

# Chengliang Wang

## List of Publications by Citations

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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.

92 papers	7,432 citations	37 h-index	86 g-index
104 ext. papers	8,784 ext. citations	12.6 avg, IF	6.4 L-index

#	Paper	IF	Citations
92	Semiconducting $\pi$ -conjugated systems in field-effect transistors: a material odyssey of organic electronics. <i>Chemical Reviews</i> , <b>2012</b> , 112, 2208-67	68.1	2738
91	Organic semiconductor crystals. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 422-500	58.5	429
90	High performance organic semiconductors for field-effect transistors. <i>Chemical Communications</i> , <b>2010</b> , 46, 5211-22	5.8	285
89	Extended $\pi$ -conjugated system for fast-charge and -discharge sodium-ion batteries. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3124-30	16.4	275
88	Photoelectrodes based upon Mo:BiVO <sub>4</sub> inverse opals for photoelectrochemical water splitting. <i>ACS Nano</i> , <b>2014</b> , 8, 7088-98	16.7	252
87	Large-scale highly ordered Sb nanorod array anodes with high capacity and rate capability for sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2954-2962	35.4	246
86	Emerging in-plane anisotropic two-dimensional materials. <i>Information Materials</i> , <b>2019</b> , 1, 54-73	23.1	175
85	Enhancement of Sodium Ion Battery Performance Enabled by Oxygen Vacancies. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8768-71	16.4	150
84	Tailoring $\pi$ -conjugated systems: From $\pi$ -stacking to high-rate-performance organic cathodes. <i>Chem</i> , <b>2018</b> , 4, 2600-2614	16.2	134
83	Highly Ordered Three-Dimensional Ni-TiO <sub>2</sub> Nanoarrays as Sodium Ion Battery Anodes. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4274-4280	9.6	124
82	High performance supercapacitor for efficient energy storage under extreme environmental temperatures. <i>Nano Energy</i> , <b>2014</b> , 8, 231-237	17.1	118
81	Manipulation of Disodium Rhodizonate: Factors for Fast-Charge and Fast-Discharge Sodium-Ion Batteries with Long-Term Cyclability. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1777-1786	15.6	117
80	An organic cathode with high capacities for fast-charge potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 486-492	13	106
79	High-performance graphene devices on SiO <sub>2</sub> /Si substrate modified by highly ordered self-assembled monolayers. <i>Advanced Materials</i> , <b>2011</b> , 23, 2464-8	24	93
78	Self-supported metallic nanopore arrays with highly oriented nanoporous structures as ideally nanostructured electrodes for supercapacitor applications. <i>Advanced Materials</i> , <b>2014</b> , 26, 7654-9	24	89
77	Cruciforms: Assembling Single Crystal Micro- and Nanostructures from One to Three Dimensions and Their Applications in Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2840-2845	9.6	89
76	Amorphous TiO <sub>2</sub> inverse opal anode for high-rate sodium ion batteries. <i>Nano Energy</i> , <b>2017</b> , 31, 514-524	17.1	85

75	A One-Dimensional $\pi$ -Conjugated Coordination Polymer for Sodium Storage with Catalytic Activity in Negishi Coupling. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14731-14739	16.4	81
74	Constructing Universal Ionic Sieves via Alignment of Two-Dimensional Covalent Organic Frameworks (COFs). <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16072-16076	16.4	81
73	Oxygen vacancies: Effective strategy to boost sodium storage of amorphous electrode materials. <i>Nano Energy</i> , <b>2017</b> , 38, 304-312	17.1	70
72	Redox polymers for rechargeable metal-ion batteries. <i>EnergyChem</i> , <b>2020</b> , 2, 100030	36.9	69
71	Dibenzothiophene Derivatives: From Herringbone to Lamellar Packing Motif. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 4155-4160	3.5	69
70	Designing High Performance Organic Batteries. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 2636-2647	24.3	67
69	Cost-effective atomic layer deposition synthesis of Pt nanotube arrays: application for high performance supercapacitor. <i>Small</i> , <b>2014</b> , 10, 3162-8	11	65
68	Carbonyl polymeric electrode materials for metal-ion batteries. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 232-244	24.4	61
67	A Selectively Permeable Membrane for Enhancing Cyclability of Organic Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 9182-9187	24	59
66	Graphene and graphene oxide nanogap electrodes fabricated by atomic force microscopy nanolithography. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 133301	3.4	57
65	Low-voltage organic field-effect transistors (OFETs) with solution-processed metal-oxide as gate dielectric. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 4662-7	9.5	57
64	Recent progress in solid-state electrolytes for alkali-ion batteries. <i>Science Bulletin</i> , <b>2017</b> , 62, 1473-1490	10.6	51
63	Organic single crystal field-effect transistors based on 6H-pyrrolo[3,2-b:4,5-b']bis[1,4]benzothiazine and its derivatives. <i>Advanced Materials</i> , <b>2010</b> , 22, 2458-62	24	48
62	Large $\pi$ -Conjugated Porous Frameworks as Cathodes for Sodium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3205-3211	6.4	48
61	Nanoengineering Energy Conversion and Storage Devices via Atomic Layer Deposition. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600468	21.8	46
60	Single crystal n-channel field effect transistors from solution-processed silylethynylated tetraazapentacene. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15201		46
59	Biphase micro/nanometer sized single crystals of organic semiconductors: Control synthesis and their strong phase dependent optoelectronic properties. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 143302	3.4	44
58	Understanding the Orderliness of Atomic Arrangement toward Enhanced Sodium Storage. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600448	21.8	40

57	New type of organic semiconductors for field-effect transistors with carbon-carbon triple bonds. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1477		39
56	Small amount COFs enhancing storage of large anions. <i>Energy Storage Materials</i> , <b>2020</b> , 27, 35-42	19.4	38
55	A highly conductive conjugated coordination polymer for fast-charge sodium-ion batteries: reconsidering its structures. <i>Chemical Communications</i> , <b>2019</b> , 55, 10856-10859	5.8	36
54	Facile Transferring of Wafer-Scale Ultrathin Alumina Membranes onto Substrates for Nanostructure Patterning. <i>ACS Nano</i> , <b>2015</b> , 9, 8584-91	16.7	35
53	Regulating the Solvation Sheath of Li Ions by Using Hydrogen Bonds for Highly Stable Lithium-Metal Anodes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10871-10879	16.4	35
52	Capacitive conjugated ladder polymers for fast-charge and -discharge sodium-ion batteries and hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20891-20898	13	33
51	Emerging organic potassium-ion batteries: electrodes and electrolytes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15547-15574	13	31
50	Hierarchical Sb-Ni nanoarrays as robust binder-free anodes for high-performance sodium-ion half and full cells. <i>Nano Research</i> , <b>2017</b> , 10, 3189-3201	10	31
49	Weak Intermolecular Interactions for Strengthening Organic Batteries. <i>Energy and Environmental Materials</i> , <b>2020</b> , 3, 441-452	13	30
48	Graphene/metal contacts: bistable states and novel memory devices. <i>Advanced Materials</i> , <b>2012</b> , 24, 2614-2619	24	30
47	Toward Stable Lithium Plating/Stripping by Successive Desolvation and Exclusive Transport of Li Ions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10461-10470	9.5	27
46	Intertwined Cu <sub>3</sub> V <sub>2</sub> O <sub>7</sub> (OH) <sub>2</sub> ·2H <sub>2</sub> O nanowires/carbon fibers composite: A new anode with high rate capability for sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 294, 193-200	8.9	25
45	A One-Dimensional $\pi$ -Conjugated Coordination Polymer for Sodium Storage with Catalytic Activity in Negishi Coupling. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14873-14881	3.6	25
44	Development of organic field-effect properties by introducing aryl-acetylene into benzodithiophene. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 10931		24
43	Size control of zwitterionic polymer micro/nanospheres and its dependence on sodium storage. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1092-1098	10.8	21
42	Enhancement of Sodium Ion Battery Performance Enabled by Oxygen Vacancies. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8892-8895	3.6	21
41	Langmuir-Blodgett monolayer transistors of copper phthalocyanine. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 033304	3.4	21
40	The chemical states of conjugated coordination polymers. <i>Chem</i> , <b>2021</b> , 7, 1224-1243	16.2	21

39	Synchronous Formation of ZnO/ZnS Core/Shell Nanotube Arrays with Removal of Template for Meliorating Photoelectronic Performance. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1575-1582	3.8	20
38	Dibenzo[b,d]thiophene based oligomers with carbon-carbon unsaturated bonds for high performance field-effect transistors. <i>Organic Electronics</i> , <b>2010</b> , 11, 544-551	3.5	19
37	Synergistic effect of organic plasticizer and lepidolite filler on polymer electrolytes for all-solid high-voltage Li-metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5968-5974	13	18
36	Symmetry-Reduction Enhanced Polarization-Sensitive Photodetection in Core-Shell SbI/Sb <sub>2</sub> O <sub>3</sub> van der Waals Heterostructure. <i>Small</i> , <b>2020</b> , 16, e1907172	11	18
35	Highly-Ordered 3D Vertical Resistive Switching Memory Arrays with Ultralow Power Consumption and Ultrahigh Density. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23348-55	9.5	17
34	A 2D Layered Natural Ore as a Novel Solid-State Electrolyte. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5909-5916	6.1	17
33	Growth control of AgTCNQ nanowire arrays by using a template-assisted electro-deposition method. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 8003	7.1	15
32	A branched dihydrophenazine-based polymer as a cathode material to achieve dual-ion batteries with high energy and power density. <i>EScience</i> , <b>2021</b> ,		15
31	Syntheses and properties of cyano and dicyanovinyl-substituted oligomers as organic semiconductors. <i>Synthetic Metals</i> , <b>2009</b> , 159, 1298-1301	3.6	14
30	2D Materials as Ionic Sieves for Inhibiting the Shuttle Effect in Batteries. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 2294-2302	4.5	13
29	Two-dimensional Organic Supramolecule via Hydrogen Bonding and $\pi$ -Stacking for Ultrahigh Capacity and Long-Life Aqueous Zinc-Organic Batteries.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	12
28	Recent progress in organic electrodes for zinc-ion batteries. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 091704-3	4.3	12
27	Conjugated Coordination Polymers as Electrodes for Rechargeable Batteries. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 1947-1958	4	12
26	Successive Storage of Cations and Anions by Ligands of Ed-Conjugated Coordination Polymers Enabling Robust Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18769-18776	16.4	12
25	Branched conjugated polymers for fast capacitive storage of sodium ions. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23851-23856	13	11
24	Constructing Universal Ionic Sieves via Alignment of Two-Dimensional Covalent Organic Frameworks (COFs). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16304-16308	3.6	11
23	Free-standing protective films for enhancing the cyclability of organic batteries. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 142-147	5.8	10
22	Zooming in the Detailed Electrochemical Process of Disodium Rhodizonate. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 21185-21191	3.8	10

21	Non-conjugated diketone as a linkage for enhancing the rate performance of poly(perylenediimides). <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 19283-19289	13	9
20	Electrolyte additives: Adding the stability of lithium metal anodes. <i>Nano Select</i> , <b>2021</b> , 2, 16-36	3.1	9
19	Vectorial diffusion for facile solution-processed self-assembly of insoluble semiconductors: a case study on metal phthalocyanines. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 10990-5	4.8	7
18	Regulating the Solvation Sheath of Li Ions by Using Hydrogen Bonds for Highly Stable Lithium Metal Anodes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10966-10974	3.6	7
17	Organic single crystals or crystalline micro/nanostructures: Preparation and field-effect transistor applications. <i>Science China Chemistry</i> , <b>2010</b> , 53, 1225-1234	7.9	6
16	Syntheses of molecular wires containing redox center: Reversible redox property and good energy level matching with Au electrode. <i>Chinese Chemical Letters</i> , <b>2008</b> , 19, 1285-1289	8.1	6
15	Regulating the metal nodes of 1D conjugated coordination polymers for enhancing the performance of sodium-ion batteries. <i>Journal of Materials Chemistry C</i> ,	7.1	5
14	Super-linear rectifying property of rubrene single crystal devices. <i>Organic Electronics</i> , <b>2011</b> , 12, 1731-1735	35	4
13	Heterochelation boosts sodium storage in $\pi$ -conjugated coordination polymers. <i>Energy and Environmental Science</i> ,	35.4	4
12	Organic/Polymeric Field-Effect Transistors <b>2013</b> , 95-170		3
11	A new pseudo rubrene analogue with excellent film forming ability. <i>Science China Chemistry</i> , <b>2011</b> , 54, 631-635	7.9	3
10	Perspectives of ionic covalent organic frameworks for rechargeable batteries. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 458, 214431	23.2	3
9	Synchronous sulfurization and carbonization using sulfur-rich metal-organic frameworks for fast-charge sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 478, 228778	8.9	3
8	Diradicals or Zwitterions: The Chemical States of $m$ -Benzoquinone and Structural Variation after Storage of Li Ions. <i>CCS Chemistry</i> , 2812-2825	7.2	3
7	Challenges and Perspectives of Organic Multivalent Metal-ion Batteries.. <i>Advanced Materials</i> , <b>2022</b> , e220662	20.6	2
6	Manipulation of Graphene Properties by Interface Engineering. <i>ECS Transactions</i> , <b>2011</b> , 37, 133-139	1	1
5	Ultrathin annealing-free polymer layers: new opportunity to enhance mobility and stability of low-voltage thin-film organic transistors. <i>RSC Advances</i> , <b>2016</b> , 6, 51264-51269	3.7	1
4	Successive Storage of Cations and Anions by Ligands of $\pi$ -Conjugated Coordination Polymers Enabling Robust Sodium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18917-18924	3.6	1

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| 3 | 2D Silicate Materials for Composite Polymer Electrolytes. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 2842-2851                        | 4.5 | 1 |
| 2 | Storing Mg Ions in Polymers: A Perspective.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2200198                                   | 4.8 | 1 |
| 1 | P-N Junction Formation in Electron-beam Irradiated Graphene Step. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1407, 224 |     |   |