denmark
268. "Small Deposited Metal Aggregates: Structure and Reactivity"  
Summerschool "Solid Films and Surfaces"  
28.06.-05.07.1998, Copenhagen, Denmark
269. "Desorption Dynamics from Oxide Surfaces"  
Summerschool "Solid Films and Surfaces"  
28.06.-05.07.1998, Copenhagen, Denmark
270. "Molecules on Clean and Modified Oxide Surfaces: Models for Heterogeneous Catalysts"  
ICSFS-9, Plenarvortrag  
06.-10.07.1998, Copenhagen, Denmark

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271. "Photodesorption from Clean and Metal Modified Oxide Surfaces"  
IVC-14, Hauptvortrag, 01.09.1998  
31.08.-04.09.1998, Birmingham, United Kingdom
- 
272. "Deposited Metal Aggregates as Models for Heterogeneous Catalysis"  
NATO-ASI  
01.09.-13.09.1998, Cetraro, Italy
- 
273. "Desorption Dynamics of Molecules from Oxide Surfaces"  
NATO-ASI  
01.09.-13.09.1998, Cetraro, Italy
- 
274. "Thin Film Oxide Surfaces"  
45th IFES  
12.09.-18.09.1998, Irbid, Jordan
- 
275. "Oxid-getragene Metallteilchen: Modellsysteme für die heterogene Katalyse"  
Hauptvortrag Österreichische Physikalische Gesellschaft  
16.09.1998, Graz, Österreich
- 
276. "Adsorption and Reaction on Well Characterized Oxide Surfaces: Cr<sub>2</sub>O<sub>3</sub>(0001)"  
9th International Conference on Vibrations at Surfaces  
12.10.-16.10.98; Hayama, Japan
- 
277. "CO<sub>2</sub> Adsorption and Reaction on Well Characterized Oxide Surfaces: Cr<sub>2</sub>O<sub>3</sub>(0001)"  
9th International Conference on Vibrations at Surfaces  
12.10.-15.10.98, Hayama, Japan
- 
278. "Photodesorption Dynamics of Molecules"  
Symp. On "Surfaces, Fields and Reactions", Shonan Village Center  
16.10.1998, Shonan, Japan
- 
279. "Oxid-getragene Metallteilchen: Modellsysteme für die heterogene Katalyse"  
GDCH-Vortrag, T.U. Braunschweig,  
26.10.1998, Braunschweig
- 
280. "Metal Aggregates on Oxide Surfaces: Structure and Adsorption"  
Autum School Berlin 1998, "Metal Clusters"  
01.11.1998, Berlin
- 
281. "Molecules on Oxide Surfaces: Structure and Dynamics"  
Physikalisches Kolloquium, Universität Augsburg  
09.11.1998, Augsburg
- 
282. "Die Dynamik photochemischer Prozesse auf Oberflächen"  
Physikalisches Kolloquium, Universität Cottbus  
17.11.1998, Cottbus
- 
283. "Bindungsbrüche auf Oberflächen: Moleküle in Bewegung"  
Berlin-Brandenburgische Akademie der Wissenschaften  
27.11.1998, Berlin
- 
284. "Size Dependent Chemical Reactivity: Model Systems for Heterogeneous Catalysis"  
Inorganic and Physical Chemistry Colloquium, University of Glasgow  
04.12.1998, Glasgow, United Kingdom
- 
285. "Photoinduced Bond Breaking on Oxide Surfaces"  
University of Tokyo, Chemistry Department  
12.02.1999, Tokyo, Japan
- 
286. "Adsorption and Reaction on Small Deposited Metal Aggregates"  
Symp. on "Frontiers in Electronically Induced Surface Processes"  
Hayama Campus of the Graduate University of Advanced Studies  
13.-14.02.99, Hayama, Japan
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287. "Model Systems in Heterogeneous Catalysis: A Surface Science Approach"  
Symposium "Frontiers in Science", Hebräische Universität Jerusalem/T.U. Berlin  
20.02.-26.02.1999, Berlin
- 
288. "Molecules on Oxide and on Oxide Supported Metal Particles"  
Gordon Conference  
28.02.-05.03.1999, Ventura, USA
- 
289. "Metal Clusters on Oxide Supports: Models to Study Size Selective Reactions"  
Kolloquium, Harvard University  
17.03.1999, Cambridge, USA
- 
290. "Metal Aggregates on Ordered Oxide Surfaces: Structure, Adsorption and Reactivity"  
ACS National Meeting and Exposition  
21.-25.03.1999, Anaheim, California, USA
- 
291. "Deposited Metal Aggregates, Models for Heterogeneous Catalysis"  
Rideal Meeting  
30.03.-01.04.1999, Rideal, United Kingdom
- 
292. "Laser-induced Desorption from Oxide Surfaces: Experiment and Theory"  
Seminar  
26.04.1999, Ottawa, Canada
- 
293. "Metal Aggregates on Oxide Supports: Structure and Reactivity"  
Seminar  
28.04.1999, Toronto, Canada
- 
294. "Photochemistry at Surfaces: From Oxides to Metal Aggregates on Oxides"  
Seminar  
29.04.1999, Philadelphia, USA
- 
295. "Size Dependent Reactivity of Deposited Metal Aggregates"  
Workshop "Catalysis from first principles"  
17.05.-19.05.1999, Copenhagen, Denmark
- 
296. "Adsorption und Reaktion an kleinen deponierten Metallpartikeln"  
07.06.1999, Innsbruck, Austria
- 
297. "Die Dynamik der Molekül-Oberflächen-Bindung: Laserstimulierte Desorption von Oxidflächen"  
GDCh-Vortrag, Gesamthochschule Wuppertal  
09.06.1999, Wuppertal
- 
298. "Molecules on Oxide Surfaces"  
4th Paul Sabatier Conference,  
05.07.-09.07.1999, Strasbourg, Belgium
- 
299. "Dynamik desorbierender Moleküle"  
Physik-Seminar, Universität Konstanz  
09.07.1999, Konstanz
- 
300. "Oxide Surfaces", Introductory Lecture  
114. Faraday Discussion  
01.09.-03.09.1999, Ambleside, United Kingdom
- 
301. "Deposited Metal Aggregates: Models for Heterogeneous Catalysis"  
ECOSS 18, Plenarvortrag  
21.09.-24.09.1999, Vienna, Austria
- 
302. "Deposited Nanoclusters: A model for Heterogeneous Catalysis"  
Kolloquium "Frontiers in Nanoscale Chemistry and Biochemistry"  
Forschungszentrum Karlsruhe  
07.10.-08.10.1999, Karlsruhe
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303. "Modellsysteme für die Katalyse "  
Ferienschule des Fritz-Haber-Instituts "Von der Einkristalloberfläche zum Katalysator"  
11.10.-15.10.1999, Berlin
- 
304. "Dynamik desorbierender Teilchen"  
Physik-Kolloquium, Dortmund  
12.10.1999, Dortmund
- 
305. "Deposited Metal Aggregates: Models for Heterogeneous Catalysis"  
Seminar, Leverhulme Centre for Innovative Catalysis  
01.11.1999, Liverpool, United Kingdom
- 
306. "Nanostrukturierte Metallteilchen: Von der Mikroskopie und Spektroskopie einzelner Cluster zur Katalyse"  
Physikalisch-Chemisches Kolloquium, LMU München  
24.11.1999, München
- 
307. "Deposited Metal Clusters: Models for Heterogeneous Catalysis "  
Kolloquium, Natal University  
07.12.1999, Brazil
- 
308. "Deposited Metal Clusters: Models for Heterogeneous Catalysis "  
Seminar, Universidade Federal do Rio de Janeiro  
09.12.1999, Rio de Janeiro, Brazil
- 
309. "Electronic Structure and Chemistry at Complex Surfaces"  
Search Conf. Mater. Science at the Volkswagen Foundation  
14-16.12.1999, Schloß Etelsen
- 
310. "Kleine getragene Metallpartikel auf Oxidoberflächen als Modellsysteme für heterogene Katalysatoren"  
Kolloquium  
14.01.2000, Hannover
- 
311. "Wachstum und elektronische Struktur von Clustern auf Modellsubstraten"  
Kolloquium  
31.01.2000, Erlangen
- 
312. "Deposited Metal Aggregates: Models for Heterogeneous Catalysts"  
Seminar, RIKEN Institute  
04.02.2000, Saitama, Japan
- 
313. "Spectroscopy of Single Deposited Clusters and Cluster Ensembles in the near and far Fields: Photonemission STM and Cathode luminescence"  
Surface Science Symposium  
14.-18.03.2000, Kananaskis Valley, Canada
- 
314. "Structure and Reactivity of Supported Metal Aggregates"  
Special ACS-Symposium (Gabor Somorjai)  
27.03.2000, San Francisco, USA
- 
315. "Deposited Metal Clusters: Models for Heterogeneous Catalysts"  
Univ. St. Andrews  
05.04.2000, St. Andrews, Scotland
- 
316. "Deposited Metal Aggregates: Well Defined Model Systems for Case Studies in Heterogeneous Catalysis"  
Conference in honor of Jerzy Haber "Catalysis in XXI Century: From Quantum Chemistry to Industry"  
04.05.-07.05.2000, Crakow, Poland
- 
317. "Bridging the Materials and Pressure Gaps between Surface Science and Catalysis"  
H. Topsøe  
15.05.2000, Lyngby, Denmark
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318. "Modelle in der heterogenen Katalyse: Surface Science, Quo Vadis?"  
GdCH-Kolloquiumsvortrag  
25.05.2000, Oldenburg
- 
319. "Bridging the Pressure and Materials Gaps between Catalysis and Surface Science: Clean and Modified Oxide Surfaces"  
Symposium zum 70. Geburtstag von R. K. Grasselli  
09.-10.06.2000, Irsee
- 
320. "Deposited Metal Particles on Oxide Surfaces: Electronic Structure and Reactivity"  
European Research Conference on Cluster Surface Interactions  
24.06.-28.06.2000, Castelveccchio, Italy
- 
321. "Brückenschlag in der Katalyse: Modellsysteme im Ultrahochvakuum und unter Druck"  
GDCh-Vortrag  
06.07.2000, Dresden
- 
322. "Deposited Metal Aggregates: Bridging the Pressure and Materials Gap Between Surface Science and Catalysis"  
CNRS  
19.07.2000, Luminy, France
- 
323. "Deposited Metal Aggregates: Electronic Structure and Reactivity"  
Intern. Union of Mat. Res. Soc. 6th Intern. Conference in Asia  
24.07.-26.07.2000, Hong Kong, China
- 
324. "Model Catalysts Systems: What do we learn from Surface Science?"  
Taylor Conference,  
03.09.-07.09.2000, Liverpool, United Kingdom
- 
325. "Small Deposited Metal Particles on Well-characterized Oxide Surfaces: Models for Heterogeneous Catalyst"  
9. International Symposium on Heterogeneous Catalysis  
23.09.-28.09.2000, Varna, Bulgaria
- 
326. "Surface Science Experiments on Oxide Surfaces"  
Workshop on „Oxide Based Systems at the Crossroads of Chemistry“  
08.-11.10.2000, Como, Italy
- 
327. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"  
2000 Pauling Award Symposium, Western Washington University  
21.10.-22.10.2000, Washington, Bellingham, USA
- 
328. "Structure and Spectroscopy of Small Deposited Metal Particles: Model Systems for Heterogeneous Catalysis"  
Asian Conference on X-rays and Related Techniques in Research and Industry  
20.-22.11.2000, Kuala Lumpur, Malaysia
- 
329. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"  
Department of Chemistry, Universiti Malaya  
23.11.2000, Kuala Lumpur, Malaysia
- 
330. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"  
School of Chemical Sciences, Universiti Kebangsaan Malaysia  
28.11.2000, Bangi, Malaysia
- 
331. "Model Catalyst Systems: What Do We Learn from Surface Science?"  
General Colloquium, Arizona State University  
14.12.2000, Tempe, USA
- 
332. "Adsorption and Chemical Reactivity of Clean and Metal Modified Oxide Surfaces"  
Invited Talk Symp. #108, Pacifichem 2000  
14.-19.12.2000, Honolulu, Hawaii, USA
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333. "Electronic and Geometric Structure of Free and Adsorbate covered Deposited Clusters"  
Invited Talk Symp. #215, Pacifichem 2000  
14.-19.12.2000, Honolulu, Hawaii, USA
- 
334. "Clusters on Oxide Surfaces: Electronic Structure and Reactivity"  
Nonstructural Materials made from Self-assembled Molecules and Particles  
08.-10.01.2001, Hindås, Sweden
- 
335. "Vibrational Spectroscopy to Bridge the Pressure Gap Between Surface Science and Catalysis"  
Kolloquium  
12.01.2001, Torino, Italy
- 
336. "Bridging the Materials and Pressure Gaps in Catalysis: Quo Vadis, Surface Science?"  
IWOX2  
15.-19.01.2001, Taos, New Mexico, USA
- 
337. "Modellsysteme für den Brückenschlag: Von Oberflächen im Vakuum zur Katalyse"  
GdCH-Vortrag (60. Geb. V. Staemmler)  
25.01.2001, Bochum
- 
338. "Inelastic Tunneling from Deposited Clusters"  
27. IUVSTA Workshop on Dynamical Phenomena Related with Electrons at Surfaces  
27.-31.01.2001, Kushiro, Japan
- 
339. "Oxid-Oberflächen"  
20. Rundgespräch  
28.02.-02.03.2001, Bad Honnef
- 
340. "Models in Heterogeneous Catalysis: Surface Science Quo vadis?"  
3rd Brazilian-German Workshop on „Applied Surface Science“  
05.03.-09.03.2001, Florianopolis, Brazil
- 
341. "Models in Heterogeneous Catalysis: Surface Science Quo vadis?"  
75th International Bunsen Discussion Meeting „Catalysis and Modelling of Heterogeneous Catalytic Processes“  
12.03.-14.03.2001, Berlin
- 
342. "Brückenschlag in der Katalyse: Modellsysteme unter Druck"  
DECHEMA, Schwerpunkt-Kolloquium  
15.03.2001, Frankfurt
- 
343. "Surface Science and Catalysis: Quo Vadis?"  
13th Interdisciplinary Surface Science Conference (ISSC-13)  
02.04.-05.04.2001, London, United Kingdom
- 
344. "Adsorption and Reaction on Gold Titania Model Systems"  
Catalytic Gold - International Conference  
02.-05.04.2001, Cape Town, South Africa
- 
345. "Model Systems for Heterogeneous Catalysts: Bridging the Gaps Between Surface Science and Catalysis"  
Ford Motor Company, Ford Research Laboratory  
18.04.2001, Detroit, Michigan, USA
- 
346. "Deposited Metal Particles as Models for Heterogeneous Catalysis From Individual Clusters to Cluster Ensembles"  
Joint AVS-Michigan Catalysis Society Meeting  
19.04.2001, Detroit, Michigan, USA
- 
347. „Metals on Oxides“  
Physics Department, Tulane University  
20.04.01, New Orleans, USA
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348. "Bridging the Gaps from Basic Research to Applications: Surface Science vs. Catalysis"  
Lecture, Academi Sains Malaysia  
27.04.2001, Kuala Lumpur, Malaysia
- 
349. "Fluorescence of Deposited Nanoclusters Using the STM"  
Colloquium, National Academy of Science  
19.05.2001, NAS Headquarter, Washington D.C., USA
- 
350. "Elektronische Struktur einzelner deponierter Metallcluster auf Oxidoberflächen"  
Physik-Kolloquium zum 65. Geburtstag von Prof. H. Neddermeyer  
07.06.2001, Halle
- 
351. "Bridging the Gaps Between Catalysis and Surface Science"  
3 Lectures under the General Title:  
1. "General Concepts and Typical Results on Model Catalysts: Cluster on Oxide Surfaces"  
2. "Properties of Cluster Ensembles and Individual Clusters"  
3. "Studies of Reactivity of Model Catalysts in UHV and Under Ambient Conditions:  
A Comparison Including Kinetic Studies"  
Distinguished Visitor Lecture Series, UCI  
12.06.2001, 14.06.2001, 20.06.2001, Irvine, USA
- 
352. "Probing Physical and Chemical Properties of Deposited Clusters Using Single Cluster  
Photon STM and Molecular Beams"  
Seminar, Department of Chemistry, California Institute of Technology  
22.06.2001, Pasadena, USA
- 
353. "Model Systems for Catalysis: Quo vadis Surface Science?"  
Kolloquium, Physics Department, Karls University  
29.06.2001, Prag, Czech Republic
- 
354. "Bridging the Materials and Pressure Gaps in Catalysis: Model Studies"  
4th G.-M. Schwab Symposium, Dynamic Phenomena in Catalysis'  
08.-12.07.2001, Berlin
- 
355. "Modellsysteme für den Brückenschlag: Von Oberflächen im Vakuum zur Katalyse"  
Universität Heidelberg,  
17.07.2001, Heidelberg
- 
356. "Metal Aggregates on Oxide Surfaces: From Cluster Ensembles to Single Clusters"  
ASEVA Summer School Workshop 'Growth and Behaviour of Metal-Oxide Surfaces'  
23.-26.07.2001, Avila, Spain
- 
357. "Von Oberflächen im Vakuum zur Katalyse"  
Kolloquium, MPI für Eisenforschung  
21.08.2001, Düsseldorf
- 
358. "Model Systems for Heterogeneous Catalysts"  
American Chemical Society Meeting  
26.08.-30.08.2001, Chicago, USA
- 
359. "Bridging the Materials and Pressure Gaps Between Catalysis and Surface Science:  
Clusters on Oxide Supports"  
Europacat 5  
02.-07.09.2001, Limerick, Irland
- 
360. "Bridging the Gaps Between Catalysis and Surface Science"  
3 Lectures under the General Title: in „Frontiers in Chemical Research“, Distinguished  
Program 2000/2001, Texas A&M University  
1. "General Concepts and Typical Results on Model Catalysts: Cluster on Oxide Surfaces"  
2. "Chemical Reactions on Cluster Ensembles and Properties of Individual Clusters"  
3. "Kinetic Studies on Model Catalysts in UHV and Ambient Conditions"  
10.09.-13.09.2001, College Station, Texas, USA
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361. "Surface and Interface Analysis of Catalyst Model Systems in Ultrahigh Vacuum and under Pressure"  
9th European Conference on Applications of Surface and Interface Analysis (ECASIA'01)  
30.09.-05.10.2001, Avignon, France
- 
362. "Deposited Metal Aggregates: Can Surface Science and Catalysis Merge?"  
Invited talk, 450th Anniversary of the Universidad Nacional Autonoma de México  
22.10.-23.10.2001, Mexico City, Mexico
- 
363. "Deposited Metal Aggregates as Model Catalysts: Can Surface Science and Catalysis Merge?"  
MESA-Colloquium, Twente University  
06.11.2001, Twente, The Netherlands
- 
364. "Model Systems for Catalysis: The Atomic Dimension"  
Malaysian Conference on Catalysis, Universiti Putra Malaysia  
12.11.-13.11.2001, Kuala Lumpur, Malaysia
- 
365. "Modellsysteme für heterogene Katalysatoren: Die Brücke zu Surface Science"  
GdCH-Vortrag, Universität Hamburg  
22.11.2001, Hamburg
- 
366. "Modellsysteme für die Katalyse: Die atomare Dimension"  
GdCH-Vortrag, Universität Köln  
23.11.2001, Köln
- 
367. "Modelle für die Katalyse: Ethenhydrierung auf deponierten Pd-Nanoteilchen"  
BASF Aktiengesellschaft Ludwigshafen  
09.01.2002, Ludwigshafen
- 
368. "Nanocluster auf Oberflächen: Struktur, Adsorption und Katalyse"  
Ringvorlesung, TU Darmstadt  
10.01.2002, Darmstadt
- 
369. "Modelle für die Katalyse: Die atomare Dimension"  
Hauptvortrag zum Tag der Chemie, RWTH Aachen  
25.01.2002, Aachen
- 
370. "Increasing Complexity: Oxide Clusters on Oxide Surfaces"  
Workshop „Oxidic Interfaces“  
15.02.-17.02.2002, Wittenberg
- 
371. "Chemical Reactivity of Oxide Supported Metal Clusters"  
Kick-off-Meeting of the COST D19/005/01 Working Group "Chemical Reactivity of Metal Oxide Nanoclusters"  
15.03.-16.03.2002, Vienna, Austria
- 
372. "Deposited Nanoclusters: Models for Heterogeneous Catalysts"  
Seminar, Department Interfasechemie, Katholieke Universiteit Leuven  
26.03.2002, Leuven, Belgium
- 
373. "Bridging the Materials and Pressure Gaps Between Surface Science and Catalysis"  
ACS National Meeting and Exposition, Symposium „Nanoscale Studies of Surface Science“  
07.04.-11.04.2002, Orlando, USA
- 
374. „Die Dynamik desorbierender Moleküle: Wie bricht eine Oberflächen-Molekül-Bindung?"  
Festvortrag zum Abschied von G. Hohlneicher, Universität Köln  
15.04.2002, Köln
- 
375. "Basic Principles of X-ray Diffraction"  
Lecture for COMBICAT-groups, University of Malaya  
02.05.2002, Kuala Lumpur, Malaysia
- 
376. "Basic Principles of Adsorption "  
Lecture for COMBICAT-groups, University of Malaya  
03.05.2002, Kuala Lumpur, Malaysia
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377. "Chemical Reactivity of Supported Metal Clusters"  
Surface Science Canada 2002, University of Ottawa  
13.05.-15.05.2002, Ottawa, Canada
- 
378. "Reactivity of Clean and Metal Modified Oxide Surfaces: Model Systems for Heterogeneous Catalysis"  
Euroconference „Fundamental Aspects of Surface Science“  
01.06.-06.06.2002, Aquafredda di Maratea, Italy
- 
379. "Oxide Clusters on Oxide Surfaces: Increasing Complexity in Model Systems"  
Irsee II, Kloster Irsee  
07.06.-09.06.2002, Irsee
- 
380. "Model Systems for Catalysis: The Atomic Dimension"  
Gordon Research Conference on Catalysis, Colby Sawyer College,  
23.06.-28.06.2002, N.H., USA
- 
381. "Catalysis and Surface Science: How to Bridge the Gap?"  
4th Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT 4),  
Plenary Lecture,  
14.07.-19.07.2002, Tokyo, Japan
- 
382. "Heterogenizing Homogeneous Catalysts: Ziegler-Natta-Catalysis of Ethene Polymerization as an Example of an in-situ Study"  
National Institute of Advanced Industrial Science and Technology (AIST), Research Institute for Green Technology  
18.07.2002, Tsukuba, Japan
- 
383. "Nanostructures in Catalytic Environments"  
1. "Heterogenizing Homogeneous Catalysts: Ziegler-Natta-Catalysis of Ethene Polymerization as an Example of an in-situ Study"  
2. "Deposited Nanoclusters on Oxide Supports: The Atomic Dimension of Heterogeneous Catalysis"  
2 Lectures under the General Title „Metal-Ligand-Interactions in Molecular, micro-, and macro-systems in complex environments“, NATO-Advanced Study Institute  
01.09.-12.09.2002, Cetraro, Grand Hotel San Michele, Italy
- 
384. "Complex Surfaces: From Clean Oxides to Nanomaterials and Real World Catalysts"  
Advanced School on Material Science  
01.09.-03.09.2002, Torino, Italy
- 
385. "Modelsystems in Catalysis: The Atomic Dimension"  
Perspectives and Prospects in Catalytic Sciences, The Royal Institution  
03.09.-05.09.2002, London, United Kingdom
- 
386. "Deposited Clusters on Oxide Supports: Catalysis and the Atomic Dimension"  
International Symposium on Small Particles and Inorganic Clusters (ISSPIC) 11, Council of Europe  
01.09.-13.09.2002, Strasbourg - Council of Europe, France
- 
387. "Model Systems for Catalysis with Increasing Complexity"  
Minerva School "Computational Quantum Chemistry", Schloß Blankensee  
26.09.2002, Blankensee (Nähe Berlin)
- 
388. "Chemical Reactivity of Metal Oxides and Deposited Nanostructures"  
COST General Meeting, TU Wien  
27.09.2002, Vienna, Austria
- 
389. "Deposited Metal Nanoparticles as Model Catalysts: Can Surface Science and Catalysis Merge?"  
William Draper Harkins Lecture, Department of Physics, University of Chicago  
06.10.2002, Chicago, USA
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390. "Probing the Optical Properties of Individual Deposited Metal Particles with the Photon Emission STM"  
Colloquium, James Frank Institute, University of Chicago  
08.10.2002, Chicago, USA
- 
391. "Model Systems for Catalysis with Increasing Complexity"  
Workshop on "Interfacial Chemistry and Catalysis" (COST D15)  
10.10.-13.10.2002, Ysermonde, Nieuwpoort, Belgium
- 
392. "Deposited Clusters on Oxide Supports: Catalysis and the Atomic Dimension"  
Kolloquium, Max-Born-Institut  
16.10.2002, Berlin
- 
393. "X-Ray Photoelectron Spectroscopy on Model Catalysts"  
International Conference on X-Ray in Research and Industry (ICRXI-2002)  
30.10.-31.10.2002, Kuala Lumpur, Malaysia
- 
394. "Models for Heterogeneous Catalysts: The Atomic Dimension"  
Symposium des Institut Universitaire de France  
12.11.2002, Paris, France
- 
395. Lectures at the Université Paul et Marie Curie, Laboratoire des Matériaux Microscopiques et Nanométriques
1. "Structure and Morphology of Deposited Metal Particles"
  2. "Electronic Structure of Ensembles and Individual Particles"
  3. "Adsorption and Reaction on Models for Heterogeneous Catalysis"
  4. "In-situ Experiments in Model Catalysts"
  5. "Towards Ultrafast Spectroscopy of Reactions at Surfaces"
- 13.-14.11.2002, Paris, France
- 
396. "Model Systems in Catalysis: The Atomic Dimension"  
Seminar, UF San Carlos  
22.11.2002, San Carlos, Brazil
- 
397. "Model Systems in Catalysis: The Atomic Dimension"  
Colloquium, COPPE  
26.11.2002, Rio de Janeiro, Brazil
- 
398. "Deposited Metal Clusters: Models for Heterogeneous Catalysis"  
Seminar, Institute of Physics, Lund University  
04.12.2002, Lund, Sweden
- 
399. "Modellsysteme für die Katalyse: Die atomare Dimension"  
GdCh-Vortrag, Universität Kiel  
05.12.2002, Kiel
- 
400. "Vanadium Oxide Surfaces and Deposited Vanadium Oxide Clusters"  
International Workshop on Oxide Surfaces (IWOX-3)  
26.01.-31.01.2003, Sapporo, Japan
- 
401. "Model Systems for Catalysis: The Atomic Dimension"  
Surface Science Symposium, University of California at Riverside  
13.02.-14.02.2003, Los Angeles, USA
- 
402. "Adsorption and Reaction on Deposited Nanoclusters: Models for Heterogeneous Catalysts"  
Inauguration of the Cracow Research Centre for Molecular Catalysis and Soft Matter Chemistry  
31.03.-01.04.2003, Cracow, Poland
- 
403. "STM and Photon-STM Investigations on Deposited Metal Aggregates"  
2nd Latin American Symposium on Scanning Probe Microscopy  
06.04.-09.04.2003, Buzios, Rio de Janeiro, Brazil
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404. "Surface Science and Catalysis: Quo Vadis?"  
Workshop in honor of Prof. D. Menzel, TU München  
28.04.2003, Garching
- 
405. "Models for Heterogeneous Catalysts: Can Surface Science and Catalysis Merge?"  
Kolloquium der Chemisch-Physikalischen Gesellschaft Wien  
13.05.2003, Vienna, Austria
- 
406. "Sites, Edges and Corners on Nanoclusters Deposited on Oxide Surfaces: Selectivity in Model Catalysis. - Models of Metal-oxide Catalysts and Inverse Catalysts -"  
ESF Workshop  
16.05.-18.05.2003, Brixen, Italy
- 
407. "Chemistry on Deposited Nanostructures in Relation to Heterogeneous Catalysis"  
Gordon Research Conference on Clusters, Nanocrystals and Nanostructures,  
Connecticut College  
03.08.-08.08.2003, New London, Connecticut, USA
- 
408. "Atomic-scale Description and Control of Complex Surface Structures"  
Symposium on "Molecular Design of New Catalysts and Nanoporous Materials by Self-Assembling & Combinatorial Methods", II. International ASTATPHYS-MEX-2003 Conference, Plenary Lecture, 25.08.-29.08.2003  
29.08.2003, Puerto Vallarta, Mexico
- 
409. "Selectivity and Sites of Reactions on Supported Nanoparticles"  
COST Chemistry Working Group Meeting, Charles University  
04.09.-06.09.2003, Prague, Czech Republic
- 
410. "Clusters, Facets and Edges: Site Dependent Selective Chemistry on Model Catalysts"  
ACS New York, Annual Meeting of the American Chemical Society, Symposium on "Chemistry on Size Selected Metal Clusters"  
07.09.-11.09.2003, New York, USA
- 
411. "Model Catalysts for Selective Oxidation: Preparation and Characterization"  
ACS New York, Annual Meeting of the American Chemical Society, Symposium on "Selective Catalytic Oxidation: Fundamentals, Applications and Environmental Impact"  
07.09.-11.09.2003, New York, USA
- 
412. "Atomic Scale Description and Control of Complex Surface Structures"  
1st Nanocat Summerschool "Highlights in Nanoscale Catalyst Design and Engineering"  
14.09.-21.09.2003, Torino, Italy
- 
413. "The Surface Chemistry of Catalysis by Gold"  
Gold 2003  
28.09.-01.10.2003, Vancouver, Canada
- 
414. "Model Catalysts: Chemistry of Nanostructures at the Atomic Scale"  
Opening Ceremony of the "Hebrew University Center for Nanoscience and Nanotechnology (HUCNN)", Hebrew University  
03.11.-05.11.2003, Jerusalem, Israel
- 
415. "Clusters, Facets and Edges: Site Dependent Selective Chemistry on Model Catalysts"  
Symposium zu Ehren von Rudolf Zahradnik "Uncovering Elementary Steps in Catalysis. From the Isolated Molecule to the Bulk", Berlin-Brandenburgische Akademie der Wissenschaften  
21.11.2003, Berlin
- 
416. "NO Photodesorption from Oxides and Ag Nanoparticles Deposited on Oxides: REMPI and 2PPE Studies"  
Symposium on Non-adiabatic Processes on Surfaces  
11.01.-15.01.2004, Ein Gedi, Israel
- 
417. "Deposited Nanoclusters and Catalysis"  
Symposium zu Ehren von Klaus Heinz' 60. Geburtstag  
16.01.2004, Erlangen
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418. "Ecken und Kanten: Nanoteilchen als Modellsysteme für die Katalyse"  
Universität Magdeburg, GdCh-Vortrag  
12.02.2004, Magdeburg
- 
419. "Deposited Nanoparticles: Models for Heterogeneous Catalysts"  
DPG-Tagung, Symp. „Functional Nanoparticles“  
09.03.2004, Regensburg
- 
420. "Model Catalytic Systems Under in-situ Conditions"  
3rd San Louis Symposium on Surfaces, Interfaces and Catalysis  
15.03.-19.03.2004, Mérida, Venezuela
- 
421. "Model Catalysts for Selective Oxidations. Preparation and Characterization"  
Symposium of the Collaborative Research Center 546 "Transition metal oxides - clusters, surfaces and solids - structure, dynamics and reactivity"  
21.03.-24.03.2004, Berlin-Schmöckwitz
- 
422. "Oxidation Catalysts: Model Studies"  
Seminar, Nanocenter, University of Åarhus  
25.04.2004, Åarhus, Denmark
- 
423. "Nanoteilchen als Modellsysteme in der Katalyse"  
Universität Rostock, Physikalisches Kolloquium  
06.05.2004, Rostock
- 
424. "Oxidation Catalysts: Model Studies"  
COST-Meeting  
13.05.2004, Magdeburg
- 
425. "Model Catalysts: An Atomic View"  
27th Annual Meeting of the Sociedade Brasileira de Quimica and the XXVI Congresso Latinoamericano de Quimica  
30.05.-02.06.2004, Salvador, Brazil
- 
426. "Clusters, Facets, Edges, and Corners: Chemistry on Nanoparticles"  
I-ICTAC  
25.06.-30.06.2004, Tropea, Italy
- 
427. "Model Studies in Heterogeneous Catalysis"  
Seminar, TU Berlin  
21.06.2004, Berlin
- 
428. "Clusters, Facets, Edges, and Corners: Chemistry on Nanoparticles"  
228th ACS National Meeting and Exposition  
22.08.-26.08.2004, Philadelphia, USA
- 
429. "X-ray Photoelectron Spectroscopy of Model Systems for Heterogeneous Catalysis"  
IXCRI-2004  
15.09.-16.09.2004, Penang, Malaysia
- 
430. "Deposited Nanoparticles: Structure and Chemistry"  
Nordic Conference on Surface Science 5  
22.09.-25.09.2004, Tampere, Finland
- 
431. "Model Studies in Heterogeneous Catalysis at the Atomic Scale"  
Magister Conference Series organized by the Research Center for Theoretical Chemistry (CeRQT) of the University of Barcelona  
05.11.2004, Barcelona, Spain
- 
432. "Ecken, Kanten und Facetten: Nanopartikel als Modellsysteme für die heterogene Katalyse"  
GdCh-Vortrag in Erlangen zum 75 Geburtstag von G. Wedler  
11.11.2004, Erlangen
- 
433. "Transition Metal Oxide Surfaces and Deposited Oxide Clusters"  
IWOX 4  
03.01.-08.01.2005, Aussois, France
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434. "Ecken und Kanten: Ein atomarer Einblick in Nanoteilchen als Modellsysteme für die Katalyse"  
GdCh-Vortrag, Universität Regensburg  
10.01.2005, Regensburg
- 
435. "Nanoparticles as Models for Heterogeneous Catalysts"  
Gordon Research Conference on "Chemical Reactions at Surfaces"  
13.02.-18.02.2005, Ventura, USA
- 
436. "Model Catalysts: An Atomic View"  
Winterschule über Verfahren zur Charakterisierung von Materialoberflächen  
28.02.-01.03.2005, Bremen
- 
437. "Modelcatalysts: An Attempt to Merge Surface Science and Catalysis"  
Netherlands Catalysis and Chemistry Conference  
07.03.-09.03.2005, Noorwijkerhout, The Netherlands
- 
438. "Supported Metal Aggregates: Growth, Structure and Chemistry"  
229th ACS National Meeting and Exposition, Symposium on "Growth and Catalysis of Metal Overlayers"  
13.03.-17.03.2005, San Diego, USA
- 
439. "Model Catalyst Studies on Fischer-Tropsch Materials"  
229th ACS National Meeting and Exposition, Symposium on "Chemistry of Petroleum and Emerging Technologies"  
13.03.-17.03.2005, San Diego, USA
- 
440. "Model Studies in Heterogeneous Catalysis at the Atomic Level"  
Rideal Conference on Chemistry and Catalysis  
21.03.-23.03.2005, Glasgow, United Kingdom
- 
441. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"  
Instituto de Quimica, UNAM  
13.04.2005, Mexico-City, Mexico
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442. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"  
Instituto de Investigaciones en Materiales, UNAM  
12.04.-17.04.2005, Mexico-City, Mexico
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443. "Clusters, Facets, Edges, and Corners: Chemistry on Nanoparticles"  
Colloquium Cambridge University  
03.05.-04.05.2005, Cambridge, United Kingdom
- 
444. "Surfaces of Niobia and Vanadia"  
Group 5 Meeting  
19.05.-21.05.2005, Hancock/MA, USA
- 
445. "Vibrational Spectra of Alumina and Silica Supported Vanadia Revisited: An Experimental and Theoretical Model Catalyst Study"  
Irsee III, Kloster Irsee  
10.06.-11.06.2005, Irsee
- 
446. "Oxide Surfaces and Deposited Nanoparticles: Model catalysts at the Atomic Level"  
Physical Chemistry Division of the Italian Chemical Society,  
34th National Congress on Chemistry  
22.06.-24.06.2005, Sienna, Italy
- 
447. "Model Studies in Heterogeneous Catalysis"  
ISSC 15  
27.06.-30.06.2005, Cardiff, United Kingdom
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448. Malcolm Dole Summer Lectures, Northwestern University  
1. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"  
2. "Oxide Surfaces"  
3. "Photochemistry at Oxide Surfaces and on Nanoparticles"  
26.07.-28.07.2005, Evanston, USA
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449. "Model Studies in Heterogeneous Catalysis at the Atomic Scale"  
Langmuir Lecture, 230th ACS National Meeting and Exposition  
30.08.-01.09.2005, Washington, USA
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450. "Nanoparticles and Supports as Imaged with the STM"  
EMAG-Nanoconference  
31.08.-02.09.2005, Leeds, United Kingdom
- 
451. "Models in Heterogeneous Catalysis at the Atomic Level"  
11. International Conference on the Applications of Density Functional Theory in Chemistry and Physics  
11.09.-15.09.2005, Genf, Switzerland
- 
452. "Nanoparticles on Thin Film Oxides"  
International Symposium on Nanoscale  
24.09.-25.09.2005, Tokyo, Japan
- 
453. "Model Studies on Oxidation Catalysts: Characterization and Reaction"  
5th World Congress on Oxidation Catalysis: Plenary Talk  
25.09.-30.09.2005, Sapporo, Japan
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454. "Model Studies in Heterogeneous Catalysis"  
National Meeting on Nano and Surface Science and Technologies  
28.09.-30.09.2005, Beijing, China
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455. "Atom-scale Description and Control of Complex Surface Studies"  
Nanocat Summerschool "Highlights in Nano-Scale Catalyst Design and Engineering"  
25.10.-27.10.2005, Villeurbanne, France
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456. "Structure and Reactivity of Metal Clusters"  
52nd AVS Meeting "Structure and Reactivity of Metal Clusters"  
30.10.-04.11.2005, Boston, USA
- 
457. "Investigation of Supported Nanoparticles at the Atomic Level"  
Seminar, Physic Department, Helsinki Technical University  
07.12.2005, Helsinki, Finland
- 
458. "Metal Cluster on Oxides: From a Few Atoms to Big Naked and Ligand Stabilized Clusters"  
2005 Pacifichem Conference  
15.12.-20.12.2005, Hawaii, USA
- 
459. "Catalytic Control at the Atomic Level: Deposited Nanoparticles"  
2005 Pacifichem Conference  
15.12.-20.12.2005, Hawaii, USA
- 
460. "Model Catalysts"  
Lecture Series in Heterogeneous Catalysis  
06.01.2006, Berlin
- 
461. "Nanoparticles on Oxides as Models for Heterogeneous Catalysts: An Atomic View"  
10th International Symposium on Catalyst Deactivation  
05.02.-08.02.2006, Berlin
- 
462. "Investigation of Supported Nanoparticles at the Atomic Level"  
4th Annual University of California Symposium on Surface Science and Its Applications  
09.02.-10.02.2006, Berkeley, USA
- 
463. „Modelle für die Heterogene Katalyse aus atomarer Sicht“  
Graduiertenkolleg 894  
24.02.2006, Freyburg an der Unstrut
- 
464. "Electron Spin Resonance and Low Temperature-STM of Metal Atoms and Clusters on Single Crystal Surfaces"  
Symposium on Surface Science 2006  
05.03.-11.03. 2006, St. Christoph am Arlberg, Austria
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465. "Defects on Magnesium Oxide Surfaces: An STM and ESR Study"  
APS March Meeting  
13.03.-17.03. 2006, Baltimore, USA
- 
466. "Modelle für heterogene Katalysatoren auf atomarer Basis: Kohlenwasserstoffhydrierung an Palladium und Palladiumhydrierungsnanoteilchen"  
Kolloquium, BASF  
29.03.2006, Ludwigshafen
- 
467. "Catalytic Control at the Atomic Level: Deposited Nanoparticles"  
VIIth National Chemical Physics Meeting  
19.05.-20.05. 2006, Isparta, Turkey
- 
468. "Die Entwicklung eines Europäischen Forschungsrats: Konzepte und Tendenzen"  
Bundestagung zur EU-Forschungsförderung  
21.06.-22.06.2006, Weimar
- 
469. "Model Catalysts: An Atomic View"  
Microscience 2006  
27.06.-29.06.2006, London, United Kingdom
- 
470. "Oxidgetragene Metallatome und Nanopartikel"  
Vortrag an der Martin-Luther-Universität Halle-Wittenberg  
06.07.2006, Halle/Saale
- 
471. "Defects as Centers for Chemical Reactivity on Oxide Surfaces"  
EURODIM 2006,  
10.07.-14.07.2006, Milano, Italy
- 
472. "From Atoms to Clusters as Models in Heterogeneous Catalysts"  
Fifth Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT5)  
23.07.-28.07.2006, Tokyo, Japan
- 
473. "Atomare Einblicke in die Katalyse: Oxidgetragene Nanopartikel"  
Geburtstagskolloquium Ibach-Lüth, FZ Jülich  
11.08.06, Jülich
- 
474. "Catalysis at the atomic scale"  
Symposium to honor Bill Salaneck on the occasion of his 65th birthday  
17.08.-19.08.2006, Linköping, Sweden
- 
475. "Oxide Supported Nanoparticles: Models in Catalysis at Atomic Resolution"  
XV International Material Research Congress  
20.08.-24.08.2006, Cancun, Mexico
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476. "Model Systems for Heterogeneous Catalysts at the Atomic Scale"  
Symposium für Theoretische Chemie 2006  
03.09.-06.09.2006, Erkner
- 
477. "Deposited Nanoparticles as Model Systems for Heterogeneous Catalysts: Control at the Atomic Level"  
ECOSS 24, Plenary  
04.09.-08.09.2006, Paris, France
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478. "Nanoparticles Supported on Thin Oxide Films"  
ACS National Meeting and Exposition  
10.09.-14.09.2006, San Francisco, USA
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479. "Metal Atoms and Metal Nanoparticles on Oxide Surfaces"  
Symposium honoring Gabor Somorjai at the ACS National Meeting and Exposition  
10.09.-14.09.2006, San Francisco, USA
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480. "Models in Heterogeneous Catalysis: An Atomic View"  
Seminar, Department of Chemistry, UFRGS  
18.09.2006, Porto Alegre, Brazil
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481. "Oxide supported Nanoparticles: Models in Catalysis at Atomic Resolution"  
XX SICat  
17.09.-22.09.2006, Gramado, Brazil
- 
482. "From Atoms to Particles: Metals on Oxide Films"  
10th ISSP International Symposium on Nanoscience at Surfaces  
09.10.-13.10.2006, Tokyo, Japan
- 
483. "Model Systems in Heterogeneous Catalysis: An Atomic View"  
5th International Conference on PEEM/LEEM  
15.10.-19.10.2006, Himeji, Japan
- 
484. "Die Entwicklung eines Europäischen Forschungsrats: Konzepte und Tendenzen"  
Dies Academicus  
04.11.2006, Erlangen
- 
485. "Metal Atoms and Clusters on Oxide Surfaces: Recent Advances"  
GRI Symposium on Cluster Science; Breakthrough Advances in Cluster Science  
07.11.-09.11.2006, Nagoya, Japan
- 
486. "Ultra-thin Film Oxides: Materials with Tailored Properties"  
IXCRI 2006  
29.11.06, Kuala Lumpur, Malaysia
- 
487. "Model Systems for Heterogeneous Catalysts Based on Thin Oxide Films"  
Workshop on Catalysis and Surface Science  
13.12.-15.12.2006, Santa Barbara, USA
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488. "Models for Heterogeneous Catalysts at the Atomic Level"  
Centenary Lecture Tour, University College London  
15. 01.2007, London, United Kingdom
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489. "Models for Heterogeneous Catalysts at the Atomic Scale"  
Centenary Lecture Tour,  
17.01.2007, Cardiff, United Kingdom
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490. "Oxide Supported Nanoclusters"  
Centenary Lecture Tour,  
19.01.2007, Nottingham, United Kingdom
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491. "Oxide Supported Nanoclusters"  
Centenary Lecture Tour,  
22.01.2007, Aberdeen, United Kingdom
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492. "Oxide Supported Nanoclusters"  
Centenary Lecture Tour,  
24.01.2007, Manchester, United Kingdom
- 
493. "Modelle für heterogene Katalysatoren: Atomare Einblicke"  
GdCH-Kolloquium, Universität Köln  
02.02.2007, Köln
- 
494. "Thin Oxide Films as Model Supports for Heterogeneous Catalysts: An Atomic View"  
Seminar, Chemistry Department, Lehigh University,  
20.03.2007, Bethlehem, USA
- 
495. „Oxide Supported Nanoclusters“  
Spring Symposium of the Catalysis Society of New York,  
21.03.2007, ExxonMobile Research Facility, New York, USA
- 
496. „Model Systems in Heterogeneous Catalysis at the Atomic Level“  
Seminar, Physics Department, Rutgers University,  
22.03.2007, Piscataway, USA
- 
497. "Bulk and Supported Catalysts: Selectivity at the Atomic Scale"  
ACS National Meeting and Exposition, Symposium „Nanoscale Inorganic Catalysis“  
25.03.-29.03.2007, Chicago, USA
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498. "The Surface Science of Metal and Oxide Catalysts: Model Systems at the Atomic Level", ACS National Meeting and Exposition, Gabor A. Somorjai Award Lecture  
25.03.-29.03.2007, Chicago, USA
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499. "Atom-Scale Description and Control of Complex Surface Structures"  
Meeting in Honor of Prof. Francisco Nart  
11.04.-13.04.2007, Sao Carlos, Brazil
- 
500. "Models for Heterogeneous Catalysts: Preparation and Characterization"  
4th San Luis Summer School on Surface, Interfaces and Catalysis  
14.04.-16.04.2007, Cuernavaca, Mexico
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501. "From Atoms to Clusters: Models for Heterogeneous Catalysts"  
4th San Luis Conference on Surface, Interfaces and Catalysis  
16.04.-21.04.2007, Cuernavaca, Mexico
- 
502. "Models for Heterogeneous Catalysts: Preparation and Characterization"  
4th San Luis Conference and Summer School on Surface, Interfaces and Catalysis  
14.04.-23.04.2007, Cuernavaca, Mexico
- 
503. "Deposited Nanoparticles: Models for Heterogeneous Catalysts at the Atomic Dimension"  
Gastvortrag, Leopold-Franzens-Universität Innsbruck  
30.04.2007, Innsbruck, Austria
- 
504. "Deposited Nanoparticles: Models for Heterogeneous Catalysts at the Atomic Dimension"  
Nanocatalysis Summer School  
31.05.2007, Les Houche, France
- 
505. "Models for Heterogeneous Catalysts: Preparation and Characterization"  
Nanocatalysis Summer School  
31.05.2007, Les Houche, France
- 
506. "Model Systems in Heterogeneous Catalysis: Selectivity Studied at the Atomic Level"  
Irsee IV  
07.06.-10.06.2007, Irsee
- 
507. "Models for Heterogeneous Catalysts: Preparation and Characterization"  
NSF-PASI Workshop  
Electronic States and Excitations on Nanostructures  
11.06.-22.06.2007, Zacatecas, Mexico
- 
508. "Models in Heterogeneous Catalysis at the Atomic Level"  
NSF-PASI Workshop  
Electronic States and Excitations on Nanostructures  
11.06.-22.06.2007, Zacatecas, Mexico
- 
509. "Modelle für die Heterogene Katalyse: atomare Einblicke"  
Verleihung der Ehrendoktorwürde K. Wandelt, Universität Leipzig  
Electronic States and Excitations on Nanostructures  
15.06.2007, Leipzig
- 
510. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"  
International Bunsen Discussion Meeting  
29.06.-30.06.2007, Heidelberg
- 
511. "Metal Atoms and Model Clusters on Oxide Surfaces: Electronic Structure and Reactivity"  
IVC17/ICSS13 and ICN+T 2007 Congress  
02.07.-06.07.2007, Stockholm, Sweden
- 
512. "Model Systems in Heterogeneous Catalysis: Selectivity Studied at the Atomic Level"  
International Symposium on Relations Between Homogeneous and Heterogeneous Catalysis (ISHHC XIII)  
16.07.-20.07.2007, Berkeley, USA
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513. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"  
Colloquium, Department of Chemistry, University of California, Irvine  
24.07.2007, Irvine, USA
514. "Models for Heterogeneous Catalysts: Preparation and Characterization"  
Colloquium, Department of Chemistry, University of California, Irvine  
03.08.07, Irvine, USA
515. "Photochemistry at Metal Nanoparticles"  
Colloquium, Department of Chemistry, University of California, Irvine  
09.08.07, Irvine USA
516. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"  
Seminar, University of North Texas  
27.07.2007, Denton, USA
517. "Reactions on Oxide-supported Nanoparticles"  
Elementary Reactive Processes at Surfaces Conference, Donostia International Physics Center  
31.08.-01.09.2007, Donostia-San Sebastian, Spain
518. "Structural and Reaction Studies on Transition Metal Oxide Aggregates"  
Sfb Symposium "From Clusters to Catalysts – Transition Metals and Transition Metal Oxides"  
18.10.-21.10.2007, Erkner
519. "Metal Atoms and Clusters on Oxide Surfaces: Electronic Structure and Reactivity"  
Jyvaskyla Nanoscience Days  
25.10.-26.10.2007, Jyvaskyla, Finland
520. "Models for Heterogeneous Catalysts at the Atomic Scale"  
Centenary Lecture Tour, University of Southampton  
21.11.2007, Southampton, United Kingdom
521. "Atome und Cluster auf Oxidoberflächen: Atomare Einblicke in die Katalyse"  
GDCh Vortrag, Karlsruher Chemische Gesellschaft  
29.11.2007, Karlsruhe
522. 1. "Nanoparticles on Oxide Surfaces: an Atomic View"  
2. "Reactions on Model Systems for Heterogeneous Catalysts"  
Kuwait University  
18.02.-22.02.2008, Kuwait City, Kuwait
523. "Gold Atoms, Chains and Islands on Oxide Films: Looking at Orbitals and Counting Electrons"  
APS March Meeting "Fundamental Issues in Catalysis"  
10.03.-14.03.2008, New Orleans, USA
524. 1. "Metal Atoms, Clusters, and Nanoparticles on Oxide Supports"  
2. "Ultra-thin Film Oxides: Materials with Tailored Properties"  
3. "Optical Properties and Photochemistry of Nanoparticles"  
V. N. Ipatieff Lectureship 1, Northwestern University  
15.03. – 28.03.2008, Chicago, USA
525. "Supported Metal Clusters as Model for Heterogeneous Catalysts at the Atomic Scale"  
2008 Invitational Lecture Series at UOP Technical Community Organization Honeywell Technology  
18.03.2008, Des Plaines, USA
526. "Ultra-thin Oxide Films as Designable Model Catalysts"  
Seminar  
25.03.2008, Argonne National Laboratory, USA
527. "Interaction and Reaction of Hydrocarbons with Supported Nanoparticles"  
Francisco Zaera's Arthur W. Adamson Award for Distinguished Service in the Advancement of Surface Chemistry  
ACS National Meeting and Exposition  
06.04.-10.04.2008, New Orleans, USA

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528. "Model Studies on Bulk Vanadia Surfaces and on Supported Vanadia Nanoscale Systems"  
George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Symposium in Honor of Israel E. Wachs  
ACS National Meeting and Exposition  
06.04.-10.04.2008, New Orleans, USA
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529. "Metallatome und Nanoteilchen auf dünnen Oxidfilmen: Systeme mit einstellbaren Eigenschaften"  
Physikkolloquium, Universität Ilmenau  
15.04.2008, Ilmenau
- 
530. "Metal Atoms and Clusters on Thin Oxide Films: Systems with Designable Properties"  
Physikalisches Institut Köln  
22.04.2008, Köln
- 
531. "Atomare Einblicke in die Katalyse"  
Festveranstaltung aus Anlass des 60. Geburtstags von E. Umbach  
09.05.2008, Karlsruhe
- 
532. "Metal Atoms and Clusters as Model Systems with Designable Properties"  
"Catalysis for Society"  
11.05.-15.05.2008, Cracow, Poland
- 
533. "From Atoms to Nanoparticles on Oxide Supports: An Atomic View at Structure-Chemistry Relations"  
CERC3 Workshop "Surface Chemistry of Nanomaterials"  
15.05.-16.05.2008, Vienna, Austria
- 
534. "Metal Atoms and Clusters on Thin Oxide Films: Systems with Designable Properties"  
Hassel Lecture  
20.05.2008, Oslo, Norway
- 
535. "Chemistry on Supported Nanoparticles: Model Studies"  
Hassel Seminar  
21.05.2008, Oslo, Norway
- 
536. "Atome und Cluster auf Oxidoberflächen: Atomare Einblicke in die Katalyse"  
Universität Hannover, GDCh-Vortrag  
22.05.2008, Hannover
- 
537. "Ultra-thin Oxide Films as Designable Model Catalyst System"  
Symposium in honour of Wyn Roberts  
27.05.2008, Cardiff, United Kingdom
- 
538. "Der wissenschaftliche Forschungsrat: Ein neues Instrument europäischer Forschungsförderung"  
11. Steinheimer Gespräche des Fonds für den Hochschullehrernachwuchs  
30.05.2008, Frankfurt am Main
- 
539. "Hydrogen on and in Nanoparticles: Key to Catalytic Activity"  
4th International Conference on X-rays and Related Techniques in Research and Industry (ICXRI 2008)  
02.06.-06.06.2008, Kota Kinabalu, Sabah, Malaysia
- 
540. "Metal Atoms and Clusters as Model Systems with Designable Properties"  
Seminar, Department of Chemistry, Universiti Kebangsaan Malaysia  
Research and Industry (ICXRI 2008)  
05.06.-08.06.2008, Kuala Lumpur, Malaysia
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541. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"  
NATO ARW "Self-Organization of Molecular Systems in Micro-, Nano, and Macro-Dimensions: From Water to Nanoparticles, to Nanotubes, to DNA and Proteins"  
08.06.-12.06.2008, Kiev, Ukraine
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542. "From Atoms to Clusters: Models for Heterogeneous Catalysts"  
3. Workshop on Nanoscale Physics and Devices, Yunnan University  
03.07.-06.07.08, Kunming, China
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543. "Basic Research in Catalysis to sustain Energy Supply for the Future"  
Catalysis Summit  
07.07.2008, Sapporo, Japan
- 
544. "An Atomic View of Model Catalysts"  
International Symposium on Creation and Control of Advanced Selective Catalysis as Celebration of the 50th Anniversary of Catalysis Society in Japan  
08.07.-12.07.2008, Kyoto, Japan
- 
545. "Metal Atoms and Clusters on Oxide Surfaces with Designable Electronic Properties: Model Systems for Catalysis"  
Catalysis as the Pivotal Technology for the Future Society , COEX Convention Center  
14th International Congress on Catalysis  
13.07.-18.07.2008, Seoul, South Korea
- 
546. "From Metal Atoms and Clusters to Nanoparticles on Oxide Surfaces: Model Systems for Heterogeneous Catalysis"  
Lecture, University of Science and Technology of Hefei  
19.07.-22.07.2008, Hefei, China
- 
547. "Nanoparticles as Models for Heterogeneous Catalysts: An Atomic View"  
ECOSS-25  
27.07.-01.08.2008, Liverpool, United Kingdom
- 
548. "From Supported Atoms to Nanoclusters: Surface Chemistry at the Nanoscale"  
Grand Challenge for Catalysis Workshop  
11.08.-15.08.2008, Santa Barbara, USA
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549. "From Atoms to Nanoparticles Supported on Oxide Surfaces"  
Annual Scientific Meeting, Center for Catalysis and Surface Science, Northwestern University  
26.08.2008, Evanston, USA
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550. "Catalytic Chemistry on and in Nanoparticles: Oxide Supported Model Systems"  
Seminar Talk, Department of Chem. Engineering, University of Wisconsin  
22.08.2008, Madison, USA
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551. "Metal Atoms and Clusters on Oxide Surfaces"  
"Free, coordinated and supported clusters: Bridging experiment and theory"  
Conacyt – DFG Workshop  
01.09.-07.09.2008, Mexico-City, Mexico
- 
552. "Surfaces of Functional Materials at the Atomic Level: Catalysis, a Case Study"  
6th German-Brazilian Workshop  
15.09.-19.09.2008, Titi-See, Neustadt
- 
553. "Surface Science Models in Catalysis: An View at the Atomic Level"  
Gallei Workshop, BASF Katalysetag  
22.09.-23.09.2008, Ludwigshafen
- 
554. "Reactivity Studies on Oxide Supported Metal Nanoparticles"  
AVS 55th International Symposium  
19.10.-24.10.2008, Boston, USA
- 
555. "The European Perspective: A Report from the ERC."  
2nd Forum of the AvH International Advisory Board:  
*Strategies to Win the Best: German Approaches in International Perspectives*  
06.12.2008, Berlin
- 
556. "Metal Atoms and Clusters on Oxide Surfaces: Surface Science Quo Vadis?"  
Helmut Schwarz Birthday Symposium, GDCh  
14.12.-16.12.2008, Stiftung Kloster Eberbach, Eltville
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557. "Heterogeneous Catalysis and Nanostructures"  
Universite Libre de Bruxelles: Outstanding PhD formation day  
20.01.2009, Bruxelles, Switzerland
- 
558. "Metal Nanoparticles on Oxide Surfaces: Models for Heterogeneous Catalysts at the Atomic Level"  
Paul Scherrer Institut  
22.01.2009, Villingen, Switzerland
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559. "Surfaces of Functional Materials at the Atomic Level: Catalysis, a Case Study"  
25th Annual Meeting of the Swiss User Group Surfaces and Interfaces  
23.01.2009, Fribourg, Switzerland
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560. "Supported Metal and Oxide Nanoclusters: From Electronic Structure to Reactivity"  
Max Planck-University of British Columbia Workshop, MPI for Solid State Research  
17.02.-18.02.2009, Stuttgart
- 
561. "Photoemission and Related Techniques"  
COST Winter School "Methods to Characterize Oxide Surfaces"  
23.02.-27.02.2009, Berlin
- 
562. "From Atoms to Nanoparticles on Oxide Surfaces: Model Systems for Heterogeneous Catalysis"  
WPI-AIMR 2009 Annual Workshop  
02.03.-06.03.2009, Miyagi, Japan
- 
563. "Methanol Oxidation over Vanadia: A Combined STM, TDS, XPS, IRAS Study"  
22nd Symposium on Surface Science (3S)  
08.03.-14.03.2009, St. Moritz, Switzerland
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564. "From Adsorbed Atoms to Supported Clusters: Experiments vs. Theory"  
ACS National Meeting and Exposition, Symposium "The Convergence Between Theory and Experiment in Surface Chemistry and Heterogeneous Catalysis"  
22.03.-26.03.2009, Salt Lake City, USA
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565. "Reactivity Studies on Oxide Supported Metal Nanoparticles"  
CATL Symposium  
22.03.2009, Salt Lake City, USA
- 
566. "Heterogeneous Catalysis and Nanostructures"  
Ehrenkolloquium Klaus Heinz, Universität Erlangen  
15.05.2009, Erlangen
- 
567. "Engineering Materials Surfaces at the Atomic Level: Catalysis, as a Case Study"  
Bunsentagung  
21.05.-23.05.2009, Köln
- 
568. "Engineering Surfaces at the Atomic Level"  
Lecture, Radboud University  
08.06.2009, Nijmegen, The Netherlands
- 
569. "Models for Heterogeneous Catalysts: Supported Nanoparticles at the Atomic Scale"  
inGAP-NANOCAT summer school: "Nano designed-catalysts: from molecules to industrial processes"  
21.06.-29.06.2009, Trondheim, Norway
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570. "Engineering Surfaces at the Atomic Level"  
223<sup>rd</sup> ZhongGuanCun Forum of the Institute of Physics and The Chinese Physical Society  
04.07.-08.07.2009, Beijing, China
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571. "Reactivity of Oxide Supported Nanoparticles at the Atomic Scale"  
CINF Summer School 2009, Sandberg Gods (Estate)  
23.08.-28.08.2009, Sønderborg, Denmark
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572. "Au Nanostructures and Their Interaction with Molecules"  
ChinaNANO 2009  
01.09.-03.09.2009, Peking, China
573. "Oxide Supported Nanoparticles and its Reaction to Reactivity"  
Conference "Nanostructures at Surfaces - Spectroscopy at the Atomic and Molecular Scale"  
20.09.-25.09.2009, Monte Verità, Switzerland
574. "Effects of Plasmon Excitation on Photodesorption of Small Molecules from Supported Silver Nanoparticles"  
11th International Conference on Electronic Spectroscopy and Structure (ICESS11)  
06.10.-10.10.2009, Nara, Japan
575. "The Electronic Structure of the Nanoparticle-oxide Interface"  
ECASIA  
19.10.-23.10.2009, Antalya, Turkey
576. "Nanostructure Materials Characterization Techniques and its Applications"  
Course on Nanoscience and Nanotechnology of Nanostructural Materials, Chemical Engineering Department, Nucleo de Catálise, COPPE Univ. Federal Rio de Janeiro  
09.11.-14.11.2009, Rio de Janeiro, Brazil
577. "Electronic Structure – Reaction Relations of Oxide Supported Nanoparticles at the Atomic Level"  
7th International Symposium on Atomic Level Characterizations for New Materials and Devices '09  
06.12.-11.12.2009, Maui, Hawaii, USA
578. "Engineering Surfaces at the Atomic Level"  
Department of Physics and Astronomy, University of Hawai at Manoa  
03.12.2009, Manoa, Hawaii, USA
579. "Cluster, Oxides, and Thin Films: Studies at the Atomic Level"  
Meeting of the UCL Catalysis Centre  
03.02.2010, London, United Kingdom
580. "Chemistry and Physics of Catalytic Surfaces"  
*Principles and Applications of Catalysis Meeting*  
17.02.-19.02.2010, Bad Honnef
581. "Controlling Chemical Reactivity Via Thin Oxide Films"  
SFB 762 "Functionality of Oxide Interfaces", Kloster Irsee  
01.03.-05.03.2010, Irsee
582. "Oxide Nanoparticles Supported on Oxide Supports: Structure-reactivity Relationship"  
239 ACS National Meeting, Gabor A. Somorjai Award for Creative Research in Catalysis, Symposium in Honor of Robert J. Madix: "From Surface Science to Heterogeneous Catalysis"  
21.03.-25.03.2010, San Francisco, USA
583. "Electronic Structure Relations of Oxide Supported nanoparticles at the Atomic Level"  
FHI-CRC Joint Symposium  
01.04. – 02.04.10, Sapporo, Japan
584. "Atom-Scale Description and Control of Complex Surface Structures"  
San Louis V Summer School  
09.-11.04.2010, São Pedro, Brazil
585. "Electronic Structure Relations of Oxide Supported Nanoparticles at the Atomic Level"  
San Louis V Symposium  
09.-11.04.2010, São Pedro, Brazil
586. "Structure and Reactivity of Metal Particles Supported on Thin Oxide Films: Catalyst Model Systems at the Atomic Level"  
Physikalisch-chemisches Kolloquium, Freie Universität Berlin  
05.05.2010, Berlin

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587. "Elektronische Struktur und Reaktivität von getragenen Metallteilchen auf ultradünnen Oxidfilmen: Katalysator-Modellsysteme auf atomarem Niveau"  
Physikalisch-Chemisches Kolloquium, FU Berlin  
05.05.-06.05.2010, Berlin
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588. "Can monolayer Oxide Films Promote Reactivity?"  
5th Irsee Symposium on New Insights into Selective Heterogeneous Oxidation Catalysis, Kloster Irsee  
10.06.-13.06.2010, Irsee
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589. "Begutachtungs- und Entscheidungsprozesse im ERC"  
IFG-Jahrestagung "Evaluation: New Balance of Power?"  
15.06.2010, Berlin
- 
590. "Supported Metal Particles: Electronic Structure, Reaction and Photochemistry"  
SPIE Symposium  
01.08.-05.08.2010, San Diego, USA
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591. "Electronic Structure and Reactivity of Metals Supported on Thin Oxid Films: Catalyst Model Systems at the Atomic Level"  
18th International Vacuum Congress  
23.08.-27.08.2010, Beijing, China
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592. "Atom-Scale Description and Control of Complex Surface Structures"  
Lecture, Physical Chemistry Forum, College of Chemistry and Molecular Engineering  
Beijing University  
25.08.2010, Beijing, China
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593. "Model Catalyst Design: A Perspective at the Atomic Level"  
Plenary Lecture, 3rd EuCheMS Chemistry Congress  
29.08.-02.09.2010, Nürnberg
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594. "System Flexibility in Catalysis"  
Workshop "Energy" und "Catalysis", 3rd EuCheMS Chemistry Congress  
29.08.-02.09.2010, Nürnberg
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595. "Funding of Chemistry within the European Research Council"  
ERA-Chemistry Symposium  
30.08.2010, Nürnberg
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596. "Nanostructures in Catalysis at the Atomic Level"  
Karlsruher Chemie Kongress  
03.09. -04.09.2010, Karlsruhe
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597. "Thin Oxide Films, Supported Oxide Nanoparticles and Their Reactivity"  
Final Meeting COST Action D41  
07.09.-09.09.2010, Torino, Italy
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598. "From Atoms to Clusters Supported on Oxide Surfaces"  
XV. ISSPIC  
19.09.-24.09.2010, Oaxaca City, Mexico
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599. "Electronic Structure Relations of Oxide Metal Interfaces at the Atomic Level"  
Workshop "Passion for Interfaces"  
27.09.-01.10.2010, Donostia-San Sebastian, Spain
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600. "Electronic Structure and Reactivity of Metals Supported on Thin Oxide Films: Catalyst Model Systems at the Atomic Level"  
University of Science and Technology  
12.11.2010, Hefei, China
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601. "Can Monolayer Oxide Films Promote Reactivity?"  
Lecture, Dalian Institute of Chemical Physics, The Chinese Academy of Sciences  
13.11.2010, Dalian, China
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602. "Model Catalyst Design and Characterization"  
Evaluation Visit, Kuwait University  
17.01.-19.01.2011, Kuwait-City, Kuwait
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603. "Atom-scale Description and Control of Complex Surface Structures"  
SFB 546-UniCat Workshop  
20.02.-23.02.2011, Erkner
- 
604. "Thin Oxide Films, Charge Transfer and Catalysis!"  
G. B. Kistiakowsky Lecture, Harvard University  
01.03.2011, Harvard, USA
- 
605. "Models for Catalysts: Is There Anything New?"  
"Ultrathin Films as Electronically Designable Catalyst Systems"  
A.D. Little Lectures in Physical Chemistry, MIT, Cambridge  
07.03.-08.03.2011, Cambridge, USA
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606. "Model Systems in Catalysis: An Atomic View at Deposited Atoms and Supported Clusters"  
Symposium on Size Selected Clusters 2011, S3C  
20.03.-25.03.2011, Davos, Switzerland
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607. "Model Studies in Heterogeneous Catalysis: An Atomic View"  
Frühjahrssymposium des GDCh, JungChemikerForum  
23.03.-26.03.2011, Erlangen
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608. "Structure-Activity Relations in Thin Oxide Film Systems"  
141. ACS National Meeting and Exposition  
FUEL, Division of Fuel Chemistry  
27.03.-31.03.2011, Anaheim, USA
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609. "Electronic States of Au on Oxide Surfaces"  
CATL, Division of Catalysis Science and Technology  
141. ACS National Meeting and Exposition  
27.03.-31.03.2011, Anaheim, USA
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610. "Metal Atoms and Clusters as Model Systems with Designable Properties"  
Brazilian-German Workshop  
03.04.-09.04.2011, Armacao de Buzios, Brazil
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611. "Model Catalyst Design: A Perspective at the Atomic Level"  
17th Rideal Conference  
19.04.-21.04.2011, Cardiff, United Kingdom
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612. "In-situ and Ex-situ Investigation of Ultrathin Oxide Films and their Chemical Reactivity"  
2011 MRS Spring Meeting  
25.04.-29.04.2011, San Francisco, USA
- 
613. "Ultrathin Oxide Films in Catalysis: An Old Misconception?"  
Wiener Physikalisches Kolloquium  
02.05.2011, Vienna, Austria
- 
614. "Der Europäische Forschungsrat: Fakten und Perspektiven"  
Vortrag am Freiburg Institute for Advanced Studies (FRIAS)  
12.05.2011, Freiburg
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615. "Ultra-thin Film Oxides: Materials with Tailored Properties"  
8th International Symposium on Atomic Level Characterization for New Materials  
and Devices '11  
22.05.-27.05.2011, Seoul, South Korea
- 
616. "Model Cataly Design: A Perspective at the Atomic Level"  
GdCh-Vortrag  
07.07.2011, Konstanz
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617. "Photochemistry and Photodesorption from Oxide Supported Metal Nanoparticles"  
Symposium on the Fundamentals of Photocatalysis  
11.07.-13.07.2011, Hefei, China
618. "Reactivity of Ultrathin Oxide Films"  
University of Beijing  
20.07.-23.07.2011, Beijing, China
619. "Adsorption and Reactivity of Molecules and Atoms on and in Supported Nanoparticles and Nanocrystals"  
Gordon Research Conference 2011,  
24.07.-29.07.2011, South Hadley, USA
620. "Oxide Surfaces: Geometric and Electronic Structure"  
Goldschmidt Meeting  
14.08.-19.08.2011, Prague, Czech Republic
621. "Ultrathin Oxide Films: The "Physics of Catalysis"  
Seminar, School of Physics and Astronomy, University of Birmingham  
05.10.2011, Birmingham, United Kingdom
622. "Die Zukunft des ERC aus der Sicht des Wissenschaftlichen Rates"  
HRK Workshop  
10.10.2011, Frankfurt
623. "From Adsorbed Atoms to Supported Clusters: Experiment vs. Theory"  
International Symposium On Clusters and Nanostructures (ISCAN)  
07.11.-10.11.2011, Richmond, Virginia, USA
624. "Thin Oxide films: The Expected and the Unexpected"  
IWOX-VIII  
15.01.-20.01.2012, Baqueira-Beret, Spain
625. "Model Catalysts: From Supports to Supported Nanoparticles"  
Toyota Technology Institute  
31.01.2012, Nagoya, Japan
626. "Electronics, Thermodynamics, and Kinetics of Supported Clusters"  
3rd GRI Symposium on Cluster Science 'Functionality of Clusters' (GRIS III)  
01.02.-03.02.2012, Nagoya, Japan
627. "Ultradünne Oxidschichten: Die "Physik" der Katalyse"  
Wacker Chemie AG  
17.02.2012, Burghausen
628. "Ultrathin Oxide Films Grown on Metals: New Thoughts on Catalytic Materials"  
International Workshop on Advanced Materials (IWAM-2012)  
19.02.-21.02.2012, Ras Al Khaimah, United Arab Emirates
629. "Thin Oxides Films and the "Physics" of Catalysis: The Expected and the Unexpected"  
University of California, Irvine  
22.04.-24.03.2012, Irvine, USA
630. "Ultra-thin Film Oxides: Materials with Tailored Properties"  
ACS 2012 National Spring Meeting  
24.03.-29.03.2012, San Diego, USA
631. "Models in Catalysis: The Expected and the Unexpected"  
Robert Bunsen-lecture  
22.05.2012, Zurich, Switzerland
632. "Model Catalyst Design: A Perspective at the Atomic Level"  
Physikalisch Chemisches Kolloquium, Ludwig-Maximilians-Universität München  
06.06.2012, Munich

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633. "Model in Heterogeneous Catalysis: What has been Learned?"  
15. International Conference on Catalysis 2012, ICC 15  
01.07.-06.07.2012, Munich
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634. "Model Catalyst Studies based on Thin Oxide Films"  
16. International Conference on Solid Films and Surfaces, ICSFS 16  
01.07.-06.07.2012, Genoa, Italy
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635. "Ultrathin oxide films: the "physics" of catalysis"  
2012 International Workshop on Nanomaterials and Nanodevices  
09.07.-12.07.2012, Beijing, China
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636. "Nanoparticles as models for heterogeneous catalysts: An atomic view"  
2012 International Workshop on Nanomaterials and Nanodevices  
09.07.-12.07.2012, Xining, China
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637. "Modelle für heterogene Katalysatoren: Wie viel Komplexität ist notwendig?"  
Klassensitzung Nordrhein-Westfälische Akademie der Wissenschaften und der Künste  
25.07.2012, Düsseldorf
- 
638. "Thin Films as Model Materials in Catalysis: A Perspective at the Atomic Level"  
Faculty of Chemistry and Biochemistry, RUB  
26.07.2012, Bochum
- 
639. "Ultra-thin Film Oxides: Grown on Metals: Materials with Tailored Properties"  
Symposium "Spectroscopy and Microscopy in Catalysis: The In Situ Age"  
ACS National Meeting and Exposition  
19.08.-23.08.2012, Philadelphia, USA
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640. "Three-dimensional Silicocolites and Zeolites: A New Field for Surface Science"  
Symposium "Progress in Electronic and Vibrational Spectroscopy of Catalytic Materials and Catalytic Reactions"  
ACS National Meeting and Exposition  
19.08.-23.08.2012, Philadelphia, USA
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641. "Models in Catalysis: Synergy Between Experiment and Theory"  
International Conference on Theory and Applications of Computational Chemistry, TACC 2012  
02.09.-07.09.2012, Pavia, Italy
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642. "The Surface Science of Supported Au Nanoparticles and its Relation to Catalysis"  
The 6th International Conference on Gold Science Technology and its Application, Gold 2012  
05.09.-08.09.2012, Tokyo, Japan
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643. "Ultrathin Oxide Films: The Expected and the Unexpected"  
Dinesh O. Shah Annual Lectureship in Surface Science, University of Florida, Chemical Engineering Department  
11.10.2012, Gainesville, USA
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644. "Ultrathin Oxide Films: The Expected and the Unexpected"  
Blaise Pascal Medal Award Ceremony, European Academy of Sciences  
26.10.2012, Liege, Belgium
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645. "Oxide Supported Nanoclusters"  
Seminar, Particles and Catalysis Research Group, School of Chemical Sciences and Engineering, The University of New South Wales  
29.01.2013, Sydney, Australia
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646. "Model Catalyst Design: A Material Science Perspective at the Atomic level"  
Monash Chemical Society Lecture, Monash University  
05.02.2013, Melbourne, Australia
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647. "Photochemistry and Photodesorption from oxide supported metal nanoparticles"  
Seminar, Department of Chemistry, Otago University  
07.02.2013, Dunedin, New Zealand
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648. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"  
AMN-6 Conference  
11.02.-15.02.2013 Auckland, New Zealand
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649. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"  
Temple University  
28.02.-28.02.2013, Philadelphia, USA
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650. "Model Catalysts for Oxidation Reactions: Are Dopants in Simple Oxides relevant?"  
Joint Meeting of UniCat and Northwestern University  
18.-19.03.2013, Berlin, Germany
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651. "Fundamental studies using surface science techniques"  
Wilhelm und Else Heraeus-Seminar  
24.03.-27.03.2013, Bad Honnef, Germany
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652. "Thin Films as Model Materials in Catalysis: A Perspective at the Atomic Level"  
245th ACS National Meeting and Exposition  
, Symposium in honor of Prof. Alex Bell  
07.04.-11.04.2013, New Orleans, USA
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653. "Ultra-thin Oxide Films as Designable Model Catalysts"  
245th ACS National Meeting and Exposition, "Arthur W. Adamson Award"  
07.04.-11.04.2013, New Orleans, USA
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654. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"  
Cardiff Chemistry Conference 2013  
13.05.-14.05.2013, Cardiff, United Kingdom
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655. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"  
10 Years CeNTech, CeNTech Day  
05.06.-06.06.2013 Münster, Germany
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656. "Oxygen activation on oxide surfaces"  
7th World Congress on Oxidation Catalysis  
08.06.-12.06.2013, Saint Louis, USA
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657. "Model Catalysts Design: A Material Science Perspective at the Atomic Level"  
NIMS Conference 2013  
01.07.-03.07.2013, Tsukuba City, Japan
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658. "Model Catalysts Design: A Material Science Perspective at the Atomic Level"  
International Workshop on Nanomaterials and Nanodevices  
02.07.-08.07.2013, Beijing, China
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659. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"  
Hayashi Conference: Next decades of Surface Science  
16.07.-20.07.2013, Hayama, Japan
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660. "From Oxide Film Supported Nanoparticles to Two-dimensional Zeolite Films"  
Meeting on Catalysis  
29.07.-02.08.2013, Telluride, USA
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661. "Model Studies on Heterogeneous Catalysis at the Atomic Scale"  
The 16th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis  
04.08.-09.08.2013, Sapporo, Japan
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662. "From pure metal supported oxide films to two-dimensional zeolite films"  
8. German-Brazilian Workshop  
15.09.-20.09.2013, Bamberg, Germany
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663. "Model Catalyst Design: A Material Science Perspective at the Atomic level"  
Lecture, University of Szeged, Institute of Chemistry  
18.11.2013, Szeged, Hungary
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664. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"  
ALC '13, 9th International Symposium on Atomic Level Characterizations for New Materials and Devices '13,  
02.12.-06.12.2013, Kona, Hawaii, USA
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665. "Ultra-thin Oxide Films as Designable Model Catalysts"  
Cardiff Catalysis Institute's Annual Conference,  
06.01.-07.01.2014, Cardiff, United Kingdom
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666. "Thin Oxide Films and the "Physics" of Catalysis: The Expected and the Unexpected"  
Festkolloquium, 60. Geburtstag von Prof. Bernhard Dick, Universität Regensburg  
17.01.2014, Regensburg, Germany
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667. "Model Catalyst Studies: From Supports to supported Nanoparticles"  
Seminar, Department of Chemical Engineering, Carnegie Mellon University  
23.01.2014, Pittsburgh, USA
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668. "Model Catalyst Design: A Materials Science Perspective at the Atomic Level"  
47. Jahrestreffen Deutscher Katalytiker  
12.03.-14.03.2014, Weimar, Germany
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669. "Structure and Spectroscopy of Clean and Modified CeO<sub>2</sub>(111) surfaces"  
ACS National Meeting and Exposition, Symposium "Thermodynamics, Reactivity, and Spectroscopy of the Heavy Elements"  
16.03.-20.03.2014, Dallas, USA
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670. "Metal and Oxide Nanoparticles on Thin Oxide Film Supports"  
ACS National Meeting and Exposition, Symposium "Clusters in Catalysis"  
16.03.-20.03.2014, Dallas, USA
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671. "Influence of Buried Dopants on Surface Chemistry"  
ACS National Meeting and Exposition, Symposium "Surface and Catalytic Reaction for Energy Efficiency"  
16.03.-20.03.2014, Dallas, USA
- 
672. "From Supported Nanoparticles on Thin Oxide Films to Thin Glass and Thin Zeolites"  
ACS National Meeting and Exposition, Symposium in Honor of Prof. Ted Oyama  
16.03.-20.03.2014, Dallas, USA
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673. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
The Richard B. Bernstein Lectures, Department of Chemistry, University of Wisconsin-Madison, Chicago, IL, USA 24.03.-25.03.2014, Madison, USA
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674. "Thin Oxide Films and the "Physics" of Catalysis"  
The Richard B. Bernstein Lectures, Department of Chemistry, University of Wisconsin-Madison, Chicago, IL, USA 24.03.-25.03.2014, Madison, USA
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675. "Spectroscopic Techniques in Surface Science"  
Lecture, Centro Brasileiro de Pesquisas Físicas (CBPF)  
22.04.2014, Rio de Janeiro, Brazil
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676. "Model Systems in Heterogeneous Catalysis at the Atomic Level"  
Colloquium, Centro Brasileiro de Pesquisas Físicas (CBPF)  
24.04.2014, Rio de Janeiro, Brazil
- 
677. "Thin Oxide Films and the "Physics" of Catalysis"  
Colloquium, COPPE UFRJ  
25.04.2014, Rio de Janeiro, Brazil
- 
678. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
Symposium "Functional Interfaces in Catalysis and Nanotechnology", Institut de Science et d'Ingénierie Supramoléculaires (ISIS)  
12.05.2014, Strasbourg, France
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679. "Model Catalyst Design: an approach at the atomic level"  
Centennial Shell Catalysis Conference 2014  
20.-22.05.2014, Amsterdam, The Netherlands
- 
680. "A Fresh Look at an Old Nano-Technology: Catalysis"  
113th General Assembly of the German Bunsen Society for Physical Chemistry  
29.05.-31.05.2014, Hamburg, Germany
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681. "Two dimensional silica: from crystal to glass"  
ISOS XVII Berlin 2014, The 17th International Symposium on Silicon Chemistry  
03.08.-08.08.2014, Berlin, Germany
- 
682. "Thin Oxide Films and the "Physics" of Catalysis"  
ECOSS-30, 30th European Conference on Surface Science  
31.08.-05.09.2014, Antalya, Turkey
- 
683. "Silica thin films: from crystal to glass in two dimensions"  
13th European Vacuum Conference  
08.09.-12.09.2014, Aveiro, Portugal
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684. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
25th anniversary of the Debye Institute for Nanomaterials Science  
17.10.2014, Utrecht, The Netherlands
- 
685. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"  
Inaugural Lecture, Chemical Section, Hungarian Academy of Sciences  
21.10.2014, Budapest, Hungary
- 
686. "Model Catalandyst Design: A Material Science Perspective at the Atomic Level"  
CRC-SU Joint International Symposium on Chemical Theory for Complex Systems, Catalysis Research Center, Hokkaido University and Stockholm University  
30.10.-31.10.2014, Stockholm, Sweden
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687. "Model catalysts: almost 20 years of fruitful exchange between theory and experiment"  
Materials Science: Theory and Practice, Symposium in Honor of the 60th Birthday of Francesc Illas and Gianfranco Pacchioni  
14.11.2014, Barcelona, Spain
- 
688. "Thin Oxide Films and the "Physics" of Catalysis"  
Nanoscience Days of the University of Jyväskylä  
20.11.-21.11.2014, Jyväskylä, Finland
- 
689. "Model Systems in Catalysis for Energy Economy"  
3rd International Symposium on Chemistry for Energy Conversion and Storage (ChemEner2015)  
18.01.-21.01.2015, Berlin, Germany
- 
690. "Modellstudien an Heterogen-Katalysator-Systemen auf atomarem Niveau"  
10. LeLa-Jahrestagung „MINT in Schülerlaboren“  
09.03.2015, Berlin, Germany
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691. "Model catalyst design: a material science perspective at the atomic level"  
249th ACS National Meeting and Exposition, Symposium "Surface Chemistry and Catalysis on Oxides"  
22.03.-26.03.2015, Denver, USA
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692. "Silica thin films: from crystals to glass in two dimensions"  
249th ACS National Meeting and Exposition, Symposium in honor of Don Truhlar  
22.03.-26.03.2015, Denver, USA
- 
693. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"  
Interdisciplinary Surface Science Conference (ISSC-20)  
30.03.-02.04.2015, Birmingham, United Kingdom
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694. "Model Catalyst Support Design: Oxide Surfaces at the Atomic Level"  
CECAM Workshop "Emergent structural and electronic phenomena at interfaces of nanoscale oxides"  
08.-10.04.2015, Lausanne, Switzerland
- 
695. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
International FOXSI Workshop  
11.-13.05.2015, Vienna, Austria
- 
696. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
24th North American Meeting (NAM) of the Catalysis Society  
14.-19.06.2015, Pittsburgh, USA
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697. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
Theory and Practice of Catalysis Workshop  
06.-10.07.2015, Telluride, USA
- 
698. "Structure and spectroscopy of clean and modified ceria surfaces"  
250th ACS National Meeting and Exposition, Symposium "Advances in Ceria Based Catalysis: Structural, Electronic and Chemical Properties Tailored for Chemical Conversion"  
16.-20.08.2015, Boston, USA
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699. "Structure-reactivity relationship in mixed metal oxides"  
250th ACS National Meeting and Exposition, Symposium "Catalysis by Mixed Oxides"  
16.-20.08.2015, Boston, USA
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700. "Metal-Insulator-Metal (MIM) structures for CO<sub>2</sub> activation"  
2015 UniCat / CCSS Joint Scientific Meeting  
24.-25.08.2015, Evanston, USA
- 
701. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
EuropaCat-XII: "Catalysis: Balancing the use of fossil and renewable resources"  
30.08.-04.09.2015, Kazan, Russia
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702. "Two dimensional silica: from crystal to glass"  
Workshop on Layered Materials  
15.-19.09.2015, Trest, Czech Republic
- 
703. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
1<sup>st</sup> International Symposium of Institute for Catalysis - Global Collaboration in Catalysis Science toward Sustainable Society, Hokkaido University,  
13.10.2015, Sapporo, Japan
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704. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
AVS 62nd International Symposium and Exhibition  
18.-23.10.2015, San Jose, USA
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705. "Model Systems in Catalysis for Energy Economy"  
10th International Symposium on Atomic Level Characterizations for New Materials and Devices '15, ALC'15  
25.-30.10.2015, Matsue, Shimane, Japan
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706. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
Seminar, Institute of Chemistry, The Hebrew University of Jerusalem  
11.11.2015, Jerusalem, Israel
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707. "Model systems in catalysis for energy economy"  
The International Chemical Congress of Pacific Basin Societies „Chemical Networking: Building Bridges Across the Pacific“ (Pacifichem)  
15.-20.12.2015, Honolulu, USA
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708. "Doped oxides and the oxide-metal interfaces: reactivity at the molecular level"  
10th International Workshop on Oxide Surface (IWOX-X)  
10.-15.01.2016, Dalian, China
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709. "Models for Heterogeneous Catalysts: Surface and Subsurface Chemistry"  
281<sup>st</sup> ZhongGuanCun Forum of the Institute of Physics and The Chinese Physical Society  
12.01.2016, Beijing, China
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710. "Adsorption: Thermodynamics and Dynamics"  
Lecture, Advanced Graduate School, Catalysis Research Center, Hokkaido University  
13.-16.01.2016, Sapporo, Japan
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711. "Surface Characterization: Electron and Optical (IR) Spectroscopy"  
Lecture, Advanced Graduate School, Catalysis Research Center, Hokkaido University  
13.-16.01.2016, Sapporo, Japan
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712. "Model Catalysts at the Atomic Level: from Structure (Geometric and Electronic) to Reactivity"  
Lecture, Advanced Graduate School, Catalysis Research Center, Hokkaido University  
13.-18.01.2016, Sapporo, Japan
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713. "Models for Heterogeneous Catalysts: Surface and Subsurface Chemistry"  
Lecture, School of Engineering, The University of Tokyo  
18.01.2016, Tokyo, Japan
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714. "Models for heterogeneous catalysts: an approach at the atomic level"  
International Conference on „Concepts in catalysis: from heterogeneous to homogeneous and enzymatic catalysts"  
25.-26.02.2016, Rome, Italy
- 
715. "Oxide surface chemistry: from single crystals to supported particles"  
Symposium Surface chemistry and catalysis of transition metal oxides, 251<sup>st</sup> American Chemical Society National Meeting & Exposition  
13.-17.03.2016, San Diego, USA
- 
716. "Metal-Insulator-Metal (MIM) structures for CO<sub>2</sub> activation"  
Symposium on Novel Materials for Energy and Fuels, 251<sup>st</sup> American Chemical Society National Meeting & Exposition  
13.-17.03.2016, San Diego, USA
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717. "Thin film oxide systems for electron transfer control"  
Symposium on Computational and Experimental Advances Towards Design of Energy Efficient Catalysts, 251<sup>st</sup> American Chemical Society National Meeting & Exposition  
13.-17.03.2016, San Diego, USA
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718. "Models for Heterogeneous Catalysts: an Approach at the Atomic Level"  
Designing New Heterogeneous Catalysis, Faraday Discussion Meeting  
04.-06.04.2016, London, United Kingdom
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719. "A Metal-Insulator-Metal Electron Shuttle for CO<sub>2</sub> Activation"  
9th Brazilian German Workshop  
10.-15.04.2016, Maresias, Brazil
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720. "Oxide surface chemistry: from single crystals to supported particles"  
Lecture, CBPF  
15.04.2016, Rio de Janeiro, Brazil
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721. "Models for Heterogeneous Catalysts: An Approach at the Atomic level"  
Lecture, Universidade de São Paulo  
20.04.2016, Sa Paulo, Brazil
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722. "Scanning Probe Investigations on Model Catalysts: Henning Neddermeyer's Legacy from our time in Bochum"  
80 Years Anniversary of Henning Neddermeyer  
07.06.2016, Halle, Germany
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723. "Model Catalysts: Characterization and Function at the Atomic Scale"  
Gordon Research Conference "Catalysis - From Theory to Commercialization"  
12.-17.06.2016, New London, USA
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724. "Oxide film based metal-insulator-metal systems to control charge transfer and chemical reactivity"  
IUVSTA Workshop "Structure of Ultra-Thin Films of Oxides on Metal Surfaces"  
27.-30.06. 2016, Avila, Spain
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725. "Oxide Surface Chemistry: From Single Crystals to Thin Films"  
Special Seminar, Department of Chemistry, University of California, Irvine  
11.08.2016, Irvine, USA
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726. "Model Systems in Catalysis at the Atomic Level: the Role of the Oxide-Metal Interface"  
Special Seminar, Department of Chemistry, University of California, Berkeley  
16.08.2016, Berkeley, USA
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727. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
Special Seminar, Department of Chemistry, University of California, Irvine  
18.08.2016, Irvine, USA
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728. "Two Dimensional Silica: From Crystal to Glass"  
Special Seminar, Department of Chemistry, University of California, Irvine  
25.08.2016, Irvine, USA
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729. "Models for Heterogeneous Catalysts: Surface and Subsurface Chemistry"  
20<sup>th</sup> International Vacuum Congress (IVC-20),  
21.-26.08.2016, Busan, Korea
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730. "The structure of oxide surfaces and its interaction with water"  
4th Ertl Symposium on Chemical Processes on Solid Surfaces: "Water at Interfaces"  
11.-13.10.2016, Berlin, Germany
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731. "Structure-reactivity relations through charge control at the atomic level in heterogeneous catalysis"  
24<sup>th</sup> Solvay Conference on Chemistry: "Catalysis in Chemistry and Biology"  
18.-22.10.2016, Brussels, Belgium
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732. "Model Systems in Heterogeneous Catalysis at the Atomic Scale"  
Hamburg Photon Science Colloquium  
04.11.2016, Hamburg, Germany
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733. "Surface science influenced by dopants"  
AVS 63<sup>rd</sup> International Symposium and Exhibition, Celebrating a Life in Surface Science: A Symposium in Honor of John T. Yates, Jr.  
06.-11.11.2016, Nashville, USA
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734. "Model Studies on Heterogeneous Catalysts at the Atomic Scale: From Supported Metal Particles to Two-dimensional Zeolites"  
GDCh Lecture  
15.11.2016, Mülheim an der Ruhr, Germany
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735. "Models for heterogeneous catalysts: an approach at the atomic level"  
Fundamental Research in Energy & Sustainability (FRESH) Colloquium  
02.02.2017, Leiden Institute of Chemistry, The Netherlands
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736. "Developing concepts for reactive surface systems at the atomic scale in the realm of catalysis"  
Gordon Research Conference "Defining the Next Generation Challenges in Surface Chemistry and Surface Science"  
05.-10.02.2017, Lucca (Barga), Italy
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737. "Iron oxide, silica and modified silica and its interaction with water"  
CRC 1109 Conference  
19.-22.02.2017, Erkner, Germany
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738. "Model Systems in Heterogeneous Catalysis at the Atomic Level"  
Annual Spring Conference of the German Physical Society (DPG)  
19.-24.03.2017, Dresden, Germany
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739. "Structure-Reactivity Relations through Charge Control at the Atomic Level in Heterogeneous Catalysis"  
Award Symposium in Honor of Prof. Cynthia Friend, 253<sup>rd</sup> ACS National Meeting & Exposition  
02.-06.04.2017, San Francisco, USA
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740. "Model Systems in Heterogeneous Catalysis at the Atomic Scale"  
Symposium "Elucidation of Mechanisms and Kinetics on Surfaces", 253<sup>rd</sup> ACS National Meeting & Exposition  
02.-06.04.2017, San Francisco, USA
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741. "Controlling Silica in its Crystalline and Amorphous States: a Problem in Surface Science"  
Presidential Symposium on "Holy Grails in Chemistry", 253<sup>rd</sup> ACS National Meeting & Exposition  
02.-06.04.2017, San Francisco, USA
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742. "Model Systems in Heterogeneous Catalysis at the Atomic Level"  
Seminar at Pacific Northwest National Laboratory  
07.04.2017, Richland, USA
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743. "Model Systems in Heterogeneous Catalysis at the Atomic Level"  
PSI Catalysis Seminar  
18.05.2017, Villingen, Switzerland
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744. "The Surface Science of Catalysis and More: Using Ultrathin Oxide Films as Templates"  
The Theory and Practice of Catalysis  
10.06.2017, Telluride, USA
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745. "Model Systems in Heterogeneous Catalysis at the Atomic Level"  
Hefei Forum of Great Minds  
27.06.2017, Hefei, China
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746. "Charge Control in Model Catalysis: The decisive role of the Oxide - Nanoparticle Interface"  
International Workshop on Nanomaterials and Nanodevices (IWNN)  
04.07.2017, Beijing, China
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747. "The Surface Science of Catalysis and More: Using Ultrathin Oxide Films as Templates"  
International Workshop on Nanomaterials and Nanodevices (IWNN)  
07.07.2017, Xi'an, China
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748. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
XXV International Materials Research Congress  
20.-25.08.2017, Cancun, Mexico
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749. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
XVI. Brazilian MRS Meeting  
10.09.2017, Gramado, Brazil
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750. "Thin Oxide Films as Templates in Catalysis"  
Workshop Surface Science Rio (WS2Rio)  
06.11.2017, Rio de Janeiro, Brazil
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751. "The Surface Science of Catalysis and More, Using Ultrathin Oxide Films as Templates: A Perspective"  
11<sup>th</sup> International Symposium on Atomic Level Characterizations for New Materials and Devices '17 (ALC'17)  
03.12.2017, Hawaii, USA
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752. "Can single crystal model catalyst tell us about real powder catalysts?"  
Workshop on Surface Science and Catalysis  
23.01.2018, Hefei, China
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753. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
International Conference on Catalysis and Surface Chemistry  
18.-23.03.2018, Kraków, Poland
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754. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
Seminar, Institute of Physics  
24.04.2018, Prague, Czech Republic
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755. "Engineering Surfaces at the Atomic Level"  
43<sup>rd</sup> David M. Mason Lectures  
07.05.2018, Stanford, USA
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756. "Model Systems in Heterogeneous Catalysis: Towards designing and understanding of structure and electronic properties"  
Designing Nanoparticle Systems for Catalysis, Faraday Discussion Meeting  
16.-18.05.2018, London, United Kingdom
- 
757. "Adsorption on Oxide Surfaces and Supported Metal Particles"  
Summer School, 6<sup>th</sup> San Luis Conference on Surfaces, Interfaces and Catalysis  
02.-05.06.2018, Santa Fe, Argentina
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758. "Development of Instrumentation for, and Novel Concepts in Model Catalysis"  
6<sup>th</sup> San Luis Conference on Surfaces, Interfaces and Catalysis  
05.-08.06.2018, Santa Fe, Argentina
- 
759. "Models for Heterogeneous Catalysts: Complex Materials at the Atomic Level"  
Lecture at Institute of Physics, University of Graz  
19.06.2018, Graz, Austria
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760. "The structure of oxide surfaces and its interaction with water"  
17th International Conference on Theoretical Aspects of Catalysis, ICTAC  
24.-28.06.2018, Los Angeles, USA
- 
761. "Can single crystal model catalyst based on thin oxide films tell us about real powder catalysts?"  
IUVSTA-ASEVA Workshop "Physics and Chemistry of Nanoscale Oxide Systems"  
01.-06.07.2018, Avila, Spain
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762. "Surface chemical reactions on top and below oxide films: chemistry in open and confined space"  
International Symposium on Relations between Homogeneous and Heterogeneous Catalysis, ISHHC18  
22.-25.07.2018, Sydney, Australia
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763. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
2018 International Symposium on Advancement and Prospect of Catalysis Science & Technology  
25.-27.07.2018, Sydney, Australia
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764. "Thin Films as model materials in catalysis: A perspective at the atomic level"  
256<sup>th</sup> ACS Meeting, Session: "New Vistas in Heterogeneous Catalysis: Symposium in Honor of Robert Grasselli"  
19.-23.08.2018, Boston, USA
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765. "Model catalysts at the atomic level studied by advanced experimental techniques in surface science"  
Lecture, International Computational Spectroscopy School  
09.-15.09.2018, Como, Italy
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766. "Instrumentation development and novel concepts in model catalysis"  
German-Brazilian Workshop  
23.-28.09.2018, Bad Dürkheim, Germany
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767. "Models for heterogeneous catalysts: complex materials at the atomic level"  
ACSIN-14 & ICSPM26  
21.-25. 10.2018, Sendai, Japan
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768. "Model Systems in Heterogeneous Catalysts at the Atomic Level"  
FHI-JST Joint Symposium "Current Topics and Challenges for Innovative Catalysts"  
31.10.-02.11.2018, Berlin, Germany
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769. "Model Catalyst Design: A Materials Science Perspective at the Atomic Level"  
Max-Planck/FAPESP Frontiers of Science Symposium  
26.-28.11.2018, Sao Paulo, Brazil
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770. "Model Systems in Heterogeneous Catalysis: Surface Chemistry of Complex Systems at the Atomic Level"  
10<sup>th</sup> Singapore International Chemical Conference (SICC-10)  
16.-19.12.2018, Singapore, Republic of Singapore
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771. "Model Catalysts Design: A Material Science Perspective at the Atomic Level"  
Cardiff Catalysis Institute Conference  
15.-16.01.2019, Cardiff, United Kingdom
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772. "40 Years of Surface Science – an overview"  
Symposium "40 Years of Surface Science"  
07.02.2019, Erlangen, Germany
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773. "Models for heterogeneous catalysts: complex materials at the atomic level"  
ACS Award in Surface Chemistry: Symposium in Honor of Hajo Freund, ACS National Meeting and Exposition  
31.03.-04.04.2019, Orlando, USA
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774. "Models for strong metal support interaction (SMSI): from Structure (Geometric and Electronic) to Reactivity"  
ACS National Meeting and Exposition, Ipatieff Prize: Symposium in Honor of Ive Hermans  
31.03.-04.04.2019, Orlando, USA
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775. "Oxide surfaces and its interaction with water"  
ACS National Meeting and Exposition, Symposium Catalytic Chemistry over Metal Oxides  
31.03.-04.04.2019, Orlando, USA
- 
776. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
Seminar on Chemical Bond Activation, Carl von Ossietzky Universität Oldenburg  
02.05.2019, Oldenburg, Germany
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777. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
CAS Distinguished International Professorship  
06.-09.05.2019, Hefei University, China
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778. "Surface Action Spectroscopy with Inert Gas Messenger Atoms"  
CAS Distinguished International Professorship  
06.-09.05.2019, Hefei Synchrotron, China
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779. "Can single crystal model catalyst based on thin oxide films tell us about real powder catalysts?"  
CAS Distinguished International Professorship  
10.-13.05.2019, Suzhou, China
- 
780. "Can Single Crystal Model Catalysts tell us something about Powder Catalysts?"  
CAS Distinguished International Professorship  
13.-17.05.2019, Dalian, China
- 
781. "Can Single Crystal Model Catalysts tell us something about Powder Catalysts?"  
CAS Distinguished International Professorship  
17.-18.05.2019, Beijing, China
- 
782. "Models for heterogeneous catalysts: complex materials at the atomic level"  
Irsee VIII, Kloster Irsee  
23.-26.05.2019, Irsee, Germany
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783. "Model Systems for heterogeneous catalysts in confined space at the atomic scale"  
26th meeting of the North American Catalysis Society, NAM 26  
23.-28.06.2019, Chicago, USA
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784. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
21. IVC Conference  
01.-05.07.2019, Malmö, Sweden
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785. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
Colloquium, TU Clausthal  
17.07.2019, Clausthal-Zellerfeld
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786. "Interaction of H<sub>2</sub> and CO<sub>2</sub> with ceria surfaces: adsorption and absorption"  
ACS National Meeting and Exposition, Symposium "Advances in catalysis with ceria and other reducible oxides",  
25.-29.08.2019, San Diego, USA
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787. "Reactions in confined space: can surface science contribute?"  
ACS National Meeting and Exposition, Symposium in Honor of Charles T. Campbell,  
25.-29.08.2019, San Diego, USA
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788. "From crystals to glasses at the atomic level in real space"  
ACS National Meeting and Exposition, Symposium in Honor of Francisco Zaera  
25.-29.08.2019, San Diego, USA
- 
789. "Can single crystal model catalyst based on thin oxide films tell us about real powder catalysts?"  
Visit to Procter & Gamble  
30.08.2019, Cincinnati, USA
- 
790. "Ice and Glass"  
Symposium "Surface and Interface Science: From Vacuum to Operando"  
13.09.2019, Lawrence Berkeley National Laboratory, Berkeley, USA
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791. "Model Systems for Heterogeneous Catalysts at the Atomic Level"  
ICDC All-hands Meeting  
07.10.2019, Department of Chemistry, University of Minnesota, Minneapolis, USA
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792. "Ultrathin silica and germania films and how this connects to catalysis!"  
ALC'19, 12th International Symposium on Atomic Level Characterizations for New Materials and Devices '19  
20.-25.10.2019, Kyoto, Japan
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793. "Model Systems in Heterogeneous Catalysis at the Atomic Level"  
Okazaki Conference 2019: Forefront of Measurement Technologies for Surface Chemistry and Physics in Real-Space, k-Space, and Real-Time  
02.-04.12.2019, Okazaki, Japan
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794. "Experimental Modelling of Catalyst Materials at the Atomic Scale"  
Materials Research Meeting 2019  
10.-14.12.2019, Yokohama, Japan
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795. "Hydrogen on and in ceria and hydrogenation of unsaturated hydrocarbons"  
1st International Symposium "Hydrogenomics" combined with 14<sup>th</sup> International Symposium Hydrogen & Energy  
05.-10.01.2020, Sapporo, Japan
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796. "Model Systems for Heterogeneous Catalysts at the Atomic Scale"  
Invited Talk, Leibniz-Institut für Kristallzüchtung im Forschungsverbund Berlin e.V.  
21.02.2020, Berlin, Germany
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797. "Model Systems for Heterogeneous Catalysts at the Atomic Scale"  
Webinar, Koc University  
19.06.2020, Istanbul, Turkey
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798. "Experimental Modelling of Catalyst Materials at the Atomic Level"  
Webinar, University of Central Florida  
30.06.2020, Orlando, USA
- 
799. "Hydrogen on and in ceria and hydrogenation of unsaturated hydrocarbons"  
ACS Fall National Meeting & Expo 2020, George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Online Symposium in honor of Harold Kung  
17.08.2020, San Francisco, USA
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800. "Model Systems for Heterogeneous Catalysts at the Atomic Scale"  
The 4<sup>th</sup> Symposium for The Core Research Cluster for Materials Science  
and the 3<sup>rd</sup> Symposium on International Joint Graduate Program in Materials Science  
"Create New Value of Materials Science through Broad Collaboration"  
Online Symposium of the Tohoku University  
16.-18.11.2020, Miyagi, Japan
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801. "From Crystals to Glasses in Real Space at the Atomic Level"  
2021 Taiwan-AVS symposium (Virtual Meeting)  
29.01.2021, Taiwan
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802. "Surface Action Spectroscopy with Inert Gas Messenger Atoms"  
Interdisciplinary Surface Science Conference (ISSC-23) (Virtual Meeting)  
19.-21.04.2021, London, United Kingdom
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803. "Model Systems in Catalysis at the atomic scale"  
Online Lecture, Wuhan University of Technology  
27.07.2021, Wuhan, China
- 
804. "Surface action spectroscopy with inert gas messenger atoms" (Online)  
262<sup>nd</sup> ACS National Meeting and Exposition, 2020 Award for Exceptional Achievements in  
Catalysis: Charlie Campbell  
23.08.2021, Atlanta, USA
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