

Michael J Bedzyk

List of Publications by Year in descending order

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144
papers

5,423
citations

76196

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145
docs citations

145
times ranked

9590
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Free Tetrathienoacene Sensitizers for High-Performance Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 4414-4423.	6.6	243
2	Polyanthraquinone-Based Organic Cathode for High-Performance Rechargeable Magnesium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600140.	10.2	210
3	Enhanced Efficiency of Hot-Cast Large-Area Planar Perovskite Solar Cells/Modules Having Controlled Chloride Incorporation. <i>Advanced Energy Materials</i> , 2017, 7, 1601660.	10.2	191
4	Rotationally Commensurate Growth of MoS ₂ on Epitaxial Graphene. <i>ACS Nano</i> , 2016, 10, 1067-1075.	7.3	176
5	Spray-combustion synthesis: Efficient solution route to high-performance oxide transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3217-3222.	3.3	175
6	Controlled Growth of Platinum Nanoparticles on Strontium Titanate Nanocubes by Atomic Layer Deposition. <i>Small</i> , 2009, 5, 750-757.	5.2	158
7	Thermally conductive ultra-low-k dielectric layers based on two-dimensional covalent organic frameworks. <i>Nature Materials</i> , 2021, 20, 1142-1148.	13.3	158
8	Structural and Electrical Functionality of NiO Interfacial Films in Bulk Heterojunction Organic Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 2218-2226.	3.2	157
9	Fundamental Performance Limits of Carbon Nanotube Thin-Film Transistors Achieved Using Hybrid Molecular Dielectrics. <i>ACS Nano</i> , 2012, 6, 7480-7488.	7.3	142
10	Ultra-Flexible, -Invisible Thin-Film Transistors Enabled by Amorphous Metal Oxide/Polymer Channel Layer Blends. <i>Advanced Materials</i> , 2015, 27, 2390-2399.	11.1	116
11	Solution-Deposited Organic-Inorganic Hybrid Multilayer Gate Dielectrics. Design, Synthesis, Microstructures, and Electrical Properties with Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2011, 133, 10239-10250.	6.6	108
12	UV-Ozone Interfacial Modification in Organic Transistors for High-Sensitivity NO ₂ Detection. <i>Advanced Materials</i> , 2017, 29, 1701706.	11.1	106
13	Electronic and Mechanical Properties of Graphene-Germanium Interfaces Grown by Chemical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 7414-7420.	4.5	103
14	Solution-Processed All-Oxide Transparent High-Performance Transistors Fabricated by Spray-Combustion Synthesis. <i>Advanced Electronic Materials</i> , 2016, 2, 1500427.	2.6	101
15	Valence Change Ability and Geometrical Occupation of Substitution Cations Determine the Pseudocapacitance of Spinel Ferrite XFe ₂ O ₄ (X = Mn, Co, Ni, Fe). <i>Chemistry of Materials</i> , 2016, 28, 4129-4133.	3.2	98
16	High Voltage LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ /Graphite Cell Cycled at 4.6 V with a FEC/HFDEC-Based Electrolyte. <i>Advanced Energy Materials</i> , 2017, 7, 1700109.	10.2	98
17	Structure of rutile TiO ₂ (110) in water and 1molal Rb ⁺ at pH 12: Inter-relationship among surface charge, interfacial hydration structure, and substrate structural displacements. <i>Surface Science</i> , 2007, 601, 1129-1143.	0.8	78
18	Metal Oxide Transistors via Polyethylenimine Doping of the Channel Layer: Interplay of Doping, Microstructure, and Charge Transport. <i>Advanced Functional Materials</i> , 2016, 26, 6179-6187.	7.8	77

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19	Chemical vapor deposition of monolayer MoS ₂ directly on ultrathin Al ₂ O ₃ for low-power electronics. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	72
20	How Ag Nanospheres Are Transformed into AgAu Nanocages. <i>Journal of the American Chemical Society</i> , 2017, 139, 12291-12298.	6.6	72
21	Chemically Resolved Interface Structure of Epitaxial Graphene on SiC(0001). <i>Physical Review Letters</i> , 2013, 111, 215501.	2.9	70
22	Ambient-Processable High Capacitance Hafnia-Organic Self-Assembled Nanodielectrics. <i>Journal of the American Chemical Society</i> , 2013, 135, 8926-8939.	6.6	69
23	Printed Indium Gallium Zinc Oxide Transistors. Self-Assembled Nanodielectric Effects on Low-Temperature Combustion Growth and Carrier Mobility. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11884-11893.	4.0	69
24	Nanoscale Structure and Morphology of Atomic Layer Deposition Platinum on SrTiO ₃ (001). <i>Chemistry of Materials</i> , 2009, 21, 516-521.	3.2	63
25	Carbohydrate-Assisted Combustion Synthesis To Realize High-Performance Oxide Transistors. <i>Journal of the American Chemical Society</i> , 2016, 138, 7067-7074.	6.6	61
26	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. <i>Journal of the American Chemical Society</i> , 2017, 139, 6120-6127.	6.6	60
27	Effects of cantilever buckling on vector piezoresponse force microscopy imaging of ferroelectric domains in BiFeO ₃ nanostructures. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	56
28	Molecular Crystallization Controlled by pH Regulates Mesoscopic Membrane Morphology. <i>ACS Nano</i> , 2012, 6, 10901-10909.	7.3	56
29	Resolving the Chemically Discrete Structure of Synthetic Borophene Polymorphs. <i>Nano Letters</i> , 2018, 18, 2816-2821.	4.5	56
30	Metal-free branched alkyl tetrathienoacene (TTAR)-based sensitizers for high-performance dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12310-12321.	5.2	55
31	Three-dimensional ferroelectric domain imaging of epitaxial BiFeO ₃ thin films using angle-resolved piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	54
32	Hyperbolic Dispersion Arising from Anisotropic Excitons in Two-Dimensional Perovskites. <i>Physical Review Letters</i> , 2018, 121, 127401.	2.9	51
33	New trends in X-ray standing waves. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988, 266, 679-683.	0.7	48
34	Room Temperature Phase Transition in Methylammonium Lead Iodide Perovskite Thin Films Induced by Hydrohalic Acid Additives. <i>ChemSusChem</i> , 2016, 9, 2656-2665.	3.6	47
35	Molecular Control of Internal Crystallization and Photocatalytic Function in Supramolecular Nanostructures. <i>CheM</i> , 2018, 4, 1596-1608.	5.8	46
36	Atomic Resolution X-ray Standing Wave Microstructural Characterization of NLO-Active Self-Assembled Chromophoric Superlattices. <i>Journal of the American Chemical Society</i> , 1997, 119, 2205-2211.	6.6	45

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37	Structural Transformations of Zinc Oxide Layers on Pt(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 28725-28729.	1.5	45
38	Diperfluorophenyl Fused Thiophene Semiconductors for n-Type Organic Thin Film Transistors (OTFTs). <i>Advanced Electronic Materials</i> , 2015, 1, 1500098.	2.6	45
39	Elucidating and Mitigating High-Voltage Degradation Cascades in Cobalt-Free LiNiO ₂ Lithium-Ion Battery Cathodes. <i>Advanced Materials</i> , 2022, 34, e2106402.	11.1	44
40	Synergistic Boron Doping of Semiconductor and Dielectric Layers for High-Performance Metal Oxide Transistors: Interplay of Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2018, 140, 12501-12510.	6.6	43
41	Polymer Doping Enables a Two-Dimensional Electron Gas for High-Performance Homo Junction Oxide Thin-Film Transistors. <i>Advanced Materials</i> , 2019, 31, e1805082.	11.1	43
42	Crystalline polymorphism induced by charge regulation in ionic membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16309-16314.	3.3	40
43	Metal Composition and Polyethylenimine Doping Capacity Effects on Semiconducting Metal Oxide-Polymer Blend Charge Transport. <i>Journal of the American Chemical Society</i> , 2018, 140, 5457-5473.	6.6	39
44	Morphology and CO Oxidation Activity of Pd Nanoparticles on SrTiO ₃ Nanopolyhedra. <i>ACS Catalysis</i> , 2018, 8, 4751-4760.	5.5	38
45	Nanoscale piezoresponse studies of ferroelectric domains in epitaxial BiFeO ₃ nanostructures. <i>Journal of Applied Physics</i> , 2009, 105, 061619.	1.1	37
46	Template-Free Vapor-Phase Growth of Perovskite by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2017, 29, 2864-2873.	3.2	37
47	Electrostatic Control of Polymorphism in Charged Amphiphile Assemblies. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1623-1628.	1.2	37
48	Supersaturated Self-Assembled Charge-Selective Interfacial Layers for Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 17762-17773.	6.6	36
49	Cation Size Effects on the Electronic and Structural Properties of Solution-Processed In ₂ O ₃ Thin Films. <i>Advanced Electronic Materials</i> , 2015, 1, 1500146.	2.6	36
50	High aspect ratio nanotubes assembled from macrocyclic iminium salts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8883-8888.	3.3	36
51	Lithium Intercalation Behavior in Multilayer Silicon Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1301494.	10.2	35
52	Expeditious, scalable solution growth of metal oxide films by combustion blade coating for flexible electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9230-9238.	3.3	35
53	Fused Thiophene Semiconductors: Crystal Structure-Film Microstructure Transistor Performance Correlations. <i>Advanced Functional Materials</i> , 2013, 23, 3850-3865.	7.8	34
54	Enhanced Light Absorption in Fluorinated Ternary Small-Molecule Photovoltaics. <i>ACS Energy Letters</i> , 2017, 2, 1690-1697.	8.8	33

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55	Direct Observation of Cations and Polynucleotides Explains Polyion Adsorption to Like-Charged Surfaces. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23001-23007.	1.2	32
56	Probing the Unique Role of Gallium in Amorphous Oxide Semiconductors through Structure-Property Relationships. <i>Advanced Electronic Materials</i> , 2017, 3, 1700189.	2.6	32
57	Electrolyte-Mediated Assembly of Charged Nanoparticles. <i>ACS Central Science</i> , 2016, 2, 219-224.	5.3	31
58	Thermal Conductivity Comparison of Indium Gallium Zinc Oxide Thin Films: Dependence on Temperature, Crystallinity, and Porosity. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7467-7475.	1.5	31
59	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18231-18239.	3.3	31
60	All Roads Lead to TiO ₂ : TiO ₂ -Rich Surfaces of Barium and Strontium Titanate Prepared by Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2018, 30, 841-846.	3.2	29
61	Differences between amorphous indium oxide thin films. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 475-480.	1.8	27
62	Defining the Structure of a Protein-Spherical Nucleic Acid Conjugate and Its Counterionic Cloud. <i>ACS Central Science</i> , 2018, 4, 378-386.	5.3	27
63	Imaging of Atomic Layer Deposited (ALD) Tungsten Monolayers on \pm -TiO ₂ (110) by X-ray Standing Wave Fourier Inversion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12616-12620.	1.2	26
64	Morphological Evolution of Multilayer Ni/NiO Thin Film Electrodes during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19979-19986.	4.0	26
65	Counterion Distribution Surrounding Spherical Nucleic Acid-Au Nanoparticle Conjugates Probed by Small-Angle X-ray Scattering. <i>ACS Nano</i> , 2013, 7, 11301-11309.	7.3	25
66	Polarity-driven oxygen vacancy formation in ultrathin LaNiO_3 films on SrTiO_3 . <i>Physical Review Materials</i> , 2017, 1, .	0.9	25
67	The role of trace Ag in the synthesis of Au nanorods. <i>Nanoscale</i> , 2019, 11, 11744-11754.	2.8	24
68	Self-Assembled Nanodielectrics for Solution-Processed Top-Gate Amorphous IGZO Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15399-15408.	4.0	24
69	Direct Profiling and Reversibility of Ion Distribution at a Charged Membrane/Aqueous Interface: An X-ray Standing Wave Study. <i>Langmuir</i> , 2001, 17, 3671-3681.	1.6	22
70	Direct Atomic-Scale Observation of Redox-Induced Cation Dynamics in an Oxide-Supported Monolayer Catalyst: WO ₃ /Fe ₂ O ₃ (001). <i>Journal of the American Chemical Society</i> , 2009, 131, 18200-18201.	6.6	22
71	Structural and Physical Property Studies of Amorphous Zn-In-Sn-O Thin Films. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3657-3664.	1.0	22
72	Angular distribution of the photoelectron yield excited by two coherently coupled photon beams. <i>Physical Review Letters</i> , 1989, 63, 1172-1175.	2.9	21

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73	Impact of charge switching stimuli on supramolecular perylene monoimide assemblies. <i>Chemical Science</i> , 2019, 10, 5779-5786.	3.7	21
74	Atomic-Scale Study of Ambient-Pressure Redox-Induced Changes for an Oxide-Supported Submonolayer Catalyst: VO ₂ /TiO ₂ (110). <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2845-2850.	2.1	20
75	Comparative X-ray Standing Wave Analysis of Metal-Phosphonate Multilayer Films of Dodecane and Porphyrin Molecular Square. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1441-1450.	1.2	19
76	Catalysts Transform While Molecules React: An Atomic-Scale View. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 285-291.	2.1	19
77	Molecular Packing of Amphiphilic Nanosheets Resolved by X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1047-1054.	1.5	19
78	Insights on the Alumina-Water Interface Structure by Direct Comparison of Density Functional Simulations with X-ray Reflectivity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26934-26944.	1.5	19
79	Dimensionally Controlled Lithiation of Chromium Oxide. <i>Chemistry of Materials</i> , 2016, 28, 47-54.	3.2	18
80	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. <i>ACS Energy Letters</i> , 2017, 2, 2415-2421.	8.8	18
81	The Dipole Moment Inversion Effects in Self-Assembled Nanodielectrics for Organic Transistors. <i>Chemistry of Materials</i> , 2017, 29, 9974-9980.	3.2	18
82	Pulsed Laser Deposition and Characterization of Heteroepitaxial LiMn ₂ O ₄ /La _{0.5} Sr _{0.5} CoO ₃ Bilayer Thin Films as Model Lithium Ion Battery Cathodes. <i>ACS Applied Nano Materials</i> , 2018, 1, 642-653.	2.4	18
83	Strain-Driven Mn-Reorganization in Overlithiated Li _x Mn ₂ O ₄ Epitaxial Thin-Film Electrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 2526-2535.	2.5	18
84	Electrostatic shape control of a charged molecular membrane from ribbon to scroll. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22030-22036.	3.3	18
85	Growth of Extra-Large Chromophore Supramolecular Polymers for Enhanced Hydrogen Production. <i>Nano Letters</i> , 2021, 21, 3745-3752.	4.5	18
86	Complex surface structure of (110) terminated strontium titanate nanododecahedra. <i>Nanoscale</i> , 2016, 8, 16606-16611.	2.8	17
87	Lithiation of multilayer Ni/NiO electrodes: criticality of nickel layer thicknesses on conversion reaction kinetics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20029-20039.	1.3	17
88	Synthesis of Supported Pd ⁰ Nanoparticles from a Single-Site Pd ²⁺ Surface Complex by Alkene Reduction. <i>Chemistry of Materials</i> , 2018, 30, 1032-1044.	3.2	17
89	Large-area optoelectronic-grade InSe thin films via controlled phase evolution. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	17
90	Redox Driven Crystalline Coherent-Incoherent Transformation for a 2 ML VO ₂ Film Grown on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 19723-19726.	1.5	16

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91	Understanding the Role of Overpotentials in Lithium Ion Conversion Reactions: Visualizing the Interface. <i>ACS Nano</i> , 2019, 13, 7825-7832.	7.3	16
92	Structure-Activity Charge Transport Relationships in Fluoride-Doped Amorphous Semiconducting Indium Oxide: Combined Experimental and Theoretical Analysis. <i>Chemistry of Materials</i> , 2020, 32, 805-820.	3.2	16
93	Epitaxial graphene-encapsulated surface reconstruction of Ge(110). <i>Physical Review Materials</i> , 2018, 2, .	0.9	16
94	Elastic relaxation and correlation of local strain gradients with ferroelectric domains in (001) BiFeO ₃ nanostructures. <i>Applied Physics Letters</i> , 2011, 99, 052902.	1.5	15
95	Processing, Structure, and Transistor Performance: Combustion versus Pulsed Laser Growth of Amorphous Oxides. <i>ACS Applied Electronic Materials</i> , 2019, 1, 548-557.	2.0	15
96	Morphology and oxidation state of ALD-grown Pd nanoparticles on TiO ₂ - and SrO-terminated SrTiO ₃ nanocuboids. <i>Surface Science</i> , 2016, 648, 291-298.	0.8	14
97	Reversible Li-Ion Conversion Reaction for a Ti _x Ge Alloy in a Ti/Ge Multilayer. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8169-8176.	4.0	14
98	Low-Loss Near-Infrared Hyperbolic Metamaterials with Epitaxial ITO-In ₂ O ₃ Multilayers. <i>ACS Photonics</i> , 2018, 5, 2000-2007.	3.2	14
99	Thermal stability of amorphous Zn-In-Sn-O films. <i>Journal of Electroceramics</i> , 2015, 34, 167-174.	0.8	13
100	Structural analysis of the initial lithiation of NiO thin film electrodes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8897-8905.	1.3	13
101	Elucidating and Mitigating High-Voltage Interfacial Chemomechanical Degradation of Nickel-Rich Lithium-Ion Battery Cathodes via Conformal Graphene Coating. <i>ACS Applied Energy Materials</i> , 2021, 4, 11069-11079.	2.5	13
102	Synthesis and Structure-Activity Characterization of a Single-Site MoO ₂ Catalytic Center Anchored on Reduced Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2021, 143, 21532-21540.	6.6	13
103	Multistates and Polyamorphism in Phase-Change K ₂ Sb ₈ Se ₁₃ . <i>Journal of the American Chemical Society</i> , 2018, 140, 9261-9268.	6.6	12
104	Printable Organic-Inorganic Nanoscale Multilayer Gate Dielectrics for Thin-Film Transistors Enabled by a Polymeric Organic Interlayer. <i>Advanced Functional Materials</i> , 2020, 30, 2005069.	7.8	12
105	Unexpected trends in the enhanced Ce ³⁺ surface concentration in ceria-zirconia catalyst materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9850-9858.	5.2	12
106	Atomic Imaging of Oxide-Supported Metallic Nanocrystals. <i>ACS Nano</i> , 2011, 5, 9755-9760.	7.3	11
107	Thin Film RuO ₂ Lithiation: Fast Lithium-Ion Diffusion along the Interface. <i>Advanced Functional Materials</i> , 2018, 28, 1805723.	7.8	11
108	Hierarchical nanoparticle morphology for platinum supported on SrTiO ₃ (001): A combined microscopy and X-ray scattering study. <i>Applied Surface Science</i> , 2009, 256, 423-427.	3.1	10

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109	Direct method for imaging elemental distribution profiles with long-period x-ray standing waves. <i>Physical Review B</i> , 2010, 81, .	1.1	9
110	Mesophase in a Thiolate-Containing Diacyl Phospholipid Self-Assembled Monolayer. <i>Langmuir</i> , 2015, 31, 3232-3241.	1.6	9
111	Ultraviolet Light-Densified Oxide-Organic Self-Assembled Dielectrics: Processing Thin-Film Transistors at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3445-3453.	4.0	9
112	Amorphous to Crystal Phase Change Memory Effect with Two-Fold Bandgap Difference in Semiconducting $K_2Bi_8Se_{13}$. <i>Journal of the American Chemical Society</i> , 2021, 143, 6221-6228.	6.6	9
113	Hidden Complexity in the Chemistry of Ammonolysis-Derived $\alpha\text{-Mo}_2\text{N}$: An Overlooked Oxynitride Hydride. <i>Chemistry of Materials</i> , 2021, 33, 6671-6684.	3.2	8
114	Diverse Mechanistic Pathways in Single-Site Heterogeneous Catalysis: Alcohol Conversions Mediated by a High-Valent Carbon-Supported Molybdenum-Dioxo Catalyst. <i>ACS Catalysis</i> , 2022, 12, 1247-1257.	5.5	8
115	Thermally induced nanoscale structural and morphological changes for atomic-layer-deposited Pt on $\text{SrTiO}_3(001)$. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	7
116	X-RAY STANDING WAVE IN MULTILAYERS. Series on Synchrotron Radiation Techniques and Applications, 2013, , 122-131.	0.2	7
117	Structural Features of PbS Nanocube Monolayers upon Treatment with Mono- and Dicarboxylic Acids and Thiols at a Liquid-Air Interface. <i>Langmuir</i> , 2016, 32, 6666-6673.	1.6	7
118	Role of Fluoride Doping in Low-Temperature Combustion-Synthesized ZrO_x Dielectric Films. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12340-12349.	4.0	7
119	Enzymatic Degradation of DNA Probed by <i>In Situ</i> X-ray Scattering. <i>ACS Nano</i> , 2019, 13, 11382-11391.	7.3	6
120	Combustion Synthesis and Polymer Doping of Metal Oxides for High-Performance Electronic Circuitry. <i>Accounts of Chemical Research</i> , 2022, 55, 429-441.	7.6	6
121	Processing-dependent thermal stability of a prototypical amorphous metal oxide. <i>Physical Review Materials</i> , 2018, 2, .	0.9	5
122	Electrodes: Lithium Intercalation Behavior in Multilayer Silicon Electrodes (<i>Adv. Energy Mater.</i>)	10.2	4
123	Measuring Dipole Inversion in Self-Assembled Nano-Dielectric Molecular Layers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6484-6490.	4.0	4
124	Surface Chemistry and Long-Term Stability of Amorphous ZnSnO Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28151-28157.	1.5	4
125	Atomic-Scale View of Redox Induced Changes for Monolayer MoO_x on $\text{TiO}_2(110)$ with Chemical-State Sensitivity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5304-5309.	2.1	4
126	X-RAY STANDING WAVE AT THE TOTAL REFLECTION CONDITION. Series on Synchrotron Radiation Techniques and Applications, 2013, , 94-107.	0.2	3

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127	Long-term Room Temperature Instability in Thermal Conductivity of InGaZnO Thin Films. MRS Advances, 2016, 1, 1631-1636.	0.5	3
128	Combinatorial Approach for Single-Crystalline TaON Growth: Epitaxial $\text{TaON (100)}/\text{Al}_2\text{O}_3 (012)$. ACS Applied Electronic Materials, 2020, 2, 3571-3576.	2.0	3
129	X-ray atomic mapping of quantum dots. Physical Review Materials, 2020, 4, .	0.9	3
130	Atomic-Scale Structure of Chemically Distinct Surface Oxygens in Redox Reactions. Journal of the American Chemical Society, 2021, 143, 17937-17941.	6.6	3
131	XSW IMAGING. Series on Synchrotron Radiation Techniques and Applications, 2013, , 289-302.	0.2	2
132	Thermal Atomic Layer Deposition of Gold: Mechanistic Insights, Nucleation, and Epitaxy. ACS Applied Materials & Interfaces, 2021, 13, 9091-9100.	4.0	2
133	Systematic Analysis of Self-Assembled Nanodielectric Architecture and Organization Effects on Organic Transistor Switching. ACS Applied Electronic Materials, 2022, 4, 2015-2025.	2.0	2
134	Dynamics of Electrochemical Conversion of Nanoscale Metal-Metal Oxide Multilayer Architecture. Microscopy and Microanalysis, 2016, 22, 1316-1317.	0.2	1
135	Enhancing Phase Mapping for High-throughput X-ray Diffraction Experiments using Fuzzy Clustering. , 2021, , .		1
136	Elucidating and Mitigating High-Voltage Degradation Cascades in Cobalt-Free LiNiO_2 Lithium-Ion Battery Cathodes (Adv. Mater. 3/2022). Advanced Materials, 2022, 34, .	11.1	1
137	Fluoride Doping in Crystalline and Amorphous Indium Oxide Semiconductors. Chemistry of Materials, 0, , .	3.2	1
138	Stability, metallicity, and magnetism in niobium silicide nanofilms. Physical Review Materials, 2022, 6, .	0.9	1
139	X-ray Analysis of Si/Ge/Si(001) Heterolayer Structures Grown by Surfactant Mediated Epitaxy.. Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	0
140	Preface to Special Topic: Selected Papers from The Eleventh International Conference on Surface X-Ray and Neutron Scattering. Journal of Applied Physics, 2011, 110, .	1.1	0
141	Oxide Transistors: Metal Oxide Transistors via Polyethylenimine Doping of the Channel Layer: Interplay of Doping, Microstructure, and Charge Transport (Adv. Funct. Mater. 34/2016). Advanced Functional Materials, 2016, 26, 6320-6320.	7.8	0
142	Organic Thin-Film Transistors: UV-Ozone Interfacial Modification in Organic Transistors for High-Sensitivity NO_2 Detection (Adv. Mater. 31/2017). Advanced Materials, 2017, 29, .	11.1	0
143	Atomic-Site-Specific Surface Valence-Band Structure from X-Ray Standing-Wave Excited Photoemission. Physical Review Letters, 2022, 128, .	2.9	0
144	Elucidating and Mitigating High-Voltage Interfacial Chemomechanical Degradation of Nickel-Rich Lithium-Ion Battery Cathodes Via Conformal Graphene Coating. ECS Meeting Abstracts, 2022, MA2022-01, 317-317.	0.0	0