

Qiulong Wei

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.

110 papers	8,984 citations	53 h-index	94 g-index
114 ext. papers	10,647 ext. citations	13.3 avg, IF	6.36 L-index

#	Paper	IF	Citations
110	Mo C Nanoparticles Embedded in Carbon Nanowires with Surface Pseudocapacitance Enables High-Energy and High-Power Sodium Ion Capacitors.. <i>Small</i> , 2022 , e2200805	11	1
109	An Ultrahigh-Power Mesocarbon Microbeads Na -diglyme Na V (PO) Sodium-Ion Battery. <i>Advanced Materials</i> , 2021 , e2108304	24	10
108	Amorphous VO : A Pseudocapacitive Platform for High-Rate Symmetric Batteries. <i>Advanced Materials</i> , 2021 , 33, e2103736	24	8
107	Siloxane-Modified, Silica-Based Ionogel as a Pseudosolid Electrolyte for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 154-163	6.1	3
106	Pseudocapacitive Anode Materials toward High-Power Sodium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2021 , 4, 1567	5.6	12
105	Manipulating the Local Electronic Structure in Li-Rich Layered Cathode Towards Superior Electrochemical Performance. <i>Advanced Functional Materials</i> , 2021 , 31, 2100783	15.6	16
104	Carbon decorated Li3V2(PO4)3 for high-rate lithium-ion batteries: Electrochemical performance and charge compensation mechanism. <i>Journal of Energy Chemistry</i> , 2021 , 53, 124-131	12	16
103	Surface pseudocapacitance of mesoporous Mo3N2 nanowire anode toward reversible high-rate sodium-ion storage. <i>Journal of Energy Chemistry</i> , 2021 , 55, 295-303	12	12
102	Revealing the Origin of Highly Efficient Polysulfide Anchoring and Transformation on Anion-Substituted Vanadium Nitride Host. <i>Advanced Functional Materials</i> , 2021 , 31, 2008034	15.6	19
101	Precisely Designed Mesoscopic Titania for High-Volumetric-Density Pseudocapacitance. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14097-14105	16.4	2
100	High-Energy and High-Power Pseudocapacitor-Battery Hybrid Sodium-Ion Capacitor with Na Intercalation Pseudocapacitance Anode. <i>Nano-Micro Letters</i> , 2021 , 13, 55	19.5	19
99	Multielectron Redox and Insulator-to-Metal Transition upon Lithium Insertion in the Fast-Charging, Wadsley-Roth Phase PNb9O25. <i>Chemistry of Materials</i> , 2020 , 32, 4553-4563	9.6	23
98	Stable Ti3+ Defects in Oriented Mesoporous Titania Frameworks for Efficient Photocatalysis. <i>Angewandte Chemie</i> , 2020 , 132, 17829-17836	3.6	8
97	Stable Ti Defects in Oriented Mesoporous Titania Frameworks for Efficient Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17676-17683	16.4	38
96	Reducing polarization of lithium-sulfur batteries via ZnS/reduced graphene oxide accelerated lithium polysulfide conversion. <i>Materials Today Energy</i> , 2020 , 18, 100519	7	25
95	Dihexyl-Substituted Poly(3,4-Propylenedioxythiophene) as a Dual Ionic and Electronic Conductive Cathode Binder for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 9176-9189	9.6	16
94	Pseudocapacitive Vanadium-based Materials toward High-Rate Sodium-Ion Storage. <i>Energy and Environmental Materials</i> , 2020 , 3, 221-234	13	43

93	Activated carbon clothes for wide-voltage high-energy-density aqueous symmetric supercapacitors. <i>Chinese Chemical Letters</i> , 2020 , 31, 1620-1624	8.1	16
92	Achieving high energy density and high power density with pseudocapacitive materials. <i>Nature Reviews Materials</i> , 2020 , 5, 5-19	73.3	542
91	Intercalation pseudocapacitance of FeVO ₄ /H ₂ O nanowires anode for high-energy and high-power sodium-ion capacitor. <i>Nano Energy</i> , 2020 , 73, 104838	17.1	23
90	Two-Dimensional Mesoporous Heterostructure Delivering Superior Pseudocapacitive Sodium Storage via Bottom-Up Monomicelle Assembly. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16755-16762	16.4	56
89	Surface Pseudocapacitive Mechanism of Molybdenum Phosphide for High-Energy and High-Power Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , 2019 , 9, 1900967	21.8	37
88	Strongly Coupled Pyridine-V O /H O Nanowires with Intercalation Pseudocapacitance and Stabilized Layer for High Energy Sodium Ion Capacitors. <i>Small</i> , 2019 , 15, e1900379	11	26
87	Vanadium Oxide Pillared by Interlayer Mg ²⁺ Ions and Water as Ultralong-Life Cathodes for Magnesium-Ion Batteries. <i>Chem</i> , 2019 , 5, 1194-1209	16.2	100
86	Uncovering the Cu-driven electrochemical mechanism of transition metal chalcogenides based electrodes. <i>Energy Storage Materials</i> , 2019 , 16, 625-631	19.4	38
85	Polyol Solvation Effect on Tuning the Universal Growth of Binary Metal Oxide Nanodots@Graphene Oxide Heterostructures for Electrochemical Applications. <i>Chemistry - A European Journal</i> , 2019 , 25, 14604-14612	4.8	2
84	Prussian White Hierarchical Nanotubes with Surface-Controlled Charge Storage for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806405	15.6	75
83	Pseudocapacitive Graphene-Wrapped Porous VO ₂ Microspheres for Ultrastable and Ultrahigh-Rate Sodium-Ion Storage. <i>ChemElectroChem</i> , 2019 , 6, 1400-1406	4.3	2
82	Ultrastable and High-Performance Zn/VO ₂ Battery Based on a Reversible Single-Phase Reaction. <i>Chemistry of Materials</i> , 2019 , 31, 699-706	9.6	139
81	Novel NaTi ₂ (PO ₄) ₃ nanowire clusters as high performance cathodes for Mg-Na hybrid-ion batteries. <i>Nano Energy</i> , 2019 , 55, 526-533	17.1	24
80	Multidimensional Synergistic Nanoarchitecture Exhibiting Highly Stable and Ultrafast Sodium-Ion Storage. <i>Advanced Materials</i> , 2018 , 30, e1707122	24	94
79	Pseudocapacitive layered iron vanadate nanosheets cathode for ultrahigh-rate lithium ion storage. <i>Nano Energy</i> , 2018 , 47, 294-300	17.1	70
78	Novel layered iron vanadate cathode for high-capacity aqueous rechargeable zinc batteries. <i>Chemical Communications</i> , 2018 , 54, 4041-4044	5.8	127
77	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018 , 8, 1800058	21.8	124
76	Sodium Ion Capacitor Using Pseudocapacitive Layered Ferric Vanadate Nanosheets Cathode. <i>IScience</i> , 2018 , 6, 212-221	6.1	53

75	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800848	4.6	276
74	New anatase phase VTi ₂ .6O ₇ .2 ultrafine nanocrystals for high-performance rechargeable magnesium-based batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13901-13907	13	16
73	Water-Lubricated Intercalation in V O \cdot H ₂ O for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. <i>Advanced Materials</i> , 2018 , 30, 1703725	24	725
72	Understanding the electrochemical reaction mechanism of VS ₂ nanosheets in lithium-ion cells by multiple in situ and ex situ x-ray spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 494001	3	10
71	Pseudocapacitive layered birnessite sodium manganese dioxide for high-rate non-aqueous sodium ion capacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12259-12266	13	24
70	Conversion reaction of vanadium sulfide electrode in the lithium-ion cell: Reversible or not reversible?. <i>Nano Energy</i> , 2018 , 51, 391-399	17.1	42
69	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. <i>Advanced Materials</i> , 2017 , 29, 1602300	24	435
68	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. <i>Nature Communications</i> , 2017 , 8, 14264	17.4	452
67	Methyl-functionalized MoS nanosheets with reduced lattice breathing for enhanced pseudocapacitive sodium storage. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13696-13702	3.6	50
66	Pseudocapacitive titanium oxynitride mesoporous nanowires with iso-oriented nanocrystals for ultrahigh-rate sodium ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10827-10835	13	73
65	Thermal Induced Strain Relaxation of 1D Iron Oxide for Solid Electrolyte Interphase Control and Lithium Storage Improvement. <i>Advanced Energy Materials</i> , 2017 , 7, 1601582	21.8	70
64	Energy Storage: Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage (Adv. Mater. 20/2017). <i>Advanced Materials</i> , 2017 , 29,	24	4
63	Robust LiTi ₂ (PO ₄) ₃ microflowers as high-rate and long-life cathodes for Mg-based hybrid-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13950-13956	13	24
62	Facile synthesis of MoO ₂ @C nanoflowers as anode materials for sodium-ion batteries. <i>Materials Research Bulletin</i> , 2017 , 94, 122-126	5.1	16
61	Novel layer-by-layer stacked VS ₂ nanosheets with intercalation pseudocapacitance for high-rate sodium ion charge storage. <i>Nano Energy</i> , 2017 , 35, 396-404	17.1	239
60	Three-dimensional graphene frameworks wrapped Li ₃ V ₂ (PO ₄) ₃ with reversible topotactic sodium-ion storage. <i>Nano Energy</i> , 2017 , 32, 347-352	17.1	44
59	NiSe Nanooctahedra as an Anode Material for High-Rate and Long-Life Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 311-316	9.5	182
58	Mesoporous NiS Nanospheres Anode with Pseudocapacitance for High-Rate and Long-Life Sodium-Ion Battery. <i>Small</i> , 2017 , 13, 1701744	11	121

57	In Operando Probing of Sodium-Incorporation in NASICON Nanomaterial: Asymmetric Reaction and Electrochemical Phase Diagram. <i>Chemistry of Materials</i> , 2017 , 29, 8057-8064	9.6	17
56	Self-adaptive mesoporous CoS@alveolus-like carbon yolk-shell microsphere for alkali cations storage. <i>Nano Energy</i> , 2017 , 41, 109-116	17.1	64
55	Nanoribbons and nanoscrolls intertwined three-dimensional vanadium oxide hydrogels for high-rate lithium storage at high mass loading level. <i>Nano Energy</i> , 2017 , 40, 73-81	17.1	37
54	Greigite FeS as a new anode material for high-performance sodium-ion batteries. <i>Chemical Science</i> , 2017 , 8, 160-164	9.4	99
53	A Crystalline/Amorphous Cobalt(II,III) Oxide Hybrid Electrocatalyst for Lithium-Air Batteries. <i>Energy Technology</i> , 2017 , 5, 568-579	3.5	11
52	Cathodic polarization suppressed sodium-ion full cell with a 3.3 V high-voltage. <i>Nano Energy</i> , 2016 , 28, 216-223	17.1	76
51	Flexible additive free H ₂ V ₃ O ₈ nanowire membrane as cathode for sodium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12074-9	3.6	60
50	Novel layered Li ₃ V ₂ (PO ₄) ₃ /rGO&C sheets as high-rate and long-life lithium ion battery cathodes. <i>Chemical Communications</i> , 2016 , 52, 8730-2	5.8	24
49	Graphene Oxide Templated Growth and Superior Lithium Storage Performance of Novel Hierarchical Co ₂ V ₂ O ₇ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2812-8	9.5	61
48	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. <i>Nano Letters</i> , 2016 , 16, 1523-9	11.5	59
47	Vertically stacked holey graphene/polyaniline heterostructures with enhanced energy storage for on-chip micro-supercapacitors. <i>Nano Research</i> , 2016 , 9, 1012-1021	10	32
46	Facile synthesis of a Co ₃ V ₂ O ₈ interconnected hollow microsphere anode with superior high-rate capability for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5075-5080	13	57
45	3D self-supported nanopine forest-like Co ₃ O ₄ @CoMoO ₄ core-shell architectures for high-energy solid state supercapacitors. <i>Nano Energy</i> , 2016 , 19, 222-233	17.1	262
44	Layer-by-Layer Na ₃ V ₂ (PO ₄) ₃ Embedded in Reduced Graphene Oxide as Superior Rate and Ultralong-Life Sodium-Ion Battery Cathode. <i>Advanced Energy Materials</i> , 2016 , 6, 1600389	21.8	225
43	Improved conductivity and capacitance of interdigital carbon microelectrodes through integration with carbon nanotubes for micro-supercapacitors. <i>Nano Research</i> , 2016 , 9, 2510-2519	10	62
42	A High-Rate V ₂ O ₅ Hollow Microclew Cathode for an All-Vanadium-Based Lithium-Ion Full Cell. <i>Small</i> , 2016 , 12, 1082-90	11	44
41	In operando observation of temperature-dependent phase evolution in lithium-incorporation olivine cathode. <i>Nano Energy</i> , 2016 , 22, 406-413	17.1	24
40	Low-temperature solution-processed p-type vanadium oxide for perovskite solar cells. <i>Chemical Communications</i> , 2016 , 52, 8099-102	5.8	55

39	Hollow spherical $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ built from polyhedra with high-rate performance via carbon nanotube modification. <i>Science China Materials</i> , 2016 , 59, 95-103	7.1	27
38	Graphene wrapped NASICON-type $\text{Fe}_2(\text{MoO}_4)_3$ nanoparticles as a ultra-high rate cathode for sodium ion batteries. <i>Nano Energy</i> , 2016 , 24, 130-138	17.1	49
37	Self-sacrificed synthesis of three-dimensional $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ nanofiber network for high-rate sodium ion full batteries. <i>Nano Energy</i> , 2016 , 25, 145-153	17.1	186
36	Cycling-Stable Cathodes: The Capturing of Ionized Oxygen in Sodium Vanadium Oxide Nanorods Cathodes under Operando Conditions (Adv. Funct. Mater. 36/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6498-6498	15.6	
35	The Capturing of Ionized Oxygen in Sodium Vanadium Oxide Nanorods Cathodes under Operando Conditions. <i>Advanced Functional Materials</i> , 2016 , 26, 6555-6562	15.6	15
34	Carbon-coated hierarchical $\text{NaTi}_2(\text{PO}_4)_3$ mesoporous microflowers with superior sodium storage performance. <i>Nano Energy</i> , 2016 , 28, 224-231	17.1	114
33	Hierarchical zigzag $\text{Na}_{1.25}\text{V}_3\text{O}_8$ nanowires with topotactically encoded superior performance for sodium-ion battery cathodes. <i>Energy and Environmental Science</i> , 2015 , 8, 1267-1275	35.4	141
32	Three-Dimensional $\text{LiMnPO}_4/\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Nanocomposite as a Bicontinuous Cathode for High-Rate and Long-Life Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17527-34	9.5	18
31	Hydrated vanadium pentoxide with superior sodium storage capacity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8070-8075	13	146
30	Integrated SnO_2 nanorod array with polypyrrole coverage for high-rate and long-life lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7619-23	3.6	70
29	Interconnected Nanorods/Nanoflakes $\text{Li}_2\text{Co}_2(\text{MoO}_4)_3$ Framework Structure with Enhanced Electrochemical Properties for Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1500060	21.8	39
28	Mesoporous LiVO/C Submicron-Ellipsoids Supported on Reduced Graphene Oxide as Practical Anode for High-Power Lithium-Ion Batteries. <i>Advanced Science</i> , 2015 , 2, 1500284	13.6	81
27	Facile synthesis of reduced graphene oxide wrapped nickel silicate hierarchical hollow spheres for long-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19427-19432	13	62
26	Lattice Breathing Inhibited Layered Vanadium Oxide Ultrathin Nanobelts for Enhanced Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18211-7	9.5	76
25	Self-template synthesis of hollow shell-controlled Li_3VO_4 as a high-performance anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18839-18842	13	48
24	Vanadium Sulfide on Reduced Graphene Oxide Layer as a Promising Anode for Sodium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20902-8	9.5	171
23	Copper Silicate Hydrate Hollow Spheres Constructed by Nanotubes Encapsulated in Reduced Graphene Oxide as Long-Life Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26572-8	9.5	71
22	Graphene Oxide Wrapped Amorphous Copper Vanadium Oxide with Enhanced Capacitive Behavior for High-Rate and Long-Life Lithium-Ion Battery Anodes. <i>Advanced Science</i> , 2015 , 2, 1500154	13.6	100

21	In Situ Investigation of Li and Na Ion Transport with Single Nanowire Electrochemical Devices. <i>Nano Letters</i> , 2015 , 15, 3879-84	11.5	49
20	Three-dimensional porous V ₂ O ₅ hierarchical octahedrons with adjustable pore architectures for long-life lithium batteries. <i>Nano Research</i> , 2015 , 8, 481-490	10	67
19	Nanoflake-Assembled Hierarchical Na ₃ V ₂ (PO ₄) ₃ /C Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. <i>Advanced Energy Materials</i> , 2015 , 5, 1401963	21.8	144
18	Three-Dimensional Interconnected Vanadium Pentoxide Nanonetwork Cathode for High-Rate Long-Life Lithium Batteries. <i>Small</i> , 2015 , 11, 2654-60	11	52
17	Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage. <i>Advanced Functional Materials</i> , 2015 , 25, 1773-1779	15.6	49
16	Top-down fabrication of three-dimensional porous V ₂ O ₅ hierarchical microplates with tunable porosity for improved lithium battery performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3297-3302 ¹³		72
15	Ultrathin pre-lithiated V ₆ O ₁₃ nanosheet cathodes with enhanced electrical transport and cyclability. <i>Journal of Power Sources</i> , 2014 , 255, 235-241	8.9	67
14	Amorphous vanadium oxide matrixes supporting hierarchical porous Fe ₃ O ₄ /graphene nanowires as a high-rate lithium storage anode. <i>Nano Letters</i> , 2014 , 14, 6250-6	11.5	224
13	Electrochemical Nanowire Devices for Energy Storage. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 10-15	2.6	7
12	A unique hollow Li ₃ VO ₄ /carbon nanotube composite anode for high rate long-life lithium-ion batteries. <i>Nanoscale</i> , 2014 , 6, 11072-7	7.7	77
11	Ultralong H ₂ V ₃ O ₈ nanowire bundles as a promising cathode for lithium batteries. <i>New Journal of Chemistry</i> , 2014 , 38, 2075-2080	3.6	31
10	One-Pot synthesized bicontinuous hierarchical Li ₃ V ₂ (PO ₄) ₃ /C mesoporous nanowires for high-rate and ultralong-life lithium-ion batteries. <i>Nano Letters</i> , 2014 , 14, 1042-8	11.5	216
9	A Bowknot-like RuO ₂ quantum dots@V ₂ O ₅ cathode with largely improved electrochemical performance. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18680-5	3.6	16
8	Hierarchical Carbon Decorated Li ₃ V ₂ (PO ₄) ₃ as a Bicontinuous Cathode with High-Rate Capability and Broad Temperature Adaptability. <i>Advanced Energy Materials</i> , 2014 , 4, 1400107	21.8	65
7	Nanowire Electrodes for Advanced Lithium Batteries. <i>Frontiers in Energy Research</i> , 2014 , 2,	3.8	16
6	Metastable amorphous chromium-vanadium oxide nanoparticles with superior performance as a new lithium battery cathode. <i>Nano Research</i> , 2014 , 7, 1604-1612	10	16
5	Electrodes: Hierarchical Carbon Decorated Li ₃ V ₂ (PO ₄) ₃ as a Bicontinuous Cathode with High-Rate Capability and Broad Temperature Adaptability (Adv. Energy Mater. 16/2014). <i>Advanced Energy Materials</i> , 2014 , 4,	21.8	3
4	Nanoflakes-assembled three-dimensional hollow-porous v ₂ o ₅ as lithium storage cathodes with high-rate capacity. <i>Small</i> , 2014 , 10, 3032-7	11	84

3	Nanoscroll buffered hybrid nanostructural VO ₂ (B) cathodes for high-rate and long-life lithium storage. <i>Advanced Materials</i> , 2013 , 25, 2969-73	24	186
2	Supercritically exfoliated ultrathin vanadium pentoxide nanosheets with high rate capability for lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16828-33	3.6	63
1	Synergistic effect of hierarchical nanostructured MoO ₂ /Co(OH) ₂ with largely enhanced pseudocapacitor cyclability. <i>Nano Letters</i> , 2013 , 13, 5685-91	11.5	171