

Dennis L Nordlund

List of Publications by Year in descending order

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318
papers

27,400
citations

7568

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docs citations

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times ranked

32799
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast epitaxial growth of CuO nanowires using atmospheric pressure plasma with enhanced electrocatalytic and photocatalytic activities. <i>Nano Select</i> , 2022, 3, 627-642.	3.7	3
2	Resolving Charge Distribution for Compositionally Heterogeneous Battery Cathode Materials. <i>Nano Letters</i> , 2022, 22, 1278-1286.	9.1	7
3	Quantifying the Steric Effect on Metal-Ligand Bonding in Fe Carbene Photosensitizers with Fe 2p3d Resonant Inelastic X-ray Scattering. <i>Inorganic Chemistry</i> , 2022, 61, 1961-1972.	4.0	3
4	Metastable Brominated Nanodiamond Surface Enables Room Temperature and Catalysis-Free Amine Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1147-1158.	4.6	3
5	Investigating Particle Size-Dependent Redox Kinetics and Charge Distribution in Disordered Rocksalt Cathodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
6	Low Exciton Binding Energies and Localized Exciton-Polaron States in 2D Tin Halide Perovskites. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	18
7	Tailoring Disordered/Ordered Phases to Revisit the Degradation Mechanism of High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Spinel Cathode Materials. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	13
8	Short-Range Order Tunes Optical Properties in Long-Range Disordered ZnSnN ₂ -ZnO Alloy. <i>Chemistry of Materials</i> , 2022, 34, 3910-3919.	6.7	6
9	Plasma jet printing of metallic patterns in zero gravity. <i>Flexible and Printed Electronics</i> , 2022, 7, 025016.	2.7	14
10	Operando Tailoring of Defects and Strains in Corrugated Ni(OH) ₂ Nanosheets for Stable and High-Rate Energy Storage. <i>Advanced Materials</i> , 2021, 33, e2006147.	21.0	44
11	Probing Dopant Redistribution, Phase Propagation, and Local Chemical Changes in the Synthesis of Layered Oxide Battery Cathodes. <i>Advanced Energy Materials</i> , 2021, 11, .	19.5	28
12	Carrier-specific dynamics in 2H-MoTe ₂ observed by femtosecond soft x-ray absorption spectroscopy using an x-ray free-electron laser. <i>Structural Dynamics</i> , 2021, 8, 014501.	2.3	14
13	Operando Study of Thermal Oxidation of Monolayer MoS ₂ . <i>Advanced Science</i> , 2021, 8, 2002768.	11.2	35
14	Promoting Bandlike Transport in Well-Defined and Highly Conducting Polymer Thin Films upon Controlling Dopant Oxidation Levels and Polaron Effects. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2938-2949.	4.4	5
15	Reversible Mn/Cr dual redox in cation-disordered Li-excess cathode materials for stable lithium ion batteries. <i>Acta Materialia</i> , 2021, 212, 116935.	7.9	16
16	The origin of impedance rise in Ni-Rich positive electrodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 498, 229885.	7.8	12
17	Chemical Modulation of Local Transition Metal Environment Enables Reversible Oxygen Redox in Mn-Based Layered Cathodes. <i>ACS Energy Letters</i> , 2021, 6, 2882-2890.	17.4	15
18	Carrier gradients and the role of charge selective contacts in lateral heterojunction all back contact perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021, 2, 100520.	5.6	12

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19	Sulfur K ^L X-ray emission spectroscopy: comparison with sulfur K-edge X-ray absorption spectroscopy for speciation of organosulfur compounds. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4500-4508.	2.8	18
20	Trends in Carbon, Oxygen, and Nitrogen Core in the X-ray Absorption Spectroscopy of Carbon Nanomaterials: A Guide for the Perplexed. <i>Journal of Physical Chemistry C</i> , 2021, 125, 973-988.	3.1	30
21	Understanding the dopant induced effects on SFX-MeOTAD for perovskite solar cells: a spectroscopic and computational investigation. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16226-16239.	5.5	4
22	Revealing the Dynamics and Roles of Iron Incorporation in Nickel Hydroxide Water Oxidation Catalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 18519-18526.	13.7	96
23	Ni ₅ Ga ₃ catalysts for CO ₂ reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118369.	20.2	68
24	Understanding the Origin of Highly Selective CO ₂ Electroreduction to CO on Ni,N-doped Carbon Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4043-4050.	13.8	148
25	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. <i>Nature Communications</i> , 2020, 11, 83.	12.8	129
26	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. <i>Materials Today</i> , 2020, 35, 87-98.	14.2	45
27	Revealing the inhomogeneous surface chemistry on the spherical layered oxide polycrystalline cathode particles*. <i>Chinese Physics B</i> , 2020, 29, 026103.	1.4	5
28	High capacity Li/Ni rich Ni-Ti-Mo oxide cathode for Li-ion batteries. <i>Solid State Ionics</i> , 2020, 345, 115172.	2.7	6
29	Ultrafast Carrier Dynamics in Two-Dimensional Electron Gas-like K-Doped MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 19187-19195.	3.1	0
30	Surface functionality and formation mechanisms of carbon and graphene quantum dots. <i>Diamond and Related Materials</i> , 2020, 110, 108101.	3.9	26
31	Substrate-Dependent Study of Chain Orientation and Order in Alkylphosphonic Acid Self-Assembled Monolayers for ALD Blocking. <i>Langmuir</i> , 2020, 36, 12849-12857.	3.5	17
32	Tuning the Morphology and Electronic Properties of Single-Crystal LiNi _{0.5} Mn _{1.5} O ₄ : Exploring the Influence of LiCl-KCl Molten Salt Flux Composition and Synthesis Temperature. <i>Inorganic Chemistry</i> , 2020, 59, 10591-10603.	4.0	23
33	Unveiling the critical role of the Mn dopant in a NiFe(OH) ₂ catalyst for water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17471-17476.	10.3	41
34	Atmospheric Pressure Plasma Printing of Nanomaterials for IoT Applications. <i>IEEE Open Journal of Nanotechnology</i> , 2020, 1, 47-56.	2.0	12
35	Uncovering phase transformation, morphological evolution, and nanoscale color heterogeneity in tungsten oxide electrochromic materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20000-20010.	10.3	21
36	The sensitive surface chemistry of Co-free, Ni-rich layered oxides: identifying experimental conditions that influence characterization results. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17487-17497.	10.3	41

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37	Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide. <i>Nature Communications</i> , 2020, 11, 6342.	12.8	34
38	Creating compressive stress at the NiOOH/NiO interface for water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10747-10754.	10.3	47
39	Bulk and surface structural changes in high nickel cathodes subjected to fast charging conditions. <i>Chemical Communications</i> , 2020, 56, 6973-6976.	4.1	11
40	Towards the Quantification of 5f Delocalization. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2918.	2.5	11
41	EXAFS as a probe of actinide oxide formation in the tender X-ray regime. <i>Surface Science</i> , 2020, 698, 121607.	1.9	19
42	Identifying Dense NiSe ₂ /CoSe ₂ Heterointerfaces Coupled with Surface High-Valence Bimetallic Sites for Synergistically Enhanced Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020, 32, e2000607.	21.0	251
43	[(MeCN)Ni(CF ₃) ₃] ⁺ and [Ni(CF ₃) ₃] ²⁺ : Foundations toward the Development of Trifluoromethylations at Unsupported Nickel. <i>Inorganic Chemistry</i> , 2020, 59, 9143-9151.	4.0	17
44	Structural and Electrochemical Impacts of Mg/Mn Dual Dopants on the LiNiO ₂ Cathode in Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12874-12882.	8.0	75
45	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. <i>Joule</i> , 2020, 4, 673-687.	24.0	88
46	Distinct Surface and Bulk Thermal Behaviors of LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ Cathode Materials as a Function of State of Charge. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11643-11656.	8.0	19
47	Single-Walled Carbon Nanotube Network Electrodes for the Detection of Fentanyl Citrate. <i>ACS Applied Nano Materials</i> , 2020, 3, 1203-1212.	5.0	28
48	Observation of 5f intermediate coupling in uranium x-ray emission spectroscopy. <i>Journal of Physics Communications</i> , 2020, 4, 015013.	1.2	19
49	Sub-molecular structural relaxation at a physisorbed interface with monolayer organic single-crystal semiconductors. <i>Communications Physics</i> , 2020, 3, .	5.3	10
50	Enabling Stable Cycling of 4.2 V High-Voltage All-Solid-State Batteries with PEO-Based Solid Electrolyte. <i>Advanced Functional Materials</i> , 2020, 30, 1909392.	14.9	204
51	A versatile Johansson-type tender x-ray emission spectrometer. <i>Review of Scientific Instruments</i> , 2020, 91, 033101.	1.3	26
52	Effect of Liquid Electrolyte Soaking on the Interfacial Resistance of Li ₇ La ₃ Zr ₂ O ₁₂ for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20605-20612.	8.0	26
53	Chemical control of competing electron transfer pathways in iron tetracyano-polypyridyl photosensitizers. <i>Chemical Science</i> , 2020, 11, 4360-4373.	7.4	20
54	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26863-26871.	8.0	81

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55	Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 12079-12086.	13.7	47
56	In-situ functionalization of tetrahedral amorphous carbon by filtered cathodic arc deposition. <i>AIP Advances</i> , 2019, 9, 085325.	1.3	3
57	The Myth of d^{8} Copper(III). <i>Journal of the American Chemical Society</i> , 2019, 141, 18508-18520.	13.7	139
58	Elucidating the Evolving Atomic Structure in Atomic Layer Deposition Reactions with in Situ XANES and Machine Learning. <i>Chemistry of Materials</i> , 2019, 31, 8937-8947.	6.7	23
59	Soft X-ray spectroscopy with transition-edge sensors at Stanford Synchrotron Radiation Lightsource beamline 10-1. <i>Review of Scientific Instruments</i> , 2019, 90, 113101.	1.3	40
60	Synthesis of a copper-supported triplet nitrene complex pertinent to copper-catalyzed amination. <i>Science</i> , 2019, 365, 1138-1143.	12.6	131
61	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37885-37891.	8.0	33
62	Persistent organic matter in oxic subseafloor sediment. <i>Nature Geoscience</i> , 2019, 12, 126-131.	12.9	53
63	Water-Processable $P2-Na_{0.67}Ni_{0.22}Cu_{0.11}Mn_{0.56}Ti_{0.11}O_{2-x}$ Cathode Material for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A251-A257.	2.9	28
64	Metal-oxygen decoordination stabilizes anion redox in Li-rich oxides. <i>Nature Materials</i> , 2019, 18, 256-265.	27.5	280
65	Synthesis and X-ray absorption spectroscopy of potassium transition metal fluoride nanocrystals. <i>CrystEngComm</i> , 2019, 21, 135-144.	2.6	4
66	Structural Degradation of Layered Cathode Materials in Lithium-Ion Batteries Induced by Ball Milling. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1964-A1971.	2.9	28
67	Fully Oxidized Ni-Fe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 6027-6032.	11.2	165
68	Thermally-driven mesopore formation and oxygen release in delithiated NCA cathode particles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12593-12603.	10.3	41
69	Underwater Organic Solar Cells via Selective Removal of Electron Acceptors near the Top Electrode. <i>ACS Energy Letters</i> , 2019, 4, 1034-1041.	17.4	25
70	Plasma jet based <i>in situ</i> reduction of copper oxide in direct write printing. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, .	1.2	14
71	Surface Characterization of Li-Substituted Compositionally Heterogeneous $NaLi_{0.045}Cu_{0.185}Fe_{0.265}Mn_{0.505}O_{2-x}$ Sodium-Ion Cathode Material. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11428-11435.	3.1	13
72	Separate measurement of the $5f_{5/2}$ and $5f_{7/2}$ unoccupied density of states of UO_2 . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 232, 100-104.	1.7	19

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73	Hybrid X-ray Spectroscopy-Based Approach To Acquire Chemical and Structural Information of Single-Walled Carbon Nanotubes with Superior Sensitivity. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6114-6120.	3.1	9
74	Electronic Structure of Naturally Occurring Aromatic Carbon. <i>Energy & Fuels</i> , 2019, 33, 2099-2105.	5.1	6
75	Long-term chemothermal stability of delithiated NCA in polymer solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27135-27147.	10.3	10
76	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. <i>Chemistry of Materials</i> , 2019, 31, 9769-9776.	6.7	110
77	Electronic structure changes upon lithium intercalation into graphite â€“ Insights from ex situ and operando x-ray Raman spectroscopy. <i>Carbon</i> , 2019, 143, 371-377.	10.3	22
78	A high-throughput energy-dispersive tender X-ray spectrometer for shot-to-shot sulfur measurements. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 629-634.	2.4	11
79	Laser power meters as portable x-ray power monitors. , 2019, , .		2
80	Chemical and Morphological Control of Interfacial Selfâ€Doping for Efficient Organic Electronics. <i>Advanced Materials</i> , 2018, 30, e1705976.	21.0	55
81	Elucidating anionic oxygen activity in lithium-rich layered oxides. <i>Nature Communications</i> , 2018, 9, 947.	12.8	241
82	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. <i>Nano Letters</i> , 2018, 18, 3241-3249.	9.1	237
83	Dendritic core-shell nickel-iron-copper metal/metal oxide electrode for efficient electrocatalytic water oxidation. <i>Nature Communications</i> , 2018, 9, 381.	12.8	322
84	Charge Heterogeneity and Surface Chemistry in Polycrystalline Cathode Materials. <i>Joule</i> , 2018, 2, 464-477.	24.0	145
85	Intensity modulation of the Shirley background of the Cr 3<i>p</i> spectra with photon energies around the Cr 2<i>p</i> edge. <i>Surface and Interface Analysis</i> , 2018, 50, 246-252.	1.8	15
86	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. <i>Physical Review Letters</i> , 2018, 120, 023901.	7.8	64
87	Surface transformation by a â€œcocktailâ€ solvent enables stable cathode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2758-2766.	10.3	28
88	Modulation of Carrier Type in Nanocrystal-in-Matrix Composites by Interfacial Doping. <i>Chemistry of Materials</i> , 2018, 30, 2544-2549.	6.7	1
89	Depth-Dependent Redox Behavior of LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂. <i>Journal of the Electrochemical Society</i> , 2018, 165, A696-A704.	2.9	123
90	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 311-317.	6.7	236

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91	Deciphering the Cathodeâ€“Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1801975.	19.5	111
92	Thermally driven mesoscale chemomechanical interplay in $\text{Li}_{0.5}\text{Ni}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ cathode materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23055-23061.	10.3	38
93	Selective nitrogen doping of graphene oxide by laser irradiation for enhanced hydrogen evolution activity. <i>Chemical Communications</i> , 2018, 54, 13726-13729.	4.1	28
94	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018, 1, .	5.3	135
95	Atom-specific activation in CO oxidation. <i>Journal of Chemical Physics</i> , 2018, 149, 234707.	3.0	2
96	Laser power meters as an X-ray power diagnostic for LCLS-II. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 72-76.	2.4	7
97	Coherent X-rays reveal the influence of cage effects on ultrafast water dynamics. <i>Nature Communications</i> , 2018, 9, 1917.	12.8	59
98	Plasma Jet Printing and <i>in Situ</i> Reduction of Highly Acidic Graphene Oxide. <i>ACS Nano</i> , 2018, 12, 5473-5481.	14.6	34
99	Two-photon absorption of soft X-ray free electron laser radiation by graphite near the carbon K-absorption edge. <i>Chemical Physics Letters</i> , 2018, 703, 112-116.	2.6	9
100	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , 2018, 98, .	3.2	49
101	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. <i>Energy and Environmental Science</i> , 2018, 11, 2496-2508.	30.8	45
102	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018, 140, 10504-10513.	13.7	303
103	Understanding the critical chemistry to inhibit lithium consumption in lean lithium metal composite anodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16003-16011.	10.3	15
104	Importance of standardizing timing of hematocrit measurement when using cardiovascular magnetic resonance to calculate myocardial extracellular volume (ECV) based on pre- and post-contrast T1 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 46.	3.3	22
105	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2018, 140, 7851-7859.	13.7	310
106	Disentangling Transient Charge Density and Metalâ€“Ligand Covalency in Photoexcited Ferricyanide with Femtosecond Resonant Inelastic Soft X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3538-3543.	4.6	42
107	Carbon Core Electron Spectra of Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5730-5734.	2.5	11
108	Accelerated Evolution of Surface Chemistry Determined by Temperature and Cycling History in Nickel-Rich Layered Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23842-23850.	8.0	52

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109	Revealing Anisotropic Spinel Formation on Pristine Li- and Mn-Rich Layered Oxide Surface and Its Impact on Cathode Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1602010.	19.5	57
110	Synthesis and characterization of metastable, 20 nm-sized Pna 2 1 -LiCoPO 4 nanospheres. <i>Journal of Solid State Chemistry</i> , 2017, 248, 9-17.	2.9	13
111	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2017, 230, 22-28.	5.2	39
112	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. <i>Chemistry of Materials</i> , 2017, 29, 2141-2149.	6.7	44
113	Investigating the Intercalation Chemistry of Alkali Ions in Fluoride Perovskites. <i>Chemistry of Materials</i> , 2017, 29, 1561-1568.	6.7	44
114	Development of a reactor with carbon catalysts for modular-scale, low-cost electrochemical generation of H ₂ O ₂ . <i>Reaction Chemistry and Engineering</i> , 2017, 2, 239-245.	3.7	157
115	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5780-5784.	13.8	106
116	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2017, 12, 744-749.	31.5	1,459
117	Dopant Mediated Assembly of Cu ₂ ZnSnS ₄ Nanorods into Atomically Coupled 2D Sheets in Solution. <i>Nano Letters</i> , 2017, 17, 3421-3428.	9.1	19
118	Direct synthesis and characterization of mixed-valent Li _{0.5} CoPO ₄ , a Li-deficient derivative of the Cmc ₂ m polymorph of LiCoPO ₄ . <i>RSC Advances</i> , 2017, 7, 28069-28081.	3.6	6
119	Partially Reduced Graphene Oxide Modified Tetrahedral Amorphous Carbon Thin-Film Electrodes as a Platform for Nanomolar Detection of Dopamine. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8153-8164.	3.1	26
120	Charge and Spin-State Characterization of Cobalt Bis(<i>o</i> -dioxolene) Valence Tautomers Using Co K _L X-ray Emission and L-Edge X-ray Absorption Spectroscopies. <i>Inorganic Chemistry</i> , 2017, 56, 737-747.	4.0	29
121	Atomic Insights into the Enhanced Surface Stability in High Voltage Cathode Materials by Ultrathin Coating. <i>Advanced Functional Materials</i> , 2017, 27, 1602873.	14.9	37
122	Effect of Backbone Chemistry on the Structure of Polyurea Films Deposited by Molecular Layer Deposition. <i>Chemistry of Materials</i> , 2017, 29, 1192-1203.	6.7	59
123	In Situ Engineering of the Electrode-Electrolyte Interface for Stabilized Overlithiated Cathodes. <i>Advanced Materials</i> , 2017, 29, 1604549.	21.0	26
124	Revealing the Bonding Environment of Zn in ALD Zn(O,S) Buffer Layers through X-ray Absorption Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39105-39109.	8.0	23
125	A novel method for resonant inelastic soft X-ray scattering via photoelectron spectroscopy detection. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 1180-1186.	2.4	1
126	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. <i>Chemical Reviews</i> , 2017, 117, 13123-13186.	47.7	390

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127	Investigation of nanoparticulate silicon as printed layers using scanning electron microscopy, transmission electron microscopy, X-ray absorption spectroscopy and X-ray photoelectron spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 1017-1023.	2.4	0
128	Soft x-ray absorption spectroscopy of metalloproteins and high-valent metal-complexes at room temperature using free-electron lasers. <i>Structural Dynamics</i> , 2017, 4, 054307.	2.3	34
129	Closure of the Mott gap and formation of a superthermal metal in the Fröhlich-type nonequilibrium polaron Bose-Einstein condensate in UO_{2+x} . <i>Physical Review B</i> , 2017, 96, .	3.2	5
130	$\text{Co}_{11}\text{Li}[(\text{OH})_5\text{O}][(\text{PO}_3\text{OH})(\text{PO}_4)_5]$, a Lithium-Stabilized, Mixed-Valent Cobalt(II,III) Hydroxide Phosphate Framework. <i>Inorganic Chemistry</i> , 2017, 56, 10950-10961.	4.0	7
131	Efficacy of atmospheric pressure dielectric barrier discharge for inactivating airborne pathogens. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, 041101.	2.1	6
132	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
133	L-edge spectroscopy of dilute, radiation-sensitive systems using a transition-edge-sensor array. <i>Journal of Chemical Physics</i> , 2017, 147, 214201.	3.0	24
134	Anisotropic attosecond charge carrier dynamics and layer decoupling in quasi-2D layered SnS_2 . <i>Nature Communications</i> , 2017, 8, 1369.	12.8	27
135	Soft X-ray absorption spectroscopy investigation of the surface chemistry and treatments of copper indium gallium diselenide (CIGS). <i>Solar Energy Materials and Solar Cells</i> , 2017, 160, 390-397.	6.2	0
136	Biogenic manganese oxides as reservoirs of organic carbon and proteins in terrestrial and marine environments. <i>Geobiology</i> , 2017, 15, 158-172.	2.4	47
137	X-ray absorption spectroscopy using a self-seeded soft X-ray free-electron laser. <i>Optics Express</i> , 2016, 24, 22469.	3.4	19
138	Hybridization-Induced Carrier Localization at the C_{60}/ZnO Interface. <i>Advanced Materials</i> , 2016, 28, 3960-3965.	21.0	13
139	Spectroscopic investigation of nitrogen-functionalized carbon materials. <i>Surface and Interface Analysis</i> , 2016, 48, 283-292.	1.8	16
140	Tunable Polyaniline-Based Porous Carbon with Ultrahigh Surface Area for CO_2 Capture at Elevated Pressure. <i>Advanced Energy Materials</i> , 2016, 6, 1502491.	19.5	129
141	Morphological and chemical changes of aerosolized <i>E. coli</i> treated with a dielectric barrier discharge. <i>Biointerphases</i> , 2016, 11, 011009.	1.6	8
142	Plasma jet printing for flexible substrates. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	58
143	Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. <i>Journal of Chemical Physics</i> , 2016, 144, 144201.	3.0	29
144	Understanding and control of bipolar self-doping in copper nitride. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	30

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