

# Karren L More

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

319  
papers

28,535  
citations

72  
h-index

165  
g-index

334  
ext. papers

32,080  
ext. citations

7.2  
avg, IF

7.08  
L-index

#	Paper	IF	Citations
319	New roads and challenges for fuel cells in heavy-duty transportation. <i>Nature Energy</i> , <b>2021</b> , 6, 462-474	62.3	89
318	Effect of Catalyst and Catalyst Layer Composition on Catalyst Support Durability. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 044502	3.9	4
317	Impact of Catalyst Ink Dispersing Solvent on PEM Fuel Cell Performance and Durability. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 044517	3.9	8
316	Deep LearningBased Workflow for Analyzing Helium Bubbles in Transmission Electron Microscopy Images. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2132-2133	0.5	
315	High radiation tolerance of an ultrastrong nanostructured NiCoCr alloy with stable dispersed nanooxides and fine grain structure. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 557, 153316	3.3	2
314	Improving Electronic Conductivity of Layered Oxides through the Formation of Two-Dimensional Heterointerface for Intercalation Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3835-3844	6.1	12
313	Impact of Polyvinylidene Fluoride on Nanofiber Cathode Structure and Durability in Proton Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 054517	3.9	7
312	Recent developments in catalyst-related PEM fuel cell durability. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 192-200	7.2	75
311	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. <i>Nature Communications</i> , <b>2020</b> , 11, 1022	17.4	16
310	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N <sub>2</sub> and H <sub>2</sub> O. <i>Small Methods</i> , <b>2020</b> , 4, 1900821	12.8	88
309	Microstructural Evolution and ORR Activity of Nanocolumnar Platinum Thin Films with Different Mass Loadings Grown by High Pressure Sputtering. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 134514	3.9	1
308	Oxygen Reduction Reaction Activity of Nanocolumnar Platinum Thin Films by High Pressure Sputtering. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 134508	3.9	1
307	Exchange of Ions across the TiN/TaO Interface during Electroformation of TaO-Based Resistive Switching Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 27378-27385	9.5	1
306	Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3544-3555	35.4	66
305	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and High-Power PGM-Free Cathodes in Fuel Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003577	24	132
304	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. <i>Nature Materials</i> , <b>2020</b> , 19, 1207-1214	27	57
303	From suppressed void growth to significant void swelling in NiCoFeCr complex concentrated solid-solution alloy. <i>Materialia</i> , <b>2020</b> , 9, 100603	3.2	15

302	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21882-21889	3.6	6
301	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21698-21705	16.4	55
300	Preparation and investigation of Pd doped Cu catalysts for selective hydrogenation of acetylene. <i>Frontiers of Chemical Science and Engineering</i> , <b>2020</b> , 14, 522-533	4.5	5
299	Electromagnetic Field Reconstructions of 4D-STEM Datasets using Ptychography and Differential Phase Contrast Imaging. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 66-67	0.5	
298	Microscopic Analysis of PEMFC Catalyst Layers. <i>ECS Transactions</i> , <b>2019</b> , 92, 95-105	1	0
297	Brittle fracture to recoverable plasticity: polytypism-dependent nanomechanics in todorokite-like nanobelts. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 357-366	5.1	7
296	Highly active atomically dispersed CoN <sub>4</sub> fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 250-260	35.4	475
295	High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2548-2558	35.4	280
294	Defect evolution in Ni and NiCoCr by in situ 2.8 MeV Au irradiation. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 523, 502-509	3.3	8
293	Stable Metallic Enrichment in Conductive Filaments in TaO <sub>x</sub> -Based Resistive Switches Arising from Competing Diffusive Fluxes. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800954	6.4	22
292	Nanofiber Fuel Cell MEAs with a PtCo/C Cathode. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F3202-F3205	3.9	49
291	Fuel-Cell Catalyst-Layer Resistance via Hydrogen Limiting-Current Measurements. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F3020-F3031	3.9	49
290	Interpreting Voids in Atom Probe Tomography Data via Experiment and Theory. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 290-291	0.5	
289	Resolving Active Sites in Atomically Dispersed Electrocatalysts for Energy Conversion Applications. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 2066-2067	0.5	1
288	Investigating Effects of Alloy Chemical Complexity on Helium Bubble Formation by Accurate Segregation Measurements Using Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1558-1559	0.5	4
287	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. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117929	21.8	45
286	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN <sub>4</sub> Sites for Oxygen Reduction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 19147-19156	3.6	38
285	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN Sites for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18971-18980	16.4	207

284	Effects of 3d electron configurations on helium bubble formation and void swelling in concentrated solid-solution alloys. <i>Acta Materialia</i> , <b>2019</b> , 181, 519-529	8.4	23
283	Elucidating the Dynamic Nature of Fuel Cell Electrodes as a Function of Conditioning: An ex Situ Material Characterization and in Situ Electrochemical Diagnostic Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45016-45030	9.5	42
282	Atomic-level active sites of efficient imidazolate framework-derived nickel catalysts for CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26231-26237	13	46
281	Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46953-46964	9.5	41
280	Electrospun Particle/Polymer Fiber Electrodes with a Neat Nafion Binder for Hydrogen/Air Fuel Cells. <i>ECS Transactions</i> , <b>2019</b> , 92, 595-602	1	4
279	Improved electrochemical cycling stability of intercalation battery electrodes via control of material morphology. <i>Ionics</i> , <b>2019</b> , 25, 493-502	2.7	6
278	Hard-Magnet L10-CoPt Nanoparticles Advance Fuel Cell Catalysis. <i>Joule</i> , <b>2019</b> , 3, 124-135	27.8	171
277	Helium irradiated cavity formation and defect energetics in Ni-based binary single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , <b>2019</b> , 164, 283-292	8.4	30
276	Effects of Fe concentration on helium bubble formation in NiFe single-phase concentrated solid solution alloys. <i>Materialia</i> , <b>2019</b> , 5, 100183	3.2	16
275	Unveiling Active Sites of CO <sub>2</sub> Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3116-3122	13.1	304
274	PtCo Cathode Catalyst Morphological and Compositional Changes after PEM Fuel Cell Accelerated Stress Testing. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F3078-F3084	3.9	22
273	Potentiostatic and Potential Cycling Dissolution of Polycrystalline Platinum and Platinum Nano-Particle Fuel Cell Catalysts. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F3178-F3190	3.9	34
272	Durability of Pt-Co Alloy Polymer Electrolyte Fuel Cell Cathode Catalysts under Accelerated Stress Tests. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F3166-F3177	3.9	38
271	ElectroCat: DOE's approach to PGM-free catalyst and electrode R&D. <i>Solid State Ionics</i> , <b>2018</b> , 319, 68-76	3.3	82
270	Highly Active, Durable Dispersed Iridium Nanocatalysts for PEM Water Electrolyzers. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F82-F89	3.9	28
269	Nitrogen-Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706758	24	590
268	Tunnel structured manganese oxide nanowires as redox active electrodes for hybrid capacitive deionization. <i>Nano Energy</i> , <b>2018</b> , 44, 476-488	17.1	95
267	Carbon Corrosion in PEM Fuel Cells and the Development of Accelerated Stress Tests. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F3148-F3160	3.9	127

266	Metal-organic framework-derived nitrogen-doped highly disordered carbon for electrochemical ammonia synthesis using N <sub>2</sub> and H <sub>2</sub> O in alkaline electrolytes. <i>Nano Energy</i> , <b>2018</b> , 48, 217-226	17.1	309
265	Unraveling the Effects of Strontium Incorporation on Barite Growth In Situ and Ex Situ Observations Using Multiscale Chemical Imaging. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 5521-5533	3.5	16
264	Formation of the Conducting Filament in TaO <sub>x</sub> -Resistive Switching Devices by Thermal-Gradient-Induced Cation Accumulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23187-23197	9.5	21
263	Enhanced Water Management of Polymer Electrolyte Fuel Cells with Additive-Containing Microporous Layers. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6006-6017	6.1	25
262	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. <i>Nano Letters</i> , <b>2018</b> , 18, 7004-7013	11.5	30
261	Gravure Coating for Roll-to-Roll Manufacturing of Proton-Exchange-Membrane Fuel Cell Catalyst Layers. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F1012-F1018	3.9	31
260	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. <i>Nature Catalysis</i> , <b>2018</b> , 1, 935-945	36.5	691
259	Visible-light-active g-C <sub>3</sub> N <sub>4</sub> /N-doped Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> heterojunctions as photocatalysts for the hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2507-2515	5.8	34
258	Recent Advances in Catalyst Accelerated Stress Tests for Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F492-F501	3.9	45
257	Mechanism of Zn Insertion into Nanostructured MnO <sub>2</sub> : A Nonaqueous Rechargeable Zn Metal Battery. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4874-4884	9.6	171
256	Enhanced visible light photocatalytic water reduction from a g-C <sub>3</sub> N <sub>4</sub> /SrTa <sub>2</sub> O <sub>6</sub> heterojunction. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 448-458	21.8	50
255	Generating gradient germanium nanostructures by shock-induced amorphization and crystallization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 9791-9796	11.5	34
254	3D Analysis of Fuel Cell Electrocatalyst Degradation on Alternate Carbon Supports. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29839-29848	9.5	49
253	Direct atomic-level insight into the active sites of a high-performance PGM-free ORR catalyst. <i>Science</i> , <b>2017</b> , 357, 479-484	33.3	920
252	Bottom up synthesis of boron-doped graphene for stable intermediate temperature fuel cell electrodes. <i>Carbon</i> , <b>2017</b> , 123, 605-615	10.4	16
251	Control of Architecture in Rhombic Dodecahedral Pt-Ni Nanoframe Electrocatalysts. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11678-11681	16.4	140
250	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1998-1999	0.5	
249	Electron Tomography of PEM Fuel Cell Catalyst Coarsening on Alternate Carbon Supports. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 2090-2091	0.5	

248	A Combined Probe-Molecule, Mössbauer, Nuclear Resonance Vibrational Spectroscopy, and Density Functional Theory Approach for Evaluation of Potential Iron Active Sites in an Oxygen Reduction Reaction Catalyst. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 16283-16290	3.8	60
247	Nanoscale Engineering of Efficient Oxygen Reduction Electrocatalysts by Tailoring the Local Chemical Environment of Pt Surface Sites. <i>ACS Catalysis</i> , <b>2017</b> , 7, 17-24	13.1	37
246	Water-gas shift reaction on alumina-supported Pt-CeO catalysts prepared by supercritical fluid deposition. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 119, 113-121	4.2	12
245	In situ Nanoscale Imaging and Spectroscopy of Energy Storage Materials. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1964-1965	0.5	
244	Overcoming the Challenges of Beam-sensitivity in Fuel Cell Electrodes. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 2222-2223	0.5	1
243	One-Step Synthesis of Zeolite Membranes Containing Catalytic Metal Nanoclusters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24671-81	9.5	20
242	Durability of Polymer Electrolyte Membrane Fuel Cells Operated at Subfreezing Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F1317-F1329	3.9	13
241	Critical role of intercalated water for electrocatalytically active nitrogen-doped graphitic systems. <i>Science Advances</i> , <b>2016</b> , 2, e1501178	14.3	30
240	A Hidden Mesoscopic Feature Revealed By Electron Microscopy Could Facilitate Ion Transport In Solid Electrolytes. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1308-1309	0.5	
239	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600053	21.8	33
238	Pt <sub>3</sub> Re alloy nanoparticles as electrocatalysts for the oxygen reduction reaction. <i>Nano Energy</i> , <b>2016</b> , 20, 202-211	17.1	31
237	Quantification of Atomic Arrangements at Heterostructure Interfaces. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1502-1503	0.5	
236	Evolution of Au <sub>25</sub> (SR) <sub>18</sub> Nanoclusters on Ceria Surfaces during in situ Electron Beam Irradiation. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1278-1279	0.5	
235	A Visible-Light-Active Heterojunction with Enhanced Photocatalytic Hydrogen Generation. <i>ChemSusChem</i> , <b>2016</b> , 9, 1869-79	8.3	34
234	Carbonaceous Nanowire Supports for Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F115-F121	3.9	
233	Atom Probe Tomography of Interfacial Segregation in CdTe-based Solar Cells. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 646-647	0.5	
232	Data Analytics Applied to Chemical Transformations in Liquids. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 740-741	0.5	
231	Interfacial Stability of Li Metal-Solid Electrolyte Elucidated via in Situ Electron Microscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 7030-7036	11.5	239

230	Nanoscale imaging of fundamental li battery chemistry: solid-electrolyte interphase formation and preferential growth of lithium metal nanoclusters. <i>Nano Letters</i> , <b>2015</b> , 15, 2011-8	11.5	157
229	Evidence of High Electrocatalytic Activity of Molybdenum Carbide Supported Platinum Nanorafcs. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, H681-H685	3.9	22
228	Visible light assisted photocatalytic hydrogen generation by Ta2O5/Bi2O3, TaON/Bi2O3, and Ta3N5/Bi2O3 composites. <i>RSC Advances</i> , <b>2015</b> , 5, 54998-55005	3.7	40
227	Advanced analytical electron microscopy for lithium-ion batteries. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e193-e193	10.3	60
226	Visible-light-driven Bi2O3/WO3 composites with enhanced photocatalytic activity. <i>RSC Advances</i> , <b>2015</b> , 5, 91094-91102	3.7	41
225	Probing battery chemistry with liquid cell electron energy loss spectroscopy. <i>Chemical Communications</i> , <b>2015</b> , 51, 16377-80	5.8	23
224	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). <i>Polymer</i> , <b>2015</b> , 77, 208-217	3.9	7
223	Surface faceting and elemental diffusion behaviour at atomic scale for alloy nanoparticles during in situ annealing. <i>Nature Communications</i> , <b>2015</b> , 6, 8925	17.4	132
222	Excellent stability of a lithium-ion-conducting solid electrolyte upon reversible Li(+) /H(+) exchange in aqueous solutions. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 129-33	16.4	86
221	CdSe1_xTex Phase Segregation in CdSe/CdTe Based Solar Cells. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 691-692	0.5	2
220	In situ Electrochemical TEM for Quantitative Nanoscale Imaging Dynamics of Solid Electrolyte Interphase and Lithium Electrodeposition. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 2437-2438	0.5	2
219	Acid-functionalized mesoporous carbon: an efficient support for ruthenium-catalyzed Valerolactone production. <i>ChemSusChem</i> , <b>2015</b> , 8, 2520-8	8.3	51
218	Effective Strategy for Improving Electrocatalyst Durability by Adhesive Immobilization of Catalyst Nanoparticles on Graphitic Carbon Supports. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3662-3674	13.1	11
217	Structural Evolution of Molybdenum Carbides in Hot Aqueous Environments and Impact on Low-Temperature Hydroprocessing of Acetic Acid. <i>Catalysts</i> , <b>2015</b> , 5, 406-423	4	12
216	Solid-state graphene formation via a nickel carbide intermediate phase. <i>RSC Advances</i> , <b>2015</b> , 5, 99037-99043	3.7	27
215	Todorokite-type manganese oxide nanowires as an intercalation cathode for Li-ion and Na-ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 106265-106271	3.7	24
214	Ozonated graphene oxide film as a proton-exchange membrane. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3588-93	16.4	173
213	Highly crystalline multimetallic nanoframes with three-dimensional electrocatalytic surfaces. <i>Science</i> , <b>2014</b> , 343, 1339-43	33.3	1989

212	A comparative study of phosphoric acid-doped m-PBI membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2014</b> , 52, 26-35	2.6	53
211	Direct visualization of initial SEI morphology and growth kinetics during lithium deposition by in situ electrochemical transmission electron microscopy. <i>Chemical Communications</i> , <b>2014</b> , 50, 2104-7	5.8	148
210	High-Resolution Mapping of the PFSA Polymer Distribution in PEFC Electrode Layers. <i>ECS Transactions</i> , <b>2014</b> , 64, 819-827	1	2
209	Atomic-scale origin of the large grain-boundary resistance in perovskite Li-ion-conducting solid electrolytes. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1638	35.4	175
208	Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 10398-402	3.6	50
207	Impact of IrRu oxygen evolution reaction catalysts on Pt nanostructured thin films under start-up/shutdown cycling. <i>Journal of Power Sources</i> , <b>2014</b> , 269, 671-681	8.9	13
206	Phosphate-Tolerant Oxygen Reduction Catalysts. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3193-3200	13.1	100
205	Monolithic Composite Electrodes Comprising Silicon Nanoparticles Embedded in Lignin-derived Carbon Fibers for Lithium-Ion Batteries. <i>Energy Technology</i> , <b>2014</b> , 2, 773-777	3.5	21
204	Multimetallic core/interlayer/shell nanostructures as advanced electrocatalysts. <i>Nano Letters</i> , <b>2014</b> , 14, 6361-7	11.5	127
203	Electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid on supported Au and Pd bimetallic nanoparticles. <i>Green Chemistry</i> , <b>2014</b> , 16, 3778-3786	10	149
202	Ozonated Graphene Oxide Film as a Proton-Exchange Membrane. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3662-3667	3.6	9
201	Tuning Electrodeposition Parameters for Tailored Nanoparticle Size, Shape, and Morphology: An In Situ ec-STEM Investigation. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1506-1507	0.5	1
200	In operando Transmission Electron Microscopy Imaging of SEI Formation and Structure in Li-Ion and Li-Metal Batteries. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1538-1539	0.5	
199	Novel Method for Precision Controlled Heating of TEM Thin Sections to Study Reaction Processes. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1628-1629	0.5	1
198	Direct visualization of solid electrolyte interphase formation in lithium-ion batteries with in situ electrochemical transmission electron microscopy. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1029-37	0.5	67
197	Quantitative electrochemical measurements using in situ ec-S/TEM devices. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 452-61	0.5	62
196	Imaging and Microanalysis of Thin Ionomer Layers by Scanning Transmission Electron Microscopy. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F1111-F1117	3.9	42
195	Highly Robust Lithium Ion Battery Anodes from Lignin: An Abundant, Renewable, and Low-Cost Material. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 86-94	15.6	173



194	Laser Interactions for the Synthesis and In Situ Diagnostics of Nanomaterials. <i>Springer Series in Materials Science</i> , <b>2014</b> , 143-173	0.9	2
193	Microstructure and mechanical properties of two-phase Fe <sub>30</sub> Ni <sub>20</sub> Mn <sub>20</sub> Al <sub>30</sub> . Part I: Microstructure. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 7435-7445	4.3	4
192	Self-Assembly of Nanostructured, Complex, Multication Films via Spontaneous Phase Separation and Strain-Driven Ordering. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1912-1918	15.6	45
191	Microstructure and mechanical behavior of directionally solidified Fe <sub>35</sub> Ni <sub>15</sub> Mn <sub>25</sub> Al <sub>25</sub> . <i>Intermetallics</i> , <b>2013</b> , 32, 413-422	3.5	4
190	Ternary electrocatalysts for oxidizing ethanol to carbon dioxide: making it capable of splitting C-C bond. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 132-41	16.4	149
189	Synthesis of platinum single-crystal nanoparticles in water vapor. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 3834-3840	4.3	3
188	A carbon-nanotube-supported graphene-rich non-precious metal oxygen reduction catalyst with enhanced performance durability. <i>Chemical Communications</i> , <b>2013</b> , 49, 3291-3	5.8	185
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45	EBC Protection of SiC/SiC Composites in the Gas Turbine Combustion Environment <b>2000</b> ,		9
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40	Exposure of Ceramics and Ceramic Matrix Composites in Simulated and Actual Combustor Environments <b>1999</b> ,		12
39	Chemical Vapor Deposition of B <sub>13</sub> C <sub>2</sub> from BCl <sub>3</sub> -CH <sub>4</sub> -H <sub>2</sub> -Argon Mixtures. <i>Journal of the American Ceramic Society</i> , <b>1998</b> , 81, 3077-3086	3.8	16
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30	Effects of radiation on SiC-based Nicalon fibers. <i>Journal of Materials Research</i> , <b>1995</b> , 10, 736-747	2.5	39
29	Synthesis of functionally graded metal-ceramic microstructures by chemical vapor deposition. <i>Journal of Materials Research</i> , <b>1995</b> , 10, 3000-3002	2.5	8
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25	Phase evolution in boron nitride thin films. <i>Journal of Materials Research</i> , <b>1993</b> , 8, 1213-1216	2.5	183
24	Epitaxial nucleation of polycrystalline silicon carbide during chemical vapor deposition. <i>Journal of Materials Research</i> , <b>1993</b> , 8, 1086-1092	2.5	8
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17	Microstructural characterization of a creep-deformed SiC whisker-reinforced Si <sub>3</sub> N <sub>4</sub> . <i>Ultramicroscopy</i> , <b>1991</b> , 37, 263-278	3.1	6
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3	Microstructural evaluation of dross formation on Mg- and non-Mg-containing Al alloys from industrial furnaces		4
2	Microstructural Characterization of Silicon Nitride Ceramics Processed by Pressureless Sintering, Overpressure Sintering, and Sinter HIP. <i>Ceramic Engineering and Science Proceedings</i> , 603-615	0.1	4
1	Improved Fiber Coatings for Nicalon /SiC Composites	375-384	12