Qiulong Wei

List of Publications by Citations

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	Water-Lubricated Intercalation in V O nH O for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. *Advanced Materials*, **2018**, 30, 1703725	24	725
109	Achieving high energy density and high power density with pseudocapacitive materials. *Nature Reviews Materials*, **2020**, 5, 5-19	73.3	542
108	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. *Nature Communications*, **2017**, 8, 14264	17.4	452
107	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. *Advanced Materials*, **2017**, 29, 1602300	24	435
106	Ultrathin Surface Coating Enables Stabilized Zinc Metal Anode. *Advanced Materials Interfaces*, **2018**, 5, 1800848	4.6	276
105	3D self-supported nanopine forest-like Co3O4@CoMoO4 core shell architectures for high-energy solid state supercapacitors. *Nano Energy*, **2016**, 19, 222-233	17.1	262
104	Novel layer-by-layer stacked VS2 nanosheets with intercalation pseudocapacitance for high-rate sodium ion charge storage. *Nano Energy*, **2017**, 35, 396-404	17.1	239
103	Layer-by-Layer Na3V2(PO4)3 Embedded in Reduced Graphene Oxide as Superior Rate and Ultralong-Life Sodium-Ion Battery Cathode. *Advanced Energy Materials*, **2016**, 6, 1600389	21.8	225
102	Amorphous vanadium oxide matrixes supporting hierarchical porous Fe3O4/graphene nanowires as a high-rate lithium storage anode. *Nano Letters*, **2014**, 14, 6250-6	11.5	224
101	One-Pot synthesized bicontinuous hierarchical Li3V2(PO4)3/C mesoporous nanowires for high-rate and ultralong-life lithium-ion batteries. *Nano Letters*, **2014**, 14, 1042-8	11.5	216
100	Nanoscroll buffered hybrid nanostructural VO2 (B) cathodes for high-rate and long-life lithium storage. *Advanced Materials*, **2013**, 25, 2969-73	24	186
99	Self-sacrificed synthesis of three-dimensional Na3V2(PO4)3 nanofiber network for high-rate sodium ion full batteries. *Nano Energy*, **2016**, 25, 145-153	17.1	186
98	NiSe Nanooctahedra as an Anode Material for High-Rate and Long-Life Sodium-Ion Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 311-316	9.5	182
97	Vanadium Sulfide on Reduced Graphene Oxide Layer as a Promising Anode for Sodium Ion Battery. *ACS Applied Materials & Interfaces*, **2015**, 7, 20902-8	9.5	171
96	Synergistic effect of hierarchical nanostructured MoO2/Co(OH)2 with largely enhanced pseudocapacitor cyclability. *Nano Letters*, **2013**, 13, 5685-91	11.5	171
95	Hydrated vanadium pentoxide with superior sodium storage capacity. *Journal of Materials Chemistry A*, **2015**, 3, 8070-8075	13	146
94	Nanoflake-Assembled Hierarchical Na3V2(PO4)3/C Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. *Advanced Energy Materials*, **2015**, 5, 1401963	21.8	144

93	Hierarchical zigzag Na1.25V3O8 nanowires with topotactically encoded superior performance for sodium-ion battery cathodes. *Energy and Environmental Science*, **2015**, 8, 1267-1275	35.4	141
92	Ultrastable and High-Performance Zn/VO2 Battery Based on a Reversible Single-Phase Reaction. *Chemistry of Materials*, **2019**, 31, 699-706	9.6	139
91	Novel layered iron vanadate cathode for high-capacity aqueous rechargeable zinc batteries. *Chemical Communications*, **2018**, 54, 4041-4044	5.8	127
90	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. *Advanced Energy Materials*, **2018**, 8, 1800058	21.8	124
89	Mesoporous NiS Nanospheres Anode with Pseudocapacitance for High-Rate and Long-Life Sodium-Ion Battery. *Small*, **2017**, 13, 1701744	11	121
88	Carbon-coated hierarchical NaTi2(PO4)3 mesoporous microflowers with superior sodium storage performance. *Nano Energy*, **2016**, 28, 224-231	17.1	114
87	Vanadium Oxide Pillared by Interlayer Mg2+ Ions and Water as Ultralong-Life Cathodes for Magnesium-Ion Batteries. *CheM*, **2019**, 5, 1194-1209	16.2	100
86	Graphene Oxide Wrapped Amorphous Copper Vanadium Oxide with Enhanced Capacitive Behavior for High-Rate and Long-Life Lithium-Ion Battery Anodes. *Advanced Science*, **2015**, 2, 1500154	13.6	100
85	Greigite FeS as a new anode material for high-performance sodium-ion batteries. *Chemical Science*, **2017**, 8, 160-164	9.4	99
84	Multidimensional Synergistic Nanoarchitecture Exhibiting Highly Stable and Ultrafast Sodium-Ion Storage. *Advanced Materials*, **2018**, 30, e1707122	24	94
83	Nanoflakes-assembled three-dimensional hollow-porous v2 o5 as lithium storage cathodes with high-rate capacity. *Small*, **2014**, 10, 3032-7	11	84
82	Mesoporous LiVO/C Submicron-Ellipsoids Supported on Reduced Graphene Oxide as Practical Anode for High-Power Lithium-Ion Batteries. *Advanced Science*, **2015**, 2, 1500284	13.6	81
81	A unique hollow Li3VO4/carbon nanotube composite anode for high rate long-life lithium-ion batteries. *Nanoscale*, **2014**, 6, 11072-7	7.7	77
80	Lattice Breathing Inhibited Layered Vanadium Oxide Ultrathin Nanobelts for Enhanced Sodium Storage. *ACS Applied Materials & Interfaces*, **2015**, 7, 18211-7	9.5	76
79	Cathodic polarization suppressed sodium-ion full cell with a 3.3 V high-voltage. *Nano Energy*, **2016**, 28, 216-223	17.1	76
78	Prussian White Hierarchical Nanotubes with Surface-Controlled Charge Storage for Sodium-Ion Batteries. *Advanced Functional Materials*, **2019**, 29, 1806405	15.6	75
77	Pseudocapacitive titanium oxynitride mesoporous nanowires with iso-oriented nanocrystals for ultrahigh-rate sodium ion hybrid capacitors. *Journal of Materials Chemistry A*, **2017**, 5, 10827-10835	13	73
76	Top-down fabrication of three-dimensional porous V2O5 hierarchical microplates with tunable porosity for improved lithium battery performance. *Journal of Materials Chemistry A*, **2014**, 2, 3297-3302	13	72

75	Copper Silicate Hydrate Hollow Spheres Constructed by Nanotubes Encapsulated in Reduced Graphene Oxide as Long-Life Lithium-Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2015**, 7, 26572-8	9.5	71
74	Thermal Induced Strain Relaxation of 1D Iron Oxide for Solid Electrolyte Interphase Control and Lithium Storage Improvement. *Advanced Energy Materials*, **2017**, 7, 1601582	21.8	70
73	Integrated SnO2 nanorod array with polypyrrole coverage for high-rate and long-life lithium batteries. *Physical Chemistry Chemical Physics*, **2015**, 17, 7619-23	3.6	70
72	Pseudocapacitive layered iron vanadate nanosheets cathode for ultrahigh-rate lithium ion storage. *Nano Energy*, **2018**, 47, 294-300	17.1	70
71	Ultrathin pre-lithiated V6O13 nanosheet cathodes with enhanced electrical transport and cyclability. *Journal of Power Sources*, **2014**, 255, 235-241	8.9	67
70	Three-dimensional porous V2O5 hierarchical octahedrons with adjustable pore architectures for long-life lithium batteries. *Nano Research*, **2015**, 8, 481-490	10	67
69	Hierarchical Carbon Decorated Li3V2(PO4)3 as a Bicontinuous Cathode with High-Rate Capability and Broad Temperature Adaptability. *Advanced Energy Materials*, **2014**, 4, 1400107	21.8	65
68	Self-adaptive mesoporous CoS@alveolus-like carbon yolk-shell microsphere for alkali cations storage. *Nano Energy*, **2017**, 41, 109-116	17.1	64
67	Supercritically exfoliated ultrathin vanadium pentoxide nanosheets with high rate capability for lithium batteries. *Physical Chemistry Chemical Physics*, **2013**, 15, 16828-33	3.6	63
66	Facile synthesis of reduced graphene oxide wrapped nickel silicate hierarchical hollow spheres for long-life lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 19427-19432	13	62
65	Improved conductivity and capacitance of interdigital carbon microelectrodes through integration with carbon nanotubes for micro-supercapacitors. *Nano Research*, **2016**, 9, 2510-2519	10	62
64	Graphene Oxide Templated Growth and Superior Lithium Storage Performance of Novel Hierarchical Co2V2O7 Nanosheets. *ACS Applied Materials & Interfaces*, **2016**, 8, 2812-8	9.5	61
63	Flexible additive free H2V3O8 nanowire membrane as cathode for sodium ion batteries. *Physical Chemistry Chemical Physics*, **2016**, 18, 12074-9	3.6	60
62	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. *Nano Letters*, **2016**, 16, 1523-9	11.5	59
61	Facile synthesis of a Co3V2O8 interconnected hollow microsphere anode with superior high-rate capability for Li-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 5075-5080	13	57
60	Two-Dimensional Mesoporous Heterostructure Delivering Superior Pseudocapacitive Sodium Storage via Bottom-Up Monomicelle Assembly. *Journal of the American Chemical Society*, **2019**, 141, 16755-16762	16.4	56
59	Low-temperature solution-processed p-type vanadium oxide for perovskite solar cells. *Chemical Communications*, **2016**, 52, 8099-102	5.8	55
58	Sodium Ion Capacitor Using Pseudocapacitive Layered Ferric Vanadate Nanosheets Cathode. *IScience*, **2018**, 6, 212-221	6.1	53

57	Three-Dimensional Interconnected Vanadium Pentoxide Nanonetwork Cathode for High-Rate Long-Life Lithium Batteries. *Small*, **2015**, 11, 2654-60	11	52
56	Methyl-functionalized MoS nanosheets with reduced lattice breathing for enhanced pseudocapacitive sodium storage. *Physical Chemistry Chemical Physics*, **2017**, 19, 13696-13702	3.6	50
55	In Situ Investigation of Li and Na Ion Transport with Single Nanowire Electrochemical Devices. *Nano Letters*, **2015**, 15, 3879-84	11.5	49
54	Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage. *Advanced Functional Materials*, **2015**, 25, 1773-1779	15.6	49
53	Graphene wrapped NASICON-type Fe2(MoO4)3 nanoparticles as a ultra-high rate cathode for sodium ion batteries. *Nano Energy*, **2016**, 24, 130-138	17.1	49
52	Self-template synthesis of hollow shell-controlled Li3VO4 as a high-performance anode for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 18839-18842	13	48
51	Three-dimensional graphene frameworks wrapped Li3V2(PO4)3 with reversible topotactic sodium-ion storage. *Nano Energy*, **2017**, 32, 347-352	17.1	44
50	A High-Rate V2 O5 Hollow Microclew Cathode for an All-Vanadium-Based Lithium-Ion Full Cell. *Small*, **2016**, 12, 1082-90	11	44
49	Pseudocapacitive Vanadium-based Materials toward High-Rate Sodium-Ion Storage. *Energy and Environmental Materials*, **2020**, 3, 221-234	13	43
48	Conversion reaction of vanadium sulfide electrode in the lithium-ion cell: Reversible or not reversible?. *Nano Energy*, **2018**, 51, 391-399	17.1	42
47	Interconnected Nanorods□Nanoflakes Li2Co2(MoO4)3 Framework Structure with Enhanced Electrochemical Properties for Supercapacitors. *Advanced Energy Materials*, **2015**, 5, 1500060	21.8	39
46	Stable Ti Defects in Oriented Mesoporous Titania Frameworks for Efficient Photocatalysis. *Angewandte Chemie - International Edition*, **2020**, 59, 17676-17683	16.4	38
45	Uncovering the Cu-driven electrochemical mechanism of transition metal chalcogenides based electrodes. *Energy Storage Materials*, **2019**, 16, 625-631	19.4	38
44	Surface Pseudocapacitive Mechanism of Molybdenum Phosphide for High-Energy and High-Power Sodium-Ion Capacitors. *Advanced Energy Materials*, **2019**, 9, 1900967	21.8	37
43	Nanoribbons and nanoscrolls intertwined three-dimensional vanadium oxide hydrogels for high-rate lithium storage at high mass loading level. *Nano Energy*, **2017**, 40, 73-81	17.1	37
42	Vertically stacked holey graphene/polyaniline heterostructures with enhanced energy storage for on-chip micro-supercapacitors. *Nano Research*, **2016**, 9, 1012-1021	10	32
41	Ultralong H2V3O8 nanowire bundles as a promising cathode for lithium batteries. *New Journal of Chemistry*, **2014**, 38, 2075-2080	3.6	31
40	Hollow spherical LiNi0.5Mn1.5O4 built from polyhedra with high-rate performance via carbon nanotube modification. *Science China Materials*, **2016**, 59, 95-103	7.1	27

39	Strongly Coupled Pyridine-V O hH O Nanowires with Intercalation Pseudocapacitance and Stabilized Layer for High Energy Sodium Ion Capacitors. *Small*, **2019**, 15, e1900379	11	26
38	Reducing polarization of lithium-sulfur batteries via ZnS/reduced graphene oxide accelerated lithium polysulfide conversion. *Materials Today Energy*, **2020**, 18, 100519	7	25
37	Robust LiTi2(PO4)3 microflowers as high-rate and long-life cathodes for Mg-based hybrid-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 13950-13956	13	24
36	Novel layered Li3V2(PO4)3/rGO&C sheets as high-rate and long-life lithium ion battery cathodes. *Chemical Communications*, **2016**, 52, 8730-2	5.8	24
35	In operando observation of temperature-dependent phase evolution in lithium-incorporation olivine cathode. *Nano Energy*, **2016**, 22, 406-413	17.1	24
34	Novel NaTi2(PO4)3 nanowire clusters as high performance cathodes for Mg-Na hybrid-ion batteries. *Nano Energy*, **2019**, 55, 526-533	17.1	24
33	Pseudocapacitive layered birnessite sodium manganese dioxide for high-rate non-aqueous sodium ion capacitors. *Journal of Materials Chemistry A*, **2018**, 6, 12259-12266	13	24
32	Multielectron Redox and Insulator-to-Metal Transition upon Lithium Insertion in the Fast-Charging, Wadsley-Roth Phase PNb9O25. *Chemistry of Materials*, **2020**, 32, 4553-4563	9.6	23
31	Intercalation pseudocapacitance of FeVO4hH2O nanowires anode for high-energy and high-power sodium-ion capacitor. *Nano Energy*, **2020**, 73, 104838	17.1	23
30	Revealing the Origin of Highly Efficient Polysulfide Anchoring and Transformation on Anion-Substituted Vanadium Nitride Host. *Advanced Functional Materials*, **2021**, 31, 2008034	15.6	19
29	High-Energy and High-Power Pseudocapacitor-Battery Hybrid Sodium-Ion Capacitor with Na Intercalation Pseudocapacitance Anode. *Nano-Micro Letters*, **2021**, 13, 55	19.5	19
28	Three-Dimensional LiMnPO4Li3V2(PO4)3/C Nanocomposite as a Bicontinuous Cathode for High-Rate and Long-Life Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 17527-34	9.5	18
27	In Operando Probing of Sodium-Incorporation in NASICON Nanomaterial: Asymmetric Reaction and Electrochemical Phase Diagram. *Chemistry of Materials*, **2017**, 29, 8057-8064	9.6	17
26	Facile synthesis of MoO 2 @C nanoflowers as anode materials for sodium-ion batteries. *Materials Research Bulletin*, **2017**, 94, 122-126	5.1	16
25	New anatase phase VTi2.6O7.2 ultrafine nanocrystals for high-performance rechargeable magnesium-based batteries. *Journal of Materials Chemistry A*, **2018**, 6, 13901-13907	13	16
24	A Bowknot-like RuO2 quantum dots@V2O5 cathode with largely improved electrochemical performance. *Physical Chemistry Chemical Physics*, **2014**, 16, 18680-5	3.6	16
23	Nanowire Electrodes for Advanced Lithium Batteries. *Frontiers in Energy Research*, **2014**, 2,	3.8	16
22	Metastable amorphous chromium-vanadium oxide nanoparticles with superior performance as a new lithium battery cathode. *Nano Research*, **2014**, 7, 1604-1612	10	16

21	Dihexyl-Substituted Poly(3,4-Propylenedioxythiophene) as a Dual Ionic and Electronic Conductive Cathode Binder for Lithium-Ion Batteries. *Chemistry of Materials*, **2020**, 32, 9176-9189	9.6	16
20	Manipulating the Local Electronic Structure in Li-Rich Layered Cathode Towards Superior Electrochemical Performance. *Advanced Functional Materials*, **2021**, 31, 2100783	15.6	16
19	Activated carbon clothes for wide-voltage high-energy-density aqueous symmetric supercapacitors. *Chinese Chemical Letters*, **2020**, 31, 1620-1624	8.1	16
18	Carbon decorated Li3V2(PO4)3 for high-rate lithium-ion batteries: Electrochemical performance and charge compensation mechanism. *Journal of Energy Chemistry*, **2021**, 53, 124-131	12	16
17	The Capturing of Ionized Oxygen in Sodium Vanadium Oxide Nanorods Cathodes under Operando Conditions. *Advanced Functional Materials*, **2016**, 26, 6555-6562	15.6	15
16	Pseudocapacitive Anode Materials toward High-Power Sodium-Ion Capacitors. *Batteries and Supercaps*, **2021**, 4, 1567	5.6	12
15	Surface pseudocapacitance of mesoporous Mo3N2 nanowire anode toward reversible high-rate sodium-ion storage. *Journal of Energy Chemistry*, **2021**, 55, 295-303	12	12
14	A Crystalline/Amorphous Cobalt(II,III) Oxide Hybrid Electrocatalyst for Lithium□Air Batteries. *Energy Technology*, **2017**, 5, 568-579	3.5	11
13	An Ultrahigh-Power Mesocarbon Microbeads|Na -diglyme|Na V (PO) Sodium-Ion Battery. *Advanced Materials*, **2021**, e2108304	24	10
12	Understanding the electrochemical reaction mechanism of VS2 nanosheets in lithium-ion cells by multiple in situ and ex situ x-ray spectroscopy. *Journal Physics D: Applied Physics*, **2018**, 51, 494001	3	10
11	Stable Ti3+ Defects in Oriented Mesoporous Titania Frameworks for Efficient Photocatalysis. *Angewandte Chemie*, **2020**, 132, 17829-17836	3.6	8
10	Amorphous VO : A Pseudocapacitive Platform for High-Rate Symmetric Batteries. *Advanced Materials*, **2021**, 33, e2103736	24	8
9	Electrochemical Nanowire Devices for Energy Storage. *IEEE Nanotechnology Magazine*, **2014**, 13, 10-15	2.6	7
8	Energy Storage: Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage (Adv. Mater. 20/2017). *Advanced Materials*, **2017**, 29,	24	4
7	Electrodes: Hierarchical Carbon Decorated Li3V2(PO4)3 as a Bicontinuous Cathode with High-Rate Capability and Broad Temperature Adaptability (Adv. Energy Mater. 16/2014). *Advanced Energy Materials*, **2014**, 4,	21.8	3
6	Siloxane-Modified, Silica-Based Ionogel as a Pseudosolid Electrolyte for Sodium-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 154-163	6.1	3
5	Polyol Solvation Effect on Tuning the Universal Growth of Binary Metal Oxide Nanodots@Graphene Oxide Heterostructures for Electrochemical Applications. *Chemistry - A European Journal*, **2019**, 25, 14604-14612	4.8	2
4	Pseudocapacitive Graphene-Wrapped Porous VO2 Microspheres for Ultrastable and Ultrahigh-Rate Sodium-Ion Storage. *ChemElectroChem*, **2019**, 6, 1400-1406	4.3	2

3	Precisely Designed Mesoscopic Titania for High-Volumetric-Density Pseudocapacitance. *Journal of the American Chemical Society*, **2021**, 143, 14097-14105	16.4	2
2	Mo C Nanoparticles Embedded in Carbon Nanowires with Surface Pseudocapacitance Enables High-Energy and High-Power Sodium Ion Capacitors.. *Small*, **2022**, e2200805	11	1
1	Cycling-Stable Cathodes: The Capturing of Ionized Oxygen in Sodium Vanadium Oxide Nanorods Cathodes under Operando Conditions (Adv. Funct. Mater. 36/2016). *Advanced Functional Materials*, **2016**, 26, 6498-6498	15.6	