

# Harry M Meyer

## List of Publications by Year in descending order

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243  
papers

12,542  
citations

30070

54  
h-index

31849

101  
g-index

249  
all docs

249  
docs citations

249  
times ranked

16684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Graphene Oxide Aerogels with Functionalization-Mediated Disordered Stacking for Sodium-Ion Batteries. <i>Batteries</i> , 2022, 8, 12.	4.5	5
2	Enhancing Cycling Stability and Capacity Retention of NMC811 Cathodes by Reengineering Interfaces via Electrochemical Fluorination. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	10
3	Interaction of beryllium with 316H stainless steel in molten Li <sub>2</sub> BeF <sub>4</sub> (FLiBe). <i>Journal of Nuclear Materials</i> , 2022, 565, 153698.	2.7	12
4	MoS <sub>2</sub> nanosheet integrated electrodes with engineered 1T-2H phases and defects for efficient hydrogen production in practical PEM electrolysis. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121458.	20.2	33
5	Modified coal char materials with high rate performance for battery applications. <i>Carbon</i> , 2021, 172, 414-421.	10.3	21
6	Na <sub>1+x</sub> Mn <sub>x/2</sub> Zr <sub>2x</sub> (PO <sub>4</sub> ) <sub>3</sub> as a Li <sup>+</sup> and Na <sup>+</sup> Super Ion Conductor for Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 429-436.	17.4	20
7	Low-Cost Transformation of Biomass-Derived Carbon to High-Performing Nano-graphite via Low-Temperature Electrochemical Graphitization. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4393-4401.	8.0	26
8	Structural Interconversion between Agglomerated Palladium Domains and Mononuclear Pd(II) Cations in Chabazite Zeolites. <i>Chemistry of Materials</i> , 2021, 33, 1698-1713.	6.7	42
9	Enabling aqueous processing for LiNi <sub>0.80</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> (NCA)-based lithium-ion battery cathodes using polyacrylic acid. <i>Electrochimica Acta</i> , 2021, 380, 138203.	5.2	33
10	Photoinduced Strong Metal-Support Interaction for Enhanced Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 8521-8526.	13.7	85
11	Chromium evaporation and oxidation characteristics of alumina-forming austenitic stainless steels for balance of plant applications in solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21619-21633.	7.1	15
12	Wear penalty for steel rubbing against hard coatings in reactive lubricants due to tribochemical interactions. <i>Tribology International</i> , 2021, 160, 107010.	5.9	8
13	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38221-38228.	8.0	13
14	Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> coated separators: Roll-to-roll processing and implications for improved battery safety and performance. <i>Journal of Power Sources</i> , 2021, 507, 230259.	7.8	30
15	Polymer, Additives, and Processing Effects on N95 Filter Performance. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1022-1031.	4.4	21
16	RF sheath induced sputtering on Proto-MPEX part 2: Impurity transport modeling and experimental comparison. <i>Physics of Plasmas</i> , 2021, 28, 103508.	1.9	6
17	Operando Analysis of Gas Evolution in TiNb <sub>2</sub> O <sub>7</sub> (TNO)-Based Anodes for Advanced High-Energy Lithium-Ion Batteries under Fast Charging. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 55145-55155.	8.0	15
18	Chemical stability and long-term cell performance of low-cobalt, Ni-Rich cathodes prepared by aqueous processing for high-energy Li-Ion batteries. <i>Energy Storage Materials</i> , 2020, 24, 188-197.	18.0	155

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19	Compatibility of FeCrAlMo with flowing PbLi at 500 <sup>o</sup> -650 <sup>o</sup> C. Journal of Nuclear Materials, 2020, 528, 151847.	2.7	19
20	Composition-Preserving Extraction and Characterization of Biomass Extrinsic and Intrinsic Inorganic Compounds. ACS Sustainable Chemistry and Engineering, 2020, 8, 1599-1610.	6.7	11
21	Laser-interference pulse number dependence of surface chemistry and sub-surface microstructure of AA2024-T3 alloy. Optics and Laser Technology, 2020, 131, 106457.	4.6	6
22	New synthesis strategies to improve Co-Free LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> cathodes: Early transition metal d <sub>0</sub> dopants and manganese pyrophosphate coating. Journal of Power Sources, 2020, 479, 228591.	7.8	22
23	Direct Characterization of Atomically Dispersed Catalysts: Nitrogen-Coordinated Ni Sites in Carbon-Based Materials for CO <sub>2</sub> Electroreduction. Advanced Energy Materials, 2020, 10, 2001836.	19.5	46
24	Solvent-Mediated Synthesis of Amorphous Li <sub>3</sub> PS <sub>4</sub> /Polyethylene Oxide Composite Solid Electrolytes with High Li <sup>+</sup> Conductivity. Chemistry of Materials, 2020, 32, 8789-8797.	6.7	21
25	Styrene-Based Elastomer Composites with Functionalized Graphene Oxide and Silica Nanofiber Fillers: Mechanical and Thermal Conductivity Properties. Nanomaterials, 2020, 10, 1682.	4.1	14
26	Investigation of Complex Intermediates in Solvent-Mediated Synthesis of Thiophosphate Solid-State Electrolytes. Journal of Physical Chemistry C, 2020, 124, 27396-27402.	3.1	9
27	Lithium and transition metal dissolution due to aqueous processing in lithium-ion battery cathode active materials. Journal of Power Sources, 2020, 466, 228315.	7.8	61
28	Synthesizing High-Capacity Oxyfluoride Conversion Anodes by Direct Fluorination of Molybdenum Dioxide (MoO <sub>2</sub> ). ChemSusChem, 2020, 13, 3825-3834.	6.8	12
29	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. ACS Nano, 2020, 14, 3896-3906.	14.6	136
30	Ultralow Boundary Lubrication Friction by Three-Way Synergistic Interactions among Ionic Liquid, Friction Modifier, and Dispersant. ACS Applied Materials & Interfaces, 2020, 12, 17077-17090.	8.0	36
31	Ion-gated carbon molecular sieve gas separation membranes. Journal of Membrane Science, 2020, 604, 118013.	8.2	15
32	Material-Dependent Antagonistic Effects between Soot and ZDDP. Advanced Materials Interfaces, 2020, 7, 1901956.	3.7	5
33	Surpassing Robeson Upper Limit for CO <sub>2</sub> /N <sub>2</sub> Separation with Fluorinated Carbon Molecular Sieve Membranes. Chem, 2020, 6, 631-645.	11.7	73
34	Probing the Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Interface Upon Lithium Uptake by Operando Small Angle Neutron Scattering. ChemSusChem, 2020, 13, 3654-3661.	6.8	9
35	Temporal Evolution of Corrosion Film Nano-Porosity and Magnesium Alloy Hydrogen Penetration in NaCl Solution. Journal of the Electrochemical Society, 2020, 167, 131513.	2.9	5
36	Re-establishing the paradigm for evaluating halide salt compatibility to study commercial chloride salts at 600 <sup>o</sup> C-800 <sup>o</sup> C. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1439-1449.	1.5	23

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37	High-Voltage Performance of Ni-Rich NCA Cathodes: Linking Operating Voltage with Cathode Degradation. <i>ChemElectroChem</i> , 2019, 6, 5571-5580.	3.4	13
38	Synergistic Interactions Between Silver and Palladium Nanoparticles in Lubrication. <i>ACS Applied Nano Materials</i> , 2019, 2, 5302-5309.	5.0	12
39	A dicyanobenzoquinone based cathode material for rechargeable lithium and sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17888-17895.	10.3	35
40	Surface chemistry and composition-induced variation of laser interference-based surface treatment of Al alloys. <i>Applied Surface Science</i> , 2019, 489, 893-904.	6.1	9
41	Interfacial Reactions and Performance of $\text{Li}_{7/3}\text{La}_3\text{Zr}_2\text{O}_{12}$ -Stabilized Li-Sulfur Hybrid Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42042-42048.	8.0	34
42	Evaluation of Gas Formation and Consumption Driven by Crossover Effect in High-Voltage Lithium-Ion Batteries with Ni-Rich NMC Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43235-43243.	8.0	50
43	Magnesium Alloy Effects on Plasma Electrolytic Oxidation Electro-Ceramic and Electro-Coat Formation and Corrosion Resistance. <i>Journal of the Electrochemical Society</i> , 2019, 166, C492-C508.	2.9	12
44	Defect-Mediated Phase Transformation in Anisotropic Two-Dimensional $\text{PdSe}_2$ Crystals for Seamless Electrical Contacts. <i>Journal of the American Chemical Society</i> , 2019, 141, 8928-8936.	13.7	81
45	Fluorination of MXene by Elemental $\text{F}_2$ as Electrode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 1271-1271.	6.8	0
46	Ionic liquids as oil additives for lubricating oxygen-diffusion case-hardened titanium. <i>Tribology International</i> , 2019, 136, 342-348.	5.9	23
47	Depolymerization of corn stover lignin with bulk molybdenum carbide catalysts. <i>Fuel</i> , 2019, 244, 528-535.	6.4	39
48	Fluorination of MXene by Elemental $\text{F}_2$ as Electrode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 1316-1324.	6.8	28
49	Advancing Lithium- and Manganese-Rich Cathodes through a Combined Electrolyte Additive/Surface Treatment Strategy. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3896-A3907.	2.9	10
50	Corrosion Behavior of Zinc-Nickel and Graphene Layered Structures on Steel Substrates. <i>Advanced Engineering Materials</i> , 2019, 21, 1800949.	3.5	2
51	Bis(trimethylsilyl) 2-fluoromalonate derivatives as electrolyte additives for high voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 412, 527-535.	7.8	47
52	Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation ( <i>Adv. Sustainable Syst.</i> 4/2018). <i>Advanced Sustainable Systems</i> , 2018, 2, 1870030.	5.3	1
53	Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700113.	5.3	6
54	A physical catalyst for the electrolysis of nitrogen to ammonia. <i>Science Advances</i> , 2018, 4, e1700336.	10.3	264

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55	Controlling Water Vapor in Gas-Cell Microscopy Experiments. <i>Microscopy and Microanalysis</i> , 2018, 24, 286-287.	0.4	7
56	Balancing formation time and electrochemical performance of high energy lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 402, 107-115.	7.8	56
57	Anti-soiling and highly transparent coatings with multi-scale features. <i>Solar Energy Materials and Solar Cells</i> , 2018, 188, 255-262.	6.2	30
58	Identifying degradation mechanisms in lithium-ion batteries with coating defects at the cathode. <i>Applied Energy</i> , 2018, 231, 446-455.	10.1	39
59	The response of ZrB <sub>2</sub> to simulated plasma-facing material conditions of He irradiation at high temperature. <i>Journal of Nuclear Materials</i> , 2018, 507, 112-125.	2.7	10
60	Palladium Nanoparticle-Enabled Ultrathick Tribofilm with Unique Composition. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31804-31812.	8.0	26
61	Compatibility between Various Ionic Liquids and an Organic Friction Modifier as Lubricant Additives. <i>Langmuir</i> , 2018, 34, 10711-10720.	3.5	31
62	Selecting the Best Graphite for Long-Life, High-Energy Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1837-A1845.	2.9	65
63	Unraveling the Molecular Weight Dependence of Interfacial Interactions in Poly(2-vinylpyridine)/Silica Nanocomposites. <i>ACS Macro Letters</i> , 2017, 6, 68-72.	4.8	65
64	Toward the Design of a Hierarchical Perovskite Support: Ultra-Sintering-Resistant Gold Nanocatalysts for CO Oxidation. <i>ACS Catalysis</i> , 2017, 7, 3388-3393.	11.2	40
65	Impact of air exposure and surface chemistry on Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> interfacial resistance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13475-13487.	10.3	300
66	Electrolyte Volume Effects on Electrochemical Performance and Solid Electrolyte Interphase in Si-Graphite/NMC Lithium-Ion Pouch Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18799-18808.	8.0	65
67	Powder bed charging during electron-beam additive manufacturing. <i>Acta Materialia</i> , 2017, 124, 437-445.	7.9	69
68	Organic-Modified Silver Nanoparticles as Lubricant Additives. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37227-37237.	8.0	90
69	Rapid Diffusion and Nanosegregation of Hydrogen in Magnesium Alloys from Exposure to Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38125-38134.	8.0	14
70	Lattice Matched Carbide-Phosphide Composites with Superior Electrocatalytic Activity and Stability. <i>Chemistry of Materials</i> , 2017, 29, 9369-9377.	6.7	22
71	Sulfur-Tolerant Molybdenum Carbide Catalysts Enabling Low-Temperature Stabilization of Fast Pyrolysis Bio-oil. <i>Energy &amp; Fuels</i> , 2017, 31, 9585-9594.	5.1	17
72	Effect of Gold on the Microstructural Evolution and Integrity of a Sintered Silver Joint. <i>Journal of Electronic Materials</i> , 2017, 46, 4085-4092.	2.2	5

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73	Model "Alloy" Specimens for MEMS-Based Closed-Cell Gas-Reactions. <i>Microscopy and Microanalysis</i> , 2017, 23, 908-909.	0.4	0
74	Kinetic and potential sputtering of an anorthite-like glassy thin film. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1597-1609.	3.6	10
75	Uniform corrosion of FeCrAl alloys in LWR coolant environments. <i>Journal of Nuclear Materials</i> , 2016, 479, 36-47.	2.7	158
76	Samarium electrodeposited acetate and oxide thin films on stainless steel substrate characterized by XPS. <i>Surface Science Spectra</i> , 2016, 23, 70-81.	1.3	11
77	Samarium and europium beta-alumina derivatives characterized by XPS. <i>Surface Science Spectra</i> , 2016, 23, 102-111.	1.3	3
78	Advanced characterization study of commercial conversion and electrocoating structures on magnesium alloys AZ31B and ZE10A. <i>Surface and Coatings Technology</i> , 2016, 294, 164-176.	4.8	25
79	Influence of Surface Oxidation on Ion Dynamics and Capacitance in Porous and Nonporous Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8730-8741.	3.1	40
80	The impact of carbon coating on the synthesis and properties of $\text{Fe}^{2+}$ -Fe <sub>16</sub> N <sub>2</sub> powders. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13010-13017.	2.8	10
81	High-Selectivity Electrochemical Conversion of CO <sub>2</sub> to Ethanol using a Copper Nanoparticle/N-Doped Graphene Electrode. <i>ChemistrySelect</i> , 2016, 1, 6055-6061.	1.5	251
82	Development of Cast Alumina-Forming Austenitic Stainless Steels. <i>Jom</i> , 2016, 68, 2803-2810.	1.9	21
83	Molybdenum Carbides, Active and <i>In Situ</i> Regenerable Catalysts in Hydroprocessing of Fast Pyrolysis Bio-Oil. <i>Energy &amp; Fuels</i> , 2016, 30, 5016-5026.	5.1	26
84	Tertiary and Quaternary Ammonium-Phosphate Ionic Liquids as Lubricant Additives. <i>Tribology Letters</i> , 2016, 63, 1.	2.6	107
85	Characterizing the Li/Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> interface stability and kinetics as a function of temperature and current density. <i>Journal of Power Sources</i> , 2016, 302, 135-139.	7.8	446
86	Effect of friction stir welding and post-weld heat treatment on a nanostructured ferritic alloy. <i>Journal of Nuclear Materials</i> , 2016, 469, 200-208.	2.7	14
87	The corrosion and passivity of sputtered Mg-Ti alloys. <i>Corrosion Science</i> , 2016, 104, 36-46.	6.6	27
88	Effect of GaN surface treatment on Al <sub>2</sub> O <sub>3</sub> /GaN MOS capacitors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, .	1.2	29
89	Does the Use of Diamond-Like Carbon Coating and Organophosphate Lubricant Additive Together Cause Excessive Tribochemical Material Removal?. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500213.	3.7	15
90	Synergistic Effects Between Phosphonium-Alkylphosphate Ionic Liquids and Zinc Dialkyldithiophosphate (ZDDP) as Lubricant Additives. <i>Advanced Materials</i> , 2015, 27, 4767-4774.	21.0	168

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91	Effective Strategy for Improving Electrocatalyst Durability by Adhesive Immobilization of Catalyst Nanoparticles on Graphitic Carbon Supports. <i>ACS Catalysis</i> , 2015, 5, 3662-3674.	11.2	13
92	Structural Evolution of Molybdenum Carbides in Hot Aqueous Environments and Impact on Low-Temperature Hydroprocessing of Acetic Acid. <i>Catalysts</i> , 2015, 5, 406-423.	3.5	14
93	Tunable morphologies of indium tin oxide nanostructures using nanocellulose templates. <i>RSC Advances</i> , 2015, 5, 103680-103685.	3.6	9
94	Synthesis of Hexagonal Boron Nitride Monolayer: Control of Nucleation and Crystal Morphology. <i>Chemistry of Materials</i> , 2015, 27, 8041-8047.	6.7	202
95	Size tunable elemental copper nanoparticles: extracellular synthesis by thermoanaerobic bacteria and capping molecules. <i>Journal of Materials Chemistry C</i> , 2015, 3, 644-650.	5.5	39
96	Tracer study of oxygen and hydrogen uptake by Mg alloys in air with water vapor. <i>Scripta Materialia</i> , 2015, 106, 38-41.	5.2	8
97	Characterization of ZDDP and ionic liquid tribofilms on non-metallic coatings providing insights of tribofilm formation mechanisms. <i>Wear</i> , 2015, 332-333, 1273-1285.	3.1	48
98	Hydrothermal corrosion of SiC in LWR coolant environments in the absence of irradiation. <i>Journal of Nuclear Materials</i> , 2015, 465, 488-498.	2.7	84
99	<i>In situ</i> capping for size control of monochalcogenide (ZnS, CdS and SnS) nanocrystals produced by anaerobic metal-reducing bacteria. <i>Nanotechnology</i> , 2015, 26, 325602.	2.6	13
100	Degradation of SS316L bipolar plates in simulated fuel cell environment: Corrosion rate, barrier film formation kinetics and contact resistance. <i>Journal of Power Sources</i> , 2015, 273, 1237-1249.	7.8	69
101	Anorthite sputtering by H <sup>+</sup> and Ar <sup>+</sup> ( $\theta = 1^\circ$ ) at solar wind velocities. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8006-8016.	2.4	14
102	He-ion and self-atom induced damage and surface-morphology changes of a hot W target. <i>Physica Scripta</i> , 2014, T159, 014029.	2.5	15
103	Surface-morphology changes and damage in hot tungsten by impact of 80 eV – 12 keV He-ions and keV-energy self-atoms. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012036.	0.4	7
104	Comparison of the tribological behavior of steel–steel and Si <sub>3</sub> N <sub>4</sub> –steel contacts in lubricants with ZDDP or ionic liquid. <i>Wear</i> , 2014, 319, 172-183.	3.1	43
105	Phosphonium-Organophosphate Ionic Liquids as Lubricant Additives: Effects of Cation Structure on Physicochemical and Tribological Characteristics. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22585-22593.	8.0	163
106	Transmission Electron Microscopy Study of Aqueous Film Formation and Evolution on Magnesium Alloys. <i>Journal of the Electrochemical Society</i> , 2014, 161, C302-C311.	2.9	111
107	Insulating gallium oxide layer produced by thermal oxidation of gallium–polar GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 565-568.	0.8	12
108	Effect of tungsten crystallographic orientation on He-ion-induced surface morphology changes. <i>Acta Materialia</i> , 2014, 62, 173-181.	7.9	109

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109	Methanol Fractionation of Softwood Kraft Lignin: Impact on the Lignin Properties. ChemSusChem, 2014, 7, 221-228.	6.8	132
110	High performance Cr, N-codoped mesoporous TiO <sub>2</sub> microspheres for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 1818-1824.	10.3	58
111	Atomic layer deposition TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> stack: An improved gate dielectric on Ga-polar GaN metal oxide semiconductor capacitors. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, 060602.	1.2	4
112	High-Resolution Mapping of the PFSA Polymer Distribution in PEFC Electrode Layers. ECS Transactions, 2014, 64, 819-827.	0.5	3
113	Improving corrosion resistance of AZ31B magnesium alloy via a conversion coating produced by a protic ammonium-phosphate ionic liquid. Thin Solid Films, 2014, 568, 44-51.	1.8	41
114	Electronic Structure and Band Alignment at an Epitaxial Spinel/Perovskite Heterojunction. ACS Applied Materials & Interfaces, 2014, 6, 14338-14344.	8.0	18
115	Comparison of the physical, chemical and electrical properties of ALD Al <sub>2</sub> O <sub>3</sub> on c- and m- plane GaN. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 898-901.	0.8	5
116	Studies on Supercapacitor Electrode Material from Activated Lignin-Derived Mesoporous Carbon. Langmuir, 2014, 30, 900-910.	3.5	342
117	Growth and Electrochemical Characterization of Carbon Nanospire Thin Film Electrodes. Journal of the Electrochemical Society, 2014, 161, H558-H563.	2.9	24
118	Evaluation of nitrated titanium separator plates for proton exchange membrane electrolyzer cells. Journal of Power Sources, 2014, 272, 954-960.	7.8	51
119	Role of Surface Functionality in the Electrochemical Performance of Silicon Nanowire Anodes for Rechargeable Lithium Batteries. ACS Applied Materials & Interfaces, 2014, 6, 7607-7614.	8.0	30
120	Scalable superhydrophobic coatings based on fluorinated diatomaceous earth: Abrasion resistance versus particle geometry. Applied Surface Science, 2014, 292, 563-569.	6.1	46
121	Effects of pretreatment and process temperature of a conversion coating produced by an aprotic ammonium-phosphate ionic liquid on magnesium corrosion protection. Electrochimica Acta, 2014, 123, 58-65.	5.2	38
122	Advanced surface and microstructural characterization of natural graphite anodes for lithium ion batteries. Carbon, 2014, 72, 393-401.	10.3	50
123	Surface-conductivity enhancement of PMMA by keV-energy metal-ion implantation. Nuclear Instruments & Methods in Physics Research B, 2014, 339, 75-84.	1.4	10
124	Scalable production of microbially mediated zinc sulfide nanoparticles and application to functional thin films. Acta Biomaterialia, 2014, 10, 4474-4483.	8.3	49
125	Direct Electrodeposition of UO <sub>2</sub> from Uranyl Bis(trifluoromethanesulfonyl)imide Dissolved in 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide Room Temperature Ionic Liquid System. Electrochimica Acta, 2014, 115, 630-638.	5.2	17
126	X-Ray Photoelectron Spectroscopy (XPS)., 2013, , 4133-4138.		2



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127	Improving microstructure of silicon/carbon nanofiber composites as a Li battery anode. Journal of Power Sources, 2013, 221, 455-461.	7.8	50
128	Manufacturing and performance assessment of stamped, laser welded, and nitrided FeCrV stainless steel bipolar plates for proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2013, 38, 4734-4739.	7.1	34
129	Nature of the band gap and origin of the electro-/photo-activity of Co <sub>3</sub> O <sub>4</sub> . Journal of Materials Chemistry C, 2013, 1, 4628.	5.5	176
130	Large scale atmospheric pressure chemical vapor deposition of graphene. Carbon, 2013, 54, 58-67.	10.3	241
131	Nitrogen-enriched ordered mesoporous carbons through direct pyrolysis in ammonia with enhanced capacitive performance. Journal of Materials Chemistry A, 2013, 1, 7920.	10.3	120
132	Influence of thermal history on the mechanical properties of carbon fiber/acrylate composites cured by electron beam and thermal processes. Composites Part A: Applied Science and Manufacturing, 2013, 45, 162-172.	7.6	36
133	Oxygen-Functionalized Few-Layer Graphene Sheets as Active Catalysts for Oxidative Dehydrogenation Reactions. ChemSusChem, 2013, 6, 840-846.	6.8	61
134	Nanostructured columnar heterostructures of TiO <sub>2</sub> and Cu <sub>2</sub> O enabled by a thin-film self-assembly approach: Potential for photovoltaics. Materials Research Bulletin, 2013, 48, 352-356.	5.2	15
135	Kinetic and potential sputtering of lunar regolith: The contribution of the heavy (minority) solar wind ions. , 2013, , .		0
136	Influence of Atomic Layer Deposition Temperatures on TiO <sub>2</sub> /n-Si MOS Capacitor. ECS Journal of Solid State Science and Technology, 2013, 2, N110-N114.	1.8	39
137	Understanding the Mechanism of Solvent-Mediated Adhesion of Vacuum Deposited Au and Pt Thin Films onto PMMA Substrates. Advanced Functional Materials, 2013, 23, 1431-1439.	14.9	9
138	Characterization of zirconium carbides using electron microscopy, optical anisotropy, Auger depth profiles, X-ray diffraction, and electron density calculated by charge flipping method. Journal of Solid State Chemistry, 2012, 194, 91-99.	2.9	23
139	Properties of thermo-chemically surface treated carbon fibers and of their epoxy and vinyl ester composites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1120-1133.	7.6	68
140	Influence of the carbon fiber surface microstructure on the surface chemistry generated by a thermo-chemical surface treatment. Applied Surface Science, 2012, 261, 473-480.	6.1	44
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