Karren L More

List of Publications by Year
in descending order

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324 papers	35,703 citations	6592 79 h-index	3394 183 g-index
334 all docs	334 docs citations	334 times ranked	29033 citing authors

#	Article	IF	Citations
1	Understanding effects of chemical complexity on helium bubble formation in Ni-based concentrated solid solution alloys based on elemental segregation measurements. Journal of Nuclear Materials, 2022, 569, 153902.	1.3	4
2	New roads and challenges for fuel cells in heavy-duty transportation. Nature Energy, 2021, 6, 462-474.	19.8	480
3	Effect of Catalyst and Catalyst Layer Composition on Catalyst Support Durability. Journal of the Electrochemical Society, 2021, 168, 044502.	1.3	11
4	Impact of Catalyst Ink Dispersing Solvent on PEM Fuel Cell Performance and Durability. Journal of the Electrochemical Society, 2021, 168, 044517.	1.3	32
5	Deep Learningâ€"Based Workflow for Analyzing Helium Bubbles in Transmission Electron Microscopy Images. Microscopy and Microanalysis, 2021, 27, 2132-2133.	0.2	0
6	High radiation tolerance of an ultrastrong nanostructured NiCoCr alloy with stable dispersed nanooxides and fine grain structure. Journal of Nuclear Materials, 2021, 557, 153316.	1.3	11
7	Preparation and investigation of Pd doped Cu catalysts for selective hydrogenation of acetylene. Frontiers of Chemical Science and Engineering, 2020, 14, 522-533.	2.3	12
8	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.	11.1	262
9	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. Nature Materials, 2020, 19, 1207-1214.	13.3	127
10	From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. Materialia, 2020, 9, 100603.	1.3	22
11	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie, 2020, 132, 21882-21889.	1.6	10
12	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21698-21705.	7.2	128
13	Improving Electronic Conductivity of Layered Oxides through the Formation of Two-Dimensional Heterointerface for Intercalation Batteries. ACS Applied Energy Materials, 2020, 3, 3835-3844.	2.5	21
14	Impact of Polyvinylidene Fluoride on Nanofiber Cathode Structure and Durability in Proton Exchange Membrane Fuel Cells. Journal of the Electrochemical Society, 2020, 167, 054517.	1.3	13
15	Recent developments in catalyst-related PEM fuel cell durability. Current Opinion in Electrochemistry, 2020, 21, 192-200.	2.5	216
16	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. Nature Communications, 2020, 11, 1022.	5.8	23
17	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N₂ and H₂O. Small Methods, 2020, 4, 1900821.	4.6	148
18	Exchange of Ions across the TiN/TaO_x Interface during Electroformation of TaO_x-Based Resistive Switching Devices. ACS Applied Materials & Interfaces, 2020, 12, 27378-27385.	4.0	12

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19	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.	15.6	129
20	Microstructural Evolution and ORR Activity of Nanocolumnar Platinum Thin Films with Different Mass Loadings Grown by High Pressure Sputtering. Journal of the Electrochemical Society, 2020, 167, 134514.	1.3	3
21	Oxygen Reduction Reaction Activity of Nanocolumnar Platinum Thin Films by High Pressure Sputtering. Journal of the Electrochemical Society, 2020, 167, 134508.	1.3	2
22	Interpreting Voids in Atom Probe Tomography Data via Experiment and Theory. Microscopy and Microanalysis, 2019, 25, 290-291.	0.2	0
23	Resolving Active Sites in Atomically Dispersed Electrocatalysts for Energy Conversion Applications. Microscopy and Microanalysis, 2019, 25, 2066-2067.	0.2	1
24	Investigating Effects of Alloy Chemical Complexity on Helium Bubble Formation by Accurate Segregation Measurements Using Atom Probe Tomography. Microscopy and Microanalysis, 2019, 25, 1558-1559.	0.2	6
25	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.	10.8	61
26	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN₄ Sites for Oxygen Reduction. Angewandte Chemie, 2019, 131, 19147-19156.	1.6	57
27	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN₄ Sites for Oxygen Reduction. Angewandte Chemie - International Edition, 2019, 58, 18971-18980.	7.2	362
28	Effects of 3d electron configurations on helium bubble formation and void swelling in concentrated solid-solution alloys. Acta Materialia, 2019, 181, 519-529.	3.8	40
29	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.	4.0	96
30	Electromagnetic Field Reconstructions of 4D-STEM Datasets using Ptychography and Differential Phase Contrast Imaging. Microscopy and Microanalysis, 2019, 25, 66-67.	0.2	1
31	Microscopic Analysis of PEMFC Catalyst Layers. ECS Transactions, 2019, 92, 95-105.	0.3	2
32	Brittle fracture to recoverable plasticity: polytypism-dependent nanomechanics in todorokite-like nanobelts. Nanoscale Advances, 2019, 1, 357-366.	2.2	9
33	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.	15.6	691
34	High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. Energy and Environmental Science, 2019, 12, 2548-2558.	15.6	457
35	Defect evolution in Ni and NiCoCr by in situ 2.8â€¯MeV Au irradiation. Journal of Nuclear Materials, 2019, 523, 502-509.	1.3	15
36	Stable Metallic Enrichment in Conductive Filaments in TaO_xâ€Based Resistive Switches Arising from Competing Diffusive Fluxes. Advanced Electronic Materials, 2019, 5, 1800954.	2.6	28

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37	Nanofiber Fuel Cell MEAs with a PtCo/C Cathode. Journal of the Electrochemical Society, 2019, 166, F3202-F3209.	1.3	30
38	Fuel-Cell Catalyst-Layer Resistance via Hydrogen Limiting-Current Measurements. Journal of the Electrochemical Society, 2019, 166, F3020-F3031.	1.3	84
39	Atomic-level active sites of efficient imidazolate framework-derived nickel catalysts for CO₂ reduction. Journal of Materials Chemistry A, 2019, 7, 26231-26237.	5.2	72
40	Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. ACS Applied Materials & Interfaces, 2019, 11, 46953-46964.	4.0	80
41	Electrospun Particle/Polymer Fiber Electrodes with a Neat Nafion Binder for Hydrogen/Air Fuel Cells. ECS Transactions, 2019, 92, 595-602.	0.3	11
42	Improved electrochemical cycling stability of intercalation battery electrodes via control of material morphology. Ionics, 2019, 25, 493-502.	1.2	8
43	Hard-Magnet L10-CoPt Nanoparticles Advance Fuel Cell Catalysis. Joule, 2019, 3, 124-135.	11.7	326
44	Helium irradiated cavity formation and defect energetics in Ni-based binary single-phase concentrated solid solution alloys. Acta Materialia, 2019, 164, 283-292.	3.8	44
45	Effects of Fe concentration on helium bubble formation in NiFex single-phase concentrated solid solution alloys. Materialia, 2019, 5, 100183.	1.3	21
46	Unveiling Active Sites of CO₂ Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. ACS Catalysis, 2018, 8, 3116-3122.	5.5	405
47	PtCo Cathode Catalyst Morphological and Compositional Changes after PEM Fuel Cell Accelerated Stress Testing. Journal of the Electrochemical Society, 2018, 165, F3078-F3084.	1.3	28
48	Potentiostatic and Potential Cycling Dissolution of Polycrystalline Platinum and Platinum Nano-Particle Fuel Cell Catalysts. Journal of the Electrochemical Society, 2018, 165, F3178-F3190.	1.3	57
49	Durability of Pt-Co Alloy Polymer Electrolyte Fuel Cell Cathode Catalysts under Accelerated Stress Tests. Journal of the Electrochemical Society, 2018, 165, F3166-F3177.	1.3	66
50	ElectroCat: DOE's approach to PGM-free catalyst and electrode R&D. Solid State Ionics, 2018, 319, 68-76.	1.3	121
51	Highly Active, Durable Dispersed Iridium Nanocatalysts for PEM Water Electrolyzers. Journal of the Electrochemical Society, 2018, 165, F82-F89.	1.3	55
52	Nitrogenâ€Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Advanced Materials, 2018, 30, 1706758.	11.1	788
53	Tunnel structured manganese oxide nanowires as redox active electrodes for hybrid capacitive deionization. Nano Energy, 2018, 44, 476-488.	8.2	145
54	Carbon Corrosion in PEM Fuel Cells and the Development of Accelerated Stress Tests. Journal of the Electrochemical Society, 2018, 165, F3148-F3160.	1.3	202

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55	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.	8.2	406
56	Enhanced Water Management of Polymer Electrolyte Fuel Cells with Additive-Containing Microporous Layers. ACS Applied Energy Materials, 2018, 1, 6006-6017.	2.5	41
57	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. Nano Letters, 2018, 18, 7004-7013.	4.5	42
58	Gravure Coating for Roll-to-Roll Manufacturing of Proton-Exchange-Membrane Fuel Cell Catalyst Layers. Journal of the Electrochemical Society, 2018, 165, F1012-F1018.	1.3	48
59	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. Nature Catalysis, 2018, 1, 935-945.	16.1	1,075
60	Visible-light-active g-C₃N₄/N-doped Sr₂Nb₂O₇ heterojunctions as photocatalysts for the hydrogen evolution reaction. Sustainable Energy and Fuels, 2018, 2, 2507-2515.	2.5	46
61	Recent Advances in Catalyst Accelerated Stress Tests for Polymer Electrolyte Membrane Fuel Cells. Journal of the Electrochemical Society, 2018, 165, F492-F501.	1.3	98
62	Unraveling the Effects of Strontium Incorporation on Barite Growthâ€"In Situ and Ex Situ Observations Using Multiscale Chemical Imaging. Crystal Growth and Design, 2018, 18, 5521-5533.	1.4	23
63	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.	4.0	35
64	Mechanism of Zn Insertion into Nanostructured Î´-MnO₂: A Nonaqueous Rechargeable Zn Metal Battery. Chemistry of Materials, 2017, 29, 4874-4884.	3.2	225
65	Enhanced visible light photocatalytic water reduction from a g-C3N4/SrTa2O6 heterojunction. Applied Catalysis B: Environmental, 2017, 217, 448-458.	10.8	58
66	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.	3.3	48
67	3D Analysis of Fuel Cell Electrocatalyst Degradation on Alternate Carbon Supports. ACS Applied Materials & Interfaces, 2017, 9, 29839-29848.	4.0	76
68	Direct atomic-level insight into the active sites of a high-performance PGM-free ORR catalyst. Science, 2017, 357, 479-484.	6.0	1,273
69	Bottom up synthesis of boron-doped graphene for stable intermediate temperature fuel cell electrodes. Carbon, 2017, 123, 605-615.	5.4	23
70	Control of Architecture in Rhombic Dodecahedral Ptâ€"Ni Nanoframe Electrocatalysts. Journal of the American Chemical Society, 2017, 139, 11678-11681.	6.6	166
71	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. Microscopy and Microanalysis, 2017, 23, 1998-1999.	0.2	0
72	Electron Tomography of PEM Fuel Cell Catalyst Coarsening on Alternate Carbon Supports. Microscopy and Microanalysis, 2017, 23, 2090-2091.	0.2	1

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73	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.	1.5	75
74	Nanoscale Engineering of Efficient Oxygen Reduction Electrocatalysts by Tailoring the Local Chemical Environment of Pt Surface Sites. ACS Catalysis, 2017, 7, 17-24.	5.5	44
75	Water-gas shift reaction on alumina-supported Pt-CeO catalysts prepared by supercritical fluid deposition. Journal of Supercritical Fluids, 2017, 119, 113-121.	1.6	16
76	In situ Nanoscale Imaging and Spectroscopy of Energy Storage Materials. Microscopy and Microanalysis, 2017, 23, 1964-1965.	0.2	0
77	Overcoming the Challenges of Beam-sensitivity in Fuel Cell Electrodes. Microscopy and Microanalysis, 2017, 23, 2222-2223.	0.2	2
78	Quantification of Atomic Arrangements at Heterostructure Interfaces. Microscopy and Microanalysis, 2016, 22, 1502-1503.	0.2	0
79	Evolution of Au 25 (SR)18 Nanoclusters on Ceria Surfaces during in situ Electron Beam Irradiation. Microscopy and Microanalysis, 2016, 22, 1278-1279.	0.2	0
80	A Visibleâ€Ł ightâ€Active Heterojunction with Enhanced Photocatalytic Hydrogen Generation. ChemSusChem, 2016, 9, 1869-1879.	3.6	42
81	Carbonaceous Nanowire Supports for Polymer Electrolyte Membrane Fuel Cells. Journal of the Electrochemical Society, 2016, 163, F115-F121.	1.3	0
82	Atom Probe Tomography of Interfacial Segregation in CdTe-based Solar Cells. Microscopy and Microanalysis, 2016, 22, 646-647.	0.2	0
83	Data Analytics Applied to Chemical Transformations in Liquids. Microscopy and Microanalysis, 2016, 22, 740-741.	0.2	0
84	Interfacial Stability of Li Metalâ€“Solid Electrolyte Elucidated via in Situ Electron Microscopy. Nano Letters, 2016, 16, 7030-7036.	4.5	309
85	One-Step Synthesis of Zeolite Membranes Containing Catalytic Metal Nanoclusters. ACS Applied Materials & Interfaces, 2016, 8, 24671-24681.	4.0	29
86	Durability of Polymer Electrolyte Membrane Fuel Cells Operated at Subfreezing Temperatures. Journal of the Electrochemical Society, 2016, 163, F1317-F1329.	1.3	19
87	Critical role of intercalated water for electrocatalytically active nitrogen-doped graphitic systems. Science Advances, 2016, 2, e1501178.	4.7	36
88	A â€œHiddenâ€•Mesoscopic Feature Revealed By Electron Microscopy Could Facilitate Ion Transport In Solid Electrolytes. Microscopy and Microanalysis, 2016, 22, 1308-1309.	0.2	0
89	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. Advanced Energy Materials, 2016, 6, 1600053.	10.2	46
90	Pt3Re alloy nanoparticles as electrocatalysts for the oxygen reduction reaction. Nano Energy, 2016, 20, 202-211.	8.2	38

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91	CdSe1_xTex Phase Segregation in CdSe/CdTe Based Solar Cells. Microscopy and Microanalysis, 2015, 21, 691-692.	0.2	2
92	In situ Electrochemical TEM for Quantitative Nanoscale Imaging Dynamics of Solid Electrolyte Interphase and Lithium Electrodeposition. Microscopy and Microanalysis, 2015, 21, 2437-2438.	0.2	2
93	Acidâ€Functionalized Mesoporous Carbon: An Efficient Support for Rutheniumâ€Catalyzed Î³â€Valerolactone Production. ChemSusChem, 2015, 8, 2520-2528.	3.6	58
94	Effective Strategy for Improving Electrocatalyst Durability by Adhesive Immobilization of Catalyst Nanoparticles on Graphitic Carbon Supports. ACS Catalysis, 2015, 5, 3662-3674.	5.5	13
95	Structural Evolution of Molybdenum Carbides in Hot Aqueous Environments and Impact on Low-Temperature Hydroprocessing of Acetic Acid. Catalysts, 2015, 5, 406-423.	1.6	14
96	Solid-state graphene formation via a nickel carbide intermediate phase. RSC Advances, 2015, 5, 99037-99043.	1.7	34
97	Todorokite-type manganese oxide nanowires as an intercalation cathode for Li-ion and Na-ion batteries. RSC Advances, 2015, 5, 106265-106271.	1.7	28
98	Nanoscale Imaging of Fundamental Li Battery Chemistry: Solid-Electrolyte Interphase Formation and Preferential Growth of Lithium Metal Nanoclusters. Nano Letters, 2015, 15, 2011-2018.	4.5	185
99	Evidence of High Electrocatalytic Activity of Molybdenum Carbide Supported Platinum Nanorafts. Journal of the Electrochemical Society, 2015, 162, H681-H685.	1.3	32
100	Visible light assisted photocatalytic hydrogen generation by Ta₂O₅/Bi₂O₃, TaON/Bi₂O₃, and Ta₃N₅/Bi₂O₃ composites. RSC Advances, 2015, 5, 54998-55005.	1.7	47
101	Advanced analytical electron microscopy for lithium-ion batteries. NPG Asia Materials, 2015, 7, e193-e193.	3.8	76
102	Visible-light-driven Bi₂O₃/WO₃ composites with enhanced photocatalytic activity. RSC Advances, 2015, 5, 91094-91102.	1.7	54
103	Probing battery chemistry with liquid cell electron energy loss spectroscopy. Chemical Communications, 2015, 51, 16377-16380.	2.2	25
104	High temperature proton exchange membranes with enhanced proton conductivities at low humidity and high temperature based on polymer blends and block copolymers of poly(1,3-cyclohexadiene) and poly(ethylene glycol). Polymer, 2015, 77, 208-217.	1.8	9
105	Surface faceting and elemental diffusion behaviour at atomic scale for alloy nanoparticles during in situ annealing. Nature Communications, 2015, 6, 8925.	5.8	159
106	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.	7.2	112
107	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.	0.2	83
108	Quantitative Electrochemical Measurements Using In Situ ec-S/TEM Devices. Microscopy and Microanalysis, 2014, 20, 452-461.	0.2	80

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109	Imaging and Microanalysis of Thin Ionomer Layers by Scanning Transmission Electron Microscopy. Journal of the Electrochemical Society, 2014, 161, F1111-F1117.	1.3	58
110	Highly Robust Lithium Ion Battery Anodes from Lignin: An Abundant, Renewable, and Lowâ€Cost Material. Advanced Functional Materials, 2014, 24, 86-94.	7.8	205
111	Ozonated Graphene Oxide Film as a Protonâ€Exchange Membrane. Angewandte Chemie - International Edition, 2014, 53, 3588-3593.	7.2	214
112	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. Science, 2014, 343, 1339-1343.	6.0	2,376
113	A comparative study of phosphoric acidâ€doped mâ€PBI membranes. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 26-35.	2.4	65
114	Direct visualization of initial SEI morphology and growth kinetics during lithium deposition by in situ electrochemical transmission electron microscopy. Chemical Communications, 2014, 50, 2104.	2.2	172
115	High-Resolution Mapping of the PFSA Polymer Distribution in PEFC Electrode Layers. ECS Transactions, 2014, 64, 819-827.	0.3	3
116	Atomic-scale origin of the large grain-boundary resistance in perovskite Li-ion-conducting solid electrolytes. Energy and Environmental Science, 2014, 7, 1638.	15.6	219
117	Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 10398.	1.3	59
118	Impact of IrRu oxygen evolution reaction catalysts on Pt nanostructured thin films under start-up/shutdown cycling. Journal of Power Sources, 2014, 269, 671-681.	4.0	19
119	Phosphate-Tolerant Oxygen Reduction Catalysts. ACS Catalysis, 2014, 4, 3193-3200.	5.5	116
120	Monolithic Composite Electrodes Comprising Silicon Nanoparticles Embedded in Ligninâ€derived Carbon Fibers for Lithiumâ€Ion Batteries. Energy Technology, 2014, 2, 773-777.	1.8	22
121	Multimetallic Core/Interlayer/Shell Nanostructures as Advanced Electrocatalysts. Nano Letters, 2014, 14, 6361-6367.	4.5	146
122	Electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid on supported Au and Pd bimetallic nanoparticles. Green Chemistry, 2014, 16, 3778-3786.	4.6	217
123	Tuning Electrodeposition Parameters for Tailored Nanoparticle Size, Shape, and Morphology: An In Situ ec-STEM Investigation. Microscopy and Microanalysis, 2014, 20, 1506-1507.	0.2	1
124	In operando Transmission Electron Microscopy Imaging of SEI Formation and Structure in Li-Ion and Li-Metal Batteries. Microscopy and Microanalysis, 2014, 20, 1538-1539.	0.2	1
125	Novel Method for Precision Controlled Heating of TEM Thin Sections to Study Reaction Processes. Microscopy and Microanalysis, 2014, 20, 1628-1629.	0.2	1
126	Laser Interactions for the Synthesis and In Situ Diagnostics of Nanomaterials. Springer Series in Materials Science, 2014, , 143-173.	0.4	4

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127	Microstructure and mechanical properties of two-phase Fe30Ni20Mn20Al30. Part I: Microstructure. Journal of Materials Science, 2013, 48, 7435-7445.	1.7	5
128	Selfâ€Assembly of Nanostructured, Complex, Multication Films via Spontaneous Phase Separation and Strainâ€Driven Ordering. Advanced Functional Materials, 2013, 23, 1912-1918.	7.8	49
129	Microstructure and mechanical behavior of directionally solidified Fe35Ni15Mn25Al25. Intermetallics, 2013, 32, 413-422.	1.8	5
130	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.	6.6	184
131	Synthesis of platinum single-crystal nanoparticles in water vapor. Journal of Materials Science, 2013, 48, 3834-3840.	1.7	3
132	A carbon-nanotube-supported graphene-rich non-precious metal oxygen reduction catalyst with enhanced performance durability. Chemical Communications, 2013, 49, 3291.	2.2	196
133	Nitrogen: unraveling the secret to stable carbon-supported Pt-alloy electrocatalysts. Energy and Environmental Science, 2013, 6, 2957.	15.6	99
134	High-temperature transformation of Fe-decorated single-wall carbon nanohorns to nanooysters: a combined experimental and theoretical study. Nanoscale, 2013, 5, 1849-1857.	2.8	10
135	Laser-assisted solid-state synthesis of carbon nanotube/silicon core/shell structures. Nanotechnology, 2013, 24, 255604.	1.3	3
136	Magnetic alignment of SWCNTs decorated with Fe3O4 to enhance mechanical properties of SC-15 epoxy. AIP Advances, 2013, 3, .	0.6	18
137	CO oxidation studies over cluster-derived Au/TiO2 and AUROliteâ„¢ Au/TiO2 catalysts using DRIFTS. Catalysis Today, 2013, 208, 72-81.	2.2	41
138	Oxygen Electroreduction on Nanoscale Pt/[TaOPO4/VC] and Pt/[Ta2O5/VC] in Alkaline Electrolyte. ECS Electrochemistry Letters, 2013, 2, H46-H50.	1.9	6
139	Composition Dependence of the Pore Structure and Water Transport of Composite Catalyst Layers for Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2013, 160, F1000-F1005.	1.3	26
140	PEM Fuel Cell Catalyst Layer Structure Degradation during Carbon Corrosion. ECS Transactions, 2013, 58, 945-952.	0.3	4
141	Accelerated Testing of Carbon Corrosion and Membrane Degradation in PEM Fuel Cells. ECS Transactions, 2013, 50, 1003-1010.	0.3	23
142	Spatially Resolved Degradation During Startup and Shutdown PEM Fuel Cell Operation. ECS Meeting Abstracts, 2013, , .	0.0	0
143	Epoxy nanodielectrics fabricated within situandex situtechniques. Journal of Experimental Nanoscience, 2012, 7, 274-281.	1.3	20
144	Investigation of a Silicotungstic Acid Functionalized Carbon on Pt Activity and Durability for the Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2012, 159, F871-F879.	1.3	4

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145	Selection of Single-Walled Carbon Nanotube with Narrow Diameter Distribution by Using a PPEâ€“PPV Copolymer. ACS Macro Letters, 2012, 1, 246-251.	2.3	28
146	Achieving Diameter-Selective Separation of Single-Walled Carbon Nanotubes by Using Polymer Conformation-Confined Helical Cavity. ACS Macro Letters, 2012, 1, 701-705.	2.3	19
147	Versatile and biomass synthesis of iron-based nanoparticles supported on carbon matrix with high iron content and tunable reactivity. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	6
148	A narrow biasing window for high density diamond nucleation on Ir/YSZ/Si(100) using microwave plasma chemical vapor deposition. Diamond and Related Materials, 2012, 23, 28-33.	1.8	18
149	Understanding Oxygen Reduction on Tantalum Oxyphosphate and Tantalum Oxide Supported Platinum by X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 18175-18183.	1.5	22
150	Oxide growth stress measurements and relaxation mechanisms for alumina scales grown on FeCrAlY. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, 857-861.	0.8	4
151	A Facile Synthesis of MPd (M = Co, Cu) Nanoparticles and Their Catalysis for Formic Acid Oxidation. Nano Letters, 2012, 12, 1102-1106.	4.5	233
152	Non-congruence of thermally driven structural and electronic transitions in VO2. Journal of Applied Physics, 2012, 112, .	1.1	43
153	Rational Development of Ternary Alloy Electrocatalysts. Journal of Physical Chemistry Letters, 2012, 3, 1668-1673.	2.1	130
154	Novel Pulse Electrodeposited Coâ€“Cuâ€“ZnO Nanowire/tube Catalysts for C₁â€“C₄ Alcohols and C₂â€“C₆ (Except C₅) Hydrocarbons from CO and H₂. Journal of Physical Chemistry C, 2012, 116, 10924-10933.	1.5	10
155	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.	1.5	29
156	Nonequilibrium laser synthesis and real-time diagnostics of carbon nanomaterial growth. , 2012, , .		0
157	Incremental Growth of Short SWNT Arrays by Pulsed Chemical Vapor Deposition. Small, 2012, 8, 1534-1542.	5.2	9
158	Comparison of Short-Term Oxidation Behavior of Model and Commercial Chromia-Forming Ferritic Stainless Steels in Dry and Wet Air. Oxidation of Metals, 2012, 78, 1-16.	1.0	10
159	The Thermal Expansion, Elastic and Fracture Properties of Porous Cordierite at Elevated Temperatures. Journal of the American Ceramic Society, 2012, 95, 1682-1691.	1.9	50
160	Effect of polymerâ€“nanoparticle interactions on the glass transition dynamics and the conductivity mechanism in polyurethane titanium dioxide nanocomposites. Polymer, 2012, 53, 595-603.	1.8	49
161	Colloidal synthesis of BaF2 nanoparticles and their application as fillers in polymer nanocomposites. Applied Physics A: Materials Science and Processing, 2012, 106, 661-667.	1.1	11
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