

# Huiqiao Li

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1492074/huiqiao-li-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

217  
papers

15,206  
citations

68  
h-index

117  
g-index

238  
ext. papers

18,073  
ext. citations

13.4  
avg, IF

7.14  
L-index

#	Paper	IF	Citations
217	Scalable Van der Waals Encapsulation by Inorganic Molecular Crystals (Adv. Mater. 7/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270057	24	
216	In Situ Halogen-Ion Leaching Regulates Multiple Sites on Tandem Catalysts for Efficient CO <sub>2</sub> Electroreduction to C <sub>2</sub> + Products.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	3
215	Dynamic investigation of battery materials via advanced visualization: from particle, electrode to cell level.. <i>Advanced Materials</i> , <b>2022</b> , e2200777	24	4
214	A high strength, anti-corrosion and sustainable separator for aqueous zinc-based battery by natural bamboo cellulose. <i>Energy Storage Materials</i> , <b>2022</b> , 48, 191	19.4	3
213	Fabricating a PVDF skin for PEO-based SPE to stabilize the interface both at cathode and anode for Li-ion batteries. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 70, 356-362	12	2
212	Active and conductive layer stacked superlattices for highly selective CO electroreduction.. <i>Nature Communications</i> , <b>2022</b> , 13, 2039	17.4	6
211	Scalable van der Waals Encapsulation by Inorganic Molecular Crystals. <i>Advanced Materials</i> , <b>2021</b> , e2106041	24	5
210	Effect of Strong Intermolecular Interaction in 2D Inorganic Molecular Crystals. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 20192-20201	16.4	3
209	Van der Waals Epitaxy of Bi Te Se/Bi O Se Vertical Heterojunction for High Performance Photodetector. <i>Small</i> , <b>2021</b> , e2105211	11	8
208	2D Cu S /PtS /WSe Double Heterojunction Bipolar Transistor with High Current Gain. <i>Advanced Materials</i> , <b>2021</b> , 33, e2106537	24	3
207	Ultrahigh-Current-Density and Long-Term-Durability Electrocatalysts for Water Splitting. <i>Small</i> , <b>2021</b> , e2104513	11	4
206	Single WTe Sheet-Based Electrocatalytic Microdevice for Directly Detecting Enhanced Activity of Doped Electronegative Anions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 14302-14311	9.5	5
205	The rising zinc anodes for high-energy aqueous batteries. <i>EnergyChem</i> , <b>2021</b> , 3, 100052	36.9	27
204	Recent Advances in 2D Group VB Transition Metal Chalcogenides. <i>Small</i> , <b>2021</b> , 17, e2005411	11	5
203	Synthesis of 2D ternary layered manganese phosphorous trichalcogenides towards ultraviolet photodetection. <i>Science China Materials</i> , <b>2021</b> , 64, 2251-2260	7.1	7
202	Free-standing ultrathin lithium metal-graphene oxide host foils with controllable thickness for lithium batteries. <i>Nature Energy</i> , <b>2021</b> , 6, 790-798	62.3	56
201	Emerging two-dimensional bismuth oxychalcogenides for electronics and optoelectronics. <i>Information Materials</i> , <b>2021</b> , 3, 1251	23.1	16

200	A Universal Aqueous Conductive Binder for Flexible Electrodes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102284	15.6	6
199	Cellulose-Based Hybrid Structural Material for Radiative Cooling. <i>Nano Letters</i> , <b>2021</b> , 21, 397-404	11.5	33
198	On-site building of a Zn <sup>2+</sup> -conductive interfacial layer via short-circuit energization for stable Zn anode. <i>Science Bulletin</i> , <b>2021</b> , 66, 545-552	10.6	14
197	2D Homojunctions for Electronics and Optoelectronics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005303	24	26
196	In Situ Phase Separation into Coupled Interfaces for Promoting CO <sub>2</sub> Electroreduction to Formate over a Wide Potential Window. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23122	3.6	3
195	In Situ Phase Separation into Coupled Interfaces for Promoting CO Electroreduction to Formate over a Wide Potential Window. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 22940-22947	16.4	12
194	Fusing semiconductor and nonmetal into a high conductive wide-range solid solution alloy for Li-ion batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 502-512	19.4	2
193	Dual-Regulation of Defect Sites and Vertical Conduction by Spiral Domain for Electrocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	4
192	In Situ Formed LiZn Alloy Skeleton for Stable Lithium Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25818-25825	9.5	10
191	Vacancy-Rich Ni(OH) Drives the Electrooxidation of Amino C-N Bonds to Nitrile C=N Bonds. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16974-16981	16.4	34
190	Vacancy-Rich Ni(OH) <sub>2</sub> Drives the Electrooxidation of Amino C-N Bonds to Nitrile C=N Bonds. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 17122-17129	3.6	9
189	The mechanism of the modulation of electronic anisotropy in two-dimensional ReS <sub>2</sub> . <i>Nanoscale</i> , <b>2020</b> , 12, 8915-8921	7.7	7
188	2D Inorganic Bimolecular Crystals with Strong In-Plane Anisotropy for Second-Order Nonlinear Optics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003146	24	21
187	2D CoOOH Sheet-Encapsulated NiP into Tubular Arrays Realizing 1000 mA cm <sup>-2</sup> -Level-Current-Density Hydrogen Evolution Over 100 h in Neutral Water. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 140	19.5	43
186	Suppression of Persistent Photoconductivity of Rubrene Crystals using Gate-Tunable Rubrene/Bi Se Diodes with Photoinduced Negative Differential Resistance. <i>Small</i> , <b>2020</b> , 16, e2002312	11	14
185	Wrapping SbTe with a Graphite Layer toward High Volumetric Energy and Long Cycle Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16264-16275	9.5	13
184	Sub-Millimeter-Scale Monolayer p-Type H-Phase VS <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000240	15.6	27
183	A biomimetic-structured wood-derived carbon sponge with highly compressible and biocompatible properties for human-motion detection. <i>Informa Materials</i> , <b>2020</b> , 2, 1225-1235	23.1	16

182	Double the energy storage of hard carbon anode for Li-ion batteries via a simple blending strategy. <i>Electrochimica Acta</i> , <b>2020</b> , 336, 135729	6.7	3
181	Nonlayered CdSe Flakes Homojunctions. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908902	15.6	18
180	Artificial Wooden Nacre: A High Specific Strength Engineering Material. <i>ACS Nano</i> , <b>2020</b> , 14, 2036-2043	16.7	24
179	2D Hybrid Superlattice-Based On-Chip Electrocatalytic Microdevice for Revealing Enhanced Catalytic Activity. <i>ACS Nano</i> , <b>2020</b> , 14, 1635-1644	16.7	20
178	Atomically Thin Oxyhalide Solar-Blind Photodetectors. <i>Small</i> , <b>2020</b> , 16, e2000228	11	16
177	Facilitating All-Inorganic Halide Perovskites Fabrication in Confined-Space Deposition. <i>Small Methods</i> , <b>2020</b> , 4, 2000102	12.8	10
176	A Water Stable, Near-Zero-Strain O <sub>3</sub> -Layered Titanium-Based Anode for Long Cycle Sodium-Ion Battery. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907023	15.6	20
175	Salt-Assisted Growth of P-type Cu <sub>9</sub> S <sub>5</sub> Nanoflakes for P-N Heterojunction Photodetectors with High Responsivity. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908382	15.6	21
174	A binder-free high silicon content flexible anode for Li-ion batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 848-858	35.4	158
173	Air-Stable 2D Intrinsic Ferromagnetic TaFeS with Four Months Durability. <i>Advanced Science</i> , <b>2020</b> , 7, 2001372	13.2	18
172	Miniature Hollow Gold Nanorods with Enhanced Effect for In Vivo Photoacoustic Imaging in the NIR-II Window. <i>Small</i> , <b>2020</b> , 16, e2002748	11	26
171	A New Triclinic Phase Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Anode for Sodium-Ion Battery. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003733	15.6	16
170	A Versatile Capacity Balancer for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001608	10.8	6
169	Shaping Li Deposits from Wild Dendrites to Regular Crystals via the Ferroelectric Effect. <i>Nano Letters</i> , <b>2020</b> , 20, 7680-7687	11.5	12
168	On-chip electrocatalytic microdevice: an emerging platform for expanding the insight into electrochemical processes. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 2916-2936	58.5	33
167	Salt-assisted chemical vapor deposition of two-dimensional materials. <i>Science China Chemistry</i> , <b>2019</b> , 62, 1300-1311	7.9	38
166	High-loading individually dispersed NiCo <sub>2</sub> O <sub>4</sub> anchoring on checkerboard-like C/CNT nanosheets as a binder-free high rate electrode for lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3632-3641	13	26
165	Compact self-standing layered film assembled by V <sub>2</sub> O <sub>5</sub> /H <sub>2</sub> O/CNTs 2D/1D composites for high volumetric capacitance flexible supercapacitors. <i>Science China Materials</i> , <b>2019</b> , 62, 936-946	7.1	14

164	Modulation of Molecular Spatial Distribution and Chemisorption with Perforated Nanosheets for Ethanol Electro-oxidation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900528	24	57
163	2D Metal Chalcogenides for IR Photodetection. <i>Small</i> , <b>2019</b> , 15, e1901347	11	65
162	An Autotransferable g-C <sub>3</sub> N <sub>4</sub> -Modulating Layer toward Stable Lithium Anodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900342	24	111
161	Direct conversion of waste tires into three-dimensional graphene. <i>Energy Storage Materials</i> , <b>2019</b> , 23, 499-507	19.4	35
160	Emerging in-plane anisotropic two-dimensional materials. <i>Information Materials</i> , <b>2019</b> , 1, 54-73	23.1	175
159	Phase-Engineered Synthesis of Ultrathin Hexagonal and Monoclinic GaTe Flakes and Phase Transition Study. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901012	15.6	24
158	Doping engineering and functionalization of two-dimensional metal chalcogenides. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 26-51	10.8	162
157	PMMA-assisted Li deposition towards 3D continuous dendrite-free lithium anode. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 203-211	19.4	38
156	Van der Waals 2D Transition Metal Tellurides. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900741	4.6	22
155	A wood/poly pyrrole composite as a photothermal conversion device for solar evaporation enhancement. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20706-20712	13	94
154	Investigation of the temperature-dependent behaviours of Li metal anode. <i>Chemical Communications</i> , <b>2019</b> , 55, 9773-9776	5.8	19
153	Approaching ohmic contact to two-dimensional semiconductors. <i>Science Bulletin</i> , <b>2019</b> , 64, 1426-1435	10.6	21
152	Level the Conversion/Alloying Voltage Gap by Grafting the Endogenous SbTe Building Block into Layered GeTe to Build GeSbTe for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41374-41382	9.5	8
151	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904932	15.6	98
150	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , <b>2019</b> , 10, 4728	17.4	50
149	1T'-MoTe <sub>2</sub> -Based On-Chip Electrocatalytic Microdevice: A Platform to Unravel Oxidation-Dependent Electrocatalysis. <i>CCS Chemistry</i> , <b>2019</b> , 1, 396-406	7.2	36
148	Single Additive with Dual Functional-Ions for Stabilizing Lithium Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 11360-11368	9.5	33
147	A safe, convenient liquid phase pre-sodiation method for titanium-based SIB materials. <i>Chemical Communications</i> , <b>2019</b> , 55, 14761-14764	5.8	13

146	Liquid-Alloy-Assisted Growth of 2D Ternary Ga In S toward High-Performance UV Photodetection. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806306	24	71
145	Redox-Mediator-Enhanced Electrochemical Capacitors: Recent Advances and Future Perspectives. <i>ChemSusChem</i> , <b>2019</b> , 12, 1118-1132	8.3	40
144	Ultrathin Non-van der Waals Magnetic Rhombohedral Cr <sub>2</sub> S <sub>3</sub> : Space-Confined Chemical Vapor Deposition Synthesis and Raman Scattering Investigation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805880	15.6	68
143	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides <b>2019</b> , 29, 1904932		1
142	2D GeP: An Unexploited Low-Symmetry Semiconductor with Strong In-Plane Anisotropy. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706771	24	156
141	Inversion Symmetry Broken 2D 3R-MoTe <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800785	15.6	40
140	Large-scale synthesis of 2D metal dichalcogenides. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 4627-4640	7.1	23
139	2D Layered Material-Based van der Waals Heterostructures for Optoelectronics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706587	15.6	191
138	Si-Doping Mediated Phase Control from $\beta$ to $\beta'$ Form Li <sub>3</sub> VO <sub>4</sub> toward Smoothing Li Insertion/Extraction. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701621	21.8	25
137	Tunneling Diode Based on WSe <sub>2</sub> /SnS Heterostructure Incorporating High Detectivity and Responsivity. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703286	24	183
136	Space-confined vapor deposition synthesis of two dimensional materials. <i>Nano Research</i> , <b>2018</b> , 11, 2909-2931	29.31	47
135	Self-Limited Epitaxial Growth of Ultrathin Nonlayered CdS Flakes for High-Performance Photodetectors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800181	15.6	62
134	Alkali metal boosted atom rearrangement in amorphous carbon towards crystalline graphitic belt skeleton for high performance supercapacitors. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 82-90	19.4	32
133	Healable Structure Triggered by Thermal/Electrochemical Force in Layered GeSe <sub>2</sub> for High Performance Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703635	21.8	39
132	Hand-drawing patterned ultra-thin integrated electrodes for flexible micro supercapacitors. <i>Energy Storage Materials</i> , <b>2018</b> , 11, 144-151	19.4	37
131	Solvent mediated sodium storage enhancement in van der Waals layered materials. <i>Solid State Ionics</i> , <b>2018</b> , 318, 35-44	3.3	3
130	Submillimeter 2D Bi <sub>2</sub> Se <sub>3</sub> Flakes toward High-Performance Infrared Photodetection at Optical Communication Wavelength. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802707	15.6	98
129	Phase-Engineered Growth of Ultrathin InSe Flakes by Chemical Vapor Deposition for High-Efficiency Second Harmonic Generation. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 15678-15684	4.8	24

128	Aqueous Binder Enhanced High-Performance GeP Anode for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 21	5	9
127	Strategies on Phase Control in Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802473	15.6	49
126	Local Charge Distribution Engineered by Schottky Heterojunctions toward Urea Electrolysis. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801775	21.8	142
125	Extended Visible Light Absorption Combined with Promoted Charge Carrier Transfer in Urea-Derived Graphitic Carbon Nitride for Enhanced Photocatalytic Hydrogen Evolution Performances. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20717-20726	3.8	16
124	Antimony-based materials as promising anodes for rechargeable lithium-ion and sodium-ion batteries. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 437-455	7.8	99
123	Temperature dependence of Raman responses of few-layer PtS. <i>Nanotechnology</i> , <b>2018</b> , 29, 505709	3.4	15
122	Space-Confined Synthesis of 2D All-Inorganic CsPbI <sub>3</sub> Perovskite Nanosheets for Multiphoton-Pumped Lasing. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800879	8.1	46
121	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 &amp; Interfaces</i> , <b>2018</b> , 10, 36703-36710	9.5	53
120	Highly In-Plane Anisotropic 2D GeAs for Polarization-Sensitive Photodetection. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804541	24	94
119	Morphology Processing by Encapsulating GeP Nanoparticles into Nanofibers toward Enhanced Thermo/Electrochemical Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32162-32170	9.5	13
118	In situ formed nanoparticle-assisted growth of large-size single crystalline h-BN on copper. <i>Nanoscale</i> , <b>2018</b> , 10, 17865-17872	7.7	5
117	Temperature Difference Triggering Controlled Growth of All-Inorganic Perovskite Nanowire Arrays in Air. <i>Small</i> , <b>2018</b> , 14, e1803010	11	21
116	Halide-Induced Self-Limited Growth of Ultrathin Nonlayered Ge Flakes for High-Performance Phototransistors. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12909-12914	16.4	65
115	Highly Stretchable Waterproof Fiber Asymmetric Supercapacitors in an Integrated Structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 19820-19827	9.5	26
114	Electrochemical Double-Layer Capacitor Energized by Adding an Ambipolar Organic Redox Radical into the Electrolyte. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8346-8350	3.6	10
113	Electrochemical Double-Layer Capacitor Energized by Adding an Ambipolar Organic Redox Radical into the Electrolyte. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8214-8218	16.4	39
112	2D Ternary Chalcogenides. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800058	8.1	79
111	Effects of nanostructuring on the bond strength and disorder in VO cathode material for rechargeable ion-batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 15288-15292	3.6	4

110	LISICON structured $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ with high rate and ultralong life for low-temperature lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9737-9746	13	31
109	Highly Anisotropic GeSe Nanosheets for Phototransistors with Ultrahigh Photoresponsivity. <i>Advanced Science</i> , <b>2018</b> , 5, 1800478	13.6	105
108	Multishell Precursors Facilitated Synthesis of Concentration-Gradient Nickel-Rich Cathodes for Long-Life and High-Rate Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24508-24515	9.5	22
107	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2430-2434	3.6	23
106	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2390-2394	16.4	72
105	Highly Porous Carbon with Graphene Nanoplatelet Microstructure Derived from Biomass Waste for High-Performance Supercapacitors in Universal Electrolyte. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1600011	5.9	72
104	Highly reversible sodium storage in a GeP5/C composite anode with large capacity and low voltage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4413-4420	13	77
103	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 &amp; Interfaces</i> , <b>2017</b> , 9, 7009-7016	9.5	25
102	Synthesis of high efficient Cu/TiO2 photocatalysts by grinding and their size-dependent photocatalytic hydrogen production. <i>Applied Surface Science</i> , <b>2017</b> , 409, 241-249	6.7	50
101	Probing the capacity loss of $\text{Li}_3\text{VO}_4$ anode upon Li insertion and extraction. <i>Journal of Power Sources</i> , <b>2017</b> , 348, 48-56	8.9	36
100	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> , <b>2017</b> , 1, 1607-1614	7.8	29
99	Few-Layered PtS2 Phototransistor on h-BN with High Gain. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701011	10.1	133
98	Development and perspective of the insertion anode $\text{Li}_3\text{VO}_4$ for lithium-ion batteries. <i>Energy Storage Materials</i> , <b>2017</b> , 7, 17-31	19.4	45
97	Nanostructured Materials and Architectures for Advanced Infrared Photodetection. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700005	6.8	59
96	Vertical heterostructures based on SnSe 2 /MoS 2 for high performance photodetectors. <i>2D Materials</i> , <b>2017</b> , 4, 025048	5.9	143
95	Achieving Uniform Monolayer Transition Metal Dichalcogenides Film on Silicon Wafer via Silanization Treatment: A Typical Study on WS. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603550	24	60
94	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14893-14897	16.4	68
93	Generalized Self-Doping Engineering towards Ultrathin and Large-Sized Two-Dimensional Homologous Perovskites. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15089-15093	3.6	20



92	Decorating Perovskite Quantum Dots in TiO <sub>2</sub> Nanotubes Array for Broadband Response Photodetector. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703115	15.6	104
91	Ultrathin 2D GeSe <sub>2</sub> Rhombic Flakes with High Anisotropy Realized by Van der Waals Epitaxy. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703858	15.6	69
90	Recent progress in solid-state electrolytes for alkali-ion batteries. <i>Science Bulletin</i> , <b>2017</b> , 62, 1473-1490	10.6	51
89	Acid promoted Ni/NiO monolithic electrode for overall water splitting in alkaline medium. <i>Science China Materials</i> , <b>2017</b> , 60, 918-928	7.1	20
88	Layer Structured Materials for Advanced Energy Storage and Conversion. <i>Small</i> , <b>2017</b> , 13, 1701649	11	95
87	Strong In-Plane Anisotropies of Optical and Electrical Response in Layered Dimetal Chalcogenide. <i>ACS Nano</i> , <b>2017</b> , 11, 10264-10272	16.7	81
86	Ultrathin and Porous Ni <sub>3</sub> S <sub>2</sub> /CoNi <sub>2</sub> S <sub>4</sub> 3D-Network Structure for Superhigh Energy Density Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700983	21.8	370
85	One-pot synthesis of Li <sub>3</sub> VO <sub>4</sub> @C nanofibers by electrospinning with enhanced electrochemical performance for lithium-ion batteries. <i>Science Bulletin</i> , <b>2017</b> , 62, 1081-1088	10.6	34
84	Removing structural water from sodium titanate anodes towards barrier-free ion diffusion for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18691-18697	13	20
83	Controlled Synthesis of Ultrathin 2D In <sub>2</sub> S <sub>3</sub> with Broadband Photoresponse by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702448	15.6	139
82	Reviving Lithium-Metal Anodes for Next-Generation High-Energy Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700007	24	641
81	Smart supercapacitors with deformable and healable functions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16-30	13	48
80	Photodetectors based on two-dimensional semiconductors: Progress, opportunity and challenge. <i>Chinese Science Bulletin</i> , <b>2017</b> , 62, 3134-3153	2.9	10
79	Multi-heteroatom self-doped porous carbon derived from swim bladders for large capacitance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15006-15014	13	81
78	Booming Development of Group IV-VI Semiconductors: Fresh Blood of 2D Family. <i>Advanced Science</i> , <b>2016</b> , 3, 1600177	13.6	140
77	Towards wafer-size strictly monolayer graphene on copper via cyclic atmospheric chemical vapor deposition. <i>Carbon</i> , <b>2016</b> , 110, 384-389	10.4	9
76	ZnSe nanostructures: Synthesis, properties and applications. <i>Progress in Materials Science</i> , <b>2016</b> , 83, 472-525	42.5	85
75	Chemical Vapor Deposition Synthesis of Ultrathin Hexagonal ReSe Flakes for Anisotropic Raman Property and Optoelectronic Application. <i>Advanced Materials</i> , <b>2016</b> , 28, 8296-8301	24	165

74	Asymmetric Behavior of Positive and Negative Electrodes in Carbon/Carbon Supercapacitors and Its Underlying Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24675-24681	3.8	25
73	Electrical Characteristics: High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn <sub>2</sub> GeO <sub>4</sub> Nanowire (Adv. Funct. Mater. 5/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 804-804	15.6	3
72	Two-dimensional layered nanomaterials for gas-sensing applications. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 433-451	6.8	248
71	Crystal organometal halide perovskites with promising optoelectronic applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 11-27	7.1	133
70	Self-supported Zn <sub>3</sub> P <sub>2</sub> nanowire arrays grafted on carbon fabrics as an advanced integrated anode for flexible lithium ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 8666-72	7.7	57
69	Scalable production of self-supported WS <sub>2</sub> /CNFs by electrospinning as the anode for high-performance lithium-ion batteries. <i>Science Bulletin</i> , <b>2016</b> , 61, 227-235	10.6	68
68	High performance LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode by Al-coating and Al <sup>3+</sup> -doping through a physical vapor deposition method. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 237-246	6.7	58
67	High performance near-infrared photodetectors based on ultrathin SnS nanobelts grown via physical vapor deposition. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2111-2116	7.1	86
66	A High Rate 1.2V Aqueous Sodium-ion Battery Based on All NASICON Structured NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> and Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . <i>Electrochimica Acta</i> , <b>2016</b> , 196, 470-478	6.7	98
65	Ultrafine potassium titanate nanowires: a new Ti-based anode for sodium ion batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 6229-32	5.8	45
64	2D layered group IIIA metal chalcogenides: synthesis, properties and applications in electronics and optoelectronics. <i>CrystEngComm</i> , <b>2016</b> , 18, 3968-3984	3.3	132
63	High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn <sub>2</sub> GeO <sub>4</sub> Nanowire. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 704-712	15.6	136
62	Large-Size Growth of Ultrathin SnS <sub>2</sub> Nanosheets and High Performance for Phototransistors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4405-4413	15.6	216
61	Strain Driven Spectral Broadening of Pb Ion Exchanged CdS Nanowires. <i>Small</i> , <b>2016</b> , 12, 874-81	11	40
60	Functional "Janus" Annulus in Confined Channels. <i>Advanced Materials</i> , <b>2016</b> , 28, 460-5	24	37
59	Flexible Wire-Shaped Supercapacitors in Parallel Double Helix Configuration with Stable Electrochemical Properties under Static/Dynamic Bending. <i>Small</i> , <b>2016</b> , 12, 1024-33	11	75
58	Large-Area Bilayer ReS <sub>2</sub> Film/Multilayer ReS <sub>2</sub> Flakes Synthesized by Chemical Vapor Deposition for High Performance Photodetectors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4551-4560	15.6	162
57	In situ fabrication and investigation of nanostructures and nanodevices with a microscope. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 2694-713	58.5	28

56	Facile synthesis and electrochemical properties of nanoflake VN for supercapacitors. <i>CrystEngComm</i> , <b>2016</b> , 18, 3040-3047	3.3	42
55	Ternary Ta <sub>2</sub> NiSe <sub>5</sub> Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8281-8289	15.6	82
54	Geometry dependent photoconductivity of In <sub>2</sub> S <sub>3</sub> kinks synthesized by kinetically controlled thermal deposition. <i>Nano Research</i> , <b>2016</b> , 9, 3848-3857	10	19
53	One-step synthesis of p-type GaSe nanoribbons and their excellent performance in photodetectors and phototransistors. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 7817-7823	7.1	31
52	Geometry-induced high performance ultraviolet photodetectors in kinked SnO <sub>2</sub> nanowires. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8300-8306	7.1	20
51	Enhancing the performance of Li <sub>3</sub> VO <sub>4</sub> by combining nanotechnology and surface carbon coating for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11253-11260	13	56
50	Layered phosphorus-like GeP <sub>5</sub> : a promising anode candidate with high initial coulombic efficiency and large capacity for lithium ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3629-3636	35.4	143
49	Polar-surface-driven growth of ZnS microsprings with novel optoelectronic properties. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e213-e213	10.3	9
48	Photodetectors: Ultrathin SnSe <sub>2</sub> Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors (Adv. Mater. 48/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 8119-8119	24	6
47	Ultrathin SnSe <sub>2</sub> Flakes Grown by Chemical Vapor Deposition for High-Performance Photodetectors. <i>Advanced Materials</i> , <b>2015</b> , 27, 8035-41	24	369
46	A Fully Transparent and Flexible Ultraviolet/Visible Photodetector Based on Controlled Electrospun ZnO-CdO Heterojunction Nanofiber Arrays. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5885-5894	15.6	146
45	Study on the capacity fading of pristine and FePO <sub>4</sub> coated LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> by Electrochemical and Magnetical techniques. <i>Electrochimica Acta</i> , <b>2014</b> , 148, 26-32	6.7	10
44	Improvement of electrochemical properties of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> by coating with V <sub>2</sub> O <sub>5</sub> layer. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 552, 76-82	5.7	62
43	One-Dimensional Nanostructured Metal Oxides for Lithium Ion Batteries <b>2013</b> , 295-320		1
42	Li <sub>3</sub> VO <sub>4</sub> : A Promising Insertion Anode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 428-432	21.8	188
41	One-dimensional CdS nanostructures: a promising candidate for optoelectronics. <i>Advanced Materials</i> , <b>2013</b> , 25, 3017-37	24	190
40	PEDOT modified LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> with enhanced electrochemical performance for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 374-380	8.9	73
39	Fabrication of vertically aligned single-crystalline lanthanum hexaboride nanowire arrays and investigation of their field emission. <i>NPG Asia Materials</i> , <b>2013</b> , 5, e53-e53	10.3	58

38	Excellent Field-Emission Performances of Neodymium Hexaboride (NdB <sub>6</sub> ) Nanoneedles with Ultra-Low Work Functions. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5038-5048	15.6	47
37	Fabrication of FePO <sub>4</sub> layer coated LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> : Towards high-performance cathode materials for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 83, 253-258	6.7	76
36	An unsymmetrical lithium-ion pathway between charge and discharge processes in a two-phase stage of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 9086-91	3.6	16
35	Revealing the conversion mechanism of CuO nanowires during lithiation-delithiation by in situ transmission electron microscopy. <i>Chemical Communications</i> , <b>2012</b> , 48, 4812-4	5.8	141
34	Enhancing the performances of Li-ion batteries by carbon-coating: present and future. <i>Chemical Communications</i> , <b>2012</b> , 48, 1201-17	5.8	730
33	Hierarchical micro/nano porous silicon Li-ion battery anodes. <i>Chemical Communications</i> , <b>2012</b> , 48, 5079-81	5.8	132
32	CoO octahedral nanocages for high-performance lithium ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 4878-80	5.8	119
31	N-Doped Graphene-SnO <sub>2</sub> Sandwich Paper for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2682-2690	15.6	479
30	Self-stacked Co <sub>3</sub> O <sub>4</sub> nanosheets for high-performance lithium ion batteries. <i>Chemical Communications</i> , <b>2011</b> , 47, 12280-2	5.8	113
29	Single-crystal H <sub>2</sub> V <sub>3</sub> O <sub>8</sub> nanowires: a competitive anode with large capacity for aqueous lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1780-1787		90
28	High-surface vanadium oxides with large capacities for lithium-ion batteries: from hydrated aerogel to nanocrystalline VO <sub>2</sub> (B), V <sub>6</sub> O <sub>13</sub> and V <sub>2</sub> O <sub>5</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10999		143
27	Nano active materials for lithium-ion batteries. <i>Nanoscale</i> , <b>2010</b> , 2, 1294-305	7.7	443
26	A novel rechargeable Li-AgO battery with hybrid electrolytes. <i>Chemical Communications</i> , <b>2010</b> , 46, 2055-7	3.8	21
25	Flowerlike vanadium sesquioxide: solvothermal preparation and electrochemical properties. <i>ChemPhysChem</i> , <b>2010</b> , 11, 3273-80	3.2	34
24	Controllable hydrogen generation from water. <i>ChemSusChem</i> , <b>2010</b> , 3, 571-4	8.3	21
23	The development of a new type of rechargeable batteries based on hybrid electrolytes. <i>ChemSusChem</i> , <b>2010</b> , 3, 1009-19	8.3	78
22	Centimeter-long V <sub>2</sub> O <sub>5</sub> nanowires: from synthesis to field-emission, electrochemical, electrical transport, and photoconductive properties. <i>Advanced Materials</i> , <b>2010</b> , 22, 2547-52	24	312
21	Rechargeable Ni-Li battery integrated aqueous/nonaqueous system. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15098-9	16.4	95

20	A competitive candidate material for aqueous supercapacitors: High surface-area graphite. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 1557-1562	8.9	87
19	Polyallene with pendant nitroxyl radicals. <i>Polymer</i> , <b>2008</b> , 49, 3393-3398	3.9	35
18	Electrochemical properties of an ordered mesoporous carbon prepared by direct tri-constituent co-assembly. <i>Carbon</i> , <b>2007</b> , 45, 2628-2635	10.4	166
17	A study of nitroxide polyradical/activated carbon composite as the positive electrode material for electrochemical hybrid capacitor. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 2153-2157	6.7	36
16	Large-scale synthesis of single-crystal hexagonal tungsten trioxide nanowires and electrochemical lithium intercalation into the nanocrystals. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 98-105	3.3	165
15	An Ordered Mesoporous Carbon with Short Pore Length and Its Electrochemical Performances in Supercapacitor Applications. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A731	3.9	129
14	Ordered Whiskerlike Polyaniline Grown on the Surface of Mesoporous Carbon and Its Electrochemical Capacitance Performance. <i>Advanced Materials</i> , <b>2006</b> , 18, 2619-2623	24	959
13	Easy synthesis and supercapacities of highly ordered mesoporous polyacenes/carbons. <i>Carbon</i> , <b>2006</b> , 44, 1601-1604	10.4	26
12	A hybrid nonaqueous electrochemical supercapacitor using nano-sized iron oxyhydroxide and activated carbon. <i>Journal of Solid State Electrochemistry</i> , <b>2006</b> , 10, 405-410	2.6	53
11	A Hybrid Electrochemical Supercapacitor Based on a 5 V Li-Ion Battery Cathode and Active Carbon. <i>Electrochemical and Solid-State Letters</i> , <b>2005</b> , 8, A433		76
10	Air Sensitivity and Degradation Evolution of Halide Solid State Electrolytes upon Exposure. <i>Advanced Functional Materials</i> , 2108805	15.6	6
9	Polarized Emission of Lanthanide Metal-Organic Framework (Ln-MOF) Crystals for High-Capacity Photonic Barcodes. <i>Advanced Optical Materials</i> , 2102143	8.1	3
8	Schottky Heterojunction Nanosheet Array Achieving High-Current-Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. <i>Advanced Energy Materials</i> , 2102353	21.8	21
7	Single MoTe <sub>2</sub> sheet electrocatalytic microdevice for in situ revealing the activated basal plane sites by vacancies engineering. <i>Nano Research</i> , 1	10	3
6	Ultrathin 2D ternary Bi <sub>2</sub> Te <sub>2</sub> Se flakes for fast-response photodetectors with gate-tunable responsivity. <i>Science China Materials</i> , 1	7.1	1
5	2D ternary vanadium phosphorous chalcogenide with strong in-plane optical anisotropy. <i>Inorganic Chemistry Frontiers</i> ,	6.8	3
4	Foldable high-strength electrode enabled by nanosheet subunits for advanced sodium-ion batteries. <i>Information Materials</i> ,	23.1	1
3	High-sensitivity shortwave infrared photodetectors of metal-organic frameworks integrated on 2D layered materials. <i>Science China Materials</i> , 1	7.1	2

- 2 An anticorrosive zinc metal anode with ultra-long cycle life over one year. *Energy and Environmental Science*, 35.4 15
- 1 Air sensitivity of electrode materials in Li/Na ion batteries: Issues and strategies. *Information Materials*, 23.1 5