Anders R Nilsson

List of Publications by Year
in descending order

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356 papers	33,253 citations	3919 88 h-index	4870 168 g-index
366 all docs	366 docs citations	366 times ranked	25957 citing authors

#	Article	IF	Citations
1	Direct Evidence of Subsurface Oxygen Formation in Oxideâ€Derived Cu by Xâ€ray Photoelectron Spectroscopy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	37
2	Following the Crystallization of Amorphous Ice after Ultrafast Laser Heating. Journal of Physical Chemistry B, 2022, 126, 2299-2307.	1.2	8
3	Operando Observation of Oxygenated Intermediates during CO Hydrogenation on Rh Single Crystals. Journal of the American Chemical Society, 2022, 144, 7038-7042.	6.6	10
4	RÃ¼cktitelbild: Direct Evidence of Subsurface Oxygen Formation in Oxideâ€Derived Cu by Xâ€ray Photoelectron Spectroscopy (Angew. Chem. 3/2022). Angewandte Chemie, 2022, 134, .	1.6	0
5	Back Cover: Direct Evidence of Subsurface Oxygen Formation in Oxideâ€Derived Cu by Xâ€ray Photoelectron Spectroscopy (Angew. Chem. Int. Ed. 3/2022). Angewandte Chemie - International Edition, 2022, 61, .	7.2	1
6	Origin of the anomalous properties in supercooled water based on experimental probing inside â€œno-man's landâ€. Journal of Non-Crystalline Solids: X, 2022, 14, 100095.	0.5	9
7	The state of zinc in methanol synthesis over a Zn/ZnO/Cu(211) model catalyst. Science, 2022, 376, 603-608.	6.0	65
8	In Situ Surface-Sensitive Investigation of Multiple Carbon Phases on Fe(110) in the Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2022, 12, 7609-7621.	5.5	13
9	Chemisorbed oxygen or surface oxides steer the selectivity in Pd electrocatalytic propene oxidation observed by operando Pd L-edge X-ray absorption spectroscopy. Catalysis Science and Technology, 2021, 11, 3347-3352.	2.1	6
10	Enhancement and maximum in the isobaric specific-heat capacity measurements of deeply supercooled water using ultrafast calorimetry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	42
11	The Structure of the Active Pd State During Catalytic Carbon Monoxide Oxidization. Journal of Physical Chemistry Letters, 2021, 12, 4461-4465.	2.1	15
12	Ultrafast Adsorbate Excitation Probed with Subpicosecond-Resolution X-Ray Absorption Spectroscopy. Physical Review Letters, 2021, 127, 016802.	2.9	11
13	Electrochemical Carbon Dioxide Reduction on Femtosecond Laser-Processed Copper Electrodes: Effect on the Liquid Products by Structuring and Doping. ACS Applied Energy Materials, 2021, 4, 5927-5934.	2.5	5
14	Bridging the Pressure Gap in CO Oxidation. ACS Catalysis, 2021, 11, 9128-9135.	5.5	14
15	Direct observation of ultrafast hydrogen bond strengthening in liquid water. Nature, 2021, 596, 531-535.	13.7	53
16	Stroboscopic operando spectroscopy of the dynamics in heterogeneous catalysis by event-averaging. Nature Communications, 2021, 12, 6117.	5.8	27
17	Anomalous temperature dependence of the experimental x-ray structure factor of supercooled water. Journal of Chemical Physics, 2021, 155, 214501.	1.2	7
18	Time-resolved observation of transient precursor state of CO on Ru(0001) using carbon K-edge spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 2677-2684.	1.3	15

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19	Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. Science, 2020, 370, 978-982.	6.0	143
20	Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations. Nature Communications, 2020, 11, 6181.	5.8	80
21	Anisotropic X-Ray Scattering of Transiently Oriented Water. Physical Review Letters, 2020, 125, 076002.	2.9	13
22	X-Ray Studies of Water. , 2020, , 1935-1988.		5
23	Temperature dependent anomalous fluctuations in water: shift of â‰ˆ1â€‰kbar between experiment and classical force field simulations. Molecular Physics, 2019, 117, 3232-3240.	0.8	7
24	Measurements of ultrafast dissociation in resonant inelastic x-ray scattering of water. Journal of Chemical Physics, 2019, 150, 204201.	1.2	12
25	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, .	0.6	63
26	Chemical Dissolution of Pt(111) during Potential Cycling under Negative pH Conditions Studied by Operando X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 25128-25134.	1.5	19
27	Apparent power-law behavior of water's isothermal compressibility and correlation length upon supercooling. Physical Chemistry Chemical Physics, 2019, 21, 26-31.	1.3	28
28	Intermediate range Oâ€“O correlations in supercooled water down to 235 K. Journal of Chemical Physics, 2019, 150, 224506.	1.2	28
29	X-ray studies of the transformation from high- to low-density amorphous water. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180164.	1.6	17
30	Do X-ray spectroscopies provide evidence for continuous distribution models of water at ambient conditions?. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17156-17157.	3.3	16
31	Operando Observation of Chemical Transformations of Iridium Oxide During Photoelectrochemical Water Oxidation. ACS Applied Energy Materials, 2019, 2, 1371-1379.	2.5	18
32	X-Ray Studies of Water. , 2019, , 1-54.		0
33	Vatten. Kosmos, 2019, 95, 52-75.	0.0	0
34	Relationship between x-ray emission and absorption spectroscopy and the local H-bond environment in water. Journal of Chemical Physics, 2018, 148, 144507.	1.2	37
35	X-Ray Probe Targets Interfaces. Physics Magazine, 2018, 11, .	0.1	0
36	Atom-specific activation in CO oxidation. Journal of Chemical Physics, 2018, 149, 234707.	1.2	2

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37	Coherent X-rays reveal the influence of cage effects on ultrafast water dynamics. Nature Communications, 2018, 9, 1917.	5.8	59
38	Response to Comment on â€œMaxima in the thermodynamic response and correlation functions of deeply supercooled waterâ€. Science, 2018, 360, .	6.0	25
39	X-ray Scattering and Oâ€“O Pair-Distribution Functions of Amorphous Ices. Journal of Physical Chemistry B, 2018, 122, 7616-7624.	1.2	58
40	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.	1.2	59
41	Catalysis in real time using X-ray lasers. Chemical Physics Letters, 2017, 675, 145-173.	1.2	45
42	Subsurface Oxygen in Oxide-Derived Copper Electrocatalysts for Carbon Dioxide Reduction. Journal of Physical Chemistry Letters, 2017, 8, 285-290.	2.1	332
43	Stability and Effects of Subsurface Oxygen in Oxide-Derived Cu Catalyst for CO₂ Reduction. Journal of Physical Chemistry C, 2017, 121, 25010-25017.	1.5	92
44	Nature and Distribution of Stable Subsurface Oxygen in Copper Electrodes During Electrochemical CO₂ Reduction. Journal of Physical Chemistry C, 2017, 121, 25003-25009.	1.5	98
45	Correction: Retraction: Transferring electrons to water. Nature Chemistry, 2017, 9, 828-828.	6.6	0
46	Real-Time Elucidation of Catalytic Pathways in CO Hydrogenation on Ru. Journal of Physical Chemistry Letters, 2017, 8, 3820-3825.	2.1	9
47	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.	1.3	48
48	Temperature-Independent Nuclear Quantum Effects on the Structure of Water. Physical Review Letters, 2017, 119, 075502.	2.9	26
49	Probing the OH Stretch in Different Local Environments in Liquid Water. Journal of Physical Chemistry Letters, 2017, 8, 5487-5491.	2.1	30
50	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.	3.3	155
51	How Cubic Can Ice Be?. Journal of Physical Chemistry Letters, 2017, 8, 3216-3222.	2.1	46
52	Maxima in the thermodynamic response and correlation functions of deeply supercooled water. Science, 2017, 358, 1589-1593.	6.0	270
53	Waterâ€”The Most Anomalous Liquid. Chemical Reviews, 2016, 116, 7459-7462.	23.0	124
54	Electroreduction of Carbon Monoxide Over a Copper Nanocube Catalyst: Surface Structure and pH Dependence on Selectivity. ChemCatChem, 2016, 8, 1119-1124.	1.8	76

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55	The structural validity of various thermodynamical models of supercooled water. Journal of Chemical Physics, 2016, 145, 134507.	1.2	41
56	Evaporative cooling of microscopic water droplets in vacuo: Molecular dynamics simulations and kinetic gas theory. Journal of Chemical Physics, 2016, 144, 124502.	1.2	22
57	The temperature dependence of intermediate range oxygen-oxygen correlations in liquid water. Journal of Chemical Physics, 2016, 145, 084503.	1.2	33
58	X-ray and Neutron Scattering of Water. Chemical Reviews, 2016, 116, 7570-7589.	23.0	170
59	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.	2.1	131
60	Operando X-Ray Photoelectron Spectroscopy Studies of Aqueous Electrocatalytic Systems. Topics in Catalysis, 2016, 59, 439-447.	1.3	23
61	Chemical Bond Activation Observed with an X-ray Laser. Journal of Physical Chemistry Letters, 2016, 7, 3647-3651.	2.1	21
62	Operando Analyses of Solar Fuels Light Absorbers and Catalysts. Electrochimica Acta, 2016, 211, 711-719.	2.6	23
63	Probing the nanoscale structure of the catalytically active overlayer on Pt alloys with rare earths. Nano Energy, 2016, 29, 249-260.	8.2	49
64	X-ray and Electron Spectroscopy of Water. Chemical Reviews, 2016, 116, 7551-7569.	23.0	143
65	Probing water with X-ray lasers. Advances in Physics: X, 2016, 1, 226-245.	1.5	8
66	Elucidating the electronic structure of supported gold nanoparticles and its relevance to catalysis by means of hard X-ray photoelectron spectroscopy. Surface Science, 2016, 650, 24-33.	0.8	23
67	Pt Gd alloy formation on Pt(111): Preparation and structural characterization. Surface Science, 2016, 652, 114-122.	0.8	16
68	Ambient-Pressure XPS Study of a Niâ€“Fe Electrocatalyst for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 2247-2253.	1.5	336
69	THz-Pulse-Induced Selective Catalytic CO Oxidation on Ru. Physical Review Letters, 2015, 115, 036103.	2.9	46
70	Indication of non-thermal contribution to visible femtosecond laser-induced CO oxidation on Ru(0001). Journal of Chemical Physics, 2015, 143, 074701.	1.2	14
71	Vacuum space charge effects in sub-picosecond soft X-ray photoemission on a molecular adsorbate layer. Structural Dynamics, 2015, 2, 025101.	0.9	27
72	The enhanced activity of mass-selected Pt Gd nanoparticles for oxygen electroreduction. Journal of Catalysis, 2015, 328, 297-307.	3.1	83

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73	From the Sabatier principle to a predictive theory of transition-metal heterogeneous catalysis. Journal of Catalysis, 2015, 328, 36-42.	3.1	1,271
74	Optical laser-induced CO desorption from Ru(0001) monitored with a free-electron X-ray laser: DFT prediction and X-ray confirmation of a precursor state. Surface Science, 2015, 640, 80-88.	0.8	13
75	High Selectivity for Ethylene from Carbon Dioxide Reduction over Copper Nanocube Electrocatalysts. Angewandte Chemie - International Edition, 2015, 54, 5179-5182.	7.2	429
76	The structural origin of anomalous properties of liquid water. Nature Communications, 2015, 6, 8998.	5.8	373
77	Probing the transition state region in catalytic CO oxidation on Ru. Science, 2015, 347, 978-982.	6.0	193
78	Long-range ionâ€“water and ionâ€“ion interactions in aqueous solutions. Physical Chemistry Chemical Physics, 2015, 17, 8427-8430.	1.3	15
79	Identification of Highly Active Fe Sites in (Ni,Fe)OOH for Electrocatalytic Water Splitting. Journal of the American Chemical Society, 2015, 137, 1305-1313.	6.6	2,018
80	Anomalous Behavior of the Homogeneous Ice Nucleation Rate in â€œNo-Manâ€™s Landâ€. Journal of Physical Chemistry Letters, 2015, 6, 2826-2832.	2.1	102
81	Low Barrier Carbon Induced CO Dissociation on Stepped Cu. Physical Review Letters, 2015, 114, 246101.	2.9	8
82	Strong Influence of Coadsorbate Interaction on CO Desorption Dynamics on Ru(0001) Probed by Ultrafast X-Ray Spectroscopy andAbÂInitioSimulations. Physical Review Letters, 2015, 114, 156101.	2.9	25
83	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.	1.3	54
84	X-ray emission spectroscopy of bulk liquid water in â€œno-manâ€™s landâ€. Journal of Chemical Physics, 2015, 142, 044505.	1.2	32
85	The structure of water; from ambient to deeply supercooled. Journal of Non-Crystalline Solids, 2015, 407, 399-417.	1.5	51
86	Determination of the surface electronic structure of Fe3O4(1 1 1) by soft X-ray spectroscopy. Catalysis Today, 2015, 240, 184-189.	2.2	20
87	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.	1.2	60
88	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2014, 118, 29252-29259.	1.5	87
89	Reabsorption of Soft X-Ray Emission at High X-Ray Free-Electron Laser Fluences. Physical Review Letters, 2014, 113, 153002.	2.9	33
90	A Molecular Perspective on the d-Band Model: Synergy Between Experiment and Theory. Topics in Catalysis, 2014, 57, 2-13.	1.3	90

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91	JCAP Research on Solar Fuel Production at Light Sources. Synchrotron Radiation News, 2014, 27, 14-17.	0.2	26
92	Inâ€...Situ Observation of Surface Species on Iridium Oxide Nanoparticles during the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2014, 53, 7169-7172.	7.2	386
93	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.	1.5	68
94	Preparation, Structure, and Orientation of Pyrite FeS₂{100} Surfaces: Anisotropy, Sulfur Monomers, Dimer Vacancies, and a Possible FeS Surface Phase. Journal of Physical Chemistry C, 2014, 118, 21896-21903.	1.5	28
95	Mass-selected nanoparticles of PtxY as model catalysts for oxygen electroreduction. Nature Chemistry, 2014, 6, 732-738.	6.6	298
96	Ultrafast X-ray probing of water structure below the homogeneous ice nucleation temperature. Nature, 2014, 510, 381-384.	13.7	385
97	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.	1.2	70
98	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.	6.6	71
99	Highly Compressed Two-Dimensional Form of Water at Ambient Conditions. Scientific Reports, 2013, 3, 1074.	1.6	31
100	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.	1.5	92
101	Interlayer Carbon Bond Formation Induced by Hydrogen Adsorption in Few-Layer Supported Graphene. Physical Review Letters, 2013, 111, 085503.	2.9	110
102	Stability of Pt-Modified Cu(111) in the Presence of Oxygen and Its Implication on the Overall Electronic Structure. Journal of Physical Chemistry C, 2013, 117, 16371-16380.	1.5	5
103	Resonant inelastic X-ray scattering of liquid water. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 84-100.	0.8	45
104	Direct observation of the oxygenated species during oxygen reduction on a platinum fuel cell cathode. Nature Communications, 2013, 4, .	5.8	325
105	On the chemical state of Co oxide electrocatalysts during alkaline water splitting. Physical Chemistry Chemical Physics, 2013, 15, 17460.	1.3	89
106	Ambient-pressure photoelectron spectroscopy for heterogeneous catalysis and electrochemistry. Catalysis Today, 2013, 205, 101-105.	2.2	103
107	Ultrafast soft X-ray emission spectroscopy of surface adsorbates using an X-ray free electron laser. Journal of Electron Spectroscopy and Related Phenomena, 2013, 187, 9-14.	0.8	27
108	Comment on â€œUsing Photoelectron Spectroscopy and Quantum Mechanics to Determine d-Band Energies of Metals for Catalytic Applicationsâ€• Journal of Physical Chemistry C, 2013, 117, 6914-6915.	1.5	15

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109	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.	1.2	407
110	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. Science, 2013, 339, 1302-1305.	6.0	179
111	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.	7.2	119
112	Electronic structure effects in catalysis probed by X-ray and electron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 113-124.	0.8	13
113	Identification of the electronic structure differences between polar isostructural FeO and CoO films by core-level soft x-ray spectroscopy. Physical Review B, 2013, 87, .	1.1	2
114	Solvation structures of protons and hydroxide ions in water. Journal of Chemical Physics, 2013, 138, 154506.	1.2	19
115	Unique water-water coordination tailored by a metal surface. Journal of Chemical Physics, 2013, 138, 234708.	1.2	1
116	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.	2.9	90
117	Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). Physical Review Letters, 2013, 110, 186101.	2.9	51
118	Microscopic probing of the size dependence in hydrophobic solvation. Journal of Chemical Physics, 2012, 136, 074507.	1.2	30
119	Polarization dependent resonant x-ray emission spectroscopy of D2O and H2O water: Assignment of the local molecular orbital symmetry. Journal of Chemical Physics, 2012, 136, 044517.	1.2	42
120	Probing substrate effects in the carbon-projected band structure of graphene on Pt(111) through resonant inelastic x-ray scattering. Physical Review B, 2012, 85, .	1.1	27
121	Electrochemical Oxidation of Size-Selected Pt Nanoparticles Studied Using in Situ High-Energy-Resolution X-ray Absorption Spectroscopy. ACS Catalysis, 2012, 2, 2371-2376.	5.5	105
122	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.	6.6	117
123	Fluctuations in ambient water. Journal of Molecular Liquids, 2012, 176, 2-16.	2.3	86
124	Reversible graphene-metal contact through hydrogenation. Physical Review B, 2012, 86, .	1.1	28
125	Tuning the Metalâ€“Adsorbate Chemical Bond through the Ligand Effect on Platinum Subsurface Alloys. Angewandte Chemie - International Edition, 2012, 51, 7724-7728.	7.2	15
126	In situ X-ray probing reveals fingerprints of surface platinum oxide. Physical Chemistry Chemical Physics, 2011, 13, 262-266.	1.3	110

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127	Spatially inhomogeneous bimodal inherent structure of simulated liquid water. Physical Chemistry Chemical Physics, 2011, 13, 19918.	1.3	136
128	Enhanced small-angle scattering connected to the Widom line in simulations of supercooled water. Journal of Chemical Physics, 2011, 134, 214506.	1.2	67
129	Autocatalytic Surface Hydroxylation of MgO(100) Terrace Sites Observed under Ambient Conditions. Journal of Physical Chemistry C, 2011, 115, 12864-12872.	1.5	71
130	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.	1.2	83
131	Hydrogen Spillover in Pt-Single-Walled Carbon Nanotube Composites: Formation of Stable Câ˜H Bonds. Journal of the American Chemical Society, 2011, 133, 5580-5586.	6.6	93
132	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.	1.3	63
133	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.	1.2	111
134	Increased fraction of low-density structures in aqueous solutions of fluoride. Journal of Chemical Physics, 2011, 134, 224507.	1.2	18
135	Perspective on the structure of liquid water. Chemical Physics, 2011, 389, 1-34.	0.9	289
136	Degradation of Bimetallic Model Electrocatalysts: An In Situ Xâ€Ray Absorption Spectroscopy Study. Angewandte Chemie - International Edition, 2011, 50, 10190-10192.	7.2	50
137	Formation of hydroxyl and water layers on MgO films studied with ambient pressure XPS. Surface Science, 2011, 605, 89-94.	0.8	130
138	Oxidation of Pt(111) under Near-Ambient Conditions. Physical Review Letters, 2011, 107, 195502.	2.9	151
139	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.	1.2	46
140	X-ray Raman scattering provides evidence for interfacial acetonitrile-water dipole interactions in aqueous solutions. Journal of Chemical Physics, 2011, 135, 164509.	1.2	19
141	Theoretical approximations to X-ray absorption spectroscopy of liquid water and ice. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 135-157.	0.8	132
142	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.	0.8	158
143	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.	0.8	100
144	Chemical bonding of water to metal surfaces studied with core-level spectroscopies. Journal of Electron Spectroscopy and Related Phenomena, 2010, 177, 85-98.	0.8	55

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145	Lattice-strain control of the activity in dealloyed coreâ€“shell fuel cell catalysts. Nature Chemistry, 2010, 2, 454-460.	6.6	2,489
146	Transferring electrons to water. Nature Chemistry, 2010, 2, 800-802.	6.6	5
147	Semiclassical description of nuclear dynamics in x-ray emission of water. Physical Review B, 2010, 82, .	1.1	34
148	Reply to Soper et al.: Fluctuations in water around a bimodal distribution of local hydrogen-bonded structural motifs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, .	3.3	44
149	Oxygen-oxygen correlations in liquid water: Addressing the discrepancy between diffraction and extended x-ray absorption fine-structure using a novel multiple-data set fitting technique. Journal of Chemical Physics, 2010, 132, 104513.	1.2	37
150	Spectroscopic Identification of a Hydrogen Peroxide-Like Intermediate Formed after Molecular Oxygen Adsorption on Hydrogen Rich Pt(111). ECS Transactions, 2010, 33, 97-103.	0.3	0
151	The role of substrate electrons in the wetting of a metal surface. Journal of Chemical Physics, 2010, 132, 094701.	1.2	39
152	Low O2 dissociation barrier on Pt(111) due to adsorbateâ€“adsorbate interactions. Journal of Chemical Physics, 2010, 133, 224701.	1.2	49
153	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.	1.2	84
154	Direct Interaction of Water Ice with Hydrophobic Methyl-Terminated Si(111). Journal of Physical Chemistry C, 2010, 114, 19004-19008.	1.5	7
155	Water Adsorption on Î±-Fe₂O₃(0001) at near Ambient Conditions. Journal of Physical Chemistry C, 2010, 114, 2256-2266.	1.5	238
156	Chemical Bonding on Metal Surfaces. , 2010, , 253-274.		3
157	Cooperativity in Surface Bonding and Hydrogen Bonding of Water and Hydroxyl at Metal Surfaces. Journal of Physical Chemistry C, 2010, 114, 10240-10248.	1.5	51
158	Peroxide-like intermediate observed at hydrogen rich condition on Pt(111) after interaction with oxygen. Physical Chemistry Chemical Physics, 2010, 12, 5712.	1.3	15
159	Complementarity between high-energy photoelectron and L-edge spectroscopy for probing the electronic structure of 5d transition metal catalysts. Physical Chemistry Chemical Physics, 2010, 12, 5694.	1.3	23
160	Sensitivity of x-ray absorption spectroscopy to hydrogen bond topology. Physical Review B, 2009, 80, .	1.1	37
161	Assessing the electric-field approximation to IR and Raman spectra of dilute HOD in D2O. Journal of Chemical Physics, 2009, 131, 034501.	1.2	11
162	Increased fraction of weakened hydrogen bonds of water in aerosol OT reverse micelles. Journal of Chemical Physics, 2009, 131, 031103.	1.2	19

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163	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.	3.3	526
164	NO₂ Adsorption on Ag(100) Supported MgO(100) Thin Films: Controlling the Adsorption State with Film Thickness. Journal of Physical Chemistry C, 2009, 113, 7355-7363.	1.5	32
165	On the Range of Water Structure Models Compatible with X-ray and Neutron Diffraction Data. Journal of Physical Chemistry B, 2009, 113, 6246-6255.	1.2	81
166	Water growth on metals and oxides: binding, dissociation and role of hydroxyl groups. Faraday Discussions, 2009, 141, 221-229.	1.6	68
167	Energetics of Câ˜H Bonds Formed at Single-Walled Carbon Nanotubes. Nano Letters, 2009, 9, 1301-1306.	4.5	16
168	Probing the hydrogen-bond network of water via time-resolved soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2009, 11, 3951.	1.3	71
169	High resolution X-ray emission spectroscopy of liquid water: The observation of two structural motifs. Chemical Physics Letters, 2008, 460, 387-400.	1.2	328
170	Electronic structure effects in liquid water studied by photoelectron spectroscopy and density functional theory. Chemical Physics Letters, 2008, 460, 86-92.	1.2	61
171	Spectroscopic evidence for the formation of 3-D crystallites during isothermal heating of amorphous ice on Pt(111). Surface Science, 2008, 602, 2004-2008.	0.8	15
172	Câ€“H bond formation at the graphite surface studied with core level spectroscopy. Surface Science, 2008, 602, 2575-2580.	0.8	99
173	In situx-ray photoelectron spectroscopy studies of water on metals and oxides at ambient conditions. Journal of Physics Condensed Matter, 2008, 20, 184025.	0.7	204
174	Autocatalytic Water Dissociation on Cu(110) at Near Ambient Conditions. Journal of the American Chemical Society, 2008, 130, 2793-2797.	6.6	126
175	The structure of mixed H2Oâ€“OH monolayer films on Ru(0001). Journal of Chemical Physics, 2008, 129, 154109.	1.2	50
176	Diffraction and IR/Raman data do not prove tetrahedral water. Journal of Chemical Physics, 2008, 129, 084502.	1.2	94
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