

Anders R Nilsson

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Direct Evidence of Subsurface Oxygen Formation in Oxide-Derived Cu by X-ray Photoelectron Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	37
2	Following the Crystallization of Amorphous Ice after Ultrafast Laser Heating. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2299-2307.	2.6	8
3	Operando Observation of Oxygenated Intermediates during CO Hydrogenation on Rh Single Crystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 7038-7042.	13.7	10
4	RÅ½cktitelbild: Direct Evidence of Subsurface Oxygen Formation in Oxide-Derived Cu by X-ray Photoelectron Spectroscopy (<i>Angew. Chem.</i> 3/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
5	Back Cover: Direct Evidence of Subsurface Oxygen Formation in Oxide-Derived Cu by X-ray Photoelectron Spectroscopy (<i>Angew. Chem. Int. Ed.</i> 3/2022). <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	1
6	Origin of the anomalous properties in supercooled water based on experimental probing inside "œno-man's land". <i>Journal of Non-Crystalline Solids: X</i> , 2022, 14, 100095.	1.2	9
7	The state of zinc in methanol synthesis over a Zn/ZnO/Cu(211) model catalyst. <i>Science</i> , 2022, 376, 603-608.	12.6	65
8	In Situ Surface-Sensitive Investigation of Multiple Carbon Phases on Fe(110) in the Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2022, 12, 7609-7621.	11.2	13
9	Chemisorbed oxygen or surface oxides steer the selectivity in Pd electrocatalytic propene oxidation observed by <i>operando</i> Pd L-edge X-ray absorption spectroscopy. <i>Catalysis Science and Technology</i> , 2021, 11, 3347-3352.	4.1	6
10	Enhancement and maximum in the isobaric specific-heat capacity measurements of deeply supercooled water using ultrafast calorimetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	42
11	The Structure of the Active Pd State During Catalytic Carbon Monoxide Oxidization. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4461-4465.	4.6	15
12	Ultrafast Adsorbate Excitation Probed with Subpicosecond-Resolution X-Ray Absorption Spectroscopy. <i>Physical Review Letters</i> , 2021, 127, 016802.	7.8	11
13	Electrochemical Carbon Dioxide Reduction on Femtosecond Laser-Processed Copper Electrodes: Effect on the Liquid Products by Structuring and Doping. <i>ACS Applied Energy Materials</i> , 2021, 4, 5927-5934.	5.1	5
14	Bridging the Pressure Gap in CO Oxidation. <i>ACS Catalysis</i> , 2021, 11, 9128-9135.	11.2	14
15	Direct observation of ultrafast hydrogen bond strengthening in liquid water. <i>Nature</i> , 2021, 596, 531-535.	27.8	53
16	Stroboscopic operando spectroscopy of the dynamics in heterogeneous catalysis by event-averaging. <i>Nature Communications</i> , 2021, 12, 6117.	12.8	27
17	Anomalous temperature dependence of the experimental x-ray structure factor of supercooled water. <i>Journal of Chemical Physics</i> , 2021, 155, 214501.	3.0	7
18	Time-resolved observation of transient precursor state of CO on Ru(0001) using carbon K-edge spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2677-2684.	2.8	15

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19	Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. <i>Science</i> , 2020, 370, 978-982.	12.6	143
20	Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations. <i>Nature Communications</i> , 2020, 11, 6181.	12.8	80
21	Anisotropic X-Ray Scattering of Transiently Oriented Water. <i>Physical Review Letters</i> , 2020, 125, 076002.	7.8	13
22	X-Ray Studies of Water. , 2020, , 1935-1988.		5
23	Temperature dependent anomalous fluctuations in water: shift of $\rho^{\text{H}}/\rho^{\text{D}}$ between experiment and classical force field simulations. <i>Molecular Physics</i> , 2019, 117, 3232-3240.	1.7	7
24	Measurements of ultrafast dissociation in resonant inelastic x-ray scattering of water. <i>Journal of Chemical Physics</i> , 2019, 150, 204201.	3.0	12
25	A high-pressure x-ray photoelectron spectroscopy instrument for studies of industrially relevant catalytic reactions at pressures of several bars. <i>Review of Scientific Instruments</i> , 2019, 90, .	1.3	63
26	Chemical Dissolution of Pt(111) during Potential Cycling under Negative pH Conditions Studied by Operando X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25128-25134.	3.1	19
27	Apparent power-law behavior of water's isothermal compressibility and correlation length upon supercooling. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26-31.	2.8	28
28	Intermediate range O-O correlations in supercooled water down to 235 K. <i>Journal of Chemical Physics</i> , 2019, 150, 224506.	3.0	28
29	X-ray studies of the transformation from high- to low-density amorphous water. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180164.	3.4	17
30	Do X-ray spectroscopies provide evidence for continuous distribution models of water at ambient conditions?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17156-17157.	7.1	16
31	Operando Observation of Chemical Transformations of Iridium Oxide During Photoelectrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , 2019, 2, 1371-1379.	5.1	18
32	X-Ray Studies of Water. , 2019, , 1-54.		0
33	Vatten. <i>Kosmos</i> , 2019, 95, 52-75.	0.0	0
34	Relationship between x-ray emission and absorption spectroscopy and the local H-bond environment in water. <i>Journal of Chemical Physics</i> , 2018, 148, 144507.	3.0	37
35	X-Ray Probe Targets Interfaces. <i>Physics Magazine</i> , 2018, 11, .	0.1	0
36	Atom-specific activation in CO oxidation. <i>Journal of Chemical Physics</i> , 2018, 149, 234707.	3.0	2

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37	Coherent X-rays reveal the influence of cage effects on ultrafast water dynamics. <i>Nature Communications</i> , 2018, 9, 1917.	12.8	59
38	Response to Comment on "Maxima in the thermodynamic response and correlation functions of deeply supercooled water". <i>Science</i> , 2018, 360, .	12.6	25
39	X-ray Scattering and O-H Pair-Distribution Functions of Amorphous Ices. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7616-7624.	2.6	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. <i>Journal of Physical Chemistry B</i> , 2018, 122, 878-887.	2.6	59
41	Catalysis in real time using X-ray lasers. <i>Chemical Physics Letters</i> , 2017, 675, 145-173.	2.6	45
42	Subsurface Oxygen in Oxide-Derived Copper Electrocatalysts for Carbon Dioxide Reduction. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 285-290.	4.6	332
43	Stability and Effects of Subsurface Oxygen in Oxide-Derived Cu Catalyst for CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25010-25017.	3.1	92
44	Nature and Distribution of Stable Subsurface Oxygen in Copper Electrodes During Electrochemical CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25003-25009.	3.1	98
45	Correction: Retraction: Transferring electrons to water. <i>Nature Chemistry</i> , 2017, 9, 828-828.	13.6	0
46	Real-Time Elucidation of Catalytic Pathways in CO Hydrogenation on Ru. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3820-3825.	4.6	9
47	Modelling pH and potential in dynamic structures of the water/Pt(111) interface on the atomic scale. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23505-23514.	2.8	48
48	Temperature-Independent Nuclear Quantum Effects on the Structure of Water. <i>Physical Review Letters</i> , 2017, 119, 075502.	7.8	26
49	Probing the OH Stretch in Different Local Environments in Liquid Water. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5487-5491.	4.6	30
50	Diffusive dynamics during the high-to-low density transition in amorphous ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8193-8198.	7.1	155
51	How Cubic Can Ice Be?. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3216-3222.	4.6	46
52	Maxima in the thermodynamic response and correlation functions of deeply supercooled water. <i>Science</i> , 2017, 358, 1589-1593.	12.6	270
53	Water "The Most Anomalous Liquid. <i>Chemical Reviews</i> , 2016, 116, 7459-7462.	47.7	124
54	Electroreduction of Carbon Monoxide Over a Copper Nanocube Catalyst: Surface Structure and pH Dependence on Selectivity. <i>ChemCatChem</i> , 2016, 8, 1119-1124.	3.7	76

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55	The structural validity of various thermodynamical models of supercooled water. Journal of Chemical Physics, 2016, 145, 134507.	3.0	41
56	Evaporative cooling of microscopic water droplets <i>in vacuo</i> : Molecular dynamics simulations and kinetic gas theory. Journal of Chemical Physics, 2016, 144, 124502.	3.0	22
57	The temperature dependence of intermediate range oxygen-oxygen correlations in liquid water. Journal of Chemical Physics, 2016, 145, 084503.	3.0	33
58	X-ray and Neutron Scattering of Water. Chemical Reviews, 2016, 116, 7570-7589.	47.7	170
59	Formation of Copper Catalysts for CO ₂ 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
60	Operando X-Ray Photoelectron Spectroscopy Studies of Aqueous Electrocatalytic Systems. Topics in Catalysis, 2016, 59, 439-447.	2.8	23
61	Chemical Bond Activation Observed with an X-ray Laser. Journal of Physical Chemistry Letters, 2016, 7, 3647-3651.	4.6	21
62	Operando Analyses of Solar Fuels Light Absorbers and Catalysts. Electrochimica Acta, 2016, 211, 711-719.	5.2	23
63	Probing the nanoscale structure of the catalytically active overlayer on Pt alloys with rare earths. Nano Energy, 2016, 29, 249-260.	16.0	49
64	X-ray and Electron Spectroscopy of Water. Chemical Reviews, 2016, 116, 7551-7569.	47.7	143
65	Probing water with X-ray lasers. Advances in Physics: X, 2016, 1, 226-245.	4.1	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.	1.9	23
67	Pt Gd alloy formation on Pt(111): Preparation and structural characterization. Surface Science, 2016, 652, 114-122.	1.9	16
68	Ambient-Pressure XPS Study of a Ni ²⁺ /Fe Electrocatalyst for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 2247-2253.	3.1	336
69	THz-Pulse-Induced Selective Catalytic CO Oxidation on Ru. Physical Review Letters, 2015, 115, 036103.	7.8	46
70	Indication of non-thermal contribution to visible femtosecond laser-induced CO oxidation on Ru(0001). Journal of Chemical Physics, 2015, 143, 074701.	3.0	14
71	Vacuum space charge effects in sub-picosecond soft X-ray photoemission on a molecular adsorbate layer. Structural Dynamics, 2015, 2, 025101.	2.3	27
72	The enhanced activity of mass-selected Pt Gd nanoparticles for oxygen electroreduction. Journal of Catalysis, 2015, 328, 297-307.	6.2	83

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73	From the Sabatier principle to a predictive theory of transition-metal heterogeneous catalysis. <i>Journal of Catalysis</i> , 2015, 328, 36-42.	6.2	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. <i>Surface Science</i> , 2015, 640, 80-88.	1.9	13
75	High Selectivity for Ethylene from Carbon Dioxide Reduction over Copper Nanocube Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5179-5182.	13.8	429
76	The structural origin of anomalous properties of liquid water. <i>Nature Communications</i> , 2015, 6, 8998.	12.8	373
77	Probing the transition state region in catalytic CO oxidation on Ru. <i>Science</i> , 2015, 347, 978-982.	12.6	193
78	Long-range ion-water and ion-ion interactions in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8427-8430.	2.8	15
79	Identification of Highly Active Fe Sites in (Ni,Fe)OOH for Electrocatalytic Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 1305-1313.	13.7	2,018
80	Anomalous Behavior of the Homogeneous Ice Nucleation Rate in α -No-Man's Land. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2826-2832.	4.6	102
81	Low Barrier Carbon Induced CO Dissociation on Stepped Cu. <i>Physical Review Letters</i> , 2015, 114, 246101.	7.8	8
82	Strong Influence of Coadsorbate Interaction on CO Desorption Dynamics on Ru(0001) Probed by Ultrafast X-Ray Spectroscopy and Ab Initio Simulations. <i>Physical Review Letters</i> , 2015, 114, 156101.	7.8	25
83	Direct observation of the dealloying process of a platinum-yttrium nanoparticle fuel cell cathode and its oxygenated species during the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28121-28128.	2.8	54
84	X-ray emission spectroscopy of bulk liquid water in α -no-man's land. <i>Journal of Chemical Physics</i> , 2015, 142, 044505.	3.0	32
85	The structure of water; from ambient to deeply supercooled. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 399-417.	3.1	51
86	Determination of the surface electronic structure of Fe ₃ O ₄ (1 1 1) by soft X-ray spectroscopy. <i>Catalysis Today</i> , 2015, 240, 184-189.	4.4	20
87	Comparison of x-ray absorption spectra between water and ice: New ice data with low pre-edge absorption cross-section. <i>Journal of Chemical Physics</i> , 2014, 141, 034507.	3.0	60
88	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29252-29259.	3.1	87
89	Reabsorption of Soft X-Ray Emission at High X-Ray Free-Electron Laser Fluences. <i>Physical Review Letters</i> , 2014, 113, 153002.	7.8	33
90	A Molecular Perspective on the d-Band Model: Synergy Between Experiment and Theory. <i>Topics in Catalysis</i> , 2014, 57, 2-13.	2.8	90

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91	JCAP Research on Solar Fuel Production at Light Sources. <i>Synchrotron Radiation News</i> , 2014, 27, 14-17.	0.8	26
92	In situ Observation of Surface Species on Iridium Oxide Nanoparticles during the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7169-7172.	13.8	386
93	Structure, Redox Chemistry, and Interfacial Alloy Formation in Monolayer and Multilayer Cu/Au(111) Model Catalysts for CO ₂ Electroreduction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7954-7961.	3.1	68
94	Preparation, Structure, and Orientation of Pyrite FeS ₂ {100} Surfaces: Anisotropy, Sulfur Monomers, Dimer Vacancies, and a Possible FeS Surface Phase. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21896-21903.	3.1	28
95	Mass-selected nanoparticles of Pt _x Y as model catalysts for oxygen electroreduction. <i>Nature Chemistry</i> , 2014, 6, 732-738.	13.6	298
96	Ultrafast X-ray probing of water structure below the homogeneous ice nucleation temperature. <i>Nature</i> , 2014, 510, 381-384.	27.8	385
97	A different view of structure-making and structure-breaking in alkali halide aqueous solutions through x-ray absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 244506.	3.0	70
98	Different Reactivity of the Various Platinum Oxides and Chemisorbed Oxygen in CO Oxidation on Pt(111). <i>Journal of the American Chemical Society</i> , 2014, 136, 6340-6347.	13.7	71
99	Highly Compressed Two-Dimensional Form of Water at Ambient Conditions. <i>Scientific Reports</i> , 2013, 3, 1074.	3.3	31
100	X-ray Photoemission and Density Functional Theory Study of the Interaction of Water Vapor with the Fe ₃ O ₄ (001) Surface at Near-Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2719-2733.	3.1	92
101	Interlayer Carbon Bond Formation Induced by Hydrogen Adsorption in Few-Layer Supported Graphene. <i>Physical Review Letters</i> , 2013, 111, 085503.	7.8	110
102	Stability of Pt-Modified Cu(111) in the Presence of Oxygen and Its Implication on the Overall Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16371-16380.	3.1	5
103	Resonant inelastic X-ray scattering of liquid water. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 188, 84-100.	1.7	45
104	Direct observation of the oxygenated species during oxygen reduction on a platinum fuel cell cathode. <i>Nature Communications</i> , 2013, 4, .	12.8	325
105	On the chemical state of Co oxide electrocatalysts during alkaline water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17460.	2.8	89
106	Ambient-pressure photoelectron spectroscopy for heterogeneous catalysis and electrochemistry. <i>Catalysis Today</i> , 2013, 205, 101-105.	4.4	103
107	Ultrafast soft X-ray emission spectroscopy of surface adsorbates using an X-ray free electron laser. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 187, 9-14.	1.7	27
108	Comment on "Using Photoelectron Spectroscopy and Quantum Mechanics to Determine d-Band Energies of Metals for Catalytic Applications". <i>Journal of Physical Chemistry C</i> , 2013, 117, 6914-6915.	3.1	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. <i>Journal of Chemical Physics</i> , 2013, 138, 074506.	3.0	407
110	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. <i>Science</i> , 2013, 339, 1302-1305.	12.6	179
111	The Electronic States of Rhenium Bipyridyl Electrocatalysts for CO ₂ Reduction as Revealed by X-ray Absorption Spectroscopy and Computational Quantum Chemistry. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4841-4844.	13.8	119
112	Electronic structure effects in catalysis probed by X-ray and electron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 113-124.	1.7	13
113	Identification of the electronic structure differences between polar isostructural FeO and CoO films by core-level soft x-ray spectroscopy. <i>Physical Review B</i> , 2013, 87, .	3.2	2
114	Solvation structures of protons and hydroxide ions in water. <i>Journal of Chemical Physics</i> , 2013, 138, 154506.	3.0	19
115	Unique water-water coordination tailored by a metal surface. <i>Journal of Chemical Physics</i> , 2013, 138, 234708.	3.0	1
116	Selective Probing of the OH or OD Stretch Vibration in Liquid Water Using Resonant Inelastic Soft-X-Ray Scattering. <i>Physical Review Letters</i> , 2013, 111, 193001.	7.8	90
117	Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). <i>Physical Review Letters</i> , 2013, 110, 186101.	7.8	51
118	Microscopic probing of the size dependence in hydrophobic solvation. <i>Journal of Chemical Physics</i> , 2012, 136, 074507.	3.0	30
119	Polarization dependent resonant x-ray emission spectroscopy of D2O and H2O water: Assignment of the local molecular orbital symmetry. <i>Journal of Chemical Physics</i> , 2012, 136, 044517.	3.0	42
120	Probing substrate effects in the carbon-projected band structure of graphene on Pt(111) through resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2012, 85, .	3.2	27
121	Electrochemical Oxidation of Size-Selected Pt Nanoparticles Studied Using in Situ High-Energy-Resolution X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2012, 2, 2371-2376.	11.2	105
122	Balance of Nanostructure and Bimetallic Interactions in Pt Model Fuel Cell Catalysts: In Situ XAS and DFT Study. <i>Journal of the American Chemical Society</i> , 2012, 134, 9664-9671.	13.7	117
123	Fluctuations in ambient water. <i>Journal of Molecular Liquids</i> , 2012, 176, 2-16.	4.9	86
124	Reversible graphene-metal contact through hydrogenation. <i>Physical Review B</i> , 2012, 86, .	3.2	28
125	Tuning the Metal-Adsorbate Chemical Bond through the Ligand Effect on Platinum Subsurface Alloys. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7724-7728.	13.8	15
126	In situ X-ray probing reveals fingerprints of surface platinum oxide. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 262-266.	2.8	110

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127	Spatially inhomogeneous bimodal inherent structure of simulated liquid water. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19918.	2.8	136
128	Enhanced small-angle scattering connected to the Widom line in simulations of supercooled water. <i>Journal of Chemical Physics</i> , 2011, 134, 214506.	3.0	67
129	Autocatalytic Surface Hydroxylation of MgO(100) Terrace Sites Observed under Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12864-12872.	3.1	71
130	Ab Initio van der Waals Interactions in Simulations of Water Alter Structure from Mainly Tetrahedral to High-Density-Like. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14149-14160.	2.6	83
131	Hydrogen Spillover in Pt-Single-Walled Carbon Nanotube Composites: Formation of Stable C-H Bonds. <i>Journal of the American Chemical Society</i> , 2011, 133, 5580-5586.	13.7	93
132	Wide-angle X-ray diffraction and molecular dynamics study of medium-range order in ambient and hot water. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19997.	2.8	63
133	The structure of water in the hydration shell of cations from x-ray Raman and small angle x-ray scattering measurements. <i>Journal of Chemical Physics</i> , 2011, 134, 064513.	3.0	111
134	Increased fraction of low-density structures in aqueous solutions of fluoride. <i>Journal of Chemical Physics</i> , 2011, 134, 224507.	3.0	18
135	Perspective on the structure of liquid water. <i>Chemical Physics</i> , 2011, 389, 1-34.	1.9	289
136	Degradation of Bimetallic Model Electrocatalysts: An In Situ X-ray Absorption Spectroscopy Study. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10190-10192.	13.8	50
137	Formation of hydroxyl and water layers on MgO films studied with ambient pressure XPS. <i>Surface Science</i> , 2011, 605, 89-94.	1.9	130
138	Oxidation of Pt(111) under Near-Ambient Conditions. <i>Physical Review Letters</i> , 2011, 107, 195502.	7.8	151
139	Vibrational interference effects in x-ray emission of a model water dimer: Implications for the interpretation of the liquid spectrum. <i>Journal of Chemical Physics</i> , 2011, 134, 044513.	3.0	46
140	X-ray Raman scattering provides evidence for interfacial acetonitrile-water dipole interactions in aqueous solutions. <i>Journal of Chemical Physics</i> , 2011, 135, 164509.	3.0	19
141	Theoretical approximations to X-ray absorption spectroscopy of liquid water and ice. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 177, 135-157.	1.7	132
142	X-ray absorption spectroscopy and X-ray Raman scattering of water and ice; an experimental view. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 177, 99-129.	1.7	158
143	High resolution X-ray emission spectroscopy of water and its assignment based on two structural motifs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 177, 192-205.	1.7	100
144	Chemical bonding of water to metal surfaces studied with core-level spectroscopies. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 177, 85-98.	1.7	55

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145	Lattice-strain control of the activity in dealloyed core-shell fuel cell catalysts. <i>Nature Chemistry</i> , 2010, 2, 454-460.	13.6	2,489
146	Transferring electrons to water. <i>Nature Chemistry</i> , 2010, 2, 800-802.	13.6	5
147	Semiclassical description of nuclear dynamics in x-ray emission of water. <i>Physical Review B</i> , 2010, 82, .	3.2	34
148	Reply to Soper et al.: Fluctuations in water around a bimodal distribution of local hydrogen-bonded structural motifs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, .	7.1	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. <i>Journal of Chemical Physics</i> , 2010, 132, 104513.	3.0	37
150	Spectroscopic Identification of a Hydrogen Peroxide-Like Intermediate Formed after Molecular Oxygen Adsorption on Hydrogen Rich Pt(111). <i>ECS Transactions</i> , 2010, 33, 97-103.	0.5	0
151	The role of substrate electrons in the wetting of a metal surface. <i>Journal of Chemical Physics</i> , 2010, 132, 094701.	3.0	39
152	Low O ₂ dissociation barrier on Pt(111) due to adsorbate-adsorbate interactions. <i>Journal of Chemical Physics</i> , 2010, 133, 224701.	3.0	49
153	Increasing correlation length in bulk supercooled H ₂ O, D ₂ O, and NaCl solution determined from small angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2010, 133, 134504.	3.0	84
154	Direct Interaction of Water Ice with Hydrophobic Methyl-Terminated Si(111). <i>Journal of Physical Chemistry C</i> , 2010, 114, 19004-19008.	3.1	7
155	Water Adsorption on $\hat{\pm}\text{Fe}_{2}\text{O}_{3}(0001)$ at near Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2256-2266.	3.1	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. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10240-10248.	3.1	51
158	Peroxide-like intermediate observed at hydrogen rich condition on Pt(111) after interaction with oxygen. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5712.	2.8	15
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