

# Hans-Peter Steinrück

## List of Publications by Year in descending order

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422  
papers

19,914  
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10389

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17592

121  
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445  
all docs

445  
docs citations

445  
times ranked

17881  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Synthesis of Nanostructured Ni <sub>5</sub> P <sub>4</sub> Films and their Use as a Non-Noble Bifunctional Electrocatalyst for Full Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12361-12365.	13.8	751
2	Liquid Organic Hydrogen Carriers (LOHCs): Toward a Hydrogen-free Hydrogen Economy. <i>Accounts of Chemical Research</i> , 2017, 50, 74-85.	15.6	698
3	Covalent bulk functionalization of graphene. <i>Nature Chemistry</i> , 2011, 3, 279-286.	13.6	596
4	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017, 358, 1192-1197.	12.6	554
5	Wet Chemical Synthesis of Graphene. <i>Advanced Materials</i> , 2013, 25, 3583-3587.	21.0	453
6	Ionic Liquids in Catalysis. <i>Catalysis Letters</i> , 2015, 145, 380-397.	2.6	313
7	Towards a Molecular Understanding of Cation-Anion Interactions: Probing the Electronic Structure of Imidazolium Ionic Liquids by NMR Spectroscopy, X-ray Photoelectron Spectroscopy and Theoretical Calculations. <i>Chemistry - A European Journal</i> , 2010, 16, 9018-9033.	3.3	264
8	Photoelectron Spectroscopy of Ionic Liquid-Based Interfaces. <i>Chemical Reviews</i> , 2010, 110, 5158-5190.	47.7	261
9	Gallium-rich Pd-Ga phases as supported liquid metal catalysts. <i>Nature Chemistry</i> , 2017, 9, 862-867.	13.6	234
10	Nanoporous Au: An Unsupported Pure Gold Catalyst?. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5593-5600.	3.1	232
11	Direct Synthesis of a Metalloporphyrin Complex on a Surface. <i>Journal of the American Chemical Society</i> , 2006, 128, 5644-5645.	13.7	228
12	Thermal stability of Pt films on TiO <sub>2</sub> (110): evidence for encapsulation. <i>Surface Science</i> , 1995, 339, 83-95.	1.9	219
13	Density and Surface Tension of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 17025-17036.	2.6	218
14	The Surface Trans Effect: Influence of Axial Ligands on the Surface Chemical Bonds of Adsorbed Metalloporphyrins. <i>Journal of the American Chemical Society</i> , 2011, 133, 6206-6222.	13.7	206
15	Coordination and Metalation Bifunctionality of Cu with 5,10,15,20-Tetra(4-pyridyl)porphyrin: Toward a Mixed-Valence Two-Dimensional Coordination Network. <i>Journal of the American Chemical Society</i> , 2012, 134, 6401-6408.	13.7	199
16	Interaction of Cobalt(II) Tetraarylporphyrins with a Ag(111) Surface Studied with Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3090-3098.	3.1	188
17	Liquid/Solid Interface of Ultrathin Ionic Liquid Films: [C <sub>8</sub> Im][Tf <sub>2</sub> N] and [C <sub>8</sub> Im][Tf <sub>2</sub> N] on Au(111). <i>Langmuir</i> , 2011, 27, 3662-3671.	3.5	186
18	Surface Science and Model Catalysis with Ionic Liquid-Modified Materials. <i>Advanced Materials</i> , 2011, 23, 2571-2587.	21.0	181

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19	Influence of Different Substituents on the Surface Composition of Ionic Liquids Studied Using ARXPS. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2854-2864.	2.6	177
20	Influence of Different Anions on the Surface Composition of Ionic Liquids Studied Using ARXPS. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8682-8688.	2.6	176
21	Principle and Mechanism of Direct Porphyrin Metalation: Joint Experimental and Theoretical Investigation. <i>Journal of the American Chemical Society</i> , 2007, 129, 9476-9483.	13.7	167
22	Graphene on Ni(111): Coexistence of Different Surface Structures. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 759-764.	4.6	158
23	Ultrathin films of Pt on TiO <sub>2</sub> (110): Growth and chemisorption-induced surfactant effects. <i>Physical Review B</i> , 1995, 51, 2427-2439.	3.2	148
24	Coordination of Iron Atoms by Tetraphenylporphyrin Monolayers and Multilayers on Ag(111) and Formation of Iron-Tetraphenylporphyrin. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15458-15465.	3.1	147
25	Insights into the surface composition and enrichment effects of ionic liquids and ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1905.	2.8	143
26	Physical Vapor Deposition of [EMIM][Tf <sub>2</sub> N]: A New Approach to the Modification of Surface Properties with Ultrathin Ionic Liquid Films. <i>ChemPhysChem</i> , 2008, 9, 2185-2190.	2.1	140
27	NO-Induced Reversible Switching of the Electronic Interaction between a Porphyrin-Coordinated Cobalt Ion and a Silver Surface. <i>Journal of the American Chemical Society</i> , 2007, 129, 12110-12111.	13.7	137
28	Effects of Support and Rh Additive on Co-Based Catalysts in the Ethanol Steam Reforming Reaction. <i>ACS Catalysis</i> , 2014, 4, 1205-1218.	11.2	130
29	Direct Metalation of a Phthalocyanine Monolayer on Ag(111) with Coadsorbed Iron Atoms. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6087-6092.	3.1	128
30	Surface Characterization of Functionalized Imidazolium-Based Ionic Liquids. <i>Langmuir</i> , 2008, 24, 9500-9507.	3.5	126
31	Methane Activation by Platinum: Critical Role of Edge and Corner Sites of Metal Nanoparticles. <i>Chemistry - A European Journal</i> , 2010, 16, 6530-6539.	3.3	126
32	Electronic structure of benzene adsorbed on single-domain Si(001)-(2 $\times$ 1): A combined experimental and theoretical study. <i>Journal of Chemical Physics</i> , 1998, 108, 5554-5564.	3.0	125
33	Excitation, deexcitation, and fragmentation in the core region of condensed and adsorbed water. <i>Journal of Chemical Physics</i> , 1990, 93, 58-75.	3.0	121
34	Recent developments in the study of ionic liquid interfaces using X-ray photoelectron spectroscopy and potential future directions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5010.	2.8	120
35	Photoinduced degradation of methylammonium lead triiodide perovskite semiconductors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15896-15903.	10.3	119
36	Surface Enrichment and Depletion Effects of Ions Dissolved in an Ionic Liquid: An X-ray Photoelectron Spectroscopy Study. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7778-7780.	13.8	117

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37	Toward Ionic-Liquid-Based Model Catalysis: Growth, Orientation, Conformation, and Interaction Mechanism of the [Tf <sub>2</sub> N] <sup>+</sup> Anion in [BMIM][Tf <sub>2</sub> N] Thin Films on a Well-Ordered Alumina Surface. <i>Langmuir</i> , 2010, 26, 7199-7207.	3.5	116
38	The adsorption of benzene mono- and multilayers on Ni(111) studied by TPD and LEED. <i>Surface Science</i> , 1989, 218, 293-316.	1.9	113
39	Kinetic parameters of CO adsorbed on Pt(111) studied by in situ high resolution x-ray photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2002, 117, 10852-10859.	3.0	113
40	Growth and electronic structure of boron-doped graphene. <i>Physical Review B</i> , 2013, 87, .	3.2	113
41	Determination of adsorption sites of pure and coadsorbed CO on Ni(111) by high resolution X-ray photoelectron spectroscopy. <i>Surface Science</i> , 1998, 398, 154-171.	1.9	109
42	Carbon Dioxide Capture by an Amine Functionalized Ionic Liquid: Fundamental Differences of Surface and Bulk Behavior. <i>Journal of the American Chemical Society</i> , 2014, 136, 436-441.	13.7	109
43	Model Catalytic Studies of Liquid Organic Hydrogen Carriers: Dehydrogenation and Decomposition Mechanisms of Dodecahydro- <i>N</i> -ethylcarbazole on Pt(111). <i>ACS Catalysis</i> , 2014, 4, 657-665.	11.2	106
44	Near ambient pressure XPS investigation of the interaction of ethanol with Co/CeO <sub>2</sub> (111). <i>Journal of Catalysis</i> , 2013, 307, 132-139.	6.2	105
45	Precursors and trapping in the molecular chemisorption of CO on Ni(100). <i>Surface Science</i> , 1987, 180, 47-76.	1.9	102
46	Ordering aspects and intramolecular conformation of tetraphenylporphyrins on Ag(111). <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13082.	2.8	102
47	Surface Studies on the Ionic Liquid 1-Ethyl-3-Methylimidazolium Ethylsulfate Using X-Ray Photoelectron Spectroscopy (XPS). <i>Zeitschrift Fur Physikalische Chemie</i> , 2006, 220, 1439-1453.	2.8	101
48	Adsorption and desorption of CO on Pt(111): a comprehensive analysis. <i>Surface Science</i> , 2003, 545, 47-69.	1.9	99
49	New setup for in situ x-ray photoelectron spectroscopy from ultrahigh vacuum to 1mbar. <i>Review of Scientific Instruments</i> , 2005, 76, 014102.	1.3	98
50	Core excitation, decay, and fragmentation in solid benzene as studied by x-ray absorption, resonant Auger, and photon stimulated desorption. <i>Journal of Chemical Physics</i> , 1992, 96, 1724-1734.	3.0	97
51	The dynamics of the dissociative adsorption of alkanes on Ir(110). <i>Journal of Chemical Physics</i> , 1987, 86, 6506-6514.	3.0	96
52	Microscopic models of PdZn alloy catalysts: structure and reactivity in methanol decomposition. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3470-3482.	2.8	96
53	Production of Nitrogen-Doped Graphene by Low-Energy Nitrogen Implantation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5062-5066.	3.1	96
54	Electronic properties of thin Zn layers on Pd(111) during growth and alloying. <i>Surface Science</i> , 2006, 600, 78-94.	1.9	95

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55	Tetraphenylporphyrin picks up zinc atoms from a silver surface. <i>Chemical Communications</i> , 2007, , 568-570.	4.1	95
56	Microscopic Evidence of the Metalation of a Free-Base Porphyrin Monolayer with Iron. <i>ChemPhysChem</i> , 2007, 8, 241-243.	2.1	95
57	A new asymmetric PseudoVoigt function for more efficient fitting of XPS lines. <i>Surface and Interface Analysis</i> , 2014, 46, 505-511.	1.8	95
58	ElectronBeamInduced Deposition in Ultrahigh Vacuum: Lithographic Fabrication of Clean Iron Nanostructures. <i>Small</i> , 2008, 4, 841-846.	10.0	94
59	The electronic structure and molecular symmetry of pure benzene and benzene coadsorbed with CO on Ni(111). <i>Surface Science</i> , 1989, 217, 103-126.	1.9	93
60	IN-SITU CORE-LEVEL PHOTOELECTRON SPECTROSCOPY OF ADSORBATES ON SURFACES INVOLVING A MOLECULAR BEAM GENERAL SETUP AND FIRST EXPERIMENTS. <i>Surface Review and Letters</i> , 2002, 09, 797-801.	1.1	92
61	In situ high-resolution X-ray photoelectron spectroscopy Fundamental insights in surface reactions. <i>Surface Science Reports</i> , 2013, 68, 446-487.	7.2	90
62	Dehydrogenation of DodecahydroN-ethylcarbazole on Pd/Al <sub>2</sub> O <sub>3</sub> Model Catalysts. <i>Chemistry - A European Journal</i> , 2011, 17, 11542-11552.	3.3	89
63	Interfaces of ionic liquids and transition metal surfaces adsorption, growth, and thermal reactions of ultrathin [C1C1Im][Tf2N] films on metallic and oxidised Ni(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5153.	2.8	87
64	The sticking coefficient of H <sub>2</sub> on Ni(111) as a function of particle energy and angle of incidence: A test of detailed balancing. <i>Surface Science</i> , 1985, 154, 99-108.	1.9	86
65	Combined Photoemission and Scanning Tunneling Microscopy Study of the Surface-Assisted Ullmann Coupling Reaction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6820-6830.	3.1	84
66	At the ionic liquid   metal interface: structure formation and temperature dependent behavior of an ionic liquid adlayer on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17295.	2.8	82
67	Dehydrogenation Mechanism of Liquid Organic Hydrogen Carriers: DodecahydroN-ethylcarbazole on Pd(111). <i>Chemistry - A European Journal</i> , 2013, 19, 10854-10865.	3.3	79
68	A molecular beam study of the adsorption dynamics of CO on Ru(0001), Cu(111) and a pseudomorphic Cu monolayer on Ru(0001). <i>Surface Science</i> , 1999, 440, 307-320.	1.9	78
69	Ionic liquid based model catalysis: interaction of [BMIM][Tf2N] with Pd nanoparticles supported on an ordered alumina film. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10610.	2.8	77
70	Growth and electronic structure of nitrogen-doped graphene on Ni(111). <i>Physical Review B</i> , 2012, 86, .	3.2	77
71	Adsorption probabilities of H <sub>2</sub> and D <sub>2</sub> on various flat and stepped nickel surfaces. <i>Physical Review B</i> , 1985, 32, 5032-5037.	3.2	76
72	In situ high-resolution XPS studies on adsorption of NO on Pt(111). <i>Surface Science</i> , 2003, 529, 384-396.	1.9	76

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73	Highly Effective Propane Dehydrogenation Using Ga–Rh Supported Catalytically Active Liquid Metal Solutions. <i>ACS Catalysis</i> , 2019, 9, 9499-9507.	11.2	76
74	Diffusion, Rotation, and Surface Chemical Bond of Individual 2-H-Tetraphenylporphyrin Molecules on Cu(111). <i>Journal of Physical Chemistry C</i> , 2011, 115, 24172-24177.	3.1	74
75	Adsorption of cobalt (II) octaethylporphyrin and 2H-octaethylporphyrin on Ag(111): new insight into the surface coordinative bond. <i>New Journal of Physics</i> , 2009, 11, 125004.	2.9	73
76	Dehydrogenation of Dodecahydro-1,5-naphthalene-2-ethylcarbazole on Pt(111). <i>ChemSusChem</i> , 2013, 6, 974-977.	6.8	73
77	The role of surface defects in the adsorption and desorption of hydrogen on Ni(111). <i>Surface Science</i> , 1987, 185, 469-478.	1.9	71
78	Electrons as “Invisible Ink”: Fabrication of Nanostructures by Local Electron Beam Induced Activation of SiO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4669-4673.	13.8	71
79	The electronic structure of cobalt(II) phthalocyanine adsorbed on Ag(111). <i>Surface Science</i> , 2012, 606, 945-949.	1.9	70
80	Size and Structure Effects Controlling the Stability of the Liquid Organic Hydrogen Carrier Dodecahydro-1,5-naphthalene-2-ethylcarbazole during Dehydrogenation over Pt Model Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1498-1504.	4.6	69
81	The adsorption of H <sub>2</sub> O on clean and oxygen precovered Ni(111) studied by ARUPS and TPD. <i>Surface Science</i> , 1989, 224, 195-214.	1.9	68
82	Temperature-Dependent Chemical and Structural Transformations from 2H-tetraphenylporphyrin to Copper(II)-Tetraphenylporphyrin on Cu(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 12275-12282.	3.1	68
83	Activation Energy for the Self-Metalation Reaction of 2H-Tetraphenylporphyrin on Cu(111). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10898-10901.	13.8	68
84	Dissociation and oxidation of methanol on Cu(). <i>Surface Science</i> , 2002, 507-510, 845-850.	1.9	67
85	Activated adsorption of methane on Pt(111) – an in situ XPS study. <i>New Journal of Physics</i> , 2005, 7, 107-107.	2.9	67
86	Low-temperature partial dissociation of water on Cu(110). <i>Chemical Physics Letters</i> , 2003, 377, 163-169.	2.6	66
87	Surface science goes liquid!. <i>Surface Science</i> , 2010, 604, 481-484.	1.9	66
88	Heterogeneous Gold Catalysts for Efficient Access to Functionalized Lactones. <i>Chemistry - A European Journal</i> , 2008, 14, 9412-9418.	3.3	65
89	Surface-Confining Two-Step Synthesis of the Complex (Ammine)(meso-tetraphenylporphyrinato)-zinc(II) on Ag(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 5821-5824.	3.1	64
90	Industrially scalable and cost-effective Mn <sup>2+</sup> doped Zn <sub>x</sub> Cd <sub>1-x</sub> S/ZnS nanocrystals with 70% photoluminescence quantum yield, as efficient down-shifting materials in photovoltaics. <i>Energy and Environmental Science</i> , 2016, 9, 1083-1094.	30.8	63

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91	Understanding the Contrast Mechanism in Scanning Tunneling Microscopy (STM) Images of an Intermixed Tetraphenylporphyrin Layer on Ag(111). <i>Langmuir</i> , 2008, 24, 1897-1901.	3.5	62
92	Electronic structure and orientation of NO on Ni(111) studied by arups using synchrotron radiation. <i>Surface Science</i> , 1989, 208, 136-154.	1.9	61
93	Band structure of BeTe: A combined experimental and theoretical study. <i>Physical Review B</i> , 1998, 58, 10394-10400.	3.2	61
94	Chemical Fingerprints of Large Organic Molecules in Scanning Tunneling Microscopy: Imaging Adsorbate-Substrate Coupling of Metalloporphyrins. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16450-16457.	3.1	61
95	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019, 10, 509.	12.8	61
96	Interfacial Behavior of Thin Ionic Liquid Films on Mica. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5101-5111.	3.1	60
97	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5763-5768.	13.8	60
98	Azimuthal reorientation of adsorbed molecules induced by lateral interactions: benzene/Ni(110). <i>Surface Science</i> , 1991, 253, 72-98.	1.9	59
99	Lateral interactions and azimuthal orientation of pure and coadsorbed benzene layers on Ni(111). <i>Surface Science</i> , 1991, 258, 16-22.	1.9	59
100	Interfacial coordination interactions studied on cobalt octaethylporphyrin and cobalt tetraphenylporphyrin monolayers on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4336.	2.8	59
101	Microscopic Insights into Methane Activation and Related Processes on Pt/Ceria Model Catalysts. <i>ChemPhysChem</i> , 2010, 11, 1496-1504.	2.1	58
102	Growth and oxidation of graphene on Rh(111). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19625.	2.8	57
103	Reversible Hydrogenation of Graphene on Ni(111) – Synthesis of $\alpha$ -Graphone. <i>Chemistry - A European Journal</i> , 2015, 21, 3347-3358.	3.3	57
104	Polymorphism of Porphyrin Molecules on Ag(111) and How to Weave a Rigid Monolayer. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13531-13538.	3.1	56
105	Photochemical Energy Storage and Electrochemically Triggered Energy Release in the Norbornadiene-Quadricyclane System: UV-Photochemistry and IR Spectroelectrochemistry in a Combined Experiment. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2819-2825.	4.6	56
106	Energy Storage in Strained Organic Molecules: (Spectro)Electrochemical Characterization of Norbornadiene and Quadricyclane. <i>ChemSusChem</i> , 2016, 9, 1424-1432.	6.8	55
107	Kinetics of the CO oxidation reaction on Pt(111) studied by in situ high-resolution x-ray photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 120, 7113-7122.	3.0	54
108	Studying the dynamic behaviour of porphyrins as prototype functional molecules by scanning tunnelling microscopy close to room temperature. <i>Chemical Communications</i> , 2014, 50, 9034-9048.	4.1	54

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109	Angle-resolved photoemission studies of adsorbed hydrocarbons. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 6465-6509.	1.8	53
110	The electronic structure of ethylene on Ni(110): an experimental and theoretical study. <i>Surface Science</i> , 1992, 271, 539-554.	1.9	52
111	Probing the interaction of Rh, Co and bimetallic Rh-Co nanoparticles with the CeO <sub>2</sub> support: catalytic materials for alternative energy generation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27154-27166.	2.8	52
112	Vibrationally resolved in situ XPS study of activated adsorption of methane on Pt(111). <i>Chemical Physics Letters</i> , 2004, 390, 208-213.	2.6	51
113	A site-selective in situ study of CO adsorption and desorption on Pt(355). <i>Journal of Chemical Physics</i> , 2006, 124, 074712.	3.0	51
114	Abrupt Coverage-Induced Enhancement of the Self-Metalation of Tetraphenylporphyrin with Cu(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 1661-1667.	3.1	51
115	Substrate-Mediated Phase Separation of Two Porphyrin Derivatives on Cu(111). <i>Chemistry - A European Journal</i> , 2011, 17, 10226-10229.	3.3	50
116	Organic Reactions in Ionic Liquids Studied by in Situ XPS. <i>ChemPhysChem</i> , 2012, 13, 1725-1735.	2.1	50
117	The dissimilar twins - a comparative, site-selective in situ study of CO adsorption and desorption on Pt(322) and Pt(355). <i>Surface Science</i> , 2007, 601, 1108-1117.	1.9	48
118	Sulphur dioxide adsorption on the Ni(110) surface. <i>Surface Science</i> , 1993, 295, 295-305.	1.9	47
119	Light-Atom Location in Adsorbed Benzene by Experiment and Theory. <i>Physical Review Letters</i> , 2001, 87, 216102.	7.8	47
120	Insights in Reaction Mechanistics: Isotopic Exchange during the Metalation of Deuterated Tetraphenyl-21,23-D <sub>2</sub> -porphyrin on Cu(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 26729-26736.	3.1	47
121	Growth of Stable Surface Oxides on Pt(111) at Near-Ambient Pressures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2594-2598.	13.8	47
122	A detailed analysis of vibrational excitations in x-ray photoelectron spectra of adsorbed small hydrocarbons. <i>Journal of Chemical Physics</i> , 2006, 125, 204706.	3.0	45
123	Adsorption and thermal evolution of SO <sub>2</sub> on the Pt(110) surface. <i>Surface Science</i> , 1997, 371, 235-244.	1.9	44
124	The interaction of CO and Ar molecular beams with Ir(110). <i>Surface Science</i> , 1987, 185, 36-52.	1.9	43
125	Highly efficient dissociation of condensed and adsorbed water via core-to-bound excitation. <i>Chemical Physics Letters</i> , 1988, 148, 371-376.	2.6	43
126	Coadsorption of D <sub>2</sub> O and CO on Pt(111) Studied by in Situ High-Resolution X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2004, 20, 1819-1826.	3.5	43



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127	NO-Induced Reorganization of Porphyrin Arrays. ACS Nano, 2009, 3, 1789-1794.	14.6	43
128	Benzene coadsorbed with CO and NO on Ru(001). Surface Science, 1989, 210, 282-300.	1.9	42
129	Interfacial Interactions of Iron(II) Tetrapyrrole Complexes on Au(111). Journal of Physical Chemistry C, 2011, 115, 17028-17035.	3.1	42
130	Formation of the Calcium/Poly(3-Hexylthiophene) Interface: Structure and Energetics. Journal of the American Chemical Society, 2009, 131, 13498-13507.	13.7	41
131	Evidence for an active oxygen species on Au/TiO <sub>2</sub> (110) model catalysts during investigation with in situ X-ray photoelectron spectroscopy. Catalysis Today, 2012, 181, 20-25.	4.4	41
132	CO <sub>2</sub> activation on single crystal based ceria and magnesia/ceria model catalysts. European Physical Journal B, 2010, 75, 89-100.	1.5	40
133	On the Energetics of Conformational Switching of Molecules at and Close to Room Temperature. Journal of the American Chemical Society, 2014, 136, 1609-1616.	13.7	40
134	Chloroalkylsulfonate ionic liquids by ring opening of sultones with organic chloride salts. Chemical Communications, 2008, , 3867.	4.1	39
135	Overcoming Interfacial Losses in Solution-Processed Organic Multi-Junction Solar Cells. Advanced Energy Materials, 2017, 7, 1601959.	19.5	39
136	The adsorption of acetylene on Ni(110): An experimental and theoretical study. Journal of Chemical Physics, 1995, 102, 9709-9724.	3.0	38
137	Reactivity of Graphene-Supported Pt Nanocluster Arrays. ACS Catalysis, 2015, 5, 2397-2403.	11.2	38
138	“Inverted” porphyrins: a distorted adsorption geometry of free-base porphyrins on Cu(111). Chemical Communications, 2017, 53, 8207-8210.	4.1	38
139	The role of defects in the dissociative adsorption of CO on Ni(100). Surface Science, 1986, 172, L561-L567.	1.9	37
140	Formation of the ZnSe/(Te)/GaAs() heterojunction. Surface Science, 2003, 531, 77-85.	1.9	37
141	Generation of Clean Iron Structures by Electron-Beam-Induced Deposition and Selective Catalytic Decomposition of Iron Pentacarbonyl on Rh(110). Langmuir, 2009, 25, 11930-11939.	3.5	37
142	Influence of Substituents and Functional Groups on the Surface Composition of Ionic Liquids. Chemistry - A European Journal, 2014, 20, 3954-3965.	3.3	37
143	General and selective deoxygenation by hydrogen using a reusable earth-abundant metal catalyst. Science Advances, 2019, 5, eaav3680.	10.3	37
144	Functionalization of Oxide Surfaces through Reaction with 1,3-Dialkylimidazolium Ionic Liquids. Journal of Physical Chemistry Letters, 2013, 4, 30-35.	4.6	36

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145	Liquid Organic Hydrogen Carriers: Surface Science Studies of Carbazole Derivatives. <i>Chemical Record</i> , 2014, 14, 879-896.	5.8	36
146	Porphyrin Metalation at MgO Surfaces: A Spectroscopic and Quantum Mechanical Study on Complementary Model Systems. <i>Chemistry - A European Journal</i> , 2016, 22, 1744-1749.	3.3	36
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