

Harry M Meyer

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Probing Defect Sites on CeO ₂ Nanocrystals with Well-Defined Surface Planes by Raman Spectroscopy and O ₂ Adsorption. <i>Langmuir</i> , 2010, 26, 16595-16606.	1.6	889
2	Characterizing the Li ⁺ /Li ₇ La ₃ Zr ₂ O ₁₂ interface stability and kinetics as a function of temperature and current density. <i>Journal of Power Sources</i> , 2016, 302, 135-139.	4.0	446
3	Band Gap Narrowing of Titanium Oxide Semiconductors by Noncompensated Anion-Cation Codoping for Enhanced Visible-Light Photoactivity. <i>Physical Review Letters</i> , 2009, 103, 226401.	2.9	347
4	Studies on Supercapacitor Electrode Material from Activated Lignin-Derived Mesoporous Carbon. <i>Langmuir</i> , 2014, 30, 900-910.	1.6	342
5	Creep-Resistant, Al ₂ O ₃ -Forming Austenitic Stainless Steels. <i>Science</i> , 2007, 316, 433-436.	6.0	337
6	Impact of air exposure and surface chemistry on Li ⁺ /Li ₇ La ₃ Zr ₂ O ₁₂ interfacial resistance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13475-13487.	5.2	300
7	A physical catalyst for the electrolysis of nitrogen to ammonia. <i>Science Advances</i> , 2018, 4, e1700336.	4.7	264
8	Highly Selective Electrochemical Conversion of CO ₂ to Ethanol using a Copper Nanoparticle/N ⁺ -Doped Graphene Electrode. <i>ChemistrySelect</i> , 2016, 1, 6055-6061.	0.7	251
9	Large scale atmospheric pressure chemical vapor deposition of graphene. <i>Carbon</i> , 2013, 54, 58-67.	5.4	241
10	Nanofibrous chitosan non-wovens for filtration applications. <i>Polymer</i> , 2009, 50, 3661-3669.	1.8	234
11	Synthesis of Hexagonal Boron Nitride Monolayer: Control of Nucleation and Crystal Morphology. <i>Chemistry of Materials</i> , 2015, 27, 8041-8047.	3.2	202
12	Rapid tarnishing of silver nanoparticles in ambient laboratory air. <i>Applied Physics B: Lasers and Optics</i> , 2005, 80, 915-921.	1.1	190
13	Thin intergranular films and solid-state activated sintering in nickel-doped tungsten. <i>Acta Materialia</i> , 2007, 55, 3131-3142.	3.8	190
14	Nature of the band gap and origin of the electro-/photo-activity of Co ₃ O ₄ . <i>Journal of Materials Chemistry C</i> , 2013, 1, 4628.	2.7	176
15	Ionic Liquids as Novel Lubricants and Additives for Diesel Engine Applications. <i>Tribology Letters</i> , 2009, 35, 181-189.	1.2	168
16	Synergistic Effects Between Phosphonium-Alkylphosphate Ionic Liquids and Zinc Dialkyldithiophosphate (ZDDP) as Lubricant Additives. <i>Advanced Materials</i> , 2015, 27, 4767-4774.	11.1	168
17	Phosphonium-Organophosphate Ionic Liquids as Lubricant Additives: Effects of Cation Structure on Physicochemical and Tribological Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22585-22593.	4.0	163
18	Uniform corrosion of FeCrAl alloys in LWR coolant environments. <i>Journal of Nuclear Materials</i> , 2016, 479, 36-47.	1.3	158

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19	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.	9.5	155
20	Thermally nitrated stainless steels for polymer electrolyte membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2004, 138, 79-85.	4.0	142
21	Monodispersed biocompatible silver sulfide nanoparticles: Facile extracellular biosynthesis using the β -proteobacterium, <i>Shewanella oneidensis</i> . <i>Acta Biomaterialia</i> , 2011, 7, 4253-4258.	4.1	138
22	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. <i>ACS Nano</i> , 2020, 14, 3896-3906.	7.3	136
23	Segregation-induced grain boundary premelting in nickel-doped tungsten. <i>Applied Physics Letters</i> , 2005, 87, 231902.	1.5	133
24	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. <i>Nanotechnology</i> , 2011, 22, 275716.	1.3	132
25	Methanol Fractionation of Softwood Kraft Lignin: Impact on the Lignin Properties. <i>ChemSusChem</i> , 2014, 7, 221-228.	3.6	132
26	Tribological characteristics of aluminum alloys sliding against steel lubricated by ammonium and imidazolium ionic liquids. <i>Wear</i> , 2009, 267, 1226-1231.	1.5	125
27	Nitrogen-enriched ordered mesoporous carbons through direct pyrolysis in ammonia with enhanced capacitive performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7920.	5.2	120
28	Aluminum/polyimide interface formation: An X-ray photoelectron spectroscopy study of selective chemical bonding. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 3325-3333.	0.9	117
29	Transmission Electron Microscopy Study of Aqueous Film Formation and Evolution on Magnesium Alloys. <i>Journal of the Electrochemical Society</i> , 2014, 161, C302-C311.	1.3	111
30	Effect of tungsten crystallographic orientation on He-ion-induced surface morphology changes. <i>Acta Materialia</i> , 2014, 62, 173-181.	3.8	109
31	Tertiary and Quaternary Ammonium-Phosphate Ionic Liquids as Lubricant Additives. <i>Tribology Letters</i> , 2016, 63, 1.	1.2	107
32	Electronic structures of the $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ surface and its modification by sputtering and adatoms of Ti and Cu. <i>Physical Review B</i> , 1988, 38, 6500-6512.	1.1	104
33	Responses of bone-forming cells on pre-immersed Zr-based bulk metallic glasses: Effects of composition and roughness. <i>Acta Biomaterialia</i> , 2011, 7, 395-405.	4.1	102
34	Valence bands, oxygen in planes and chains, and surface changes for single crystals of M_2CuO_4 and $\text{M}\text{Ba}_2\text{Cu}_3\text{O}_x$ (M=Pr,Nd,Eu,Gd). <i>Physical Review B</i> , 1988, 38, 4668-4676.	1.1	101
35	Characteristics of wear particles produced during friction tests of conventional and unconventional disc brake materials. <i>Wear</i> , 2003, 255, 1261-1269.	1.5	94
36	Corrosion behavior of CrN, Cr ₂ N and γ phase surfaces on nitrated Ni-50Cr for proton exchange membrane fuel cell bipolar plates. <i>Corrosion Science</i> , 2006, 48, 3157-3171.	3.0	92

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37	Organic-Modified Silver Nanoparticles as Lubricant Additives. ACS Applied Materials & Interfaces, 2017, 9, 37227-37237.	4.0	90
38	Photoinduced Strong Metal-Support Interaction for Enhanced Catalysis. Journal of the American Chemical Society, 2021, 143, 8521-8526.	6.6	85
39	Hydrothermal corrosion of SiC in LWR coolant environments in the absence of irradiation. Journal of Nuclear Materials, 2015, 465, 488-498.	1.3	84
40	Occupied electronic states of single-crystal $\text{Bi}_2\text{Ca}_{1+x}\text{Sr}_2\text{Cu}_2\text{O}_{8+y}$. Physical Review B, 1988, 38, 7144-7147.	1.1	83
41	Defect-Mediated Phase Transformation in Anisotropic Two-Dimensional PdSe_2 Crystals for Seamless Electrical Contacts. Journal of the American Chemical Society, 2019, 141, 8928-8936.	6.6	81
42	Surpassing Robeson Upper Limit for CO_2/N_2 Separation with Fluorinated Carbon Molecular Sieve Membranes. Chem, 2020, 6, 631-645.	5.8	73
43	Degradation of SS316L bipolar plates in simulated fuel cell environment: Corrosion rate, barrier film formation kinetics and contact resistance. Journal of Power Sources, 2015, 273, 1237-1249.	4.0	69
44	Powder bed charging during electron-beam additive manufacturing. Acta Materialia, 2017, 124, 437-445.	3.8	69
45	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.	3.8	68
46	Unraveling the Molecular Weight Dependence of Interfacial Interactions in Poly(2-vinylpyridine)/Silica Nanocomposites. ACS Macro Letters, 2017, 6, 68-72.	2.3	65
47	Electrolyte Volume Effects on Electrochemical Performance and Solid Electrolyte Interphase in Si-Graphite/NMC Lithium-Ion Pouch Cells. ACS Applied Materials & Interfaces, 2017, 9, 18799-18808.	4.0	65
48	Selecting the Best Graphite for Long-Life, High-Energy Li-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A1837-A1845.	1.3	65
49	Oxygen-Functionalized Few-Layer Graphene Sheets as Active Catalysts for Oxidative Dehydrogenation Reactions. ChemSusChem, 2013, 6, 840-846.	3.6	61
50	Lithium and transition metal dissolution due to aqueous processing in lithium-ion battery cathode active materials. Journal of Power Sources, 2020, 466, 228315.	4.0	61
51	High performance Cr, N-codoped mesoporous TiO_2 microspheres for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 1818-1824.	5.2	58
52	High-Resolution Soft X-ray Photoelectron Spectroscopic Studies and Scanning Auger Microscopy Studies of the Air Oxidation of Alkylated Silicon(111) Surfaces. Journal of Physical Chemistry B, 2006, 110, 23450-23459.	1.2	57
53	Passivation of high T_c superconductor surfaces with CaF_2 and Bi, Al, and Si oxides. Applied Physics Letters, 1988, 53, 1657-1659.	1.5	56
54	Oxidative dehydrogenation of isobutane on phosphorous-modified graphitic mesoporous carbon. Carbon, 2011, 49, 659-668.	5.4	56

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55	Balancing formation time and electrochemical performance of high energy lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 402, 107-115.	4.0	56
56	Fabrication and characterization of brookite-rich, visible light-active TiO ₂ films for water splitting. <i>Applied Catalysis B: Environmental</i> , 2009, 93, 90-95.	10.8	54
57	Corrosion of CVD Silicon Carbide in 500°C Supercritical Water. <i>Journal of the American Ceramic Society</i> , 2007, 90, 315-318.	1.9	53
58	Properties of ultrafast laser textured silicon for photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2745-2751.	3.0	53
59	Nanostructure and Composition of Tribo-Boundary Films Formed in Ionic Liquid Lubrication. <i>Tribology Letters</i> , 2011, 43, 205-211.	1.2	53
60	Experimental secondary electron spectra under SEM conditions. <i>Journal of Microscopy</i> , 2004, 215, 77-85.	0.8	52
61	Photoemission and inverse resonant photoemission studies of Ti ₂ Ba ₂ Ca ₂ Cu ₃ O _{10+y} . <i>Physical Review B</i> , 1989, 39, 7343-7346.	1.1	51
62	Single-crystal YBa ₂ Cu ₃ O _{7-x} and Bi ₂ Ca _{1+x} Sr _{2-x} Cu ₂ O _{8+y} surfaces and Ag adatom-induced modification. <i>Journal of Applied Physics</i> , 1989, 65, 3130-3135.	1.1	51
63	Evaluation of nitrated titanium separator plates for proton exchange membrane electrolyzer cells. <i>Journal of Power Sources</i> , 2014, 272, 954-960.	4.0	51
64	Improving microstructure of silicon/carbon nanofiber composites as a Li battery anode. <i>Journal of Power Sources</i> , 2013, 221, 455-461.	4.0	50
65	Advanced surface and microstructural characterization of natural graphite anodes for lithium ion batteries. <i>Carbon</i> , 2014, 72, 393-401.	5.4	50
66	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 & Interfaces</i> , 2019, 11, 43235-43243.	4.0	50
67	Controlling thin film structure for the dewetting of catalyst nanoparticle arrays for subsequent carbon nanofiber growth. <i>Nanotechnology</i> , 2007, 18, 465304.	1.3	49
68	Scalable production of microbially mediated zinc sulfide nanoparticles and application to functional thin films. <i>Acta Biomaterialia</i> , 2014, 10, 4474-4483.	4.1	49
69	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.	1.5	48
70	A study of the corrosion behaviour of Zr ₅₀ Cu _(40-x) Al ₁₀ Pd _x bulk metallic glasses with scanning Auger microanalysis. <i>Corrosion Science</i> , 2008, 50, 1825-1832.	3.0	47
71	Bis(trimethylsilyl) 2-fluoromalonate derivatives as electrolyte additives for high voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 412, 527-535.	4.0	47
72	Fabrication and Characterization of Carbon Nanofiber-Based Vertically Integrated Schottky Barrier Junction Diodes. <i>Nano Letters</i> , 2003, 3, 1751-1755.	4.5	46

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73	Scalable superhydrophobic coatings based on fluorinated diatomaceous earth: Abrasion resistance versus particle geometry. <i>Applied Surface Science</i> , 2014, 292, 563-569.	3.1	46
74	Direct Characterization of Atomically Dispersed Catalysts: Nitrogen-Coordinated Ni Sites in Carbon-Based Materials for CO ₂ Electroreduction. <i>Advanced Energy Materials</i> , 2020, 10, 2001836.	10.2	46
75	Y, Ba, Cu, and Ti interface reactions with SrTiO ₃ (100) surfaces. <i>Journal of Applied Physics</i> , 1989, 65, 4943-4950.	1.1	44
76	Influence of the carbon fiber surface microstructure on the surface chemistry generated by a thermo-chemical surface treatment. <i>Applied Surface Science</i> , 2012, 261, 473-480.	3.1	44
77	Comparison of the tribological behavior of steel-steel and Si ₃ N ₄ -steel contacts in lubricants with ZDDP or ionic liquid. <i>Wear</i> , 2014, 319, 172-183.	1.5	43
78	Structural Interconversion between Agglomerated Palladium Domains and Mononuclear Pd(II) Cations in Chabazite Zeolites. <i>Chemistry of Materials</i> , 2021, 33, 1698-1713.	3.2	42
79	Photoemission and inverse-photoemission studies of Ba _{1-x} K _x BiO ₃ ^y . <i>Physical Review B</i> , 1989, 40, 4532-4537.	1.1	41
80	Ba oxides: Core level binding energies and defect-related Fermi level pinning. <i>Surface Science</i> , 1990, 225, 63-71.	0.8	41
81	Microanalysis of alkali-activated fly ash-CH pastes. <i>Cement and Concrete Research</i> , 2002, 32, 963-972.	4.6	41
82	Cu-Ni composition gradient for the catalytic synthesis of vertically aligned carbon nanofibers. <i>Carbon</i> , 2005, 43, 1857-1863.	5.4	41
83	Single-crystal nanowires grown via electron-beam-induced deposition. <i>Nanotechnology</i> , 2008, 19, 345705.	1.3	41
84	Oxygen diffusion enables anti-wear boundary film formation on titanium surfaces in zinc-dialkyl-dithiophosphate (ZDDP)-containing lubricants. <i>Scripta Materialia</i> , 2009, 60, 886-889.	2.6	41
85	Pre-oxidized and nitrided stainless steel alloy foil for proton exchange membrane fuel cell bipolar plates: Part 1. Corrosion, interfacial contact resistance, and surface structure. <i>Journal of Power Sources</i> , 2010, 195, 5610-5618.	4.0	41
86	Improving corrosion resistance of AZ31B magnesium alloy via a conversion coating produced by a protic ammonium-phosphate ionic liquid. <i>Thin Solid Films</i> , 2014, 568, 44-51.	0.8	41
87	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.	1.5	40
88	Toward the Design of a Hierarchical Perovskite Support: Ultra-Sintering-Resistant Gold Nanocatalysts for CO Oxidation. <i>ACS Catalysis</i> , 2017, 7, 3388-3393.	5.5	40
89	Influence of Atomic Layer Deposition Temperatures on TiO ₂ /n-Si MOS Capacitor. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, N110-N114.	0.9	39
90	Size tunable elemental copper nanoparticles: extracellular synthesis by thermoanaerobic bacteria and capping molecules. <i>Journal of Materials Chemistry C</i> , 2015, 3, 644-650.	2.7	39

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91	Identifying degradation mechanisms in lithium-ion batteries with coating defects at the cathode. <i>Applied Energy</i> , 2018, 231, 446-455.	5.1	39
92	Depolymerization of corn stover lignin with bulk molybdenum carbide catalysts. <i>Fuel</i> , 2019, 244, 528-535.	3.4	39
93	X-ray photoemission investigations of clustering and electron emission, injection, and trapping at the gold/polyimide interface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 30-37.	0.9	38
94	Cu adatom interactions with single- and polycrystalline $\text{Bi}_2\text{Ca}_{1+x}\text{Sr}_{2\hat{x}}\text{Cu}_2\text{O}_{8+y}$ and $\text{YBa}_2\text{Cu}_3\text{O}_{7\hat{x}}$. <i>Physical Review B</i> , 1988, 38, 11331-11336.	1.1	38
95	Effects of pretreatment and process temperature of a conversion coating produced by an aprotic ammonium-phosphate ionic liquid on magnesium corrosion protection. <i>Electrochimica Acta</i> , 2014, 123, 58-65.	2.6	38
96	Reactivity and passivation for Bi adatoms on $\text{YBa}_2\text{Cu}_3\text{O}_{6.9}$ and $\text{Bi}_2\text{Ca}_{1+x}\text{Sr}_{2\hat{x}}\text{Cu}_2\text{O}_{8+y}$. <i>Applied Physics Letters</i> , 1988, 53, 1004-1006.	1.5	37
97	Effect of chain length on nanomechanics of alkanethiol self-assembly. <i>Nanotechnology</i> , 2007, 18, 424028.	1.3	37
98	Comparing Cr, and N only doping with (Cr, N)-codoping for enhancing visible light reactivity of TiO_2 . <i>Applied Catalysis B: Environmental</i> , 2011, 110, 148-153.	10.8	37
99	Dynamics of polyimide curing and degradation: An in situ x-ray photoemission study. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 38-43.	0.9	36
100	Influence of thermal history on the mechanical properties of carbon fiber/acrylate composites cured by electron beam and thermal processes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 45, 162-172.	3.8	36
101	Ultralow Boundary Lubrication Friction by Three-Way Synergistic Interactions among Ionic Liquid, Friction Modifier, and Dispersant. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17077-17090.	4.0	36
102	Oxygen withdrawal, copper valency, and interface reaction for $\text{Fe}/\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. <i>Physical Review B</i> , 1987, 36, 3979-3982.	1.1	35
103	A dicyanobenzoquinone based cathode material for rechargeable lithium and sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17888-17895.	5.2	35
104	Temperature-dependent x-ray photoemission studies of metastable Co/polyimide interface formation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 2205-2212.	0.9	34
105	Manufacturing and performance assessment of stamped, laser welded, and nitrided FeCrV stainless steel bipolar plates for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4734-4739.	3.8	34
106	Interfacial Reactions and Performance of $\text{Li}_{0.7}\text{La}_{0.3}\text{Zr}_{0.2}\text{O}_{12}$ -Stabilized Li-Sulfur Hybrid Cell. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42042-42048.	4.0	34
107	Enabling aqueous processing for $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ (NCA)-based lithium-ion battery cathodes using polyacrylic acid. <i>Electrochimica Acta</i> , 2021, 380, 138203.	2.6	33
108	MoS_2 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.	10.8	33

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109	Immobilization of Biomolecules on Poly(vinylidimethylazlactone)-Containing Surface Scaffolds. <i>Langmuir</i> , 2009, 25, 262-268.	1.6	32
110	Compatibility between Various Ionic Liquids and an Organic Friction Modifier as Lubricant Additives. <i>Langmuir</i> , 2018, 34, 10711-10720.	1.6	31
111	Spectroscopic evidence for passivation of the La _{1.85} Sr _{0.15} CuO ₄ surface with gold. <i>Applied Physics Letters</i> , 1987, 51, 1118-1120.	1.5	30
112	Scuffing transition diagrams for heavy duty diesel fuel injector materials in ultra low-sulfur fuel-lubricated environment. <i>Wear</i> , 2005, 259, 1031-1040.	1.5	30
113	Role of Surface Functionality in the Electrochemical Performance of Silicon Nanowire Anodes for Rechargeable Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7607-7614.	4.0	30
114	Anti-soiling and highly transparent coatings with multi-scale features. <i>Solar Energy Materials and Solar Cells</i> , 2018, 188, 255-262.	3.0	30
115	Al ₂ O ₃ /TiO ₂ coated separators: Roll-to-roll processing and implications for improved battery safety and performance. <i>Journal of Power Sources</i> , 2021, 507, 230259.	4.0	30
116	Microstructural stability of copper with antimony dopants at grain boundaries: experiments and molecular dynamics simulations. <i>Journal of Materials Science</i> , 2010, 45, 6707-6718.	1.7	29
117	Effect of GaN surface treatment on Al ₂ O ₃ /GaN MOS capacitors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, .	0.6	29
118	Fluorination of MXene by Elemental F ₂ as Electrode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 1316-1324.	3.6	28
119	The corrosion and passivity of sputtered Mg-Ti alloys. <i>Corrosion Science</i> , 2016, 104, 36-46.	3.0	27
120	O ₂ phases: Temperature effects and surface characteristics of cuprate superconductors. <i>Physical Review B</i> , 1990, 41, 4201-4211.	1.1	26
121	Crystal growth of B ₁₂ As ₂ on SiC substrate by CVD method. <i>Journal of Crystal Growth</i> , 2005, 273, 431-438.	0.7	26
122	Molybdenum Carbides, Active and <i>In Situ</i> Regenerable Catalysts in Hydroprocessing of Fast Pyrolysis Bio-Oil. <i>Energy & Fuels</i> , 2016, 30, 5016-5026.	2.5	26
123	Palladium Nanoparticle-Enabled Ultrathick Tribofilm with Unique Composition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31804-31812.	4.0	26
124	Low-Cost Transformation of Biomass-Derived Carbon to High-Performing Nano-graphite via Low-Temperature Electrochemical Graphitization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4393-4401.	4.0	26
125	Cu-induced surface disruption of La _{1.85} Sr _{0.15} CuO ₄ . <i>Physical Review B</i> , 1988, 37, 511-514.	1.1	25
126	Thermal stability of HfO ₂ nanotube arrays. <i>Applied Surface Science</i> , 2011, 257, 4075-4081.	3.1	25

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127	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.	2.2	25
128	Growth and Electrochemical Characterization of Carbon Nanospire Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, H558-H563.	1.3	24
129	X-ray photoelectron spectroscopy of uv laser irradiated sapphire and alumina. <i>Journal of Materials Research</i> , 1994, 9, 2251-2257.	1.2	23
130	Characterization of zirconium carbides using electron microscopy, optical anisotropy, Auger depth profiles, X-ray diffraction, and electron density calculated by charge flipping method. <i>Journal of Solid State Chemistry</i> , 2012, 194, 91-99.	1.4	23
131	Re-establishing the paradigm for evaluating halide salt compatibility to study commercial chloride salts at 600°C–800°C. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1439-1449.	0.8	23
132	Ionic liquids as oil additives for lubricating oxygen-diffusion case-hardened titanium. <i>Tribology International</i> , 2019, 136, 342-348.	3.0	23
133	Wet oxidation of stainless steels: New insights into hydrogen ingress. <i>Corrosion Science</i> , 2011, 53, 1633-1638.	3.0	22
134	Lattice Matched Carbide–Phosphide Composites with Superior Electrocatalytic Activity and Stability. <i>Chemistry of Materials</i> , 2017, 29, 9369-9377.	3.2	22
135	New synthesis strategies to improve Co-Free LiNi _{0.5} Mn _{0.5} O ₂ cathodes: Early transition metal d ₀ dopants and manganese pyrophosphate coating. <i>Journal of Power Sources</i> , 2020, 479, 228591.	4.0	22
136	Sputtering of lunar regolith simulant by protons and singly and multicharged Ar ions at solar wind energies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 1316-1320.	0.6	21
137	Development of Cast Alumina-Forming Austenitic Stainless Steels. <i>Jom</i> , 2016, 68, 2803-2810.	0.9	21
138	Solvent-Mediated Synthesis of Amorphous Li ₃ PS ₄ /Polyethylene Oxide Composite Solid Electrolytes with High Li ⁺ Conductivity. <i>Chemistry of Materials</i> , 2020, 32, 8789-8797.	3.2	21
139	Modified coal char materials with high rate performance for battery applications. <i>Carbon</i> , 2021, 172, 414-421.	5.4	21
140	Polymer, Additives, and Processing Effects on N95 Filter Performance. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1022-1031.	2.0	21
141	Na _{1+x} Mn _{x/2} Zr _{2x} (PO ₄) ₃ as a Li ⁺ and Na ⁺ Super Ion Conductor for Solid-State Batteries. <i>ACS Energy Letters</i> , 2021, 6, 429-436.	8.8	20
142	Titanium–oxygen reaction at the Ti/La _{1.85} Sr _{0.15} CuO ₄ interface. <i>Applied Physics Letters</i> , 1987, 51, 1750-1752.	1.5	19
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