Dennis L Nordlund

List of Publications by Year
in descending order

318 papers	27,400 citations	7551 77 h-index	6818 155 g-index
324 all docs	324 docs citations	324 times ranked	32799 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.	6.6	2,489
2	Janus monolayers of transition metal dichalcogenides. Nature Nanotechnology, 2017, 12, 744-749.	15.6	1,459
3	The Structure of the First Coordination Shell in Liquid Water. Science, 2004, 304, 995-999.	6.0	1,287
4	Ultra-high mobility transparent organic thin film transistors grown by an off-centre spin-coating method. Nature Communications, 2014, 5, 3005.	5.8	1,155
5	Surface reconstruction and chemical evolution of stoichiometric layered cathode materials for lithium-ion batteries. Nature Communications, 2014, 5, 3529.	5.8	1,118
6	Visualizing Individual Nitrogen Dopants in Monolayer Graphene. Science, 2011, 333, 999-1003.	6.0	774
7	P3HT/PCBM Bulk Heterojunction Organic Photovoltaics: Correlating Efficiency and Morphology. Nano Letters, 2011, 11, 561-567.	4.5	559
8	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
9	Structure and Bonding of Water on Pt(111). Physical Review Letters, 2002, 89, 276102.	2.9	512
10	Connecting Dopant Bond Type with Electronic Structure in N-Doped Graphene. Nano Letters, 2012, 12, 4025-4031.	4.5	471
11	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	23.0	390
12	Ultrafast X-ray probing of water structure below the homogeneous ice nucleation temperature. Nature, 2014, 510, 381-384.	13.7	385
13	Dendritic core-shell nickel-iron-copper metal/metal oxide electrode for efficient electrocatalytic water oxidation. Nature Communications, 2018, 9, 381.	5.8	322
14	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2018, 140, 7851-7859.	6.6	310
15	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. Journal of the American Chemical Society, 2018, 140, 10504-10513.	6.6	303
16	Metalâ€“oxygen decoordination stabilizes anion redox in Li-rich oxides. Nature Materials, 2019, 18, 256-265.	13.3	280
17	Identifying Dense NiSe₂/CoSe₂ Heterointerfaces Coupled with Surface Highâ€Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. Advanced Materials, 2020, 32, e2000607.	11.1	251
18	Orbital-specific mapping of the ligand exchange dynamics of Fe(CO)5 in solution. Nature, 2015, 520, 78-81.	13.7	247

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19	Elucidating anionic oxygen activity in lithium-rich layered oxides. Nature Communications, 2018, 9, 947.	5.8	241
20	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. Nano Letters, 2018, 18, 3241-3249.	4.5	237
21	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 311-317.	3.2	236
22	Metal segregation in hierarchically structured cathode materials for high-energy lithiumÂbatteries. Nature Energy, 2016, 1, .	19.8	209
23	Understanding Interactions between Manganese Oxide and Gold That Lead to Enhanced Activity for Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2014, 136, 4920-4926.	6.6	205
24	Enabling Stable Cycling of 4.2 V Highâ€Voltage Allâ€Solidâ€State Batteries with PEOâ€Based Solid Electrolyte. Advanced Functional Materials, 2020, 30, 1909392.	7.8	204
25	Probing the transition state region in catalytic CO oxidation on Ru. Science, 2015, 347, 978-982.	6.0	193
26	Mn₃O₄ Supported on Glassy Carbon: An Active Non-Precious Metal Catalyst for the Oxygen Reduction Reaction. ACS Catalysis, 2012, 2, 2687-2694.	5.5	192
27	Local Atomic and Electronic Structure of Boron Chemical Doping in Monolayer Graphene. Nano Letters, 2013, 13, 4659-4665.	4.5	192
28	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. Science, 2013, 339, 1302-1305.	6.0	179
29	Direct Observation of Reversible Magnesium Ion Intercalation into a Spinel Oxide Host. Advanced Materials, 2015, 27, 3377-3384.	11.1	178
30	Profiling the nanoscale gradient in stoichiometric layered cathode particles for lithium-ion batteries. Energy and Environmental Science, 2014, 7, 3077.	15.6	170
31	Fully Oxidized Niâ€“Fe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. ACS Catalysis, 2019, 9, 6027-6032.	5.5	165
32	Phase evolution for conversion reaction electrodes in lithium-ion batteries. Nature Communications, 2014, 5, 3358.	5.8	163
33	Influence of Dopant Distribution on the Plasmonic Properties of Indium Tin Oxide Nanocrystals. Journal of the American Chemical Society, 2014, 136, 7110-7116.	6.6	160
34	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
35	Development of a reactor with carbon catalysts for modular-scale, low-cost electrochemical generation of H₂O₂. Reaction Chemistry and Engineering, 2017, 2, 239-245.	1.9	157
36	Strontium Insertion in Methylammonium Lead Iodide: Long Charge Carrier Lifetime and High Fillâ€Factor Solar Cells. Advanced Materials, 2016, 28, 9839-9845.	11.1	150

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37	Understanding the Origin of Highly Selective CO₂ Electroreduction to CO on Ni,Nâ€doped Carbon Catalysts. Angewandte Chemie - International Edition, 2020, 59, 4043-4050.	7.2	148
38	Charge Heterogeneity and Surface Chemistry in Polycrystalline Cathode Materials. Joule, 2018, 2, 464-477.	11.7	145
39	Understanding the Degradation Mechanism of Lithium Nickel Oxide Cathodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 31677-31683.	4.0	144
40	The Myth of d⁸ Copper(III). Journal of the American Chemical Society, 2019, 141, 18508-18520.	6.6	139
41	Phase Transformation and Lithiation Effect on Electronic Structure of Li_xFePO₄: An In-Depth Study by Soft X-ray and Simulations. Journal of the American Chemical Society, 2012, 134, 13708-13715.	6.6	136
42	Control of Doping in Cu₂SnS₃ through Defects and Alloying. Chemistry of Materials, 2014, 26, 4951-4959.	3.2	136
43	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. Communications Physics, 2018, 1, .	2.0	135
44	A seven-crystal Johann-type hard x-ray spectrometer at the Stanford Synchrotron Radiation Lightsource. Review of Scientific Instruments, 2013, 84, 053102.	0.6	132
45	Synthesis of a copper-supported triplet nitrene complex pertinent to copper-catalyzed amination. Science, 2019, 365, 1138-1143.	6.0	131
46	A multi-crystal wavelength dispersive x-ray spectrometer. Review of Scientific Instruments, 2012, 83, 073114.	0.6	130
47	Tunable Polyanilineâ€Based Porous Carbon with Ultrahigh Surface Area for CO₂ Capture at Elevated Pressure. Advanced Energy Materials, 2016, 6, 1502491.	10.2	129
48	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. Nature Communications, 2020, 11, 83.	5.8	129
49	Depth-Dependent Redox Behavior of LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂. Journal of the Electrochemical Society, 2018, 165, A696-A704.	1.3	123
50	Sodiation Kinetics of Metal Oxide Conversion Electrodes: A Comparative Study with Lithiation. Nano Letters, 2015, 15, 5755-5763.	4.5	122
51	Ultrafast Core-Hole-Induced Dynamics in Water Probed by X-Ray Emission Spectroscopy. Physical Review Letters, 2005, 94, 227401.	2.9	117
52	Probing the Electron Delocalization in Liquid Water and Ice at Attosecond Time Scales. Physical Review Letters, 2007, 99, 217406.	2.9	117
53	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
54	Imaging chiral symmetry breaking from KekulÃ© bond order in graphene. Nature Physics, 2016, 12, 950-958.	6.5	111

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55	Deciphering the Cathodeâ€“Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. Advanced Energy Materials, 2018, 8, 1801975.	10.2	111
56	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. Chemistry of Materials, 2019, 31, 9769-9776.	3.2	110
57	Hole Doping in Al-Containing Nickel Oxide Materials To Improve Electrochromic Performance. ACS Applied Materials & Interfaces, 2013, 5, 301-309.	4.0	109
58	Revealing and suppressing surface Mn(II) formation of Na0.44MnO2 electrodes for Na-ion batteries. Nano Energy, 2015, 16, 186-195.	8.2	107
59	An Oxygenâ€Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenumâ€Based Layer for Overall Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 5780-5784.	7.2	106
60	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
61	Comparison of Coal-Derived and Petroleum Asphaltenes by ¹³C Nuclear Magnetic Resonance, DEPT, and XRS. Energy & Fuels, 2011, 25, 3068-3076.	2.5	103
62	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
63	Transitions from Near-Surface to Interior Redox upon Lithiation in Conversion Electrode Materials. Nano Letters, 2015, 15, 1437-1444.	4.5	97
64	Half or full core hole in density functional theory X-ray absorption spectrum calculations of water?. Physical Chemistry Chemical Physics, 2005, 7, 2854.	1.3	96
65	Revealing the Dynamics and Roles of Iron Incorporation in Nickel Hydroxide Water Oxidation Catalysts. Journal of the American Chemical Society, 2021, 143, 18519-18526.	6.6	96
66	Multiconfigurational nature of 5f orbitals in uranium and plutonium intermetallics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10205-10209.	3.3	94
67	Reâ€evaluating the Role of Sterics and Electronic Coupling in Determining the Openâ€Circuit Voltage of Organic Solar Cells. Advanced Materials, 2013, 25, 6076-6082.	11.1	90
68	On the chemical state of Co oxide electrocatalysts during alkaline water splitting. Physical Chemistry Chemical Physics, 2013, 15, 17460.	1.3	89
69	Enhancement Effect of Noble Metals on Manganese Oxide for the Oxygen Evolution Reaction. Journal of Physical Chemistry Letters, 2015, 6, 4178-4183.	2.1	89
70	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. Joule, 2020, 4, 673-687.	11.7	88
71	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.	0.8	84
72	Interplay between Energetic and Kinetic Factors on the Ambient Stability of n-Channel Organic Transistors Based on Perylene Diimide Derivatives. Chemistry of Materials, 2009, 21, 5508-5518.	3.2	84

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73	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
74	Linac Coherent Light Source soft x-ray materials science instrument optical design and monochromator commissioning. Review of Scientific Instruments, 2011, 82, 093104.	0.6	83
75	A high resolution and large solid angle x-ray Raman spectroscopy end-station at the Stanford Synchrotron Radiation Lightsource. Review of Scientific Instruments, 2012, 83, 043112.	0.6	81
76	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2019, 11, 26863-26871.	4.0	81
77	The hydrogen bond in ice probed by soft x-ray spectroscopy and density functional theory. Journal of Chemical Physics, 2005, 122, 154505.	1.2	79
78	X-ray Absorption Study of Graphene Oxide and Transition Metal Oxide Nanocomposites. Journal of Physical Chemistry C, 2014, 118, 18706-18712.	1.5	79
79	Atomic-Scale Perspective of Ultrafast Charge Transfer at a Dyeâ€“Semiconductor Interface. Journal of Physical Chemistry Letters, 2014, 5, 2753-2759.	2.1	79
80	In situ crystallization of high performing WO3-based electrochromic materials and the importance for durability and switching kinetics. Journal of Materials Chemistry, 2012, 22, 16817.	6.7	77
81	Metalâ€“Ligand Covalency of Iron Complexes from High-Resolution Resonant Inelastic X-ray Scattering. Journal of the American Chemical Society, 2013, 135, 17121-17134.	6.6	75
82	Structural and Electrochemical Impacts of Mg/Mn Dual Dopants on the LiNiO₂ Cathode in Li-Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 12874-12882.	4.0	75
83	Origin of Electrochromism in High-Performing Nanocomposite Nickel Oxide. ACS Applied Materials & Interfaces, 2013, 5, 3643-3649.	4.0	73
84	Ultrafast Molecular Dissociation of Water in Ice. Physical Review Letters, 2004, 93, 148302.	2.9	71
85	Probing the hydrogen-bond network of water via time-resolved soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2009, 11, 3951.	1.3	71
86	A setup for resonant inelastic soft x-ray scattering on liquids at free electron laser light sources. Review of Scientific Instruments, 2012, 83, 123109.	0.6	70
87	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
88	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
89	Ni5Ga3 catalysts for CO2 reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. Applied Catalysis B: Environmental, 2020, 267, 118369.	10.8	68
90	Spontaneous incorporation of gold in palladium-based ternary nanoparticles makes durable electrocatalysts for oxygen reduction reaction. Nature Communications, 2016, 7, 11941.	5.8	67

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91	Surface structure of thin ice films. Chemical Physics Letters, 2004, 395, 161-165.	1.2	66
92	L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser. Journal of Physical Chemistry Letters, 2013, 4, 3641-3647.	2.1	64
93	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. Physical Review Letters, 2018, 120, 023901.	2.9	64
94	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
95	Experimental and Computational X-ray Emission Spectroscopy as a Direct Probe of Protonation States in Oxo-Bridged Mn^{IV} Dimers Relevant to Redox-Active Metalloproteins. Inorganic Chemistry, 2013, 52, 12915-12922.	1.9	62
96	Elucidation of the surface characteristics and electrochemistry of high-performance LiNiO₂. Chemical Communications, 2016, 52, 4239-4242.	2.2	62
97	Electronic structure effects in liquid water studied by photoelectron spectroscopy and density functional theory. Chemical Physics Letters, 2008, 460, 86-92.	1.2	61
98	Orientation of Phenylphosphonic Acid Self-Assembled Monolayers on a Transparent Conductive Oxide: A Combined NEXAFS, PM-IRRAS, and DFT Study. Langmuir, 2013, 29, 2166-2174.	1.6	61
99	Absolute pulse energy measurements of soft x-rays at the Linac Coherent Light Source. Optics Express, 2014, 22, 21214.	1.7	61
100	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
101	Effect of Backbone Chemistry on the Structure of Polyurea Films Deposited by Molecular Layer Deposition. Chemistry of Materials, 2017, 29, 1192-1203.	3.2	59
102	Coherent X-rays reveal the influence of cage effects on ultrafast water dynamics. Nature Communications, 2018, 9, 1917.	5.8	59
103	Plasma jet printing for flexible substrates. Applied Physics Letters, 2016, 108, .	1.5	58
104	Covalency in Metalâ€“Oxygen Multiple Bonds Evaluated Using Oxygen K-edge Spectroscopy and Electronic Structure Theory. Journal of the American Chemical Society, 2013, 135, 1864-1871.	6.6	57
105	Revealing Anisotropic Spinel Formation on Pristine Liâ€•and Mnâ€Rich Layered Oxide Surface and Its Impact on Cathode Performance. Advanced Energy Materials, 2017, 7, 1602010.	10.2	57
106	Chemical and Morphological Control of Interfacial Selfâ€Ðoping for Efficient Organic Electronics. Advanced Materials, 2018, 30, e1705976.	11.1	55
107	Surface Structure of Aerobically Oxidized Diamond Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 26695-26702.	1.5	54
108	Atomistic Interrogation of Bâ€“N Co-dopant Structures and Their Electronic Effects in Graphene. ACS Nano, 2016, 10, 6574-6584.	7.3	53

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109	Persistent organic matter in oxic subseafloor sediment. Nature Geoscience, 2019, 12, 126-131.	5.4	53
110	Why LiFePO₄is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. Physical Chemistry Chemical Physics, 2015, 17, 26369-26377.	1.3	52
111	Ultrafast Electron Transfer at Organic Semiconductor Interfaces: Importance of Molecular Orientation. Journal of Physical Chemistry Letters, 2015, 6, 6-12.	2.1	52
112	Accelerated Evolution of Surface Chemistry Determined by Temperature and Cycling History in Nickel-Rich Layered Cathode Materials. ACS Applied Materials & Interfaces, 2018, 10, 23842-23850.	4.0	52
113	Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). Physical Review Letters, 2013, 110, 186101.	2.9	51
114	Degradation of Bimetallic Model Electrocatalysts: An In Situ Xâ€Ray Absorption Spectroscopy Study. Angewandte Chemie - International Edition, 2011, 50, 10190-10192.	7.2	50
115	Hydrogen-bond induced surface core-level shift in pyridine carboxylic acids. Surface Science, 2001, 486, 157-166.	0.8	49
116	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, .	1.1	49
117	Identification of the dominant photochemical pathways and mechanistic insights to the ultrafast ligand exchange of Fe(CO)5 to Fe(CO)4EtOH. Structural Dynamics, 2016, 3, 043204.	0.9	48
118	Multi-vendor, multicentre comparison of contrast-enhanced SSFP and T2-STIR CMR for determining myocardium at risk in ST-elevation myocardial infarction. European Heart Journal Cardiovascular Imaging, 2016, 17, 744-753.	0.5	47
119	Biogenic manganese oxides as reservoirs of organic carbon and proteins in terrestrial and marine environments. Geobiology, 2017, 15, 158-172.	1.1	47
120	Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. Journal of the American Chemical Society, 2019, 141, 12079-12086.	6.6	47
121	Creating compressive stress at the NiOOH/NiO interface for water oxidation. Journal of Materials Chemistry A, 2020, 8, 10747-10754.	5.2	47
122	Xâ€Ray Spectroscopic Investigation of Chlorinated Graphene: Surface Structure and Electronic Effects. Advanced Functional Materials, 2015, 25, 4163-4169.	7.8	46
123	Auger decay calculations with core-hole excited-state molecular-dynamics simulations of water. Journal of Chemical Physics, 2006, 124, 064307.	1.2	45
124	Sequential Deposition: Optimization of Solvent Swelling for High-Performance Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 653-661.	4.0	45
125	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. Energy and Environmental Science, 2018, 11, 2496-2508.	15.6	45
126	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. Materials Today, 2020, 35, 87-98.	8.3	45

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127	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
128	Applications of ALD MnO to electrochemical water splitting. Physical Chemistry Chemical Physics, 2015, 17, 14003-14011.	1.3	44
129	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. Chemistry of Materials, 2017, 29, 2141-2149.	3.2	44
130	Investigating the Intercalation Chemistry of Alkali Ions in Fluoride Perovskites. Chemistry of Materials, 2017, 29, 1561-1568.	3.2	44
131	Operando Tailoring of Defects and Strains in Corrugated Î²â€Ni(OH)₂ Nanosheets for Stable and Highâ€Rate Energy Storage. Advanced Materials, 2021, 33, e2006147.	11.1	44
132	Influence of synthesis conditions on the surface passivation and electrochemical behavior of layered cathode materials. Journal of Materials Chemistry A, 2014, 2, 19833-19840.	5.2	43
133	Finite temperature effects on the X-ray absorption spectra of lithium compounds: First-principles interpretation of X-ray Raman measurements. Journal of Chemical Physics, 2014, 140, 034107.	1.2	43
134	Oxidation and crystal field effects in uranium. Physical Review B, 2015, 92, .	1.1	43
135	Correlation between sp³-to-sp² Ratio and Surface Oxygen Functionalities in Tetrahedral Amorphous Carbon (ta-C) Thin Film Electrodes and Implications of Their Electrochemical Properties. Journal of Physical Chemistry C, 2016, 120, 8298-8304.	1.5	43
136	Tuning Complex Transition Metal Hydroxide Nanostructures as Active Catalysts for Water Oxidation by a Laserâ€“Chemical Route. Nano Letters, 2015, 15, 2498-2503.	4.5	42
137	Disentangling Transient Charge Density and Metalâ€“Ligand Covalency in Photoexcited Ferricyanide with Femtosecond Resonant Inelastic Soft X-ray Scattering. Journal of Physical Chemistry Letters, 2018, 9, 3538-3543.	2.1	42
138	Orbital rehybridization in n-octane adsorbed on Cu(110). Journal of Chemical Physics, 2003, 118, 3782-3789.	1.2	41
139	Thermally-driven mesopore formation and oxygen release in delithiated NCA cathode particles. Journal of Materials Chemistry A, 2019, 7, 12593-12603.	5.2	41
140	Unveiling the critical role of the Mn dopant in a NiFe(OH)₂ catalyst for water oxidation. Journal of Materials Chemistry A, 2020, 8, 17471-17476.	5.2	41
141	The sensitive surface chemistry of Co-free, Ni-rich layered oxides: identifying experimental conditions that influence characterization results. Journal of Materials Chemistry A, 2020, 8, 17487-17497.	5.2	41
142	Competing Effects of Fluorination on the Orientation of Aromatic and Aliphatic Phosphonic Acid Monolayers on Indium Tin Oxide. Journal of Physical Chemistry C, 2013, 117, 15139-15147.	1.5	40
143	Soft X-ray spectroscopy with transition-edge sensors at Stanford Synchrotron Radiation Lightsource beamline 10-1. Review of Scientific Instruments, 2019, 90, 113101.	0.6	40
144	Possible Bose-condensate behavior in a quantum phase originating in a collective excitation in the chemically and optically doped Mott-Hubbard system UO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	39

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145	Structural changes correlated with magnetic spin state isomorphism in the S₂ state of the Mn₄CaO₅ cluster in the oxygen-evolving complex of photosystem II. Chemical Science, 2016, 7, 5236-5248.	3.7	39
146	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. Electrochimica Acta, 2017, 230, 22-28.	2.6	39
147	Surface Characterization of Polythiophene:Fullerene Blends on Different Electrodes Using Near Edge X-ray Absorption Fine Structure. ACS Applied Materials & Interfaces, 2011, 3, 726-732.	4.0	38
148	Beyond Divalent Copper: A Redox Couple for Sodium Ion Battery Cathode Materials. ECS Electrochemistry Letters, 2015, 4, A41-A44.	1.9	38
149	Thermally driven mesoscale chemomechanical interplay in Li_{0.5}Ni_{0.6}Mn_{0.2}Co_{0.2}O₂ cathode materials. Journal of Materials Chemistry A, 2018, 6, 23055-23061.	5.2	38
150	Delocalization and occupancy effects of 5f orbitals in plutonium intermetallics using L3-edge resonant X-ray emission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2014, 194, 57-65.	0.8	37
151	Interface Trap Density Reduction for Al₂O₃/GaN (0001) Interfaces by Oxidizing Surface Preparation prior to Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2015, 7, 12774-12780.	4.0	37
152	Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating. Advanced Functional Materials, 2017, 27, 1602873.	7.8	37
153	Sensitivity of X-ray Core Spectroscopy to Changes in Metal Ligation: A Systematic Study of Low-Coordinate, High-Spin Ferrous Complexes. Inorganic Chemistry, 2013, 52, 6286-6298.	1.9	35
154	Photon-in photon-out hard X-ray spectroscopy at the Linac Coherent Light Source. Journal of Synchrotron Radiation, 2015, 22, 612-620.	1.0	35
155	Operando Study of Thermal Oxidation of Monolayer MoS₂. Advanced Science, 2021, 8, 2002768.	5.6	35
156	Soft x-ray absorption spectroscopy of metalloproteins and high-valent metal-complexes at room temperature using free-electron lasers. Structural Dynamics, 2017, 4, 054307.	0.9	34
157	Plasma Jet Printing and in Situ Reduction of Highly Acidic Graphene Oxide. ACS Nano, 2018, 12, 5473-5481.	7.3	34
158	Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide. Nature Communications, 2020, 11, 6342.	5.8	34
159	Electron-Transfer Processes in Zinc Phthalocyanineâ€“Phosphonic Acid Monolayers on ITO: Characterization of Orientation and Charge-Transfer Kinetics by Waveguide Spectroelectrochemistry. Journal of Physical Chemistry Letters, 2012, 3, 1154-1158.	2.1	33
160	Reabsorption of Soft X-Ray Emission at High X-Ray Free-Electron Laser Fluences. Physical Review Letters, 2014, 113, 153002.	2.9	33
161	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. ACS Applied Materials & Interfaces, 2019, 11, 37885-37891.	4.0	33
162	Synergistic Role of Dopants on the Morphology of Alloyed Copper Chalcogenide Nanocrystals. Journal of the American Chemical Society, 2015, 137, 6464-6467.	6.6	32

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163	X-ray emission spectroscopy of bulk liquid water in â€œno-manâ€™s landâ€. Journal of Chemical Physics, 2015, 142, 044505.	1.2	32
164	Simultaneous spin-coating and solvent annealing: manipulating the active layer morphology to a power conversion efficiency of 9.6% in polymer solar cells. Materials Horizons, 2015, 2, 592-597.	6.4	32
165	Microscopic probing of the size dependence in hydrophobic solvation. Journal of Chemical Physics, 2012, 136, 074507.	1.2	30
166	Understanding and control of bipolar self-doping in copper nitride. Journal of Applied Physics, 2016, 119, .	1.1	30
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