Anders R Nilsson

List of Publications by Year
in descending order

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356	33,253	3933 88	4774 169
papers	citations	h-index	g-index

366	366	366	25957
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lattice-strain control of the activity in dealloyed coreâ€“shell fuel cell catalysts. Nature Chemistry, 2010, 2, 454-460.	13.6	2,489
2	Identification of Highly Active Fe Sites in (Ni,Fe)OOH for Electrocatalytic Water Splitting. Journal of the American Chemical Society, 2015, 137, 1305-1313.	13.7	2,018
3	The Structure of the First Coordination Shell in Liquid Water. Science, 2004, 304, 995-999.	12.6	1,287
4	From the Sabatier principle to a predictive theory of transition-metal heterogeneous catalysis. Journal of Catalysis, 2015, 328, 36-42.	6.2	1,271
5	Role of Water in Electron-Initiated Processes and Radical Chemistry:â€‰ Issues and Scientific Advances. Chemical Reviews, 2005, 105, 355-390.	47.7	560
6	The inhomogeneous structure of water at ambient conditions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15214-15218.	7.1	526
7	Structure and Bonding of Water on Pt(111). Physical Review Letters, 2002, 89, 276102.	7.8	512
8	High Selectivity for Ethylene from Carbon Dioxide Reduction over Copper Nanocube Electrocatalysts. Angewandte Chemie - International Edition, 2015, 54, 5179-5182.	13.8	429
9	Benchmark oxygen-oxygen pair-distribution function of ambient water from x-ray diffraction measurements with a wide Q-range. Journal of Chemical Physics, 2013, 138, 074506.	3.0	407
10	Inâ€…Situ Observation of Surface Species on Iridium Oxide Nanoparticles during the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2014, 53, 7169-7172.	13.8	386
11	Ultrafast X-ray probing of water structure below the homogeneous ice nucleation temperature. Nature, 2014, 510, 381-384.	27.8	385
12	The Nature of Water Nucleation Sites on TiO2(110) Surfaces Revealed by Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2007, 111, 8278-8282.	3.1	374
13	The structural origin of anomalous properties of liquid water. Nature Communications, 2015, 6, 8998.	12.8	373
14	The electronic structure effect in heterogeneous catalysis. Catalysis Letters, 2005, 100, 111-114.	2.6	349
15	Ambient-Pressure XPS Study of a Niâ€“Fe Electrocatalyst for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 2247-2253.	3.1	336
16	Subsurface Oxygen in Oxide-Derived Copper Electrocatalysts for Carbon Dioxide Reduction. Journal of Physical Chemistry Letters, 2017, 8, 285-290.	4.6	332
17	High resolution X-ray emission spectroscopy of liquid water: The observation of two structural motifs. Chemical Physics Letters, 2008, 460, 387-400.	2.6	328
18	Direct observation of the oxygenated species during oxygen reduction on a platinum fuel cell cathode. Nature Communications, 2013, 4, .	12.8	325

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19	Mass-selected nanoparticles of PtxY as model catalysts for oxygen electroreduction. Nature Chemistry, 2014, 6, 732-738.	13.6	298
20	Soft X-ray microscopy and spectroscopy at the molecular environmental science beamline at the Advanced Light Source. Journal of Electron Spectroscopy and Related Phenomena, 2006, 150, 86-104.	1.7	292
21	Perspective on the structure of liquid water. Chemical Physics, 2011, 389, 1-34.	1.9	289
22	Physisorbed, chemisorbed and dissociated O2 on Pt(111) studied by different core level spectroscopy methods. Surface Science, 1995, 342, 119-133.	1.9	277
23	Chemical bonding on surfaces probed by X-ray emission spectroscopy and density functional theory. Surface Science Reports, 2004, 55, 49-167.	7.2	273
24	Maxima in the thermodynamic response and correlation functions of deeply supercooled water. Science, 2017, 358, 1589-1593.	12.6	270
25	Spectroscopic probing of local hydrogen-bonding structures in liquid water. Journal of Physics Condensed Matter, 2002, 14, L213-L219.	1.8	262
26	A very high resolution electron spectrometer. Journal of Electron Spectroscopy and Related Phenomena, 1994, 70, 117-128.	1.7	250
27	Hydrogenation of Single-Walled Carbon Nanotubes. Physical Review Letters, 2005, 95, 225507.	7.8	241
28	Water Adsorption on Î±-Fe₂O₃(0001) at near Ambient Conditions. Journal of Physical Chemistry C, 2010, 114, 2256-2266.	3.1	238
29	Ï€*andÏƒ*Excitons in C1sAbsorption of Graphite. Physical Review Letters, 1995, 74, 614-617.	7.8	224
30	In situx-ray photoelectron spectroscopy studies of water on metals and oxides at ambient conditions. Journal of Physics Condensed Matter, 2008, 20, 184025.	1.8	204
31	The adsorption structure of glycine adsorbed on Cu(110); comparison with formate and. Surface Science, 1998, 407, 221-236.	1.9	200
32	Water Dissociation on Ru(001): An Activated Process. Physical Review Letters, 2004, 93, 196101.	7.8	196
33	Probing the transition state region in catalytic CO oxidation on Ru. Science, 2015, 347, 978-982.	12.6	193
34	Photoemission, autoionization, and x-ray-absorption spectroscopy of ultrathin-filmC60on Au(110). Physical Review B, 1994, 49, 10717-10725.	3.2	191
35	Determination of time scales for charge-transfer screening in physisorbed molecules. Physical Review Letters, 1992, 68, 1892-1895.	7.8	188
36	Hydrogen Storage in Carbon Nanotubes through the Formation of Stable Cå¯H Bonds. Nano Letters, 2008, 8, 162-167.	9.1	186

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37	The interpretation of X-ray absorption spectra of water and ice. Chemical Physics Letters, 2002, 364, 363-370.	2.6	182
38	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. Science, 2013, 339, 1302-1305.	12.6	179
39	X-ray and Neutron Scattering of Water. Chemical Reviews, 2016, 116, 7570-7589.	47.7	170
40	Overlayer structure from adsorbate and substrate core level binding energy shifts: CO, CCH3 and O on Pt(111). Surface Science, 1994, 315, L983-L989.	1.9	167
41	The electronic structure and surface chemistry of glycine adsorbed on Cu(110). Journal of Chemical Physics, 2000, 112, 5420-5427.	3.0	167
42	The bonding of CO to metal surfaces. Journal of Chemical Physics, 2000, 112, 1946-1958.	3.0	165
43	X-ray absorption spectroscopy and X-ray Raman scattering of water and ice; an experimental view. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 99-129.	1.7	158
44	How Carbon Monoxide Adsorbs in Different Sites. Physical Review Letters, 2000, 85, 3309-3312.	7.8	157
45	X-ray Absorption Spectroscopy Study of the Hydrogen Bond Network in the Bulk Water of Aqueous Solutions. Journal of Physical Chemistry A, 2005, 109, 5995-6002.	2.5	156
46	Diffusive dynamics during the high-to-low density transition in amorphous ice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8193-8198.	7.1	155
47	Oxidation of Pt(111) under Near-Ambient Conditions. Physical Review Letters, 2011, 107, 195502.	7.8	151
48	X-ray and Electron Spectroscopy of Water. Chemical Reviews, 2016, 116, 7551-7569.	47.7	143
49	Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. Science, 2020, 370, 978-982.	12.6	143
50	Hydroxyl-Induced Wetting of Metals by Water at Near-Ambient Conditions. Journal of Physical Chemistry C, 2007, 111, 7848-7850.	3.1	138
51	Spatially inhomogeneous bimodal inherent structure of simulated liquid water. Physical Chemistry Chemical Physics, 2011, 13, 19918.	2.8	136
52	Theoretical approximations to X-ray absorption spectroscopy of liquid water and ice. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 135-157.	1.7	132
53	Formation of Copper Catalysts for CO₂ Reduction with High Ethylene/Methane Product Ratio Investigated with In Situ X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 1466-1470.	4.6	131
54	Formation of hydroxyl and water layers on MgO films studied with ambient pressure XPS. Surface Science, 2011, 605, 89-94.	1.9	130

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55	Autocatalytic Water Dissociation on Cu(110) at Near Ambient Conditions. Journal of the American Chemical Society, 2008, 130, 2793-2797.	13.7	126
56	Waterâ€"The Most Anomalous Liquid. Chemical Reviews, 2016, 116, 7459-7462.	47.7	124
57	X-ray Absorption Spectroscopy Measurements of Liquid Water. Journal of Physical Chemistry B, 2005, 109, 13835-13839.	2.6	120
58	The Electronic States of Rhenium Bipyridyl Electrocatalysts for CO₂ Reduction as Revealed by Xâ€ray Absorption Spectroscopy and Computational Quantum Chemistry. Angewandte Chemie - International Edition, 2013, 52, 4841-4844.	13.8	119
59	Nearest-neighbor oxygen distances in liquid water and ice observed by x-ray Raman based extended x-ray absorption fine structure. Journal of Chemical Physics, 2007, 127, 174504.	3.0	118
60	Ultrafast Core-Hole-Induced Dynamics in Water Probed by X-Ray Emission Spectroscopy. Physical Review Letters, 2005, 94, 227401.	7.8	117
61	Probing the Electron Delocalization in Liquid Water and Ice at Attosecond Time Scales. Physical Review Letters, 2007, 99, 217406.	7.8	117
62	Structure and Bonding of the Waterâ^'Hydroxyl Mixed Phase on Pt(111). Journal of Physical Chemistry C, 2007, 111, 15003-15012.	3.1	117
63	Balance of Nanostructure and Bimetallic Interactions in Pt Model Fuel Cell Catalysts: In Situ XAS and DFT Study. Journal of the American Chemical Society, 2012, 134, 9664-9671.	13.7	117
64	Resonant Photoemission at the2pEdges of Ni: Resonant Raman and Interference Effects. Physical Review Letters, 1997, 78, 967-970.	7.8	114
65	The structure of water in the hydration shell of cations from x-ray Raman and small angle x-ray scattering measurements. Journal of Chemical Physics, 2011, 134, 064513.	3.0	111
66	In situ X-ray probing reveals fingerprints of surface platinum oxide. Physical Chemistry Chemical Physics, 2011, 13, 262-266.	2.8	110
67	Interlayer Carbon Bond Formation Induced by Hydrogen Adsorption in Few-Layer Supported Graphene. Physical Review Letters, 2013, 111, 085503.	7.8	110
68	An Atom-Specific Look at the Surface Chemical Bond. Physical Review Letters, 1997, 78, 2847-2850.	7.8	108
69	Electrochemical Oxidation of Size-Selected Pt Nanoparticles Studied Using in Situ High-Energy-Resolution X-ray Absorption Spectroscopy. ACS Catalysis, 2012, 2, 2371-2376.	11.2	105
70	Hydrogen bonding between adsorbed deprotonated glycine molecules on Cu(110). Journal of Chemical Physics, 2003, 119, 12577-12585.	3.0	103
71	Ambient-pressure photoelectron spectroscopy for heterogeneous catalysis and electrochemistry. Catalysis Today, 2013, 205, 101-105.	4.4	103
72	Anomalous Behavior of the Homogeneous Ice Nucleation Rate in â€œNo-Manâ€™s Landâ€. Journal of Physical Chemistry Letters, 2015, 6, 2826-2832.	4.6	102

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73	X-ray Raman spectroscopy at the oxygenKedge of water and ice:â€ƒ Implications on local structure models. Physical Review B, 2002, 66, .	3.2	101
74	High resolution X-ray emission spectroscopy of water and its assignment based on two structural motifs. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 192-205.	1.7	100
75	Câ€“H bond formation at the graphite surface studied with core level spectroscopy. Surface Science, 2008, 602, 2575-2580.	1.9	99
76	Nature and Distribution of Stable Subsurface Oxygen in Copper Electrodes During Electrochemical CO₂ Reduction. Journal of Physical Chemistry C, 2017, 121, 25003-25009.	3.1	98
77	One-Step and Two-Step Description of Deexcitation Processes in Weakly Interacting Systems. Physical Review Letters, 1996, 76, 1380-1383.	7.8	96
78	Half or full core hole in density functional theory X-ray absorption spectrum calculations of water?. Physical Chemistry Chemical Physics, 2005, 7, 2854.	2.8	96
79	On the origin of core-level binding energy shifts. Journal of Electron Spectroscopy and Related Phenomena, 1995, 75, 209-223.	1.7	94
80	Diffraction and IR/Raman data do not prove tetrahedral water. Journal of Chemical Physics, 2008, 129, 084502.	3.0	94
81	Hydrogen Spillover in Pt-Single-Walled Carbon Nanotube Composites: Formation of Stable Câˆ’H Bonds. Journal of the American Chemical Society, 2011, 133, 5580-5586.	13.7	93
82	X-ray Photoemission and Density Functional Theory Study of the Interaction of Water Vapor with the Fe₃O₄(001) Surface at Near-Ambient Conditions. Journal of Physical Chemistry C, 2013, 117, 2719-2733.	3.1	92
83	Stability and Effects of Subsurface Oxygen in Oxide-Derived Cu Catalyst for CO₂ Reduction. Journal of Physical Chemistry C, 2017, 121, 25010-25017.	3.1	92
84	Comment on "Energetics of Hydrogen Bond Network Rearrangements in Liquid Water". Science, 2005, 308, 793a-793a.	12.6	90
85	Selective Probing of the OH or OD Stretch Vibration in Liquid Water Using Resonant Inelastic Soft-X-Ray Scattering. Physical Review Letters, 2013, 111, 193001.	7.8	90
86	A Molecular Perspective on the d-Band Model: Synergy Between Experiment and Theory. Topics in Catalysis, 2014, 57, 2-13.	2.8	90
87	Multielectron excitations in high-energy photoelectron spectra of CO adsorbed on Ni(100). Physical Review B, 1989, 40, 10249-10261.	3.2	89
88	On the chemical state of Co oxide electrocatalysts during alkaline water splitting. Physical Chemistry Chemical Physics, 2013, 15, 17460.	2.8	89
89	X-ray absorption spectrum of liquid water from molecular dynamics simulations: Asymmetric model. Physical Review B, 2006, 73, .	3.2	88
90	Photoabsorption and the unoccupied partial density of states of chemisorbed molecules. Chemical Physics Letters, 1992, 197, 12-16.	2.6	87

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91	Applications of core level spectroscopy to adsorbates. Journal of Electron Spectroscopy and Related Phenomena, 2002, 126, 3-42.	1.7	87
92	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2014, 118, 29252-29259.	3.1	87
93	Fluctuations in ambient water. Journal of Molecular Liquids, 2012, 176, 2-16.	4.9	86
94	Characterization of hydrogen bond acceptor molecules at the water surface using near-edge x-ray absorption fine-structure spectroscopy and density functional theory. Journal of Physics Condensed Matter, 2002, 14, L221-L226.	1.8	85
95	Molecularly intact and dissociative adsorption of water on clean Cu(110): A comparison with the water/Ru(001) system. Surface Science, 2005, 585, L183-L189.	1.9	84
96	Increasing correlation length in bulk supercooled H2O, D2O, and NaCl solution determined from small angle x-ray scattering. Journal of Chemical Physics, 2010, 133, 134504.	3.0	84
97	Auger and photoelectron study of the HubbardUinC60,K3C60, andK6C60. Physical Review B, 1993, 48, 18296-18299.	3.2	83
98	Ab Initio van der Waals Interactions in Simulations of Water Alter Structure from Mainly Tetrahedral to High-Density-Like. Journal of Physical Chemistry B, 2011, 115, 14149-14160.	2.6	83
99	The enhanced activity of mass-selected Pt Gd nanoparticles for oxygen electroreduction. Journal of Catalysis, 2015, 328, 297-307.	6.2	83
100	Structure of water adsorbed on the open Cu(110) surface: H-up, H-down, or both?. Chemical Physics Letters, 2006, 429, 415-419.	2.6	82
101	Shake-up and shake-off structures in core level photoemission spectra from adsorbates. Journal of Electron Spectroscopy and Related Phenomena, 1993, 62, 73-93.	1.7	81
102	Photoemission study of K on graphite. Physical Review B, 1999, 59, 8292-8304.	3.2	81
103	On the Range of Water Structure Models Compatible with X-ray and Neutron Diffraction Data. Journal of Physical Chemistry B, 2009, 113, 6246-6255.	2.6	81
104	Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations. Nature Communications, 2020, 11, 6181.	12.8	80
105	Spectroscopic characterization of microscopic hydrogen-bonding disparities in supercritical water. Journal of Chemical Physics, 2005, 123, 154503.	3.0	79
106	The hydrogen bond in ice probed by soft x-ray spectroscopy and density functional theory. Journal of Chemical Physics, 2005, 122, 154505.	3.0	79
107	Electroreduction of Carbon Monoxide Over a Copper Nanocube Catalyst: Surface Structure and pH Dependence on Selectivity. ChemCatChem, 2016, 8, 1119-1124.	3.7	76
108	Vibrational motion and geometrical structure in adsorbed CO studied by core level photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1990, 54-55, 601-613.	1.7	74

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109	X-ray Absorption Spectroscopy of Liquid Methanol Microjets:Â Bulk Electronic Structure and Hydrogen Bonding Network. Journal of Physical Chemistry B, 2005, 109, 10194-10203.	2.6	74
110	Core-Level line shapes of adsorbates: effects of electronic and vibrational excitations. Journal of Electron Spectroscopy and Related Phenomena, 1990, 52, 1-46.	1.7	73
111	Ground-state interpretation of x-ray emission spectroscopy on adsorbates: CO adsorbed on Cu(100). Physical Review B, 2000, 61, 16229-16240.	3.2	72
112	Isotope effects in liquid water probed by x-ray Raman spectroscopy. Physical Review B, 2007, 76, .	3.2	72
113	Core-level binding-energy shifts during metal adsorption and compound formation: Yb/Ni(100). Physical Review B, 1988, 38, 10357-10370.	3.2	71
114	X-ray and UV photoemission studies of mono-, bi- and multilayers of physisorbed molecules: O2 and N2 on graphite. Surface Science, 1993, 295, 1-12.	1.9	71
115	Ultrafast Molecular Dissociation of Water in Ice. Physical Review Letters, 2004, 93, 148302.	7.8	71
116	Probing the hydrogen-bond network of water via time-resolved soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2009, 11, 3951.	2.8	71
117	Autocatalytic Surface Hydroxylation of MgO(100) Terrace Sites Observed under Ambient Conditions. Journal of Physical Chemistry C, 2011, 115, 12864-12872.	3.1	71
118	Different Reactivity of the Various Platinum Oxides and Chemisorbed Oxygen in CO Oxidation on Pt(111). Journal of the American Chemical Society, 2014, 136, 6340-6347.	13.7	71
119	Orientation of a molecular precursor: a NEXAFS study of O2/Ag(110). Surface Science, 1992, 278, 239-245.	1.9	70
120	A different view of structure-making and structure-breaking in alkali halide aqueous solutions through x-ray absorption spectroscopy. Journal of Chemical Physics, 2014, 140, 244506.	3.0	70
121	Electronic structure of adsorbates from core-level shake-up spectra:N2on Ni(100). Physical Review Letters, 1991, 67, 1015-1018.	7.8	68
122	Bridging the Pressure Gap in Water and Hydroxyl Chemistry on Metal Surfaces:â€‰ The Cu(110) Case. Journal of Physical Chemistry C, 2007, 111, 14493-14499.	3.1	68
123	Water growth on metals and oxides: binding, dissociation and role of hydroxyl groups. Faraday Discussions, 2009, 141, 221-229.	3.2	68
124	Structure, Redox Chemistry, and Interfacial Alloy Formation in Monolayer and Multilayer Cu/Au(111) Model Catalysts for CO₂ Electroreduction. Journal of Physical Chemistry C, 2014, 118, 7954-7961.	3.1	68
125	Direct Evidence of Orbital Mixing between Water and Solvated Transition-Metal Ions:â€‰ An Oxygen 1s XAS and DFT Study of Aqueous Systems. Journal of Physical Chemistry A, 2003, 107, 6869-6876.	2.5	67
126	Geometrical characterization of adenine and guanine on Cu(110) by NEXAFS, XPS, and DFT calculation. Surface Science, 2007, 601, 5433-5440.	1.9	67

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127	Enhanced small-angle scattering connected to the Widom line in simulations of supercooled water. Journal of Chemical Physics, 2011, 134, 214506.	3.0	67
128	Electronic structure of benzene on Ni(100) and Cu(110): An x-ray-spectroscopy study. Physical Review B, 1998, 58, 7351-7360.	3.2	66
129	Beyond the Chemical Shift: Vibrationally Resolved Core-Level Photoelectron Spectra of Adsorbed CO. Physical Review Letters, 1998, 81, 1730-1733.	7.8	66
130	Surface structure of thin ice films. Chemical Physics Letters, 2004, 395, 161-165.	2.6	66
131	The state of zinc in methanol synthesis over a Zn/ZnO/Cu(211) model catalyst. Science, 2022, 376, 603-608.	12.6	65
132	L-edge x-ray absorption in fcc and bcc Cu metal: Comparison of experimental and first-principles theoretical results. Physical Review B, 1996, 53, 16067-16073.	3.2	64
133	2Ï€-resonance broadening in x-ray-absorption spectroscopy of adsorbed CO. Physical Review B, 1992, 46, 10353-10365.	3.2	63
134	Wide-angle X-ray diffraction and molecular dynamics study of medium-range order in ambient and hot water. Physical Chemistry Chemical Physics, 2011, 13, 19997.	2.8	63
135	A high-pressure x-ray photoelectron spectroscopy instrument for studies of industrially relevant catalytic reactions at pressures of several bars. Review of Scientific Instruments, 2019, 90, .	1.3	63
136	Experimental and theoretical characterization of the structure of defects at the pyriteFeS2(100)surface. Physical Review B, 2004, 70, .	3.2	62
137	Valence changes and core-level shifts of Sm adsorbed on Mo(110). Physical Review B, 1989, 40, 5916-5923.	3.2	61
138	Local probing of the surface chemical bond using X-ray emission spectroscopy. Applied Physics A: Materials Science and Processing, 1997, 65, 147-154.	2.3	61
139	Nature of the surface chemical bond inN2on Ni(100) studied by x-ray-emission spectroscopy andab initiocalculations. Physical Review B, 1998, 57, 9274-9284.	3.2	61
140	Electronic structure effects in liquid water studied by photoelectron spectroscopy and density functional theory. Chemical Physics Letters, 2008, 460, 86-92.	2.6	61
141	Geometrical characterization of pyrimidine base molecules adsorbed on Cu() surfaces: XPS and NEXAFS studies. Surface Science, 2003, 532-535, 261-266.	1.9	60
142	Bonding of Saturated Hydrocarbons to Metal Surfaces. Physical Review Letters, 2003, 91, 046102.	7.8	60
143	Are recent water models obtained by fitting diffraction data consistent with infrared/Raman and x-ray absorption spectra?. Journal of Chemical Physics, 2006, 125, 244510.	3.0	60
144	Comparison of x-ray absorption spectra between water and ice: New ice data with low pre-edge absorption cross-section. Journal of Chemical Physics, 2014, 141, 034507.	3.0	60

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145	Soft x-ray emission studies of adsorbates. Physical Review Letters, 1992, 69, 812-815.	7.8	59
146	C1sshakeup spectrum ofC60: Global charge-transfer satellites and their relation to the x-ray threshold singularities in macroscopic systems. Physical Review B, 1993, 48, 14629-14637.	3.2	59
147	Coherent X-rays reveal the influence of cage effects on ultrafast water dynamics. Nature Communications, 2018, 9, 1917.	12.8	59
148	Operando XAS Study of the Surface Oxidation State on a Monolayer IrO_x on RuO_x and Ru Oxide Based Nanoparticles for Oxygen Evolution in Acidic Media. Journal of Physical Chemistry B, 2018, 122, 878-887.	2.6	59
149	Quantitative studies of metal-metal adhesion and interface segregation energies using photoelectron spectroscopy. Physical Review Letters, 1988, 60, 1731-1734.	7.8	58
150	X-ray Scattering and Oâ€“O Pair-Distribution Functions of Amorphous Ices. Journal of Physical Chemistry B, 2018, 122, 7616-7624.	2.6	58
151	Valence-transition-induced 5Ã—5 surface reconstruction of Sm(0001). Physical Review Letters, 1989, 63, 187-190.	7.8	57
152	X-ray excited photoelectron spectra of free molecules containing oxygen. Journal of Electron Spectroscopy and Related Phenomena, 1991, 56, 117-164.	1.7	57
153	Inner valence satellite structure in high resolution X-ray excited photoelectron spectra of N2and CO. Physica Scripta, 1991, 44, 184-190.	2.5	57
154	Correlation of hydrogen bond lengths and angles in liquid water based on Compton scattering. Journal of Chemical Physics, 2006, 125, 084504.	3.0	55
155	Chemical bonding of water to metal surfaces studied with core-level spectroscopies. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 85-98.	1.7	55
156	Chemisorption of CO on Cu(100), Ag(110) and Au(110). Surface Science, 1994, 310, 16-26.	1.9	54
157	Direct observation of the dealloying process of a platinumâ€“yttrium nanoparticle fuel cell cathode and its oxygenated species during the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2015, 17, 28121-28128.	2.8	54
158	Direct observation of ultrafast hydrogen bond strengthening in liquid water. Nature, 2021, 596, 531-535.	27.8	53
159	Bonding of an Isolated K atom to a Surface: Experiment and Theory. Physical Review Letters, 1997, 78, 4994-4997.	7.8	52
160	Direct Experimental Measurement of Donation/Back-Donation in Unsaturated Hydrocarbon Bonding to Metals. Journal of the American Chemical Society, 2000, 122, 12310-12316.	13.7	52
161	Cooperativity in Surface Bonding and Hydrogen Bonding of Water and Hydroxyl at Metal Surfaces. Journal of Physical Chemistry C, 2010, 114, 10240-10248.	3.1	51
162	Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). Physical Review Letters, 2013, 110, 186101.	7.8	51

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163	The structure of water; from ambient to deeply supercooled. Journal of Non-Crystalline Solids, 2015, 407, 399-417.	3.1	51
164	Direct probing of the adsorbate-substrate chemical bond using angle-dependent x-ray-emission spectroscopy. Physical Review B, 1995, 51, 10244-10247.	3.2	50
165	The structure of mixed H2Oâ€“OH monolayer films on Ru(0001). Journal of Chemical Physics, 2008, 129, 154109.	3.0	50
166	Degradation of Bimetallic Model Electrocatalysts: An In Situ Xâ€Ray Absorption Spectroscopy Study. Angewandte Chemie - International Edition, 2011, 50, 10190-10192.	13.8	50
167	Studies of the COî—¸H,H2î—¸Ni(100) system using photoelectron spectroscopy. Surface Science, 1992, 273, 47-60.	1.9	49
168	Autoionization as a tool for interpretation of x-ray absorption spectra:N2/Ni(100). Physical Review Letters, 1993, 70, 2000-2003.	7.8	49
169	Coherent and incoherent processes in resonant photoemission. Applied Physics A: Materials Science and Processing, 1997, 65, 159-167.	2.3	49
170	The local structure of protonated water from x-ray absorption and density functional theory. Journal of Chemical Physics, 2006, 124, 194508.	3.0	49
171	Low O2 dissociation barrier on Pt(111) due to adsorbateâ€“adsorbate interactions. Journal of Chemical Physics, 2010, 133, 224701.	3.0	49
172	Probing the nanoscale structure of the catalytically active overlayer on Pt alloys with rare earths. Nano Energy, 2016, 29, 249-260.	16.0	49
173	Resonant Auger studies of CO adsorbed on two groups ofdtransition metals. Physical Review B, 1994, 49, 10136-10153.	3.2	48
174	Modelling pH and potential in dynamic structures of the water/Pt(111) interface on the atomic scale. Physical Chemistry Chemical Physics, 2017, 19, 23505-23514.	2.8	48
175	Magnetic dichroism inL2,3emission of Fe, Co, and Ni following energy-dependent excitation with circularly polarized x rays. Physical Review B, 1994, 50, 16758-16761.	3.2	47
176	The bonding of simple carboxylic acids on Cu(110). Journal of Chemical Physics, 2000, 112, 8146-8155.	3.0	46
177	Vibrational interference effects in x-ray emission of a model water dimer: Implications for the interpretation of the liquid spectrum. Journal of Chemical Physics, 2011, 134, 044513.	3.0	46
178	THz-Pulse-Induced Selective Catalytic CO Oxidation on Ru. Physical Review Letters, 2015, 115, 036103.	7.8	46
179	How Cubic Can Ice Be?. Journal of Physical Chemistry Letters, 2017, 8, 3216-3222.	4.6	46
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