

Huiqiao Li

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238
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ext. citations

13.4
avg, IF

7.14
L-index

#	Paper	IF	Citations
217	Ordered Whiskerlike Polyaniline Grown on the Surface of Mesoporous Carbon and Its Electrochemical Capacitance Performance. <i>Advanced Materials</i> , 2006 , 18, 2619-2623	24	959
216	Enhancing the performances of Li-ion batteries by carbon-coating: present and future. <i>Chemical Communications</i> , 2012 , 48, 1201-17	5.8	730
215	Reviving Lithium-Metal Anodes for Next-Generation High-Energy Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700007	24	641
214	N-Doped Graphene-SnO ₂ Sandwich Paper for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2012 , 22, 2682-2690	15.6	479
213	Nano active materials for lithium-ion batteries. <i>Nanoscale</i> , 2010 , 2, 1294-305	7.7	443
212	Ultrathin and Porous Ni ₃ S ₂ /CoNi ₂ S ₄ 3D-Network Structure for Superhigh Energy Density Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2017 , 7, 1700983	21.8	370
211	Ultrathin SnSe ₂ Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors. <i>Advanced Materials</i> , 2015 , 27, 8035-41	24	369
210	Centimeter-long V ₂ O ₅ nanowires: from synthesis to field-emission, electrochemical, electrical transport, and photoconductive properties. <i>Advanced Materials</i> , 2010 , 22, 2547-52	24	312
209	Two-dimensional layered nanomaterials for gas-sensing applications. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 433-451	6.8	248
208	Large-Size Growth of Ultrathin SnS ₂ Nanosheets and High Performance for Phototransistors. <i>Advanced Functional Materials</i> , 2016 , 26, 4405-4413	15.6	216
207	2D Layered Material-Based van der Waals Heterostructures for Optoelectronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1706587	15.6	191
206	One-dimensional CdS nanostructures: a promising candidate for optoelectronics. <i>Advanced Materials</i> , 2013 , 25, 3017-37	24	190
205	Li ₃ VO ₄ : A Promising Insertion Anode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 428-432	21.8	188
204	Tunneling Diode Based on WSe ₂ /SnS Heterostructure Incorporating High Detectivity and Responsivity. <i>Advanced Materials</i> , 2018 , 30, 1703286	24	183
203	Emerging in-plane anisotropic two-dimensional materials. <i>Information Materials</i> , 2019 , 1, 54-73	23.1	175
202	Electrochemical properties of an ordered mesoporous carbon prepared by direct tri-constituent co-assembly. <i>Carbon</i> , 2007 , 45, 2628-2635	10.4	166
201	Chemical Vapor Deposition Synthesis of Ultrathin Hexagonal ReSe Flakes for Anisotropic Raman Property and Optoelectronic Application. <i>Advanced Materials</i> , 2016 , 28, 8296-8301	24	165

200	Large-scale synthesis of single-crystal hexagonal tungsten trioxide nanowires and electrochemical lithium intercalation into the nanocrystals. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 98-105	3.3	165
199	Doping engineering and functionalization of two-dimensional metal chalcogenides. <i>Nanoscale Horizons</i> , 2019 , 4, 26-51	10.8	162
198	Large-Area Bilayer ReS ₂ Film/Multilayer ReS ₂ Flakes Synthesized by Chemical Vapor Deposition for High Performance Photodetectors. <i>Advanced Functional Materials</i> , 2016 , 26, 4551-4560	15.6	162
197	A binder-free high silicon content flexible anode for Li-ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 848-858	35.4	158
196	2D GeP: An Unexploited Low-Symmetry Semiconductor with Strong In-Plane Anisotropy. <i>Advanced Materials</i> , 2018 , 30, e1706771	24	156
195	A Fully Transparent and Flexible Ultraviolet-Visible Photodetector Based on Controlled Electrospun ZnO-CdO Heterojunction Nanofiber Arrays. <i>Advanced Functional Materials</i> , 2015 , 25, 5885-5894	15.6	146
194	Vertical heterostructures based on SnSe ₂ /MoS ₂ for high performance photodetectors. <i>2D Materials</i> , 2017 , 4, 025048	5.9	143
193	Layered phosphorus-like GeP ₅ : a promising anode candidate with high initial coulombic efficiency and large capacity for lithium ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 3629-3636	35.4	143
192	High-surface vanadium oxides with large capacities for lithium-ion batteries: from hydrated aerogel to nanocrystalline VO ₂ (B), V ₆ O ₁₃ and V ₂ O ₅ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 10999		143
191	Local Charge Distribution Engineered by Schottky Heterojunctions toward Urea Electrolysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1801775	21.8	142
190	Revealing the conversion mechanism of CuO nanowires during lithiation-delithiation by in situ transmission electron microscopy. <i>Chemical Communications</i> , 2012 , 48, 4812-4	5.8	141
189	Booming Development of Group IV-VI Semiconductors: Fresh Blood of 2D Family. <i>Advanced Science</i> , 2016 , 3, 1600177	13.6	140
188	Controlled Synthesis of Ultrathin 2D In ₂ S ₃ with Broadband Photoresponse by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2017 , 27, 1702448	15.6	139
187	High-Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire. <i>Advanced Functional Materials</i> , 2016 , 26, 704-712	15.6	136
186	Few-Layered PtS ₂ Phototransistor on h-BN with High Gain. <i>Advanced Functional Materials</i> , 2017 , 27, 17019161	10.1	133
185	Crystal organometal halide perovskites with promising optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11-27	7.1	133
184	2D layered group IIIA metal chalcogenides: synthesis, properties and applications in electronics and optoelectronics. <i>CrystEngComm</i> , 2016 , 18, 3968-3984	3.3	132
183	Hierarchical micro/nano porous silicon Li-ion battery anodes. <i>Chemical Communications</i> , 2012 , 48, 5079-818	3.8	132

182	An Ordered Mesoporous Carbon with Short Pore Length and Its Electrochemical Performances in Supercapacitor Applications. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A731	3.9	129
181	CoO octahedral nanocages for high-performance lithium ion batteries. <i>Chemical Communications</i> , 2012 , 48, 4878-80	5.8	119
180	Self-stacked Co ₃ O ₄ nanosheets for high-performance lithium ion batteries. <i>Chemical Communications</i> , 2011 , 47, 12280-2	5.8	113
179	An Autotransferable g-C ₃ N ₄ Li-Modulating Layer toward Stable Lithium Anodes. <i>Advanced Materials</i> , 2019 , 31, e1900342	24	111
178	Highly Anisotropic GeSe Nanosheets for Phototransistors with Ultrahigh Photoresponsivity. <i>Advanced Science</i> , 2018 , 5, 1800478	13.6	105
177	Decorating Perovskite Quantum Dots in TiO ₂ Nanotubes Array for Broadband Response Photodetector. <i>Advanced Functional Materials</i> , 2017 , 27, 1703115	15.6	104
176	Antimony-based materials as promising anodes for rechargeable lithium-ion and sodium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 437-455	7.8	99
175	A High Rate 1.2V Aqueous Sodium-ion Battery Based on All NASICON Structured NaTi ₂ (PO ₄) ₃ and Na ₃ V ₂ (PO ₄) ₃ . <i>Electrochimica Acta</i> , 2016 , 196, 470-478	6.7	98
174	Submillimeter 2D Bi ₂ Se ₃ Flakes toward High-Performance Infrared Photodetection at Optical Communication Wavelength. <i>Advanced Functional Materials</i> , 2018 , 28, 1802707	15.6	98
173	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1904932	15.6	98
172	Layer Structured Materials for Advanced Energy Storage and Conversion. <i>Small</i> , 2017 , 13, 1701649	11	95
171	Rechargeable Ni-Li battery integrated aqueous/nonaqueous system. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15098-9	16.4	95
170	A wood/poly pyrrole composite as a photothermal conversion device for solar evaporation enhancement. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20706-20712	13	94
169	Highly In-Plane Anisotropic 2D GeAs for Polarization-Sensitive Photodetection. <i>Advanced Materials</i> , 2018 , 30, e1804541	24	94
168	Single-crystal H ₂ V ₃ O ₈ nanowires: a competitive anode with large capacity for aqueous lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1780-1787		90
167	A competitive candidate material for aqueous supercapacitors: High surface-area graphite. <i>Journal of Power Sources</i> , 2008 , 185, 1557-1562	8.9	87
166	High performance near-infrared photodetectors based on ultrathin SnS nanobelts grown via physical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2111-2116	7.1	86
165	ZnSe nanostructures: Synthesis, properties and applications. <i>Progress in Materials Science</i> , 2016 , 83, 472-525	33.5	85

164	Ternary Ta ₂ NiSe ₅ Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , 2016 , 26, 8281-8289	15.6	82
163	Multi-heteroatom self-doped porous carbon derived from swim bladders for large capacitance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15006-15014	13	81
162	Strong In-Plane Anisotropies of Optical and Electrical Response in Layered Dimetal Chalcogenide. <i>ACS Nano</i> , 2017 , 11, 10264-10272	16.7	81
161	2D Ternary Chalcogenides. <i>Advanced Optical Materials</i> , 2018 , 6, 1800058	8.1	79
160	The development of a new type of rechargeable batteries based on hybrid electrolytes. <i>ChemSusChem</i> , 2010 , 3, 1009-19	8.3	78
159	Highly reversible sodium storage in a GeP ₅ /C composite anode with large capacity and low voltage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4413-4420	13	77
158	Fabrication of FePO ₄ layer coated LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ : Towards high-performance cathode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2012 , 83, 253-258	6.7	76
157	A Hybrid Electrochemical Supercapacitor Based on a 5 V Li-Ion Battery Cathode and Active Carbon. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A433		76
156	Flexible Wire-Shaped Supercapacitors in Parallel Double Helix Configuration with Stable Electrochemical Properties under Static/Dynamic Bending. <i>Small</i> , 2016 , 12, 1024-33	11	75
155	PEDOT modified LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ with enhanced electrochemical performance for lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 243, 374-380	8.9	73
154	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2390-2394	16.4	72
153	Highly Porous Carbon with Graphene Nanoplatelet Microstructure Derived from Biomass Waste for High-Performance Supercapacitors in Universal Electrolyte. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1600011	5.9	72
152	Liquid-Alloy-Assisted Growth of 2D Ternary Ga In S toward High-Performance UV Photodetection. <i>Advanced Materials</i> , 2019 , 31, e1806306	24	71
151	Ultrathin 2D GeSe ₂ Rhombic Flakes with High Anisotropy Realized by Van der Waals Epitaxy. <i>Advanced Functional Materials</i> , 2017 , 27, 1703858	15.6	69
150	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14893-14897	16.4	68
149	Scalable production of self-supported WS ₂ /CNFs by electrospinning as the anode for high-performance lithium-ion batteries. <i>Science Bulletin</i> , 2016 , 61, 227-235	10.6	68
148	Ultrathin Non-van der Waals Magnetic Rhombohedral Cr ₂ S ₃ : Space-Confined Chemical Vapor Deposition Synthesis and Raman Scattering Investigation. <i>Advanced Functional Materials</i> , 2019 , 29, 1805880	15.6	68
147	2D Metal Chalcogenides for IR Photodetection. <i>Small</i> , 2019 , 15, e1901347	11	65

146	Halide-Induced Self-Limited Growth of Ultrathin Nonlayered Ge Flakes for High-Performance Phototransistors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12909-12914	16.4	65
145	Self-Limited Epitaxial Growth of Ultrathin Nonlayered CdS Flakes for High-Performance Photodetectors. <i>Advanced Functional Materials</i> , 2018 , 28, 1800181	15.6	62
144	Improvement of electrochemical properties of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ by coating with V ₂ O ₅ layer. <i>Journal of Alloys and Compounds</i> , 2013 , 552, 76-82	5.7	62
143	Achieving Uniform Monolayer Transition Metal Dichalcogenides Film on Silicon Wafer via Silanization Treatment: A Typical Study on WS. <i>Advanced Materials</i> , 2017 , 29, 1603550	24	60
142	Nanostructured Materials and Architectures for Advanced Infrared Photodetection. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700005	6.8	59
141	High performance LiNi _{0.5} Mn _{1.5} O ₄ cathode by Al-coating and Al ³⁺ -doping through a physical vapor deposition method. <i>Electrochimica Acta</i> , 2016 , 191, 237-246	6.7	58
140	Fabrication of vertically aligned single-crystalline lanthanum hexaboride nanowire arrays and investigation of their field emission. <i>NPG Asia Materials</i> , 2013 , 5, e53-e53	10.3	58
139	Modulation of Molecular Spatial Distribution and Chemisorption with Perforated Nanosheets for Ethanol Electro-oxidation. <i>Advanced Materials</i> , 2019 , 31, e1900528	24	57
138	Self-supported Zn ₃ P ₂ nanowire arrays grafted on carbon fabrics as an advanced integrated anode for flexible lithium ion batteries. <i>Nanoscale</i> , 2016 , 8, 8666-72	7.7	57
137	Enhancing the performance of Li ₃ VO ₄ by combining nanotechnology and surface carbon coating for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11253-11260	13	56
136	Free-standing ultrathin lithium metal/graphene oxide host foils with controllable thickness for lithium batteries. <i>Nature Energy</i> , 2021 , 6, 790-798	62.3	56
135	A hybrid nonaqueous electrochemical supercapacitor using nano-sized iron oxyhydroxide and activated carbon. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 405-410	2.6	53
134	Design of Gold Hollow Nanorods with Controllable Aspect Ratio for Multimodal Imaging and Combined Chemo-Photothermal Therapy in the Second Near-Infrared Window. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36703-36710	9.5	53
133	Recent progress in solid-state electrolytes for alkali-ion batteries. <i>Science Bulletin</i> , 2017 , 62, 1473-1490	10.6	51
132	Synthesis of high efficient Cu/TiO ₂ photocatalysts by grinding and their size-dependent photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2017 , 409, 241-249	6.7	50
131	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , 2019 , 10, 4728	17.4	50
130	Strategies on Phase Control in Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2018 , 28, 1802473	15.6	49
129	Smart supercapacitors with deformable and healable functions. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16-30	13	48

128	Space-confined vapor deposition synthesis of two dimensional materials. <i>Nano Research</i> , 2018 , 11, 2909-2931	29.31	47
127	Excellent Field-Emission Performances of Neodymium Hexaboride (NdB ₆) Nanoneedles with Ultra-Low Work Functions. <i>Advanced Functional Materials</i> , 2013 , 23, 5038-5048	15.6	47
126	Space-Confined Synthesis of 2D All-Inorganic CsPbI ₃ Perovskite Nanosheets for Multiphoton-Pumped Lasing. <i>Advanced Optical Materials</i> , 2018 , 6, 1800879	8.1	46
125	Development and perspective of the insertion anode Li ₃ VO ₄ for lithium-ion batteries. <i>Energy Storage Materials</i> , 2017 , 7, 17-31	19.4	45
124	Ultrafine potassium titanate nanowires: a new Ti-based anode for sodium ion batteries. <i>Chemical Communications</i> , 2016 , 52, 6229-32	5.8	45
123	2D CoOOH Sheet-Encapsulated NiP into Tubular Arrays Realizing 1000 mA/cm ² -Level-Current-Density Hydrogen Evolution Over 100h in Neutral Water. <i>Nano-Micro Letters</i> , 2020 , 12, 140	19.5	43
122	Facile synthesis and electrochemical properties of nanoflake VN for supercapacitors. <i>CrystEngComm</i> , 2016 , 18, 3040-3047	3.3	42
121	Inversion Symmetry Broken 2D 3R-MoTe ₂ . <i>Advanced Functional Materials</i> , 2018 , 28, 1800785	15.6	40
120	Strain Driven Spectral Broadening of Pb Ion Exchanged CdS Nanowires. <i>Small</i> , 2016 , 12, 874-81	11	40
119	Redox-Mediator-Enhanced Electrochemical Capacitors: Recent Advances and Future Perspectives. <i>ChemSusChem</i> , 2019 , 12, 1118-1132	8.3	40
118	Healable Structure Triggered by Thermal/Electrochemical Force in Layered GeSe ₂ for High Performance Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703635	21.8	39
117	Electrochemical Double-Layer Capacitor Energized by Adding an Ambipolar Organic Redox Radical into the Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8214-8218	16.4	39
116	Salt-assisted chemical vapor deposition of two-dimensional materials. <i>Science China Chemistry</i> , 2019 , 62, 1300-1311	7.9	38
115	PMMA-assisted Li deposition towards 3D continuous dendrite-free lithium anode. <i>Energy Storage Materials</i> , 2019 , 16, 203-211	19.4	38
114	Hand-drawing patterned ultra-thin integrated electrodes for flexible micro supercapacitors. <i>Energy Storage Materials</i> , 2018 , 11, 144-151	19.4	37
113	Functional "Janus" Annulus in Confined Channels. <i>Advanced Materials</i> , 2016 , 28, 460-5	24	37
112	Probing the capacity loss of Li ₃ VO ₄ anode upon Li insertion and extraction. <i>Journal of Power Sources</i> , 2017 , 348, 48-56	8.9	36
111	A study of nitroxide polyradical/activated carbon composite as the positive electrode material for electrochemical hybrid capacitor. <i>Electrochimica Acta</i> , 2007 , 52, 2153-2157	6.7	36

110	1T'-MoTe ₂ -Based On-Chip Electrocatalytic Microdevice: A Platform to Unravel Oxidation-Dependent Electrocatalysis. <i>CCS Chemistry</i> , 2019 , 1, 396-406	7.2	36
109	Direct conversion of waste tires into three-dimensional graphene. <i>Energy Storage Materials</i> , 2019 , 23, 499-507	19.4	35
108	Polyallene with pendant nitroxyl radicals. <i>Polymer</i> , 2008 , 49, 3393-3398	3.9	35
107	Vacancy-Rich Ni(OH) ₂ Drives the Electrooxidation of Amino C-N Bonds to Nitrile C≡N Bonds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16974-16981	16.4	34
106	One-pot synthesis of Li ₃ VO ₄ @C nanofibers by electrospinning with enhanced electrochemical performance for lithium-ion batteries. <i>Science Bulletin</i> , 2017 , 62, 1081-1088	10.6	34
105	Flowerlike vanadium sesquioxide: solvothermal preparation and electrochemical properties. <i>ChemPhysChem</i> , 2010 , 11, 3273-80	3.2	34
104	Single Additive with Dual Functional-Ions for Stabilizing Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11360-11368	9.5	33
103	On-chip electrocatalytic microdevice: an emerging platform for expanding the insight into electrochemical processes. <i>Chemical Society Reviews</i> , 2020 , 49, 2916-2936	58.5	33
102	Cellulose-Based Hybrid Structural Material for Radiative Cooling. <i>Nano Letters</i> , 2021 , 21, 397-404	11.5	33
101	Alkali metal boosted atom rearrangement in amorphous carbon towards crystalline graphitic belt skeleton for high performance supercapacitors. <i>Energy Storage Materials</i> , 2018 , 15, 82-90	19.4	32
100	One-step synthesis of p-type GaSe nanoribbons and their excellent performance in photodetectors and phototransistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7817-7823	7.1	31
99	LISICON structured Li ₃ V ₂ (PO ₄) ₃ with high rate and ultralong life for low-temperature lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9737-9746	13	31
98	Synthesis and investigation of layered GeS as a promising large capacity anode with low voltage and high efficiency in full-cell Li-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1607-1614	7.8	29
97	In situ fabrication and investigation of nanostructures and nanodevices with a microscope. <i>Chemical Society Reviews</i> , 2016 , 45, 2694-713	58.5	28
96	Sub-Millimeter-Scale Monolayer p-Type H-Phase VS ₂ . <i>Advanced Functional Materials</i> , 2020 , 30, 2000240	15.6	27
95	The rising zinc anodes for high-energy aqueous batteries. <i>EnergyChem</i> , 2021 , 3, 100052	36.9	27
94	High-loading individually dispersed NiCo ₂ O ₄ anchoring on checkerboard-like C/CNT nanosheets as a binder-free high rate electrode for lithium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3632-3641	13	26
93	Easy synthesis and supercapacities of highly ordered mesoporous polyacenes/carbons. <i>Carbon</i> , 2006 , 44, 1601-1604	10.4	26

92	Miniature Hollow Gold Nanorods with Enhanced Effect for In Vivo Photoacoustic Imaging in the NIR-II Window. <i>Small</i> , 2020 , 16, e2002748	11	26
91	2D Homojunctions for Electronics and Optoelectronics. <i>Advanced Materials</i> , 2021 , 33, e2005303	24	26
90	Highly Stretchable Waterproof Fiber Asymmetric Supercapacitors in an Integrated Structure. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19820-19827	9.5	26
89	Tunnel-Structured KTiO Nanorods by in Situ Carbothermal Reduction as a Long Cycle and High Rate Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7009-7016	9.5	25
88	Si-Doping Mediated Phase Control from β to β' Form Li ₃ VO ₄ toward Smoothing Li Insertion/Extraction. <i>Advanced Energy Materials</i> , 2018 , 8, 1701621	21.8	25
87	Asymmetric Behavior of Positive and Negative Electrodes in Carbon/Carbon Supercapacitors and Its Underlying Mechanism. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24675-24681	3.8	25
86	Phase-Engineered Synthesis of Ultrathin Hexagonal and Monoclinic GaTe Flakes and Phase Transition Study. <i>Advanced Functional Materials</i> , 2019 , 29, 1901012	15.6	24
85	Artificial Wooden Nacre: A High Specific Strength Engineering Material. <i>ACS Nano</i> , 2020 , 14, 2036-2043	16.7	24
84	Phase-Engineered Growth of Ultrathin InSe Flakes by Chemical Vapor Deposition for High-Efficiency Second Harmonic Generation. <i>Chemistry - A European Journal</i> , 2018 , 24, 15678-15684	4.8	24
83	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie</i> , 2017 , 129, 2430-2434	3.6	23
82	Large-scale synthesis of 2D metal dichalcogenides. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4627-4640	7.1	23
81	Van der Waals 2D Transition Metal Tellurides. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900741	4.6	22
80	Multishell Precursors Facilitated Synthesis of Concentration-Gradient Nickel-Rich Cathodes for Long-Life and High-Rate Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24508-24515	9.5	22
79	2D Inorganic Bimolecular Crystals with Strong In-Plane Anisotropy for Second-Order Nonlinear Optics. <i>Advanced Materials</i> , 2020 , 32, e2003146	24	21
78	Approaching ohmic contact to two-dimensional semiconductors. <i>Science Bulletin</i> , 2019 , 64, 1426-1435	10.6	21
77	A novel rechargeable Li-AgO battery with hybrid electrolytes. <i>Chemical Communications</i> , 2010 , 46, 2055-2057	3.8	21
76	Controllable hydrogen generation from water. <i>ChemSusChem</i> , 2010 , 3, 571-4	8.3	21
75	Schottky Heterojunction Nanosheet Array Achieving High-Current-Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. <i>Advanced Energy Materials</i> , 2019 , 9, 1901012	21.8	21

74	Salt-Assisted Growth of P-type Cu ₉ S ₅ Nanoflakes for P-N Heterojunction Photodetectors with High Responsivity. <i>Advanced Functional Materials</i> , 2020 , 30, 1908382	15.6	21
73	Temperature Difference Triggering Controlled Growth of All-Inorganic Perovskite Nanowire Arrays in Air. <i>Small</i> , 2018 , 14, e1803010	11	21
72	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie</i> , 2017 , 129, 15089-15093	3.6	20
71	Geometry-induced high performance ultraviolet photodetectors in kinked SnO ₂ nanowires. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8300-8306	7.1	20
70	2D Hybrid Superlattice-Based On-Chip Electrocatalytic Microdevice for Revealing Enhanced Catalytic Activity. <i>ACS Nano</i> , 2020 , 14, 1635-1644	16.7	20
69	Acid promoted Ni/NiO monolithic electrode for overall water splitting in alkaline medium. <i>Science China Materials</i> , 2017 , 60, 918-928	7.1	20
68	Removing structural water from sodium titanate anodes towards barrier-free ion diffusion for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18691-18697	13	20
67	A Water Stable, Near-Zero-Strain O ₃ -Layered Titanium-Based Anode for Long Cycle Sodium-Ion Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 1907023	15.6	20
66	Investigation of the temperature-dependent behaviours of Li metal anode. <i>Chemical Communications</i> , 2019 , 55, 9773-9776	5.8	19
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