Karren L More

List of Publications by Year
in descending order

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		6613	3323
324	35,703	79	184
papers	citations	h-index	g-index

334	334	334	29033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Performance Electrocatalysts for Oxygen Reduction Derived from Polyaniline, Iron, and Cobalt. Science, 2011, 332, 443-447.	12.6	3,672
2	Scientific Aspects of Polymer Electrolyte Fuel Cell Durability and Degradation. Chemical Reviews, 2007, 107, 3904-3951.	47.7	2,976
3	Lattice-strain control of the activity in dealloyed coreâ€“shell fuel cell catalysts. Nature Chemistry, 2010, 2, 454-460.	13.6	2,489
4	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. Science, 2014, 343, 1339-1343.	12.6	2,376
5	Direct atomic-level insight into the active sites of a high-performance PGM-free ORR catalyst. Science, 2017, 357, 479-484.	12.6	1,273
6	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. Nature Catalysis, 2018, 1, 935-945.	34.4	1,075
7	Nitrogenâ€Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Advanced Materials, 2018, 30, 1706758.	21.0	788
8	Highly active atomically dispersed CoN₄ fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. Energy and Environmental Science, 2019, 12, 250-260.	30.8	691
9	Synthesisâ€“structureâ€“performance correlation for polyanilineâ€“Meâ€“C non-precious metal cathode catalysts for oxygen reduction in fuel cells. Journal of Materials Chemistry, 2011, 21, 11392.	6.7	545
10	Design and Synthesis of Bimetallic Electrocatalyst with Multilayered Pt-Skin Surfaces. Journal of the American Chemical Society, 2011, 133, 14396-14403.	13.7	541
11	Thermal stability of oxygen storage properties in a mixed CeO2-ZrO2 system. Applied Catalysis B: Environmental, 1998, 16, 105-117.	20.2	492
12	New roads and challenges for fuel cells in heavy-duty transportation. Nature Energy, 2021, 6, 462-474.	39.5	480
13	High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. Energy and Environmental Science, 2019, 12, 2548-2558.	30.8	457
14	Multimetallic Au/FePt₃ Nanoparticles as Highly Durable Electrocatalyst. Nano Letters, 2011, 11, 919-926.	9.1	435
15	Metal-organic framework-derived nitrogen-doped highly disordered carbon for electrochemical ammonia synthesis using N2 and H2O in alkaline electrolytes. Nano Energy, 2018, 48, 217-226.	16.0	406
16	Unveiling Active Sites of CO₂ Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. ACS Catalysis, 2018, 8, 3116-3122.	11.2	405
17	Core/Shell Pd/FePt Nanoparticles as an Active and Durable Catalyst for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2010, 132, 7848-7849.	13.7	366
18	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN₄ Sites for Oxygen Reduction. Angewandte Chemie - International Edition, 2019, 58, 18971-18980.	13.8	362

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19	Creep-Resistant, Al2O3-Forming Austenitic Stainless Steels. Science, 2007, 316, 433-436.	12.6	337
20	Microstructural Changes of Membrane Electrode Assemblies during PEFC Durability Testing at High Humidity Conditions. Journal of the Electrochemical Society, 2005, 152, A1011.	2.9	328
21	Hard-Magnet L10-CoPt Nanoparticles Advance Fuel Cell Catalysis. Joule, 2019, 3, 124-135.	24.0	326
22	Interfacial Stability of Li Metalâ€“Solid Electrolyte Elucidated via in Situ Electron Microscopy. Nano Letters, 2016, 16, 7030-7036.	9.1	309
23	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and Highâ€Power PGMâ€Free Cathodes in Fuel Cells. Advanced Materials, 2020, 32, e2003577.	21.0	262
24	Recent advances in platinum monolayer electrocatalysts for oxygen reduction reaction: Scale-up synthesis, structure and activity of Pt shells on Pd cores. Electrochimica Acta, 2010, 55, 2645-2652.	5.2	248
25	A Facile Synthesis of MPd (M = Co, Cu) Nanoparticles and Their Catalysis for Formic Acid Oxidation. Nano Letters, 2012, 12, 1102-1106.	9.1	233
26	Highâ€Thermalâ€Conductivity Aluminum Nitride Ceramics: The Effect of Thermodynamic, Kinetic, and Microstructural Factors. Journal of the American Ceramic Society, 1997, 80, 1421-1435.	3.8	232
27	Composition-Controlled Synthesis of Bimetallic PdPt Nanoparticles and Their Electro-oxidation of Methanol. Chemistry of Materials, 2011, 23, 4199-4203.	6.7	232
28	Mechanism of Zn Insertion into Nanostructured Î´-MnO₂: A Nonaqueous Rechargeable Zn Metal Battery. Chemistry of Materials, 2017, 29, 4874-4884.	6.7	225
29	Atomic-scale origin of the large grain-boundary resistance in perovskite Li-ion-conducting solid electrolytes. Energy and Environmental Science, 2014, 7, 1638.	30.8	219
30	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse Pt_xNi_{1â€x} Nanoparticles. Advanced Functional Materials, 2011, 21, 147-152.	14.9	218
31	Electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid on supported Au and Pd bimetallic nanoparticles. Green Chemistry, 2014, 16, 3778-3786.	9.0	217
32	Recent developments in catalyst-related PEM fuel cell durability. Current Opinion in Electrochemistry, 2020, 21, 192-200.	4.8	216
33	Ozonated Graphene Oxide Film as a Protonâ€Exchange Membrane. Angewandte Chemie - International Edition, 2014, 53, 3588-3593.	13.8	214
34	Highly Robust Lithium Ion Battery Anodes from Lignin: An Abundant, Renewable, and Lowâ€Cost Material. Advanced Functional Materials, 2014, 24, 86-94.	14.9	205
35	Carbon Corrosion in PEM Fuel Cells and the Development of Accelerated Stress Tests. Journal of the Electrochemical Society, 2018, 165, F3148-F3160.	2.9	202
36	A carbon-nanotube-supported graphene-rich non-precious metal oxygen reduction catalyst with enhanced performance durability. Chemical Communications, 2013, 49, 3291.	4.1	196

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37	Phase evolution in boron nitride thin films. Journal of Materials Research, 1993, 8, 1213-1216.	2.6	193
38	Nanoscale Imaging of Fundamental Li Battery Chemistry: Solid-Electrolyte Interphase Formation and Preferential Growth of Lithium Metal Nanoclusters. Nano Letters, 2015, 15, 2011-2018.	9.1	185
39	Ternary Electrocatalysts for Oxidizing Ethanol to Carbon Dioxide: Making Ir Capable of Splitting Câ€“C Bond. Journal of the American Chemical Society, 2013, 135, 132-141.	13.7	184
40	Direct visualization of initial SEI morphology and growth kinetics during lithium deposition by in situ electrochemical transmission electron microscopy. Chemical Communications, 2014, 50, 2104.	4.1	172
41	Influence of Sulfur, Platinum, and Hafnium on the Oxidation Behavior of CVD NiAl Bond Coatings. Oxidation of Metals, 2002, 58, 513-544.	2.1	170
42	Preferential thermal nitridation to form pin-hole free Cr-nitrides to protect proton exchange membrane fuel cell metallic bipolar plates. Scripta Materialia, 2004, 50, 1017-1022.	5.2	168
43	Synthesis and Characterization of Multimetallic Pd/Au and Pd/Au/FePt Core/Shell Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 9368-9372.	13.8	167
44	Control of Architecture in Rhombic Dodecahedral Ptâ€“Ni Nanoframe Electrocatalysts. Journal of the American Chemical Society, 2017, 139, 11678-11681.	13.7	166
45	Surface faceting and elemental diffusion behaviour at atomic scale for alloy nanoparticles during in situ annealing. Nature Communications, 2015, 6, 8925.	12.8	159
46	Observations of Accelerated Silicon Carbide Recession by Oxidation at High Waterâ€Vapor Pressures. Journal of the American Ceramic Society, 2000, 83, 211-13.	3.8	150
47	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N₂ and H₂O. Small Methods, 2020, 4, 1900821.	8.6	148
48	Multimetallic Core/Interlayer/Shell Nanostructures as Advanced Electrocatalysts. Nano Letters, 2014, 14, 6361-6367.	9.1	146
49	Tunnel structured manganese oxide nanowires as redox active electrodes for hybrid capacitive deionization. Nano Energy, 2018, 44, 476-488.	16.0	145
50	Functionally graded hydroxyapatite coatings doped with antibacterial components. Acta Biomaterialia, 2010, 6, 2264-2273.	8.3	143
51	Thermally nitrided stainless steels for polymer electrolyte membrane fuel cell bipolar plates. Journal of Power Sources, 2004, 138, 79-85.	7.8	142
52	Electrical properties of epoxy resin based nano-composites. Nanotechnology, 2007, 18, 025703.	2.6	133
53	Antioxidant Deactivation on Graphenic Nanocarbon Surfaces. Small, 2011, 7, 2775-2785.	10.0	133
54	Rational Development of Ternary Alloy Electrocatalysts. Journal of Physical Chemistry Letters, 2012, 3, 1668-1673.	4.6	130

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55	Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. Energy and Environmental Science, 2020, 13, 3544-3555.	30.8	129
56	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21698-21705.	13.8	128
57	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. Nature Materials, 2020, 19, 1207-1214.	27.5	127
58	Synthesis of Homogeneous Pt-Bimetallic Nanoparticles as Highly Efficient Electrocatalysts. ACS Catalysis, 2011, 1, 1355-1359.	11.2	124
59	ElectroCat: DOE's approach to PGM-free catalyst and electrode R&D. Solid State Ionics, 2018, 319, 68-76.	2.7	121
60	Porosimetry of MEAs Made by â€œThin Film Decalâ€•Method and Its Effect on Performance of PEFCs. Journal of the Electrochemical Society, 2004, 151, A1841.	2.9	117
61	Phosphate-Tolerant Oxygen Reduction Catalysts. ACS Catalysis, 2014, 4, 3193-3200.	11.2	116
62	Excellent Stability of a Lithiumâ€Ionâ€Conducting Solid Electrolyte upon Reversible Li⁺/H⁺ Exchange in Aqueous Solutions. Angewandte Chemie - International Edition, 2015, 54, 129-133.	13.8	112
63	Highly Stable and Active Ptâ^'Cu Oxygen Reduction Electrocatalysts Based on Mesoporous Graphitic Carbon Supports. Chemistry of Materials, 2009, 21, 4515-4526.	6.7	109
64	Evaluation of CFCC liners with EBC after field testing in a gas turbine. Journal of the European Ceramic Society, 2002, 22, 2769-2775.	5.7	108
65	Effect of Quaternary Additions on the Oxidation Behavior of Hf-Doped NiAl. Oxidation of Metals, 2003, 59, 257-283.	2.1	106
66	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. Chemistry of Materials, 2011, 23, 1570-1577.	6.7	106
67	Identifying Contributing Degradation Phenomena in PEM Fuel Cell Membrane Electride Assemblies Via Electron Microscopy. ECS Transactions, 2006, 3, 717-733.	0.5	103
68	Influence of ionomer content on the structure and performance of PEFC membrane electrode assemblies. Electrochimica Acta, 2010, 55, 7404-7412.	5.2	100
69	Nitrogen: unraveling the secret to stable carbon-supported Pt-alloy electrocatalysts. Energy and Environmental Science, 2013, 6, 2957.	30.8	99
70	Recent Advances in Catalyst Accelerated Stress Tests for Polymer Electrolyte Membrane Fuel Cells. Journal of the Electrochemical Society, 2018, 165, F492-F501.	2.9	98
71	Elucidating the Dynamic Nature of Fuel Cell Electrodes as a Function of Conditioning: An ex Situ Material Characterization and in Situ Electrochemical Diagnostic Study. ACS Applied Materials & Interfaces, 2019, 11, 45016-45030.	8.0	96
72	An examination of double positioning boundaries and interface misfit in betaâ€SiC films on alphaâ€SiC substrates. Journal of Applied Physics, 1988, 63, 2645-2650.	2.5	94

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73	Transmission Electron Microscopy Observation of Corrosion Behaviors of Platinized Carbon Blacks under Thermal and Electrochemical Conditions. Journal of the Electrochemical Society, 2010, 157, B906.	2.9	91
74	Enhancement of dielectric strength in nanocomposites. Nanotechnology, 2007, 18, 325704.	2.6	89
75	Creep and Stress Rupture Behavior of an Advanced Silicon Nitride: Part I, Experimental Observations. Journal of the American Ceramic Society, 1994, 77, 1217-1227.	3.8	86
76	Effects of High Waterâ€Vapor Pressure on Oxidation of Silicon Carbide at 1200Â°C. Journal of the American Ceramic Society, 2003, 86, 1249-1255.	3.8	84
77	Fuel-Cell Catalyst-Layer Resistance via Hydrogen Limiting-Current Measurements. Journal of the Electrochemical Society, 2019, 166, F3020-F3031.	2.9	84
78	Direct Visualization of Solid Electrolyte Interphase Formation in Lithium-Ion Batteries with In Situ Electrochemical Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 1029-1037.	0.4	83
79	Quantitative Electrochemical Measurements Using In Situ ec-S/TEM Devices. Microscopy and Microanalysis, 2014, 20, 452-461.	0.4	80
80	Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. ACS Applied Materials & Interfaces, 2019, 11, 46953-46964.	8.0	80
81	Graphene-Riched Co₉S₈-N-C Non-Precious Metal Catalyst for Oxygen Reduction in Alkaline Media. ECS Transactions, 2011, 41, 1709-1717.	0.5	79
82	Advanced analytical electron microscopy for lithium-ion batteries. NPG Asia Materials, 2015, 7, e193-e193.	7.9	76
83	3D Analysis of Fuel Cell Electrocatalyst Degradation on Alternate Carbon Supports. ACS Applied Materials & Interfaces, 2017, 9, 29839-29848.	8.0	76
84	Effect of thermally grown oxide (TGO) microstructure on the durability of TBCs with PtNiAl diffusion bond coats. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 417, 322-333.	5.6	75
85	A Combined Probe-Molecule, MÃ¶ssbauer, Nuclear Resonance Vibrational Spectroscopy, and Density Functional Theory Approach for Evaluation of Potential Iron Active Sites in an Oxygen Reduction Reaction Catalyst. Journal of Physical Chemistry C, 2017, 121, 16283-16290.	3.1	75
86	Low dose irradiation performance of SiC interphase SiC/SiC composites. Journal of Nuclear Materials, 1998, 253, 20-30.	2.7	73
87	Atomic-level active sites of efficient imidazolate framework-derived nickel catalysts for CO₂ reduction. Journal of Materials Chemistry A, 2019, 7, 26231-26237.	10.3	72
88	Single walled carbon nanohorns as photothermal cancer agents. Lasers in Surgery and Medicine, 2011, 43, 43-51.	2.1	67
89	Durability of Pt-Co Alloy Polymer Electrolyte Fuel Cell Cathode Catalysts under Accelerated Stress Tests. Journal of the Electrochemical Society, 2018, 165, F3166-F3177.	2.9	66
90	Highâ€Temperature Stability of SiCâ€Based Composites in Highâ€Waterâ€Vaporâ€Pressure Environments. Journal of the American Ceramic Society, 2003, 86, 1272-1281.	3.8	65

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91	A comparative study of phosphoric acidâ€doped mâ€PBI membranes. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 26-35.	2.1	65
92	The formation of protective nitride surfaces for PEM fuel cell metallic bipolar plates. Jom, 2006, 58, 50-57.	1.9	62
93	As-deposited mixed zone in thermally grown oxide beneath a thermal barrier coating. Surface and Coatings Technology, 2001, 146-147, 152-161.	4.8	61
94	Elucidation of Fe-N-C electrocatalyst active site functionality via in-situ X-ray absorption and operando determination of oxygen reduction reaction kinetics in a PEFC. Applied Catalysis B: Environmental, 2019, 257, 117929.	20.2	61
95	Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 10398.	2.8	59
96	Characterization of alumina interfaces in TBC systems. Journal of Materials Science, 2009, 44, 1676-1686.	3.7	58
97	Imaging and Microanalysis of Thin Ionomer Layers by Scanning Transmission Electron Microscopy. Journal of the Electrochemical Society, 2014, 161, F1111-F1117.	2.9	58
98	Acidâ€Functionalized Mesoporous Carbon: An Efficient Support for Rutheniumâ€Catalyzed Î³â€Valerolactone Production. ChemSusChem, 2015, 8, 2520-2528.	6.8	58
99	Enhanced visible light photocatalytic water reduction from a g-C3N4/SrTa2O6 heterojunction. Applied Catalysis B: Environmental, 2017, 217, 448-458.	20.2	58
100	Au on Nanosized NiO: A Cooperative Effect between Au and Nanosized NiO in the Baseâ€Free Alcohol Oxidation. ChemCatChem, 2011, 3, 1612-1618.	3.7	57
101	Potentiostatic and Potential Cycling Dissolution of Polycrystalline Platinum and Platinum Nano-Particle Fuel Cell Catalysts. Journal of the Electrochemical Society, 2018, 165, F3178-F3190.	2.9	57
102	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN₄ Sites for Oxygen Reduction. Angewandte Chemie, 2019, 131, 19147-19156.	2.0	57
103	In Vitro and in Vivo Studies of Single-Walled Carbon Nanohorns with Encapsulated Metallofullerenes and Exohedrally Functionalized Quantum Dots. Nano Letters, 2010, 10, 2843-2848.	9.1	56
104	Ion implantation in Î²-SiC: Effect of channeling direction and critical energy for amorphization. Journal of Materials Research, 1988, 3, 321-328.	2.6	55
105	The effect of water vapor on the oxidation behavior of Niâ€“Ptâ€“Al coatings and alloys. Surface and Coatings Technology, 2006, 201, 3852-3856.	4.8	55
106	Preparation and characterization of carbon-supported PtTi alloy electrocatalysts. Journal of Power Sources, 2008, 175, 794-799.	7.8	55
107	Highly Active, Durable Dispersed Iridium Nanocatalysts for PEM Water Electrolyzers. Journal of the Electrochemical Society, 2018, 165, F82-F89.	2.9	55
108	Visible-light-driven Bi₂O₃/WO₃ composites with enhanced photocatalytic activity. RSC Advances, 2015, 5, 91094-91102.	3.6	54

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109	Self-Assembly of Perylenediimide and Naphthalenediimide Nanostructures on Glass Substrates through Deposition from the Gas Phase. Journal of the American Chemical Society, 2008, 130, 10056-10057.	13.7	53
110	Properties of ultrafast laser textured silicon for photovoltaics. Solar Energy Materials and Solar Cells, 2011, 95, 2745-2751.	6.2	53
111	Creep and Creep Rupture of an Advanced Silicon Nitride Ceramic. Journal of the American Ceramic Society, 1994, 77, 867-874.	3.8	51
112	Physical properties of epoxy resin/titanium dioxide nanocomposites. Polymer Engineering and Science, 2011, 51, 87-93.	3.1	51
113	The Thermal Expansion, Elastic and Fracture Properties of Porous Cordierite at Elevated Temperatures. Journal of the American Ceramic Society, 2012, 95, 1682-1691.	3.8	50
114	PEM Fuel Cell Durability With Transportation Transient Operation. ECS Transactions, 2006, 3, 879-886.	0.5	49
115	Effect of polymerâ€“nanoparticle interactions on the glass transition dynamics and the conductivity mechanism in polyurethane titanium dioxide nanocomposites. Polymer, 2012, 53, 595-603.	3.8	49
116	Selfâ€Assembly of Nanostructured, Complex, Multication Films via Spontaneous Phase Separation and Strainâ€Driven Ordering. Advanced Functional Materials, 2013, 23, 1912-1918.	14.9	49
117	Electron microscopy of the growth features and crystal structures of filament assisted CVD diamond films. Surface and Coatings Technology, 1989, 39-40, 199-210.	4.8	48
118	Generating gradient germanium nanostructures by shock-induced amorphization and crystallization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9791-9796.	7.1	48
119	Gravure Coating for Roll-to-Roll Manufacturing of Proton-Exchange-Membrane Fuel Cell Catalyst Layers. Journal of the Electrochemical Society, 2018, 165, F1012-F1018.	2.9	48
120	Enhanced performance of room-temperature-grown epitaxial thin films of vanadium dioxide. Applied Physics Letters, 2011, 98, 251916.	3.3	47
121	Visible light assisted photocatalytic hydrogen generation by Ta₂O₅/Bi₂O₃, TaON/Bi₂O₃, and Ta₃N₅/Bi₂O₃ composites. RSC Advances, 2015, 5, 54998-55005.	3.6	47
122	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. Advanced Energy Materials, 2016, 6, 1600053.	19.5	46
123	Visible-light-active g-C₃N₄/N-doped Sr₂Nb₂O₇ heterojunctions as photocatalysts for the hydrogen evolution reaction. Sustainable Energy and Fuels, 2018, 2, 2507-2515.	4.9	46
124	Protective nitride formation on stainless steel alloys for proton exchange membrane fuel cell bipolar plates. Journal of Power Sources, 2007, 174, 228-236.	7.8	45
125	Nanoscale Engineering of Efficient Oxygen Reduction Electrocatalysts by Tailoring the Local Chemical Environment of Pt Surface Sites. ACS Catalysis, 2017, 7, 17-24.	11.2	44
126	Helium irradiated cavity formation and defect energetics in Ni-based binary single-phase concentrated solid solution alloys. Acta Materialia, 2019, 164, 283-292.	7.9	44

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127	Composition/structure/property relations of multi-ion-beam reactive sputtered lead lanthanum titanate thin films: Part I. Composition and structure analysis. Journal of Materials Research, 1992, 7, 3039-3055.	2.6	43
128	Non-congruence of thermally driven structural and electronic transitions in VO2. Journal of Applied Physics, 2012, 112, .	2.5	43
129	A Visibleâ€Lightâ€Active Heterojunction with Enhanced Photocatalytic Hydrogen Generation. ChemSusChem, 2016, 9, 1869-1879.	6.8	42
130	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. Nano Letters, 2018, 18, 7004-7013.	9.1	42
131	Pulsed Growth of Vertically Aligned Nanotube Arrays with Variable Density. ACS Nano, 2010, 4, 7573-7581.	14.6	41
132	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. Journal of Power Sources, 2010, 195, 5610-5618.	7.8	41
133	CO oxidation studies over cluster-derived Au/TiO2 and AUROliteâ„¢ Au/TiO2 catalysts using DRIFTS. Catalysis Today, 2013, 208, 72-81.	4.4	41
134	Enhanced Water Management of Polymer Electrolyte Fuel Cells with Additive-Containing Microporous Layers. ACS Applied Energy Materials, 2018, 1, 6006-6017.	5.1	41
135	Effects of radiation on SiC-based Nicalon fibers. Journal of Materials Research, 1995, 10, 736-747.	2.6	40
136	Effects of 3d electron configurations on helium bubble formation and void swelling in concentrated solid-solution alloys. Acta Materialia, 2019, 181, 519-529.	7.9	40
137	Multilayered Oxide Interphase Concept for Ceramicâ€Matrix Composites. Journal of the American Ceramic Society, 1998, 81, 717-720.	3.8	38
138	Pt3Re alloy nanoparticles as electrocatalysts for the oxygen reduction reaction. Nano Energy, 2016, 20, 202-211.	16.0	38
139	Critical role of intercalated water for electrocatalytically active nitrogen-doped graphitic systems. Science Advances, 2016, 2, e1501178.	10.3	36
140	Formation of the Conducting Filament in TaO_x-Resistive Switching Devices by Thermal-Gradient-Induced Cation Accumulation. ACS Applied Materials & Interfaces, 2018, 10, 23187-23197.	8.0	35
141	Transmission Electron Microscopy of Boundary-Lubricated Bearing Surfaces. Part II: Mineral Oil Lubricant with Sulfur-and Phosphorus-Containing Gear Oil Additives. Tribology Transactions, 2005, 48, 299-307.	2.0	34
142	Low-angle grain boundaries in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn> high critical current densities. Physical Review B, 2009, 79, .	3.2	34
143	Solid-state graphene formation via a nickel carbide intermediate phase. RSC Advances, 2015, 5, 99037-99043.	3.6	34
144	Transformation of Al2O3 to LiAlO2 in Pbâ€“17Li at 800Â°C. Journal of Nuclear Materials, 2008, 376, 108-113.	2.7	33

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145	Properties of a nanodielectric cryogenic resin. Applied Physics Letters, 2010, 96, .	3.3	33
146	Flux-Dependent Growth Kinetics and Diameter Selectivity in Single-Wall Carbon Nanotube Arrays. ACS Nano, 2011, 5, 8311-8321.	14.6	33
147	High-Activity, Durable Oxygen Reduction Electrocatalyst: Nanoscale Composite of Platinumâ˜Tantalum Oxyphosphate on Vulcan Carbon. Journal of Physical Chemistry Letters, 2010, 1, 1977-1981.	4.6	32
148	Evidence of High Electrocatalytic Activity of Molybdenum Carbide Supported Platinum Nanorafts. Journal of the Electrochemical Society, 2015, 162, H681-H685.	2.9	32
149	Impact of Catalyst Ink Dispersing Solvent on PEM Fuel Cell Performance and Durability. Journal of the Electrochemical Society, 2021, 168, 044517.	2.9	32
150	Layer-by-layer epitaxial growth of GaN at low temperatures. Thin Solid Films, 1993, 225, 244-249.	1.8	31
151	Occurrence and Distribution of Boron-Conitaining Phases in Sintered s-Silicon Carbide. Journal of the American Ceramic Society, 1986, 69, 695-698.	3.8	30
152	Evaluating the effect of oxygen content in BN interfacial coatings on the stability of SiC/BN/SiC composites. Composites Part A: Applied Science and Manufacturing, 1999, 30, 463-470.	7.6	30
153	Exposure of Ceramics and Ceramic Matrix Composites in Simulated and Actual Combustor Environments. Journal of Engineering for Gas Turbines and Power, 2000, 122, 212-218.	1.1	30
154	Advanced alloys for compact, high-efficiency, high-temperature heat-exchangers. International Journal of Hydrogen Energy, 2007, 32, 3622-3630.	7.1	30
155	Nanofiber Fuel Cell MEAs with a PtCo/C Cathode. Journal of the Electrochemical Society, 2019, 166, F3202-F3209.	2.9	30
156	Growth stressâ€…â€“â€…microstructure relationships for alumina scales. Materials at High Temperatures, 2003, 20, 303-309.	1.0	30
157	Characterization of thermally cycled alumina scales. Materials at High Temperatures, 2000, 17, 165-171.	1.0	29
158	Microstructural stability of copper with antimony dopants at grain boundaries: experiments and molecular dynamics simulations. Journal of Materials Science, 2010, 45, 6707-6718.	3.7	29
159	Fuel Cells Catalyst for Start-Up and Shutdown Conditions: Electrochemical, XPS, and STEM Evaluation of Sputter-Deposited Ru, Ir, and Ti on Pt-Coated Nanostructured Thin Film Supports. Electrocatalysis, 2012, 3, 284-297.	3.0	29
160	One-Step Synthesis of Zeolite Membranes Containing Catalytic Metal Nanoclusters. ACS Applied Materials & Interfaces, 2016, 8, 24671-24681.	8.0	29
161	Selection of Single-Walled Carbon Nanotube with Narrow Diameter Distribution by Using a PPEâ€“PPV Copolymer. ACS Macro Letters, 2012, 1, 246-251.	4.8	28
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