

Karren L More

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319
papers

28,535
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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	High-performance electrocatalysts for oxygen reduction derived from polyaniline, iron, and cobalt. <i>Science</i> , 2011 , 332, 443-7	33.3	3271
318	Scientific aspects of polymer electrolyte fuel cell durability and degradation. <i>Chemical Reviews</i> , 2007 , 107, 3904-51	68.1	2627
317	Lattice-strain control of the activity in dealloyed core-shell fuel cell catalysts. <i>Nature Chemistry</i> , 2010 , 2, 454-60	17.6	2116
316	Highly crystalline multimetallic nanoframes with three-dimensional electrocatalytic surfaces. <i>Science</i> , 2014 , 343, 1339-43	33.3	1989
315	Direct atomic-level insight into the active sites of a high-performance PGM-free ORR catalyst. <i>Science</i> , 2017 , 357, 479-484	33.3	920
314	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. <i>Nature Catalysis</i> , 2018 , 1, 935-945	36.5	691
313	Nitrogen-Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. <i>Advanced Materials</i> , 2018 , 30, 1706758	24	590
312	Design and synthesis of bimetallic electrocatalyst with multilayered Pt-skin surfaces. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14396-403	16.4	489
311	Synthesis-structure-performance correlation for polyaniline-Me ₄ N ⁺ non-precious metal cathode catalysts for oxygen reduction in fuel cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11392		480
310	Highly active atomically dispersed CoN ₄ fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. <i>Energy and Environmental Science</i> , 2019 , 12, 250-260	35.4	475
309	Thermal stability of oxygen storage properties in a mixed CeO ₂ -ZrO ₂ system. <i>Applied Catalysis B: Environmental</i> , 1998 , 16, 105-117	21.8	409
308	Multimetallic Au/FePt ₃ nanoparticles as highly durable electrocatalyst. <i>Nano Letters</i> , 2011 , 11, 919-26	11.5	400
307	Core/shell Pd/FePt nanoparticles as an active and durable catalyst for the oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7848-9	16.4	350
306	Metal-organic framework-derived nitrogen-doped highly disordered carbon for electrochemical ammonia synthesis using N ₂ and H ₂ O in alkaline electrolytes. <i>Nano Energy</i> , 2018 , 48, 217-226	17.1	309
305	Unveiling Active Sites of CO ₂ Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 3116-3122	13.1	304
304	Microstructural Changes of Membrane Electrode Assemblies during PEFC Durability Testing at High Humidity Conditions. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1011	3.9	292
303	High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. <i>Energy and Environmental Science</i> , 2019 , 12, 2548-2558	35.4	280

302	Creep-resistant, Al ₂ O ₃ -forming austenitic stainless steels. <i>Science</i> , 2007 , 316, 433-6	33.3	260
301	Interfacial Stability of Li Metal-Solid Electrolyte Elucidated via in Situ Electron Microscopy. <i>Nano Letters</i> , 2016 , 16, 7030-7036	11.5	239
300	Recent advances in platinum monolayer electrocatalysts for oxygen reduction reaction: Scale-up synthesis, structure and activity of Pt shells on Pd cores. <i>Electrochimica Acta</i> , 2010 , 55, 2645-2652	6.7	219
299	Composition-Controlled Synthesis of Bimetallic PdPt Nanoparticles and Their Electro-oxidation of Methanol. <i>Chemistry of Materials</i> , 2011 , 23, 4199-4203	9.6	210
298	A facile synthesis of MPd (M = Co, Cu) nanoparticles and their catalysis for formic acid oxidation. <i>Nano Letters</i> , 2012 , 12, 1102-6	11.5	208
297	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN Sites for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18971-18980	16.4	207
296	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse Pt _x Ni _{1-x} Nanoparticles. <i>Advanced Functional Materials</i> , 2011 , 21, 147-152	15.6	204
295	A carbon-nanotube-supported graphene-rich non-precious metal oxygen reduction catalyst with enhanced performance durability. <i>Chemical Communications</i> , 2013 , 49, 3291-3	5.8	185
294	High-Thermal-Conductivity Aluminum Nitride Ceramics: The Effect of Thermodynamic, Kinetic, and Microstructural Factors. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1421-1435	3.8	184
293	Phase evolution in boron nitride thin films. <i>Journal of Materials Research</i> , 1993 , 8, 1213-1216	2.5	183
292	Atomic-scale origin of the large grain-boundary resistance in perovskite Li-ion-conducting solid electrolytes. <i>Energy and Environmental Science</i> , 2014 , 7, 1638	35.4	175
291	Ozonated graphene oxide film as a proton-exchange membrane. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3588-93	16.4	173
290	Highly Robust Lithium Ion Battery Anodes from Lignin: An Abundant, Renewable, and Low-Cost Material. <i>Advanced Functional Materials</i> , 2014 , 24, 86-94	15.6	173
289	Mechanism of Zn Insertion into Nanostructured EMnO ₂ : A Nonaqueous Rechargeable Zn Metal Battery. <i>Chemistry of Materials</i> , 2017 , 29, 4874-4884	9.6	171
288	Hard-Magnet L10-CoPt Nanoparticles Advance Fuel Cell Catalysis. <i>Joule</i> , 2019 , 3, 124-135	27.8	171
287	Influence of Sulfur, Platinum, and Hafnium on the Oxidation Behavior of CVD NiAl Bond Coatings. <i>Oxidation of Metals</i> , 2002 , 58, 513-544	1.6	158
286	Nanoscale imaging of fundamental li battery chemistry: solid-electrolyte interphase formation and preferential growth of lithium metal nanoclusters. <i>Nano Letters</i> , 2015 , 15, 2011-8	11.5	157
285	Synthesis and characterization of multimetallic Pd/Au and Pd/Au/FePt core/shell nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9368-72	16.4	152

284	Preferential thermal nitridation to form pin-hole free Cr-nitrides to protect proton exchange membrane fuel cell metallic bipolar plates. <i>Scripta Materialia</i> , 2004 , 50, 1017-1022	5.6	152
283	Electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid on supported Au and Pd bimetallic nanoparticles. <i>Green Chemistry</i> , 2014 , 16, 3778-3786	10	149
282	Ternary electrocatalysts for oxidizing ethanol to carbon dioxide: making it capable of splitting C-C bond. <i>Journal of the American Chemical Society</i> , 2013 , 135, 132-41	16.4	149
281	Direct visualization of initial SEI morphology and growth kinetics during lithium deposition by in situ electrochemical transmission electron microscopy. <i>Chemical Communications</i> , 2014 , 50, 2104-7	5.8	148
280	Control of Architecture in Rhombic Dodecahedral Pt-Ni Nanoframe Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11678-11681	16.4	140
279	Surface faceting and elemental diffusion behaviour at atomic scale for alloy nanoparticles during in situ annealing. <i>Nature Communications</i> , 2015 , 6, 8925	17.4	132
278	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and High-Power PGM-Free Cathodes in Fuel Cells. <i>Advanced Materials</i> , 2020 , 32, e2003577	24	132
277	Carbon Corrosion in PEM Fuel Cells and the Development of Accelerated Stress Tests. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F3148-F3160	3.9	127
276	Multimetallic core/interlayer/shell nanostructures as advanced electrocatalysts. <i>Nano Letters</i> , 2014 , 14, 6361-7	11.5	127
275	Observations of Accelerated Silicon Carbide Recession by Oxidation at High Water-Vapor Pressures. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 211-13	3.8	125
274	Functionally graded hydroxyapatite coatings doped with antibacterial components. <i>Acta Biomaterialia</i> , 2010 , 6, 2264-73	10.8	124
273	Rational Development of Ternary Alloy Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1668-73	6.4	116
272	Antioxidant deactivation on graphenic nanocarbon surfaces. <i>Small</i> , 2011 , 7, 2775-85	11	116
271	Electrical properties of epoxy resin based nano-composites. <i>Nanotechnology</i> , 2007 , 18, 025703	3.4	113
270	Synthesis of Homogeneous Pt-Bimetallic Nanoparticles as Highly Efficient Electrocatalysts. <i>ACS Catalysis</i> , 2011 , 1, 1355-1359	13.1	111
269	Thermally nitrided stainless steels for polymer electrolyte membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2004 , 138, 79-85	8.9	109
268	Porosimetry of MEAs Made by Thin Film Decal Method and Its Effect on Performance of PEFCs. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1841	3.9	105
267	Phosphate-Tolerant Oxygen Reduction Catalysts. <i>ACS Catalysis</i> , 2014 , 4, 3193-3200	13.1	100

266	Highly Stable and Active PtCu Oxygen Reduction Electrocatalysts Based on Mesoporous Graphitic Carbon Supports. <i>Chemistry of Materials</i> , 2009 , 21, 4515-4526	9.6	99
265	Tunnel structured manganese oxide nanowires as redox active electrodes for hybrid capacitive deionization. <i>Nano Energy</i> , 2018 , 44, 476-488	17.1	95
264	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2011 , 23, 1570-1577	9.6	94
263	Evaluation of CFCC liners with EBC after field testing in a gas turbine. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 2769-2775	6	94
262	Effect of Quaternary Additions on the Oxidation Behavior of Hf-Doped NiAl. <i>Oxidation of Metals</i> , 2003 , 59, 257-283	1.6	93
261	New roads and challenges for fuel cells in heavy-duty transportation. <i>Nature Energy</i> , 2021 , 6, 462-474	62.3	89
260	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N ₂ and H ₂ O. <i>Small Methods</i> , 2020 , 4, 1900821	12.8	88
259	An examination of double positioning boundaries and interface misfit in beta-SiC films on alpha-SiC substrates. <i>Journal of Applied Physics</i> , 1988 , 63, 2645-2650	2.5	88
258	Excellent stability of a lithium-ion-conducting solid electrolyte upon reversible Li(+) /H(+) exchange in aqueous solutions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 129-33	16.4	86
257	Nitrogen: unraveling the secret to stable carbon-supported Pt-alloy electrocatalysts. <i>Energy and Environmental Science</i> , 2013 , 6, 2957	35.4	85
256	ElectroCat: DOE's approach to PGM-free catalyst and electrode R&D. <i>Solid State Ionics</i> , 2018 , 319, 68-76	3.3	82
255	Identifying Contributing Degradation Phenomena in PEM Fuel Cell Membrane Electrode Assemblies Via Electron Microscopy. <i>ECS Transactions</i> , 2006 , 3, 717-733	1	80
254	Influence of ionomer content on the structure and performance of PEFC membrane electrode assemblies. <i>Electrochimica Acta</i> , 2010 , 55, 7404-7412	6.7	79
253	Enhancement of dielectric strength in nanocomposites. <i>Nanotechnology</i> , 2007 , 18, 325704	3.4	77
252	Effects of High Water-Vapor Pressure on Oxidation of Silicon Carbide at 1200°C. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1249-1255	3.8	76
251	Recent developments in catalyst-related PEM fuel cell durability. <i>Current Opinion in Electrochemistry</i> , 2020 , 21, 192-200	7.2	75
250	Transmission Electron Microscopy Observation of Corrosion Behaviors of Platinized Carbon Blacks under Thermal and Electrochemical Conditions. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B906	3.9	75
249	Graphene-Riched Co ₉ S ₈ -N-C Non-Precious Metal Catalyst for Oxygen Reduction in Alkaline Media. <i>ECS Transactions</i> , 2011 , 41, 1709-1717	1	74

248	Effect of thermally grown oxide (TGO) microstructure on the durability of TBCs with PtNiAl diffusion bond coats. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 417, 322-333	5.3	70
247	Creep and Stress Rupture Behavior of an Advanced Silicon Nitride: Part I, Experimental Observations. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1217-1227	3.8	69
246	Direct visualization of solid electrolyte interphase formation in lithium-ion batteries with in situ electrochemical transmission electron microscopy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1029-37	0.5	67
245	Low dose irradiation performance of SiC interphase SiC/SiC composites. <i>Journal of Nuclear Materials</i> , 1998 , 253, 20-30	3.3	67
244	Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. <i>Energy and Environmental Science</i> , 2020 , 13, 3544-3555	35.4	66
243	Quantitative electrochemical measurements using in situ ec-S/TEM devices. <i>Microscopy and Microanalysis</i> , 2014 , 20, 452-61	0.5	62
242	Single walled carbon nanohorns as photothermal cancer agents. <i>Lasers in Surgery and Medicine</i> , 2011 , 43, 43-51	3.6	62
241	Advanced analytical electron microscopy for lithium-ion batteries. <i>NPG Asia Materials</i> , 2015 , 7, e193-e193	0.3	60
240	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> , 2017 , 121, 16283-16290	3.8	60
239	As-deposited mixed zone in thermally grown oxide beneath a thermal barrier coating. <i>Surface and Coatings Technology</i> , 2001 , 146-147, 152-161	4.4	59
238	Eliminating dissolution of platinum-based electrocatalysts at the atomic scale. <i>Nature Materials</i> , 2020 , 19, 1207-1214	27	57
237	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21698-21705	16.4	55
236	A comparative study of phosphoric acid-doped m-PBI membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 26-35	2.6	53
235	Characterization of alumina interfaces in TBC systems. <i>Journal of Materials Science</i> , 2009 , 44, 1676-1686	4.3	53
234	Au on Nanosized NiO: A Cooperative Effect between Au and Nanosized NiO in the Base-Free Alcohol Oxidation. <i>ChemCatChem</i> , 2011 , 3, 1612-1618	5.2	52
233	High-Temperature Stability of SiC-Based Composites in High-Water-Vapor-Pressure Environments. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1272-1281	3.8	52
232	Acid-functionalized mesoporous carbon: an efficient support for ruthenium-catalyzed Valerolactone production. <i>ChemSusChem</i> , 2015 , 8, 2520-8	8.3	51
231	Ion implantation in SiC: Effect of channeling direction and critical energy for amorphization. <i>Journal of Materials Research</i> , 1988 , 3, 321-328	2.5	51

230	Enhanced visible light photocatalytic water reduction from a g-C ₃ N ₄ /SrTa ₂ O ₆ heterojunction. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 448-458	21.8	50
229	Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10398-402	3.6	50
228	Preparation and characterization of carbon-supported PtTi alloy electrocatalysts. <i>Journal of Power Sources</i> , 2008 , 175, 794-799	8.9	50
227	The formation of protective nitride surfaces for PEM fuel cell metallic bipolar plates. <i>Jom</i> , 2006 , 58, 50-57	5.1	50
226	Fuel-Cell Catalyst-Layer Resistance via Hydrogen Limiting-Current Measurements. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F3020-F3031	3.9	49
225	3D Analysis of Fuel Cell Electrocatalyst Degradation on Alternate Carbon Supports. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29839-29848	9.5	49
224	In vitro and in vivo studies of single-walled carbon nanohorns with encapsulated metallofullerenes and exohedrally functionalized quantum dots. <i>Nano Letters</i> , 2010 , 10, 2843-8	11.5	49
223	Self-assembly of perylenediimide and naphthalenediimide nanostructures on glass substrates through deposition from the gas phase. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10056-7	16.4	49
222	Properties of ultrafast laser textured silicon for photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2745-2751	6.4	47
221	The effect of water vapor on the oxidation behavior of NiPtAl coatings and alloys. <i>Surface and Coatings Technology</i> , 2006 , 201, 3852-3856	4.4	47
220	Electron microscopy of the growth features and crystal structures of filament assisted CVD diamond films. <i>Surface and Coatings Technology</i> , 1989 , 39-40, 199-210	4.4	46
219	Atomic-level active sites of efficient imidazolate framework-derived nickel catalysts for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26231-26237	13	46
218	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> , 2019 , 257, 117929	21.8	45
217	Effect of polymer/nanoparticle interactions on the glass transition dynamics and the conductivity mechanism in polyurethane titanium dioxide nanocomposites. <i>Polymer</i> , 2012 , 53, 595-603	3.9	45
216	Self-Assembly of Nanostructured, Complex, Multication Films via Spontaneous Phase Separation and Strain-Driven Ordering. <i>Advanced Functional Materials</i> , 2013 , 23, 1912-1918	15.6	45
215	The Thermal Expansion, Elastic and Fracture Properties of Porous Cordierite at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1682-1691	3.8	45
214	Recent Advances in Catalyst Accelerated Stress Tests for Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F492-F501	3.9	45
213	Creep and Creep Rupture of an Advanced Silicon Nitride Ceramic. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 867-874	3.8	43

212	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 & Interfaces</i> , 2019 , 11, 45016-45030	9.5	42
211	Imaging and Microanalysis of Thin Ionomer Layers by Scanning Transmission Electron Microscopy. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1111-F1117	3.9	42
210	Protective nitride formation on stainless steel alloys for proton exchange membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2007 , 174, 228-236	8.9	42
209	Visible-light-driven Bi ₂ O ₃ /WO ₃ composites with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 91094-91102	3.7	41
208	Physical properties of epoxy resin/titanium dioxide nanocomposites. <i>Polymer Engineering and Science</i> , 2011 , 51, 87-93	2.3	41
207	Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46953-46964	9.5	41
206	Visible light assisted photocatalytic hydrogen generation by Ta ₂ O ₅ /Bi ₂ O ₃ , TaON/Bi ₂ O ₃ , and Ta ₃ N ₅ /Bi ₂ O ₃ composites. <i>RSC Advances</i> , 2015 , 5, 54998-55005	3.7	40
205	Composition/structure/property relations of multi-ion-beam reactive sputtered lead lanthanum titanate thin films: Part I. Composition and structure analysis. <i>Journal of Materials Research</i> , 1992 , 7, 3039-3055 ⁴⁰	2.5	40
204	Enhanced performance of room-temperature-grown epitaxial thin films of vanadium dioxide. <i>Applied Physics Letters</i> , 2011 , 98, 251916	3.4	39
203	Effects of radiation on SiC-based Nicalon fibers. <i>Journal of Materials Research</i> , 1995 , 10, 736-747	2.5	39
202	Durability of Pt-Co Alloy Polymer Electrolyte Fuel Cell Cathode Catalysts under Accelerated Stress Tests. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F3166-F3177	3.9	38
201	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN ₄ Sites for Oxygen Reduction. <i>Angewandte Chemie</i> , 2019 , 131, 19147-19156	3.6	38
200	Nanoscale Engineering of Efficient Oxygen Reduction Electrocatalysts by Tailoring the Local Chemical Environment of Pt Surface Sites. <i>ACS Catalysis</i> , 2017 , 7, 17-24	13.1	37
199	Non-congruence of thermally driven structural and electronic transitions in VO ₂ . <i>Journal of Applied Physics</i> , 2012 , 112, 103532	2.5	37
198	PEM Fuel Cell Durability With Transportation Transient Operation. <i>ECS Transactions</i> , 2006 , 3, 879-886	1	36
197	Pulsed growth of vertically aligned nanotube arrays with variable density. <i>ACS Nano</i> , 2010 , 4, 7573-81	16.7	35
196	Potentiostatic and Potential Cycling Dissolution of Polycrystalline Platinum and Platinum Nano-Particle Fuel Cell Catalysts. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F3178-F3190	3.9	34
195	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> , 2017 , 114, 9791-9796	11.5	34

194	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	8.9	34
193	A Visible-Light-Active Heterojunction with Enhanced Photocatalytic Hydrogen Generation. <i>ChemSusChem</i> , 2016 , 9, 1869-79	8.3	34
192	Visible-light-active g-C ₃ N ₄ /N-doped Sr ₂ Nb ₂ O ₇ heterojunctions as photocatalysts for the hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2507-2515	5.8	34
191	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600053	21.8	33
190	Pt ₃ Re alloy nanoparticles as electrocatalysts for the oxygen reduction reaction. <i>Nano Energy</i> , 2016 , 20, 202-211	17.1	31
189	CO oxidation studies over cluster-derived Au/TiO ₂ and Au ₂ O ₃ /TiO ₂ catalysts using DRIFTS. <i>Catalysis Today</i> , 2013 , 208, 72-81	5.3	31
188	Flux-dependent growth kinetics and diameter selectivity in single-wall carbon nanotube arrays. <i>ACS Nano</i> , 2011 , 5, 8311-21	16.7	31
187	Gravure Coating for Roll-to-Roll Manufacturing of Proton-Exchange-Membrane Fuel Cell Catalyst Layers. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F1012-F1018	3.9	31
186	Critical role of intercalated water for electrocatalytically active nitrogen-doped graphitic systems. <i>Science Advances</i> , 2016 , 2, e1501178	14.3	30
185	Low-angle grain boundaries in YBa ₂ Cu ₃ O _{7-x} with high critical current densities. <i>Physical Review B</i> , 2009 , 79,	3.3	30
184	Transmission Electron Microscopy of Boundary-Lubricated Bearing Surfaces. Part II: Mineral Oil Lubricant with Sulfur-and Phosphorus-Containing Gear Oil Additives. <i>Tribology Transactions</i> , 2005 , 48, 299-307	1.8	30
183	Multilayered Oxide Interphase Concept for Ceramic-Matrix Composites. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 717-720	3.8	30
182	Growth stress / microstructure relationships for alumina scales. <i>Materials at High Temperatures</i> , 2003 , 20, 303-309	1.1	30
181	Helium irradiated cavity formation and defect energetics in Ni-based binary single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , 2019 , 164, 283-292	8.4	30
180	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. <i>Nano Letters</i> , 2018 , 18, 7004-7013	11.5	30
179	High-Activity, Durable Oxygen Reduction Electrocatalyst: Nanoscale Composite of Platinum / Tantalum Oxyphosphate on Vulcan Carbon. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1977-1981	6.4	29
178	Layer-by-layer epitaxial growth of GaN at low temperatures. <i>Thin Solid Films</i> , 1993 , 225, 244-249	2.2	29
177	Highly Active, Durable Dispersed Iridium Nanocatalysts for PEM Water Electrolyzers. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F82-F89	3.9	28

176	Solid-state graphene formation via a nickel carbide intermediate phase. <i>RSC Advances</i> , 2015 , 5, 99037-99043	3.7	27
175	Selection of Single-Walled Carbon Nanotube with Narrow Diameter Distribution by Using a PPE-PPV Copolymer.. <i>ACS Macro Letters</i> , 2012 , 1, 246-251	6.6	27
174	Occurrence and Distribution of Boron-Containing Phases in Sintered Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 695-698	3.8	27
173	Properties of a nanodielectric cryogenic resin. <i>Applied Physics Letters</i> , 2010 , 96, 152903	3.4	26
172	Transformation of Al ₂ O ₃ to LiAlO ₂ in Pb ¹⁷ Li at 800°C. <i>Journal of Nuclear Materials</i> , 2008 , 376, 108-113	3.3	26
171	Evaluating the effect of oxygen content in BN interfacial coatings on the stability of SiC/BN/SiC composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1999 , 30, 463-470	8.4	26
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