

Weidong He

List of Publications by Year in Descending Order

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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.

146 papers	5,288 citations	36 h-index	68 g-index
152 ext. papers	6,410 ext. citations	9.5 avg, IF	5.95 L-index

#	Paper	IF	Citations
146	A Single-Layer Composite Separator with 3D-Reinforced Microstructure for Practical High-Temperature Lithium Ion Batteries.. <i>Small</i> , 2022 , e2107664	11	2
145	Stabilization of high-voltage lithium metal batteries using a sulfone-based electrolyte with bi-electrode affinity and LiSO ₂ F-rich interphases. <i>Energy Storage Materials</i> , 2021 ,	19.4	7
144	Natural Lepidolite Enables Fast Polysulfide Redox for High-Rate Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2102058	21.8	6
143	Ten Thousand-Cycle Ultrafast Energy Storage of Wadsley-Roth Phase Fe-Nb Oxides with a Desolvation Promoting Interfacial Layer. <i>Nano Letters</i> , 2021 , 21, 9675-9683	11.5	5
142	Zeolitic imidazolate framework enables practical room-temperature operation of solid-state lithium batteries. <i>Materials Today Physics</i> , 2021 , 21, 100554	8	0
141	Enhancing Oxygen Reduction Activity and Cr Tolerance of Solid Oxide Fuel Cell Cathodes by a Multiphase Catalyst Coating. <i>Advanced Functional Materials</i> , 2021 , 31, 2100034	15.6	14
140	An Emerging Energy Storage System: Advanced Na-Se Batteries. <i>ACS Nano</i> , 2021 , 15, 5876-5903	16.7	15
139	Recent progress in flame-retardant separators for safe lithium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 37, 628-647	19.4	25
138	Composite Separators for Robust High Rate Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101420	15.6	19
137	Boosting sodium storage performance of Mo ₂ C via nitrogen-doped carbon sphere encapsulation and rGO wrapping. <i>Chemical Engineering Journal</i> , 2021 , 413, 127471	14.7	11
136	Ethyl cyanoacrylate reinforced polyvinylidene fluoride separators for robust lithium ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2434-2441	7.8	2
135	Recent advances in separator engineering for effective dendrite suppression of Li-metal anodes. <i>Nano Select</i> , 2021 , 2, 993-1010	3.1	5
134	Recent progress in thin separators for upgraded lithium ion batteries. <i>Energy Storage Materials</i> , 2021 , 41, 805-841	19.4	17
133	High-Polarity Fluoroalkyl Ether Electrolyte Enables Solvation-Free Li Transfer for High-Rate Lithium Metal Batteries.. <i>Advanced Science</i> , 2021 , e2104699	13.6	7
132	Origin of extra capacity in the solid electrolyte interphase near high-capacity iron carbide anodes for Li ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 2924-2937	35.4	31
131	Mo ₂ C quantum dots@graphene functionalized separator toward high-current-density lithium metal anodes for ultrastable Li-S batteries. <i>Chemical Engineering Journal</i> , 2020 , 399, 125837	14.7	51
130	Organosulfur Compounds Enable Uniform Lithium Plating and Long-Term Battery Cycling Stability. <i>Nano Letters</i> , 2020 , 20, 2594-2601	11.5	18

129	Heterostructured NiS/ZnInS Realizing Toroid-like LiO Deposition in Lithium-Oxygen Batteries with Low-Donor-Number Solvents. <i>ACS Nano</i> , 2020 , 14, 3490-3499	16.7	64
128	Molecular Capturing and Reizing MoS ₂ /TiN interlayers suppress polysulfide shuttling and self-discharge of LiS batteries. <i>Energy Storage Materials</i> , 2020 , 27, 333-341	19.4	34
127	Atomic interlamellar ion path in polymeric separator enables long-life and dendrite-free anode in lithium ion batteries. <i>Journal of Power Sources</i> , 2020 , 451, 227773	8.9	36
126	1T-MoS ₂ nanotubes wrapped with N-doped graphene as highly-efficient absorbent and electrocatalyst for LiS batteries. <i>Journal of Power Sources</i> , 2020 , 447, 227364	8.9	64
125	Genetic engineering of porous sulfur species with molecular target prevents host passivation in lithium sulfur batteries. <i>Energy Storage Materials</i> , 2020 , 26, 65-72	19.4	24
124	Novel composite separator for high power density lithium-ion battery. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2917-2924	6.7	10
123	A solid-electrolyte-reinforced separator through single-step electrophoretic assembly for safe high-capacity lithium ion batteries. <i>Journal of Power Sources</i> , 2020 , 448, 227469	8.9	13
122	Metal Oxides with Distinctive Valence States in an Electron-Rich Matrix Enable Stable High-Capacity Anodes for Li Ion Batteries. <i>Small Methods</i> , 2020 , 4, 1900753	12.8	16
121	Hierarchical Self-Supported Carbon Nanostructure Enables Superior Stability of Highly Nitrogen-Doped anodes. <i>ChemElectroChem</i> , 2020 , 7, 3883-3888	4.3	1
120	Heat-Resistant Trilayer Separators for High-Performance Lithium-Ion Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900504	2.5	6
119	Uniform Li Plating/Stripping within Ni Macropore Arrays Enabled by Regulated Electric Field Distribution for Ultra-Stable Li-Metal Anodes. <i>IScience</i> , 2020 , 23, 101089	6.1	1
118	A robust bi-layer separator with Lewis acid-base interaction for high-rate capacity lithium-ion batteries. <i>Composites Part B: Engineering</i> , 2019 , 177, 107448	10	18
117	Direct electrophoretic deposition of an ultra-strong separator on an anode in a surfactant-free colloidal system for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1410-1417	13	24
116	A model study on correlation between microstructure-gas diffusion and Cr deposition in porous LSM/YSZ cathodes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 18319-18329	6.7	8
115	Three-dimensional twisted fiber composite as high-loading cathode support for lithium sulfur batteries. <i>Composites Part B: Engineering</i> , 2019 , 174, 107025	10	9
114	Recent Development in Separators for High-Temperature Lithium-Ion Batteries. <i>Small</i> , 2019 , 15, e1901689	11.8	66
113	A sandwich-structured double-battery device for direct evaluation of lithium diffusion coefficients and phase transition in electrodes of lithium ion batteries. <i>Chemical Engineering Science</i> , 2019 , 200, 80-86	4.4	10
112	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. <i>Advanced Energy Materials</i> , 2019 , 9, 1803627	21.8	31

111	Flame-Retardant Bilayer Separator with Multifaceted van der Waals Interaction for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26402-26411	9.5	27
110	Suppression of Polysulfide Dissolution and Shuttling with Glutamate Electrolyte for Lithium Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 14172-14181	16.7	28
109	Lithiophilic montmorillonite serves as lithium ion reservoir to facilitate uniform lithium deposition. <i>Nature Communications</i> , 2019 , 10, 4973	17.4	86
108	A Highly Stable Separator from an Instantly Reformed Gel with Direct Post-Solidation for Long-Cycle High-Rate Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 908-914	8.3	16
107	Composite nanofibers through in-situ reduction with abundant active sites as flexible and stable anode for lithium ion batteries. <i>Composites Part B: Engineering</i> , 2019 , 161, 369-375	10	15
106	High-Performance PE-BN/PVDF-HFP Bilayer Separator for Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801330	4.6	42
105	A quasi-solid composite separator with high ductility for safe and high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 414, 225-232	8.9	28
104	A Nanostructured Si/SiOC Composite Anode with Volume-Change-Buffering Microstructure for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 2604-2609	4.8	16
103	Mo ₂ C Nanodots Anchored on N-Doped Porous CNT Microspheres as Electrode for Efficient Li-Ion Storage. <i>Small Methods</i> , 2019 , 3, 1800287	12.8	53
102	Three-Dimensional Nanoporous Polyethylene-Reinforced PVDF-HFP Separator Enabled by Dual-Solvent Hierarchical Gas Liberation for Ultrahigh-Rate Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 921-927	6.1	17
101	Coherent Bi ₂ O ₃ -TiO ₂ hetero-junction material through oriented growth as an efficient photo-catalyst for methyl orange degradation. <i>Materials Today Chemistry</i> , 2018 , 8, 36-41	6.2	4
100	Lithium-Ion Batteries: A Single-Step Hydrothermal Route to 3D Hierarchical Cu ₂ O/CuO/rGO Nanosheets as High-Performance Anode of Lithium-Ion Batteries (Small 5/2018). <i>Small</i> , 2018 , 14, 1870020	11	9
99	Designing Safe Electrolyte Systems for a High-Stability Lithium Sulfur Battery. <i>Advanced Energy Materials</i> , 2018 , 8, 1702348	21.8	210
98	Nanocrystals from Oriented-Attachment for Energy Applications. <i>SpringerBriefs in Energy</i> , 2018 ,	0.3	4
97	A New Hydrophilic Binder Enabling Strongly Anchoring Polysulfides for High-Performance Sulfur Electrodes in Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018 , 8, 1702889	21.8	194
96	Introduction to Oriented-Attachment Growth Mechanism. <i>SpringerBriefs in Energy</i> , 2018 , 1-13	0.3	1
95	Highly Efficient PVDF-HFP/Colloidal Alumina Composite Separator for High-Temperature Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701147	4.6	59
94	Direct impregnation of SeS ₂ into a MOF-derived 3D nanoporous Co ₉ S ₈ architecture towards superior rechargeable lithium batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10466-10473	13	101

93	Advanced materials for flexible electrochemical energy storage devices. <i>Journal of Materials Research</i> , 2018 , 33, 2281-2296	2.5	5
92	Separator Modification and Functionalization for Inhibiting the Shuttle Effect in Lithium-Sulfur Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800249	2.5	26
91	A Highly-Efficient Composite Separator with Strong Ligand Interaction for High-Temperature Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 2722-2728	4.3	28
90	In Situ Direct Method To Massively Prepare Hydrophilic Porous Carbide-Derived Carbons for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3544-3553	6.1	36
89	Atomic Interlamellar Ion Path in High Sulfur Content Lithium-Montmorillonite Host Enables High-Rate and Stable Lithium-Sulfur Battery. <i>Advanced Materials</i> , 2018 , 30, e1804084	24	151
88	An Efficient, Scalable Route to Robust PVDF-co-HFP/SiO ₂ Separator for Long-Cycle Lithium Ion Batteries. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800319	2.5	24
87	High-Performance SERS Substrate Based on Hierarchical 3D Cu Nanocrystals with Efficient Morphology Control. <i>Small</i> , 2018 , 14, e1802477	11	34
86	Coordination-dependent surface strain and rational construction of robust structures. <i>Nanotechnology</i> , 2018 , 29, 465708	3.4	1
85	A Single-Step Hydrothermal Route to 3D Hierarchical Cu O/CuO/rGO Nanosheets as High-Performance Anode of Lithium-Ion Batteries. <i>Small</i> , 2018 , 14, 1702667	11	68
84	Synergistic effects of sulfur poisoning and gas diffusion on polarization loss in anodes of solid oxide fuel cells. <i>AIChE Journal</i> , 2018 , 64, 1127-1134	3.6	3
83	A Nonflammable and Thermotolerant Separator Suppresses Polysulfide Dissolution for Safe and Long-Cycle Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802441	21.8	97
82	Inhibiting Polysulfide Shuttling with a Graphene Composite Separator for Highly Robust Lithium-Sulfur Batteries. <i>Joule</i> , 2018 , 2, 2091-2104	27.8	226
81	Carbon-Tungsten Disulfide Composite Bilayer Separator for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39417-39421	9.5	30
80	An Efficient Route to Polymeric Electrolyte Membranes with Interparticle Chain Microstructure Toward High-Temperature Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601236	4.6	21
79	Distinctive Supercapacitive Properties of Copper and Copper Oxide Nanocrystals Sharing a Similar Colloidal Synthetic Route. <i>Advanced Energy Materials</i> , 2017 , 7, 1700105	21.8	35
78	Facile Synthesis of Three-Dimensional Sandwiched MnO@GCs@MnO Hybrid Nanostructured Electrode for Electrochemical Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18872-18882	9.5	43
77	Ionic conductivity evolution of isotropic crystal with double strained interfaces. <i>Solid State Ionics</i> , 2017 , 303, 167-171	3.3	2
76	A highly-efficient route to three-dimensional nanoporous copper leaves with high surface enhanced Raman scattering properties. <i>Chemical Engineering Journal</i> , 2017 , 321, 394-400	14.7	19

75	Enhanced photocurrent production by the synergy of hematite nanowire-arrayed photoanode and bioengineered <i>Shewanella oneidensis</i> MR-1. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 227-234	11.8	37
74	Synergistic effects of thermal expansion-induced variation in the electrode microstructure on polarization loss in solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2768-2773	13	5
73	A critical look into effects of electrode pore morphology in solid oxide fuel cells. <i>AIChE Journal</i> , 2017 , 63, 2312-2317	3.6	7
72	On the polarization loss induced by thermal expansion in solid oxide fuel cells. <i>Solid State Ionics</i> , 2017 , 311, 63-68	3.3	4
71	Piezotronic-effect-enhanced Ag ₂ S/ZnO photocatalyst for organic dye degradation. <i>RSC Advances</i> , 2017 , 7, 48176-48183	3.7	27
70	Tellurium-Impregnated Porous Cobalt-Doped Carbon Polyhedra as Superior Cathodes for Lithium-Tellurium Batteries. <i>ACS Nano</i> , 2017 , 11, 8144-8152	16.7	99
69	Three-dimensional hierarchical C-Co-N/Se derived from metal-organic framework as superior cathode for Li-Se batteries. <i>Journal of Power Sources</i> , 2017 , 363, 103-109	8.9	64
68	Review: Massing Mechanism and Suppressing Solutions in Li ₄ Ti ₅ O ₁₂ -Based Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2213-A2224	3.9	26
67	Three-Dimensional Hierarchical Reduced Graphene Oxide/Tellurium Nanowires: A High-Performance Freestanding Cathode for Li-Te Batteries. <i>ACS Nano</i> , 2016 , 10, 8837-42	16.7	164
66	Three-dimensional hierarchically structured aerogels constructed with layered MoS ₂ /graphene nanosheets as free-standing anodes for high-performance lithium ion batteries. <i>Electrochimica Acta</i> , 2016 , 215, 12-18	6.7	112
65	Supercritical water heat transfer for nuclear reactor applications: A review. <i>Annals of Nuclear Energy</i> , 2016 , 97, 53-65	1.7	48
64	Ionic conductivity evolution at strained crystal interfaces in solid oxide fuel cells (SOFCs). <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22254-22259	6.7	3
63	Three-dimensional ionic conduction in the strained electrolytes of solid oxide fuel cells. <i>Journal of Applied Physics</i> , 2016 , 119, 174904	2.5	2
62	Gas leak diffusion induced polarization in submicro/nanoscale non-tight electrolytes of solid oxide fuel cells. <i>RSC Advances</i> , 2016 , 6, 62052-62061	3.7	2
61	Justifying the significance of Knudsen diffusion in solid oxide fuel cells. <i>Energy</i> , 2016 , 95, 242-246	7.9	12
60	Facile Synthesis of Fe ₃ O ₄ /GCs Composites and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6101-9	9.5	407
59	Highly Efficient Materials Assembly Via Electrophoretic Deposition for Electrochemical Energy Conversion and Storage Devices. <i>Advanced Energy Materials</i> , 2016 , 6, 1502018	21.8	39
58	From Metal-Organic Framework to LiS@C-Co-N Nanoporous Architecture: A High-Capacity Cathode for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2016 , 10, 10981-10987	16.7	241

57	Space matters: Li ⁺ conduction versus strain effect at FePO ₄ /LiFePO ₄ interface. <i>Applied Physics Letters</i> , 2016 , 108, 083901	3.4	17
56	Synthesis, Crystal Structure, and Luminescence Properties of Y ₄ Si ₂ O ₇ N ₂ : Eu ²⁺ Oxynitride Phosphors. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 183-190	3.8	15
55	Crystal-isotropicity dependence of ionic conductivity enhancement at strained interfaces. <i>Solid State Ionics</i> , 2016 , 289, 168-172	3.3	2
54	Three-Dimensional Hierarchical [email[protected]]: A Highly Efficient Freestanding Cathode for LiBe Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 16-20	20.1	145
53	Reduced electrochemical performances of proton exchange membrane fuel cells due to gaseous diffusion in electrolytes. <i>RSC Advances</i> , 2016 , 6, 97194-97198	3.7	2
52	Three-Dimensional CNT/GrapheneLi ₂ S Aerogel as Freestanding Cathode for High-Performance LiS Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 820-826	20.1	133
51	VaporDissociationSolid Growth of Three-Dimensional Graphite-like Capsules with Delicate Morphology and Atomic-level Thickness Control. <i>Crystal Growth and Design</i> , 2016 , 16, 5040-5048	3.5	22
50	Highly-flexible 3D Li ₂ S/graphene cathode for high-performance lithium sulfur batteries. <i>Journal of Power Sources</i> , 2016 , 327, 474-480	8.9	104
49	Oriented-attachment dimensionality build-up via van der Waals interaction. <i>CrystEngComm</i> , 2015 , 17, 729-733	3.3	16
48	Physical justification for ionic conductivity enhancement at strained coherent interfaces. <i>Journal of Power Sources</i> , 2015 , 285, 37-42	8.9	22
47	Interfacial strain effect on gas transport in nanostructured electrodes of solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015 , 291, 126-131	8.9	11
46	Initial-stage oriented-attachment one-dimensional assembly of nanocrystals: fundamental insight with a collisionRecrystallization model. <i>RSC Advances</i> , 2015 , 5, 54605-54612	3.7	2
45	Advanced Oxygen Sensing for Accurate Gas Diffusivity Measurements in Fuel Cells. <i>ChemElectroChem</i> , 2015 , 2, 819-823	4.3	2
44	Synthesis of high-purity CuO nanoleaves and analysis of their ethanol gas sensing properties. <i>RSC Advances</i> , 2015 , 5, 34788-34794	3.7	31
43	Can oriented-attachment be an efficient growth mechanism for the synthesis of 1D nanocrystals via atomic layer deposition?. <i>Nanotechnology</i> , 2015 , 26, 382001	3.4	11
42	Materials insights into low-temperature performances of lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 300, 29-40	8.9	168
41	Analytical insight into the oxygen diffusion in wetted porous cathodes of Li-air batteries. <i>Energy</i> , 2015 , 93, 416-420	7.9	11
40	Interfacial lattice-strain effects on improving the overall performance of micro-solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20031-20050	13	63

39	Lithium-Air Batteries: Performance Interplays with Instability Factors. <i>ChemElectroChem</i> , 2015 , 2, 312-323	4.3	24
38	Gas transport evaluation in lithium-air batteries with micro/nano-structured cathodes. <i>Journal of Power Sources</i> , 2015 , 274, 762-767	8.9	14
37	Shape and Size Control of LiFePO ₄ for High-Performance Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2015 , 2, 1227-1237	4.3	17
36	A new insight into the oxygen diffusion in porous cathodes of lithium-air batteries. <i>Energy</i> , 2015 , 83, 669-673	7.9	27
35	Assembly of anisotropic one dimensional Ag nanostructures through orientated attachment: on-axis or off-axis growth?. <i>RSC Advances</i> , 2015 , 5, 20783-20787	3.7	6
34	An insight into the Coulombic interaction in the dynamic growth of oriented-attachment nanorods. <i>CrystEngComm</i> , 2014 , 16, 1439-1442	3.3	30
33	Understanding the oriented-attachment growth of nanocrystals from an energy point of view: a review. <i>Nanoscale</i> , 2014 , 6, 2531-47	7.7	133
32	An electrochemical device with a multifunctional sensor for gas diffusivity measurement in fuel cells. <i>Journal of Power Sources</i> , 2014 , 251, 108-112	8.9	9
31	Length evolution of helical micro/nano-scale structures. <i>RSC Advances</i> , 2014 , 4, 31308-31312	3.7	2
30	Separation-dependence evolution of inter-particle interaction in the oriented-attachment growth of nanorods: a case of hexagonal nanocrystals. <i>Analyst</i> , 2014 , 139, 3393-7	5	1
29	Out-of-Cell Oxygen Diffusivity Evaluation in Lithium-Air Batteries. <i>ChemElectroChem</i> , 2014 , 1, 2052-2057	4.3	6
28	Gas Transport in Solid Oxide Fuel Cells. <i>SpringerBriefs in Energy</i> , 2014 ,	0.3	13
27	An electrochemical device for the Knudsen and bulk diffusivity measurement in the anodes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15057-15062	6.7	7
26	Adsorption of 2,3,7,8-tetrochlorodibenzo-p-dioxins on intrinsic, defected, and Ti (N, Ag) doped graphene: a DFT study. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2238	2	12
25	Electrochemical devices with optimized gas tightness for the diffusivity measurement in fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2334-2339	6.7	5
24	Modelling and simulation of electron-rich effect on Li diffusion in group IVA elements (Si, Ge and Sn) for Li ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13976-13982	13	37
23	An energy investigation into 1D/2D oriented-attachment assemblies of 1D Ag nanocrystals. <i>ChemPhysChem</i> , 2014 , 15, 2688-91	3.2	21
22	Physical justification for negative remanent magnetization in homogeneous nanoparticles. <i>Scientific Reports</i> , 2014 , 4, 6267	4.9	16

21	The evaluation of van der Waals interaction in the oriented-attachment growth of nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1705, 1		
20	Quantitative evaluation of Coulombic interactions in the oriented-attachment growth of nanotubes. <i>Analyst, The</i> , 2014 , 139, 371-4	5	11
19	Diffusivity Measurement Techniques. <i>SpringerBriefs in Energy</i> , 2014 , 19-44	0.3	
18	Surfactant induced colloidal growth and selective electrophoretic deposition of one-dimensional Te nanocrystals. <i>Materials Letters</i> , 2013 , 110, 148-151	3.3	7
17	A current-sensor electrochemical device for accurate gas diffusivity measurement in fuel cells. <i>Journal of Power Sources</i> , 2013 , 232, 93-98	8.9	9
16	An electrochemical device for three-dimensional (3D) diffusivity measurement in fuel cells. <i>Nano Energy</i> , 2013 , 2, 1004-1009	17.1	16
15	Gas transport in porous electrodes of solid oxide fuel cells: A review on diffusion and diffusivity measurement. <i>Journal of Power Sources</i> , 2013 , 237, 64-73	8.9	62
14	Growth of Solid and Hollow Gold Particles through the Thermal Annealing of Nanoscale Patterned Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11590-6	9.5	13
13	The evaluation of Coulombic interaction in the oriented-attachment growth of colloidal nanorods. <i>Analyst, The</i> , 2012 , 137, 4917-20	5	20
12	An analytical expression for the van der Waals interaction in oriented-attachment growth: a spherical nanoparticle and a growing cylindrical nanorod. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4548-53	3.6	34
11	Remarkable optical and magnetic properties of ultra-thin europium oxysulfide nanorods. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16728		31
10	Overall concentration polarization and limiting current density of fuel cells with nanostructured electrodes. <i>Nano Energy</i> , 2012 , 1, 828-832	17.1	26
9	A Multisensor Device for Highly Efficient Diffusivity Measurements and Overall-Concentration-Polarization Evaluation in Fuel Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 329-333	21.8	29
8	A Multisensor Device for Highly Efficient Diffusivity Measurements and Overall-Concentration-Polarization Evaluation in Fuel Cells (Adv. Energy Mater. 3/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 328-328	21.8	
7	Superantiferromagnetic EuTe nanoparticles: room temperature colloidal synthesis, structural characterization, and magnetic properties. <i>Nanoscale</i> , 2011 , 3, 184-7	7.7	33
6	Doubling the diffusivity measurement efficiency in solid oxide fuel cells (SOFCs) via a bi-sensor electrochemical cell. <i>Journal of Power Sources</i> , 2011 , 196, 9985-9988	8.9	14
5	A facile synthesis of Te nanoparticles with binary size distribution by green chemistry. <i>Nanoscale</i> , 2011 , 3, 1523-5	7.7	23
4	Thermally driven isotropic crystallinity breaking of nanocrystals: Insight into the assembly of EuS nanoclusters and nanorods with oleate ligands. <i>Applied Physics Letters</i> , 2011 , 98, 081914	3.4	23

3	Out-of-cell measurements of H ₂ /H ₂ O effective binary diffusivity in the porous anode of solid oxide fuel cells (SOFCs). <i>Journal of Power Sources</i> , 2010 , 195, 532-535	8.9	43
2	Poly(vinylidene fluoride) separators for next-generation lithium based batteries. <i>Nano Select</i> ,	3.1	2
1	Polybenzimidazole functionalized electrolyte with Li-wetting and self-fluorination functionalities for practical Li metal batteries. <i>Information Materials</i> ,	23.1	5