

# Michael J Bedzyk

## List of Publications by Year in descending order

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144  
papers

5,423  
citations

76196

40  
h-index

98622

67  
g-index

145  
all docs

145  
docs citations

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times ranked

9590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating and Mitigating High-Voltage Degradation Cascades in Cobalt-Free LiNiO <sub>2</sub> Lithium-Ion Battery Cathodes. <i>Advanced Materials</i> , 2022, 34, e2106402.	11.1	44
2	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
3	Elucidating and Mitigating High-Voltage Degradation Cascades in Cobalt-Free LiNiO <sub>2</sub> Lithium-Ion Battery Cathodes (Adv. Mater. 3/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	1
4	Diverse Mechanistic Pathways in Single-Site Heterogeneous Catalysis: Alcohol Conversions Mediated by a High-Valent Carbon-Supported Molybdenum-Dioxo Catalyt. <i>ACS Catalysis</i> , 2022, 12, 1247-1257.	5.5	8
5	Role of Fluoride Doping in Low-Temperature Combustion-Synthesized ZrO <sub>2</sub> Dielectric Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 12340-12349.	4.0	7
6	Systematic Analysis of Self-Assembled Nanodielectric Architecture and Organization Effects on Organic Transistor Switching. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2015-2025.	2.0	2
7	Atomic-Site-Specific Surface Valence-Band Structure from X-Ray Standing-Wave Excited Photoemission. <i>Physical Review Letters</i> , 2022, 128, .	2.9	0
8	Stability, metallicity, and magnetism in niobium silicide nanofilms. <i>Physical Review Materials</i> , 2022, 6, .	0.9	1
9	Atomic-Scale View of Redox Induced Changes for Monolayer MoO <sub>3</sub> on $\sqrt{2} \times \sqrt{2}$ -TiO <sub>2</sub> (110) with Chemical-State Sensitivity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5304-5309.	2.1	4
10	Elucidating and Mitigating High-Voltage Interfacial Chemomechanical Degradation of Nickel-Rich Lithium-Ion Battery Cathodes Via Conformal Graphene Coating. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 317-317.	0.0	0
11	Ultraviolet Light-Densified Oxide-Organic Self-Assembled Dielectrics: Processing Thin-Film Transistors at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3445-3453.	4.0	9
12	Thermal Atomic Layer Deposition of Gold: Mechanistic Insights, Nucleation, and Epitaxy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9091-9100.	4.0	2
13	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
14	Self-Assembled Nanodielectrics for Solution-Processed Top-Gate Amorphous IGZO Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15399-15408.	4.0	24
15	Amorphous to Crystal Phase Change Memory Effect with Two-Fold Bandgap Difference in Semiconducting K <sub>2</sub> Bi <sub>8</sub> Se <sub>13</sub> . <i>Journal of the American Chemical Society</i> , 2021, 143, 6221-6228.	6.6	9
16	Growth of Extra-Large Chromophore Supramolecular Polymers for Enhanced Hydrogen Production. <i>Nano Letters</i> , 2021, 21, 3745-3752.	4.5	18
17	Hidden Complexity in the Chemistry of Ammonolysis-Derived $\alpha$ -Mo <sub>2</sub> N <sub>3</sub> : An Overlooked Oxynitride Hydride. <i>Chemistry of Materials</i> , 2021, 33, 6671-6684.	3.2	8
18	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

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19	Enhancing Phase Mapping for High-throughput X-ray Diffraction Experiments using Fuzzy Clustering. , 2021, , .		1
20	Atomic-Scale Structure of Chemically Distinct Surface Oxygens in Redox Reactions. Journal of the American Chemical Society, 2021, 143, 17937-17941.	6.6	3
21	Synthesis and Structure-Activity Characterization of a Single-Site MoO <sub>2</sub> Catalytic Center Anchored on Reduced Graphene Oxide. Journal of the American Chemical Society, 2021, 143, 21532-21540.	6.6	13
22	Structure-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
23	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
24	Large-area optoelectronic-grade InSe thin films via controlled phase evolution. Applied Physics Reviews, 2020, 7, .	5.5	17
25	Combinatorial Approach for Single-Crystalline TaON Growth: Epitaxial $\sqrt{2}\text{-TaON (100)}/\sqrt{3}\text{-Al}_2\text{O}_3 (012)$ . ACS Applied Electronic Materials, 2020, 2, 3571-3576.	2.0	3
26	Printable Organic-Inorganic Nanoscale Multilayer Gate Dielectrics for Thin-Film Transistors Enabled by a Polymeric Organic Interlayer. Advanced Functional Materials, 2020, 30, 2005069.	7.8	12
27	Unexpected trends in the enhanced Ce <sup>3+</sup> surface concentration in ceria-zirconia catalyst materials. Journal of Materials Chemistry A, 2020, 8, 9850-9858.	5.2	12
28	X-ray atomic mapping of quantum dots. Physical Review Materials, 2020, 4, .	0.9	3
29	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
30	Enzymatic Degradation of DNA Probed by <i>In Situ</i> X-ray Scattering. ACS Nano, 2019, 13, 11382-11391.	7.3	6
31	The role of trace Ag in the synthesis of Au nanorods. Nanoscale, 2019, 11, 11744-11754.	2.8	24
32	Understanding the Role of Overpotentials in Lithium Ion Conversion Reactions: Visualizing the Interface. ACS Nano, 2019, 13, 7825-7832.	7.3	16
33	Impact of charge switching stimuli on supramolecular perylene monoimide assemblies. Chemical Science, 2019, 10, 5779-5786.	3.7	21
34	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
35	Processing, Structure, and Transistor Performance: Combustion versus Pulsed Laser Growth of Amorphous Oxides. ACS Applied Electronic Materials, 2019, 1, 548-557.	2.0	15
36	Structural analysis of the initial lithiation of NiO thin film electrodes. Physical Chemistry Chemical Physics, 2019, 21, 8897-8905.	1.3	13

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37	Polymer Doping Enables a Two-Dimensional Electron Gas for High-Performance Homojunction Oxide Thin-Film Transistors. <i>Advanced Materials</i> , 2019, 31, e1805082.	11.1	43
38	Morphology and CO Oxidation Activity of Pd Nanoparticles on SrTiO <sub>3</sub> Nanopolyhedra. <i>ACS Catalysis</i> , 2018, 8, 4751-4760.	5.5	38
39	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
40	Resolving the Chemically Discrete Structure of Synthetic Borophene Polymorphs. <i>Nano Letters</i> , 2018, 18, 2816-2821.	4.5	56
41	Measuring Dipole Inversion in Self-Assembled Nano-Dielectric Molecular Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6484-6490.	4.0	4
42	All Roads Lead to TiO <sub>2</sub> : TiO <sub>2</sub> -Rich Surfaces of Barium and Strontium Titanate Prepared by Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2018, 30, 841-846.	3.2	29
43	Synthesis of Supported Pd <sup>0</sup> Nanoparticles from a Single-Site Pd <sup>2+</sup> Surface Complex by Alkene Reduction. <i>Chemistry of Materials</i> , 2018, 30, 1032-1044.	3.2	17
44	Pulsed Laser Deposition and Characterization of Heteroepitaxial LiMn <sub>2</sub> O <sub>4</sub> /La <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> Bilayer Thin Films as Model Lithium Ion Battery Cathodes. <i>ACS Applied Nano Materials</i> , 2018, 1, 642-653.	2.4	18
45	Molecular Control of Internal Crystallization and Photocatalytic Function in Supramolecular Nanostructures. <i>CheM</i> , 2018, 4, 1596-1608.	5.8	46
46	Low-Loss Near-Infrared Hyperbolic Metamaterials with Epitaxial ITO-In <sub>2</sub> O <sub>3</sub> Multilayers. <i>ACS Photonics</i> , 2018, 5, 2000-2007.	3.2	14
47	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
48	Thin Film RuO <sub>2</sub> Lithiation: Fast Lithium-Ion Diffusion along the Interface. <i>Advanced Functional Materials</i> , 2018, 28, 1805723.	7.8	11
49	Surface Chemistry and Long-Term Stability of Amorphous Zn-Sn-O Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28151-28157.	1.5	4
50	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
51	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
52	Hyperbolic Dispersion Arising from Anisotropic Excitons in Two-Dimensional Perovskites. <i>Physical Review Letters</i> , 2018, 121, 127401.	2.9	51
53	Strain-Driven Mn-Reorganization in Overlithiated Li <sub>x</sub> Mn <sub>2</sub> O <sub>4</sub> Epitaxial Thin-Film Electrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 2526-2535.	2.5	18
54	Multistates and Polyamorphism in Phase-Change K <sub>2</sub> Sb <sub>8</sub> Se <sub>13</sub> . <i>Journal of the American Chemical Society</i> , 2018, 140, 9261-9268.	6.6	12

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55	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
56	Epitaxial graphene-encapsulated surface reconstruction of Ge(110). Physical Review Materials, 2018, 2, .	0.9	16
57	Processing-dependent thermal stability of a prototypical amorphous metal oxide. Physical Review Materials, 2018, 2, .	0.9	5
58	Chemical vapor deposition of monolayer MoS <sub>2</sub> directly on ultrathin Al <sub>2</sub> O <sub>3</sub> for low-power electronics. Applied Physics Letters, 2017, 110, .	1.5	72
59	Molecular Packing of Amphiphilic Nanosheets Resolved by X-ray Scattering. Journal of Physical Chemistry C, 2017, 121, 1047-1054.	1.5	19
60	Template-Free Vapor-Phase Growth of Pat <sup>3</sup> nite by Atomic Layer Deposition. Chemistry of Materials, 2017, 29, 2864-2873.	3.2	37
61	Electrostatic Control of Polymorphism in Charged Amphiphile Assemblies. Journal of Physical Chemistry B, 2017, 121, 1623-1628.	1.2	37
62	Reversible Li-Ion Conversion Reaction for a Ti <sub>x</sub> Ge Alloy in a Ti/Ge Multilayer. ACS Applied Materials & Interfaces, 2017, 9, 8169-8176.	4.0	14
63	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. Journal of the American Chemical Society, 2017, 139, 6120-6127.	6.6	60
64	High Voltage LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> /Graphite Cell Cycled at 4.6 V with a FEC/HFDEC-Based Electrolyte. Advanced Energy Materials, 2017, 7, 1700109.	10.2	98
65	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
66	UV-Ozone Interfacial Modification in Organic Transistors for High-Sensitivity NO <sub>2</sub> Detection. Advanced Materials, 2017, 29, 1701706.	11.1	106
67	Enhanced Efficiency of Hot-Cast Large-Area Planar Perovskite Solar Cells/Modules Having Controlled Chloride Incorporation. Advanced Energy Materials, 2017, 7, 1601660.	10.2	191
68	Probing the Unique Role of Gallium in Amorphous Oxide Semiconductors through Structure-Property Relationships. Advanced Electronic Materials, 2017, 3, 1700189.	2.6	32
69	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. ACS Energy Letters, 2017, 2, 2415-2421.	8.8	18
70	Organic Thin-Film Transistors: UV-Ozone Interfacial Modification in Organic Transistors for High-Sensitivity NO <sub>2</sub> Detection (Adv. Mater. 31/2017). Advanced Materials, 2017, 29, .	11.1	0
71	How Ag Nanospheres Are Transformed into AgAu Nanocages. Journal of the American Chemical Society, 2017, 139, 12291-12298.	6.6	72
72	The Dipole Moment Inversion Effects in Self-Assembled Nanodielectrics for Organic Transistors. Chemistry of Materials, 2017, 29, 9974-9980.	3.2	18

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73	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
74	Enhanced Light Absorption in Fluorinated Ternary Small-Molecule Photovoltaics. <i>ACS Energy Letters</i> , 2017, 2, 1690-1697.	8.8	33
75	Polarity-driven oxygen vacancy formation in ultrathin $\text{LaNiO}_3$ films on $\text{SrTiO}_3$ . <i>Physical Review Materials</i> , 2017, 1, .	0.9	25
76	Dynamics of Electrochemical Conversion of Nanoscale Metal-Metal Oxide Multilayer Architecture. <i>Microscopy and Microanalysis</i> , 2016, 22, 1316-1317.	0.2	1
77	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
78	Polyanthraquinone-Based Organic Cathode for High-Performance Rechargeable Magnesium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600140.	10.2	210
79	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
80	Long-term Room Temperature Instability in Thermal Conductivity of InGaZnO Thin Films. <i>MRS Advances</i> , 2016, 1, 1631-1636.	0.5	3
81	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
82	Oxide Transistors: Metal Oxide Transistors via Polyethylenimine Doping of the Channel Layer: Interplay of Doping, Microstructure, and Charge Transport (Adv. Funct. Mater. 34/2016). <i>Advanced Functional Materials</i> , 2016, 26, 6320-6320.	7.8	0
83	Complex surface structure of (110) terminated strontium titanate nanododecahedra. <i>Nanoscale</i> , 2016, 8, 16606-16611.	2.8	17
84	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
85	Morphological Evolution of Multilayer Ni/NiO Thin Film Electrodes during Lithiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19979-19986.	4.0	26
86	Electrolyte-Mediated Assembly of Charged Nanoparticles. <i>ACS Central Science</i> , 2016, 2, 219-224.	5.3	31
87	Valence Change Ability and Geometrical Occupation of Substitution Cations Determine the Pseudocapacitance of Spinel Ferrite $\text{XFe}_2\text{O}_4$ (X = Mn, Co, Ni, Fe). <i>Chemistry of Materials</i> , 2016, 28, 4129-4133.	3.2	98
88	Solution-Processed All-Oxide Transparent High-Performance Transistors Fabricated by Spray-Combustion Synthesis. <i>Advanced Electronic Materials</i> , 2016, 2, 1500427.	2.6	101
89	Rotationally Commensurate Growth of $\text{MoS}_2$ on Epitaxial Graphene. <i>ACS Nano</i> , 2016, 10, 1067-1075.	7.3	176
90	Dimensionally Controlled Lithiation of Chromium Oxide. <i>Chemistry of Materials</i> , 2016, 28, 47-54.	3.2	18

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91	Morphology and oxidation state of ALD-grown Pd nanoparticles on TiO <sub>2</sub> - and SrO-terminated SrTiO <sub>3</sub> nanocuboids. <i>Surface Science</i> , 2016, 648, 291-298.	0.8	14
92	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
93	Diperfluorophenyl Fused Thiophene Semiconductors for n-type Organic Thin Film Transistors (OTFTs). <i>Advanced Electronic Materials</i> , 2015, 1, 1500098.	2.6	45
94	Cation Size Effects on the Electronic and Structural Properties of Solution-Processed In <sub>2</sub> O <sub>3</sub> Thin Films. <i>Advanced Electronic Materials</i> , 2015, 1, 1500146.	2.6	36
95	Ultra-Flexible, In-Visible Thin-Film Transistors Enabled by Amorphous Metal Oxide/Polymer Channel Layer Blends. <i>Advanced Materials</i> , 2015, 27, 2390-2399.	11.1	116
96	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
97	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
98	Mesophase in a Thiolate-Containing Diacyl Phospholipid Self-Assembled Monolayer. <i>Langmuir</i> , 2015, 31, 3232-3241.	1.6	9
99	Electronic and Mechanical Properties of Graphene-Germanium Interfaces Grown by Chemical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 7414-7420.	4.5	103
100	Thermal stability of amorphous Zn-In-Sn-O films. <i>Journal of Electroceramics</i> , 2015, 34, 167-174.	0.8	13
101	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
102	Lithium Intercalation Behavior in Multilayer Silicon Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1301494.	10.2	35
103	Electrodes: Lithium Intercalation Behavior in Multilayer Silicon Electrodes ( <i>Adv. Energy Mater.</i> ) Tj ETQq1 1 0.784314 rrgBT /Overlock 10.2	10.2	4
104	Structural Transformations of Zinc Oxide Layers on Pt(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 28725-28729.	1.5	45
105	Chemically Resolved Interface Structure of Epitaxial Graphene on SiC(0001). <i>Physical Review Letters</i> , 2013, 111, 215501.	2.9	70
106	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
107	Differences between amorphous indium oxide thin films. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 475-480.	1.8	27
108	Fused Thiophene Semiconductors: Crystal Structure-Film Microstructure Transistor Performance Correlations. <i>Advanced Functional Materials</i> , 2013, 23, 3850-3865.	7.8	34

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109	Ambient-Processable High Capacitance Hafnia-Organic Self-Assembled Nanodielectrics. <i>Journal of the American Chemical Society</i> , 2013, 135, 8926-8939.	6.6	69
110	Catalysts Transform While Molecules React: An Atomic-Scale View. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 285-291.	2.1	19
111	Printed Indium Gallium Zinc Oxide Transistors. Self-Assembled Nanodielectric Effects on Low-Temperature Combustion Growth and Carrier Mobility. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11884-11893.	4.0	69
112	X-RAY STANDING WAVE AT THE TOTAL REFLECTION CONDITION. <i>Series on Synchrotron Radiation Techniques and Applications</i> , 2013, , 94-107.	0.2	3
113	X-RAY STANDING WAVE IN MULTILAYERS. <i>Series on Synchrotron Radiation Techniques and Applications</i> , 2013, , 122-131.	0.2	7
114	XSW IMAGING. <i>Series on Synchrotron Radiation Techniques and Applications</i> , 2013, , 289-302.	0.2	2
115	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
116	Structural and Physical Property Studies of Amorphous Zn <sub>2</sub> SnO <sub>4</sub> Thin Films. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3657-3664.	2.1	22
117	Molecular Crystallization Controlled by pH Regulates Mesoscopic Membrane Morphology. <i>ACS Nano</i> , 2012, 6, 10901-10909.	7.3	56
118	Atomic-Scale Study of Ambient-Pressure Redox-Induced Changes for an Oxide-Supported Submonolayer Catalyst: VO <sub>x</sub> /TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2845-2850.	2.1	20
119	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
120	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
121	Atomic Imaging of Oxide-Supported Metallic Nanocrystals. <i>ACS Nano</i> , 2011, 5, 9755-9760.	7.3	11
122	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
123	Elastic relaxation and correlation of local strain gradients with ferroelectric domains in (001) BiFeO <sub>3</sub> nanostructures. <i>Applied Physics Letters</i> , 2011, 99, 052902.	1.5	15
124	Preface to Special Topic: Selected Papers from The Eleventh International Conference on Surface X-Ray and Neutron Scattering. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	0
125	Thermally induced nanoscale structural and morphological changes for atomic-layer-deposited Pt on SrTiO <sub>3</sub> (001). <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	7
126	Effects of cantilever buckling on vector piezoresponse force microscopy imaging of ferroelectric domains in BiFeO <sub>3</sub> nanostructures. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	56



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127	Direct method for imaging elemental distribution profiles with long-period x-ray standing waves. <i>Physical Review B</i> , 2010, 81, .	1.1	9
128	Three-dimensional ferroelectric domain imaging of epitaxial BiFeO <sub>3</sub> thin films using angle-resolved piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	54
129	Redox Driven Crystalline Coherent-Incoherent Transformation for a 2 ML VO <sub>x</sub> Film Grown on Î±-TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 19723-19726.	1.5	16
130	Nanoscale piezoresponse studies of ferroelectric domains in epitaxial BiFeO <sub>3</sub> nanostructures. <i>Journal of Applied Physics</i> , 2009, 105, 061619.	1.1	37
131	Controlled Growth of Platinum Nanoparticles on Strontium Titanate Nanocubes by Atomic Layer Deposition. <i>Small</i> , 2009, 5, 750-757.	5.2	158
132	Hierarchical nanoparticle morphology for platinum supported on SrTiO <sub>3</sub> (001): A combined microscopy and X-ray scattering study. <i>Applied Surface Science</i> , 2009, 256, 423-427.	3.1	10
133	Nanoscale Structure and Morphology of Atomic Layer Deposition Platinum on SrTiO <sub>3</sub> (001). <i>Chemistry of Materials</i> , 2009, 21, 516-521.	3.2	63
134	Direct Atomic-Scale Observation of Redox-Induced Cation Dynamics in an Oxide-Supported Monolayer Catalyst: WO <sub>x</sub> /Î±-Fe <sub>2</sub> O <sub>3</sub> (0001). <i>Journal of the American Chemical Society</i> , 2009, 131, 18200-18201.	6.6	22
135	Structure of rutile TiO <sub>2</sub> (110) in water and 1molal Rb <sup>+</sup> 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
136	Imaging of Atomic Layer Deposited (ALD) Tungsten Monolayers on Î±-TiO <sub>2</sub> (110) by X-ray Standing Wave Fourier Inversion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12616-12620.	1.2	26
137	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
138	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
139	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
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