Michael J Bedzyk

List of Publications by Year
in descending order

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144 papers	5,423 citations	76294 40 h-index	98753 67 g-index
145 all docs	145 docs citations	145 times ranked	9590 citing authors

#	Article	IF	Citations
1	Metal-Free Tetrathienoacene Sensitizers for High-Performance Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2015, 137, 4414-4423.	6.6	243
2	Polyanthraquinoneâ€Based Organic Cathode for Highâ€Performance Rechargeable Magnesiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1600140.	10.2	210
3	Enhanced Efficiency of Hotâ€Cast Largeâ€Area Planar Perovskite Solar Cells/Modules Having Controlled Chloride Incorporation. Advanced Energy Materials, 2017, 7, 1601660.	10.2	191
4	Rotationally Commensurate Growth of MoS₂ on Epitaxial Graphene. ACS Nano, 2016, 10, 1067-1075.	7.3	176
5	Spray-combustion synthesis: Efficient solution route to high-performance oxide transistors. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3217-3222.	3.3	175
6	Controlled Growth of Platinum Nanoparticles on Strontium Titanate Nanocubes by Atomic Layer Deposition. Small, 2009, 5, 750-757.	5.2	158
7	Thermally conductive ultra-low-k dielectric layers based on two-dimensional covalent organic frameworks. Nature Materials, 2021, 20, 1142-1148.	13.3	158
8	Structural and Electrical Functionality of NiO Interfacial Films in Bulk Heterojunction Organic Solar Cells. Chemistry of Materials, 2011, 23, 2218-2226.	3.2	157
9	Fundamental Performance Limits of Carbon Nanotube Thin-Film Transistors Achieved Using Hybrid Molecular Dielectrics. ACS Nano, 2012, 6, 7480-7488.	7.3	142
10	Ultraâ€Flexible, â€œInvisibleâ€•Thinâ€Film Transistors Enabled by Amorphous Metal Oxide/Polymer Channel Layer Blends. Advanced Materials, 2015, 27, 2390-2399.	11.1	116
11	Solution-Deposited Organicâ€“Inorganic Hybrid Multilayer Gate Dielectrics. Design, Synthesis, Microstructures, and Electrical Properties with Thin-Film Transistors. Journal of the American Chemical Society, 2011, 133, 10239-10250.	6.6	108
12	UVâ€“Ozone Interfacial Modification in Organic Transistors for Highâ€Sensitivity NO₂ Detection. Advanced Materials, 2017, 29, 1701706.	11.1	106
13	Electronic and Mechanical Properties of Grapheneâ€“Germanium Interfaces Grown by Chemical Vapor Deposition. Nano Letters, 2015, 15, 7414-7420.	4.5	103
14	Solutionâ€Processed Allâ€Oxide Transparent Highâ€Performance Transistors Fabricated by Sprayâ€Combustion Synthesis. Advanced Electronic Materials, 2016, 2, 1500427.	2.6	101
15	Valence Change Ability and Geometrical Occupation of Substitution Cations Determine the Pseudocapacitance of Spinel Ferrite XFe₂O₄ (X = Mn, Co, Ni, Fe). Chemistry of Materials, 2016, 28, 4129-4133.	3.2	98
16	High Voltage LiNi_{0.5}Mn_{0.3}Co_{0.2}O₂/Graphite Cell Cycled at 4.6 V with a FEC/HFDECâ€Based Electrolyte. Advanced Energy Materials, 2017, 7, 1700109.	10.2	98
17	Structure of rutile TiO2 (110) in water and 1molal Rb+ at pH 12: Inter-relationship among surface charge, interfacial hydration structure, and substrate structural displacements. Surface Science, 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. Advanced Functional Materials, 2016, 26, 6179-6187.	7.8	77

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19	Chemical vapor deposition of monolayer MoS2 directly on ultrathin Al2O3 for low-power electronics. Applied Physics Letters, 2017, 110, .	1.5	72
20	How Ag Nanospheres Are Transformed into AgAu Nanocages. Journal of the American Chemical Society, 2017, 139, 12291-12298.	6.6	72
21	Chemically Resolved Interface Structure of Epitaxial Graphene on SiC(0001). Physical Review Letters, 2013, 111, 215501.	2.9	70
22	Ambient-Processable High Capacitance Hafnia-Organic Self-Assembled Nanodielectrics. Journal of the American Chemical Society, 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. ACS Applied Materials & Interfaces, 2013, 5, 11884-11893.	4.0	69
24	Nanoscale Structure and Morphology of Atomic Layer Deposition Platinum on SrTiO₃ (001). Chemistry of Materials, 2009, 21, 516-521.	3.2	63
25	Carbohydrate-Assisted Combustion Synthesis To Realize High-Performance Oxide Transistors. Journal of the American Chemical Society, 2016, 138, 7067-7074.	6.6	61
26	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. Journal of the American Chemical Society, 2017, 139, 6120-6127.	6.6	60
27	Effects of cantilever buckling on vector piezoresponse force microscopy imaging of ferroelectric domains in BiFeO3 nanostructures. Applied Physics Letters, 2010, 96, .	1.5	56
28	Molecular Crystallization Controlled by pH Regulates Mesoscopic Membrane Morphology. ACS Nano, 2012, 6, 10901-10909.	7.3	56
29	Resolving the Chemically Discrete Structure of Synthetic Borophene Polymorphs. Nano Letters, 2018, 18, 2816-2821.	4.5	56
30	Metal-free branched alkyl tetrathienoacene (TTAR)-based sensitizers for high-performance dye-sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 12310-12321.	5.2	55
31	Three-dimensional ferroelectric domain imaging of epitaxial BiFeO3 thin films using angle-resolved piezoresponse force microscopy. Applied Physics Letters, 2010, 97, .	1.5	54
32	Hyperbolic Dispersion Arising from Anisotropic Excitons in Two-Dimensional Perovskites. Physical Review Letters, 2018, 121, 127401.	2.9	51
33	New trends in X-ray standing waves. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 266, 679-683.	0.7	48
34	Room Temperature Phase Transition in Methylammonium Lead Iodide Perovskite Thin Films Induced by Hydrohalic Acid Additives. ChemSusChem, 2016, 9, 2656-2665.	3.6	47
35	Molecular Control of Internal Crystallization and Photocatalytic Function in Supramolecular Nanostructures. CheM, 2018, 4, 1596-1608.	5.8	46
36	Atomic Resolution X-ray Standing Wave Microstructural Characterization of NLO-Active Self-Assembled Chromophoric Superlattices. Journal of the American Chemical Society, 1997, 119, 2205-2211.	6.6	45

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37	Structural Transformations of Zinc Oxide Layers on Pt(111). Journal of Physical Chemistry C, 2014, 118, 28725-28729.	1.5	45
38	Diperfluorophenyl Fused Thiophene Semiconductors for nâ€Type Organic Thin Film Transistors (OTFTs). Advanced Electronic Materials, 2015, 1, 1500098.	2.6	45
39	Elucidating and Mitigating Highâ€Voltage Degradation Cascades in Cobaltâ€Free LiNiO₂ Lithiumâ€Ion Battery Cathodes. Advanced Materials, 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. Journal of the American Chemical Society, 2018, 140, 12501-12510.	6.6	43
41	Polymer Doping Enables a Twoâ€Dimensional Electron Gas for Highâ€Performance Homojunction Oxide Thinâ€Film Transistors. Advanced Materials, 2019, 31, e1805082.	11.1	43
42	Crystalline polymorphism induced by charge regulation in ionic membranes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16309-16314.	3.3	40
43	Metal Composition and Polyethylenimine Doping Capacity Effects on Semiconducting Metal Oxideâ€“Polymer Blend Charge Transport. Journal of the American Chemical Society, 2018, 140, 5457-5473.	6.6	39
44	Morphology and CO Oxidation Activity of Pd Nanoparticles on SrTiO₃ Nanopolyhedra. ACS Catalysis, 2018, 8, 4751-4760.	5.5	38
45	Nanoscale piezoresponse studies of ferroelectric domains in epitaxial BiFeO3 nanostructures. Journal of Applied Physics, 2009, 105, 061619.	1.1	37
46	Template-Free Vapor-Phase Growth of PatrÃ³nite by Atomic Layer Deposition. Chemistry of Materials, 2017, 29, 2864-2873.	3.2	37
47	Electrostatic Control of Polymorphism in Charged Amphiphile Assemblies. Journal of Physical Chemistry B, 2017, 121, 1623-1628.	1.2	37
48	â€œSupersaturatedâ€•Self-Assembled Charge-Selective Interfacial Layers for Organic Solar Cells. Journal of the American Chemical Society, 2014, 136, 17762-17773.	6.6	36
49	Cation Size Effects on the Electronic and Structural Properties of Solutionâ€Processed Inâ€“Xâ€“O Thin Films. Advanced Electronic Materials, 2015, 1, 1500146.	2.6	36
50	High aspect ratio nanotubes assembled from macrocyclic iminium salts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8883-8888.	3.3	36
51	Lithium Intercalation Behavior in Multilayer Silicon Electrodes. Advanced Energy Materials, 2014, 4, 1301494.	10.2	35
52	Expeditious, scalable solution growth of metal oxide films by combustion blade coating for flexible electronics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9230-9238.	3.3	35
53	Fused Thiophene Semiconductors: Crystal Structureâ€“Film Microstructure Transistor Performance Correlations. Advanced Functional Materials, 2013, 23, 3850-3865.	7.8	34
54	Enhanced Light Absorption in Fluorinated Ternary Small-Molecule Photovoltaics. ACS Energy Letters, 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. Journal of Physical Chemistry B, 2005, 109, 23001-23007.	1.2	32
56	Probing the Unique Role of Gallium in Amorphous Oxide Semiconductors through Structureâ€“Property Relationships. Advanced Electronic Materials, 2017, 3, 1700189.	2.6	32
57	Electrolyte-Mediated Assembly of Charged Nanoparticles. ACS Central Science, 2016, 2, 219-224.	5.3	31
58	Thermal Conductivity Comparison of Indium Gallium Zinc Oxide Thin Films: Dependence on Temperature, Crystallinity, and Porosity. Journal of Physical Chemistry C, 2016, 120, 7467-7475.	1.5	31
59	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18231-18239.	3.3	31
60	All Roads Lead to TiO₂: TiO₂-Rich Surfaces of Barium and Strontium Titanate Prepared by Hydrothermal Synthesis. Chemistry of Materials, 2018, 30, 841-846.	3.2	29
61	Differences between amorphous indium oxide thin films. Progress in Natural Science: Materials International, 2013, 23, 475-480.	1.8	27
62	Defining the Structure of a Proteinâ€“Spherical Nucleic Acid Conjugate and Its Counterionic Cloud. ACS Central Science, 2018, 4, 378-386.	5.3	27
63	Imaging of Atomic Layer Deposited (ALD) Tungsten Monolayers on Î±-TiO2(110) by X-ray Standing Wave Fourier Inversion. Journal of Physical Chemistry B, 2006, 110, 12616-12620.	1.2	26
64	Morphological Evolution of Multilayer Ni/NiO Thin Film Electrodes during Lithiation. ACS Applied Materials & Interfaces, 2016, 8, 19979-19986.	4.0	26
65	Counterion Distribution Surrounding Spherical Nucleic Acidâ€“Au Nanoparticle Conjugates Probed by Small-Angle X-ray Scattering. ACS Nano, 2013, 7, 11301-11309.	7.3	25
66	Polarity-driven oxygen vacancy formation in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaNiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m films on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review Materials, 2017, 1, .	0.9	25
67	The role of trace Ag in the synthesis of Au nanorods. Nanoscale, 2019, 11, 11744-11754.	2.8	24
68	Self-Assembled Nanodielectrics for Solution-Processed Top-Gate Amorphous IGZO Thin-Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 15399-15408.	4.0	24
69	Direct Profiling and Reversibility of Ion Distribution at a Charged Membrane/Aqueous Interface:Â An X-ray Standing Wave Study. Langmuir, 2001, 17, 3671-3681.	1.6	22
70	Direct Atomic-Scale Observation of Redox-Induced Cation Dynamics in an Oxide-Supported Monolayer Catalyst: WO_xÎ±-Fe₂O₃(0001). Journal of the American Chemical Society, 2009, 131, 18200-18201.	6.6	22
71	Structural and Physical Property Studies of Amorphous <scp><scp>Zn</scp></scp>â€“<scp><scp>In</scp></scp>â€“<scp><scp>Sn</scp></scp>â€“<scp><scp>O</scp>κ¢scp> Thin Films. Journal of the American Ceramic Society, 2012, 95, 3657-3664.		22
72	Angular distribution of the photoelectron yield excited by two coherently coupled photon beams. Physical Review Letters, 1989, 63, 1172-1175.	2.9	21

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73	Impact of charge switching stimuli on supramolecular perylene monoimide assemblies. Chemical Science, 2019, 10, 5779-5786.	3.7	21
74	Atomic-Scale Study of Ambient-Pressure Redox-Induced Changes for an Oxide-Supported Submonolayer Catalyst: VO_x/Î±-TiO₂(110). Journal of Physical Chemistry Letters, 2012, 3, 2845-2850.	2.1	20
75	Comparative X-ray Standing Wave Analysis of Metalâ^'Phosphonate Multilayer Films of Dodecane and Porphyrin Molecular Square. Journal of Physical Chemistry B, 2005, 109, 1441-1450.	1.2	19
76	Catalysts Transform While Molecules React: An Atomic-Scale View. Journal of Physical Chemistry Letters, 2013, 4, 285-291.	2.1	19
77	Molecular Packing of Amphiphilic Nanosheets Resolved by X-ray Scattering. Journal of Physical Chemistry C, 2017, 121, 1047-1054.	1.5	19
78	Insights on the Aluminaâ€“Water Interface Structure by Direct Comparison of Density Functional Simulations with X-ray Reflectivity. Journal of Physical Chemistry C, 2018, 122, 26934-26944.	1.5	19
79	Dimensionally Controlled Lithiation of Chromium Oxide. Chemistry of Materials, 2016, 28, 47-54.	3.2	18
80	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. ACS Energy Letters, 2017, 2, 2415-2421.	8.8	18
81	The Dipole Moment Inversion Effects in Self-Assembled Nanodielectrics for Organic Transistors. Chemistry of Materials, 2017, 29, 9974-9980.	3.2	18
82	Pulsed Laser Deposition and Characterization of Heteroepitaxial LiMn₂O₄/La_{0.5}Sr_{0.5}CoO₃ Bilayer Thin Films as Model Lithium Ion Battery Cathodes. ACS Applied Nano Materials, 2018, 1, 642-653.	2.4	18
83	Strain-Driven Mn-Reorganization in Overlithiated Li_xMn₂O₄ Epitaxial Thin-Film Electrodes. ACS Applied Energy Materials, 2018, 1, 2526-2535.	2.5	18
84	Electrostatic shape control of a charged molecular membrane from ribbon to scroll. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22030-22036.	3.3	18
85	Growth of Extra-Large Chromophore Supramolecular Polymers for Enhanced Hydrogen Production. Nano Letters, 2021, 21, 3745-3752.	4.5	18
86	Complex surface structure of (110) terminated strontium titanate nanododecahedra. Nanoscale, 2016, 8, 16606-16611.	2.8	17
87	Lithiation of multilayer Ni/NiO electrodes: criticality of nickel layer thicknesses on conversion reaction kinetics. Physical Chemistry Chemical Physics, 2017, 19, 20029-20039.	1.3	17
88	Synthesis of Supported Pd⁰ Nanoparticles from a Single-Site Pd²⁺ Surface Complex by Alkene Reduction. Chemistry of Materials, 2018, 30, 1032-1044.	3.2	17
89	Large-area optoelectronic-grade InSe thin films via controlled phase evolution. Applied Physics Reviews, 2020, 7, .	5.5	17
90	Redox Driven Crystalline Coherent-Incoherent Transformation for a 2 ML VO_x Film Grown on Î±-TiO₂(110). Journal of Physical Chemistry C, 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. ACS Nano, 2019, 13, 7825-7832.	7.3	16
92	Structureâ€“Charge Transport Relationships in Fluoride-Doped Amorphous Semiconducting Indium Oxide: Combined Experimental and Theoretical Analysis. Chemistry of Materials, 2020, 32, 805-820.	3.2	16
93	Epitaxial graphene-encapsulated surface reconstruction of Ge(110). Physical Review Materials, 2018, 2, .	0.9	16
94	Elastic relaxation and correlation of local strain gradients with ferroelectric domains in (001) BiFeO3 nanostructures. Applied Physics Letters, 2011, 99, 052902.	1.5	15
95	Processing, Structure, and Transistor Performance: Combustion versus Pulsed Laser Growth of Amorphous Oxides. ACS Applied Electronic Materials, 2019, 1, 548-557.	2.0	15
96	Morphology and oxidation state of ALD-grown Pd nanoparticles on TiO2- and SrO-terminated SrTiO3 nanocuboids. Surface Science, 2016, 648, 291-298.	0.8	14
97	Reversible Li-Ion Conversion Reaction for a Ti_xGe Alloy in a Ti/Ge Multilayer. ACS Applied Materials & Interfaces, 2017, 9, 8169-8176.	4.0	14
98	Low-Loss Near-Infrared Hyperbolic Metamaterials with Epitaxial ITO-In₂O₃ Multilayers. ACS Photonics, 2018, 5, 2000-2007.	3.2	14
99	Thermal stability of amorphous Zn-In-Sn-O films. Journal of Electroceramics, 2015, 34, 167-174.	0.8	13
100	Structural analysis of the initial lithiation of NiO thin film electrodes. Physical Chemistry Chemical Physics, 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. ACS Applied Energy Materials, 2021, 4, 11069-11079.	2.5	13
102	Synthesis and Structureâ€“Activity Characterization of a Single-Site MoO₂ Catalytic Center Anchored on Reduced Graphene Oxide. Journal of the American Chemical Society, 2021, 143, 21532-21540.	6.6	13
103	Multistates and Polyamorphism in Phase-Change K₂Sb₈Se₁₃. Journal of the American Chemical Society, 2018, 140, 9261-9268.	6.6	12
104	Printable Organicâ€Inorganic Nanoscale Multilayer Gate Dielectrics for Thinâ€Film Transistors Enabled by a Polymeric Organic Interlayer. Advanced Functional Materials, 2020, 30, 2005069.	7.8	12
105	Unexpected trends in the enhanced Ce³⁺ surface concentration in ceriaâ€“zirconia catalyst materials. Journal of Materials Chemistry A, 2020, 8, 9850-9858.	5.2	12
106	Atomic Imaging of Oxide-Supported Metallic Nanocrystals. ACS Nano, 2011, 5, 9755-9760.	7.3	11
107	Thin Film RuO₂ Lithiation: Fast Lithiumâ€Ion Diffusion along the Interface. Advanced Functional Materials, 2018, 28, 1805723.	7.8	11
108	Hierarchical nanoparticle morphology for platinum supported on SrTiO3 (001): A combined microscopy and X-ray scattering study. Applied Surface Science, 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. Physical Review B, 2010, 81, .	1.1	9
110	Mesophase in a Thiolate-Containing Diacyl Phospholipid Self-Assembled Monolayer. Langmuir, 2015, 31, 3232-3241.	1.6	9
111	Ultraviolet Light-Densified Oxide-Organic Self-Assembled Dielectrics: Processing Thin-Film Transistors at Room Temperature. ACS Applied Materials & Interfaces, 2021, 13, 3445-3453.	4.0	9
112	Amorphous to Crystal Phase Change Memory Effect with Two-Fold Bandgap Difference in Semiconducting K₂Bi₈Se₁₃. Journal of the American Chemical Society, 2021, 143, 6221-6228.	6.6	9
113	Hidden Complexity in the Chemistry of Ammonolysis-Derived â€œÎ³-Mo₂Nâ€ An Overlooked Oxynitride Hydride. Chemistry of Materials, 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. ACS Catalysis, 2022, 12, 1247-1257.	5.5	8
115	Thermally induced nanoscale structural and morphological changes for atomic-layer-deposited Pt on SrTiO3(001). Journal of Applied Physics, 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 Liquidâ€“Air Interface. Langmuir, 2016, 32, 6666-6673.	1.6	7
118	Role of Fluoride Doping in Low-Temperature Combustion-Synthesized ZrO_x Dielectric Films. ACS Applied Materials & Interfaces, 2022, 14, 12340-12349.	4.0	7
119	Enzymatic Degradation of DNA Probed by In Situ X-ray Scattering. ACS Nano, 2019, 13, 11382-11391.	7.3	6
120	Combustion Synthesis and Polymer Doping of Metal Oxides for High-Performance Electronic Circuitry. Accounts of Chemical Research, 2022, 55, 429-441.	7.6	6
121	Processing-dependent thermal stability of a prototypical amorphous metal oxide. Physical Review Materials, 2018, 2, .	0.9	5
122	Electrodes: Lithium Intercalation Behavior in Multilayer Silicon Electrodes (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	10.2	4
123	Measuring Dipole Inversion in Self-Assembled Nano-Dielectric Molecular Layers. ACS Applied Materials & Interfaces, 2018, 10, 6484-6490.	4.0	4
124	Surface Chemistry and Long-Term Stability of Amorphous Znâ€“Snâ€“O Thin Films. Journal of Physical Chemistry C, 2018, 122, 28151-28157.	1.5	4
125	Atomic-Scale View of Redox Induced Changes for Monolayer MoO_x on Î±-TiO₂(110) with Chemical-State Sensitivity. Journal of Physical Chemistry Letters, 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 Î²-TaON (100)/Î±-Al2O3 (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 Highâ€Voltage Degradation Cascades in Cobaltâ€Free LiNiO₂ Lithiumâ€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 Thinâ€Film Transistors: UVâ€“Ozone Interfacial Modification in Organic Transistors for Highâ€Sensitivity NO₂ 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