

# Qinghua Liang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/469416/qinghua-liang-publications-by-year.pdf>

**Version:** 2024-04-25

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.

95  
papers

5,725  
citations

40  
h-index

75  
g-index

100  
ext. papers

7,186  
ext. citations

11.4  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
95	Localized Electron Density Redistribution in Fluorophosphate Cathode: Dangling Anion Regulation and Enhanced Na-Ion Diffusivity for Sodium-Ion Batteries (Adv. Funct. Mater. 4/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270027	15.6	
94	Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	9
93	Tube wall delamination engineering induces photogenerated carrier separation to achieve photocatalytic performance improvement of tubular g-CN. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127177	12.8	17
92	Co/Co <sub>3</sub> O <sub>4</sub> nanoparticles embedded into thin O-doped graphitic layer as bifunctional oxygen electrocatalysts for Zn-air batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130931	14.7	9
91	Harnessing the 2D Structure-Enabled Viscoelasticity of Graphene-Based Hydrogel Membranes for Chronic Neural Interfacing.. <i>Small Methods</i> , <b>2022</b> , e2200022	12.8	1
90	Carbon nanotube-based materials for persulfate activation to degrade organic contaminants: Properties, mechanisms and modification insights.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 431, 128536	12.8	3
89	Layered double hydroxide based materials applied in persulfate based advanced oxidation processes: Property, mechanism, application and perspectives. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 424, 127612	12.8	6
88	Construction of BiWO <sub>4</sub> /CoAl-LDHs S-scheme heterojunction with efficient photo-Fenton-like catalytic performance: Experimental and theoretical studies. <i>Chemosphere</i> , <b>2021</b> , 291, 133001	8.4	1
87	Advances in preparation, mechanism and applications of graphene quantum dots/semiconductor composite photocatalysts: A review. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 424, 127721	12.8	4
86	Integrated Porous Cu Host Induced High-Stable Bidirectional Li Plating/Stripping Behavior for Practical Li Metal Batteries. <i>Small</i> , <b>2021</b> , e2105999	11	4
85	Deeply Cyclable and Ultrahigh-Rate Lithium Metal Anodes Enabled by Coaxial Nano-chamber Heterojunction on Carbon Nanofibers. <i>Advanced Science</i> , <b>2021</b> , 8, e2101940	13.6	2
84	The Passive Effect of MXene on Electrocatalysis: A Case of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /CoNi-MOF nanosheets for Oxygen Evolution Reaction. <i>ChemNanoMat</i> , <b>2021</b> , 7, 539-544	3.5	6
83	Multilayer Porous Vanadium Nitride Microsheets Anodes for Highly Stable Na-ion Batteries. <i>Chemical Research in Chinese Universities</i> , <b>2021</b> , 37, 286-292	2.2	1
82	Deep Eutectic Solvents for Boosting Electrochemical Energy Storage and Conversion: A Review and Perspective. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2011102	15.6	54
81	Microwave-assisted high-efficiency degradation of methyl orange by using CuFeO/CNT catalysts and insight into degradation mechanism. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 42683-42693	5.1	2
80	In-situ self-assembly construction of hollow tubular g-CN isotype heterojunction for enhanced visible-light photocatalysis: Experiments and theories. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123355	12.8	83
79	Recent advances of melamine self-assembled graphitic carbon nitride-based materials: Design, synthesis and application in energy and environment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126951	14.7	60

78	A Fishing-Net-Like 3D Host for Robust and Ultrahigh-Rate Lithium Metal Anodes. <i>Small</i> , <b>2021</b> , 17, e2007231	3
77	Activating localized lattice oxygen for durable acidic water oxidation. <i>Chem Catalysis</i> , <b>2021</b> , 1, 506-508	3
76	Ni nanoparticles/V4C3Tx MXene heterostructures for electrocatalytic nitrogen fixation. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 2338-2346	7.8 10
75	Beneficial restacking of 2D nanomaterials for electrocatalysis: a case of MoS membranes. <i>Chemical Communications</i> , <b>2020</b> , 56, 7005-7008	5.8 12
74	A Triple-Gradient Host for Long Cycling Lithium Metal Anodes at Ultrahigh Current Density. <i>Small</i> , <b>2020</b> , 16, e2001992	11 8
73	Recent advances in conjugated microporous polymers for photocatalysis: designs, applications, and prospects. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6434-6470	13 67
72	Ultrathin Amorphous Nickel Doped Cobalt Phosphates with Highly Ordered Mesoporous Structures as Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Small</i> , <b>2020</b> , 16, e1906766	11 34
71	Two-dimensional transition metal carbide and nitride (MXene) derived quantum dots (QDs): synthesis, properties, applications and prospects. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7508-7535	13 95
70	Ti3C2Tx MXene decorated black phosphorus nanosheets with improved visible-light photocatalytic activity: experimental and theoretical studies. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5171-5185	13 94
69	Solvation-Involved Nanoionics: New Opportunities from 2D Nanomaterial Lamina Membranes. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904562	24 30
68	Constructing a High-Strength Solid Electrolyte Layer by In Vivo Alloying with Aluminum for an Ultrahigh-Rate Lithium Metal Anode. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907343	15.6 53
67	Advances in the application, toxicity and degradation of carbon nanomaterials in environment: A review. <i>Environment International</i> , <b>2020</b> , 134, 105298	12.9 152
66	Lithium Metal Anodes: A Triple-Gradient Host for Long Cycling Lithium Metal Anodes at Ultrahigh Current Density (Small 30/2020). <i>Small</i> , <b>2020</b> , 16, 2070167	11
65	Highly Elastic Binders Incorporated with Helical Molecules to Improve the Electrochemical Stability of Black Phosphorous Anodes for Sodium-Ion Batteries. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 101-107	5.6 5
64	Nanostructured metallic transition metal carbides, nitrides, phosphides, and borides for energy storage and conversion. <i>Nano Today</i> , <b>2019</b> , 25, 99-121	17.9 173
63	Inverse opal manganese dioxide constructed by few-layered ultrathin nanosheets as high-performance cathodes for aqueous zinc-ion batteries. <i>Nano Research</i> , <b>2019</b> , 12, 1347-1353	10 62
62	Synergy of Nb Doping and Surface Alloy Enhanced on Water-Alkali Electrocatalytic Hydrogen Generation Performance in Ti-Based MXene. <i>Advanced Science</i> , <b>2019</b> , 6, 1900116	13.6 43
61	Metal Organic Frameworks as Robust Host of Palladium Nanoparticles in Heterogeneous Catalysis: Synthesis, Application, and Prospect. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32579-32598	9.5 62

60	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , <b>2019</b> , 13, 7975-7984	16.7	104
59	High Thermoelectric Performance in Polycrystalline SnSe Via Dual-Doping with Ag/Na and Nanostructuring With Ag <sub>8</sub> SnSe <sub>6</sub> . <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803072	21.8	64
58	Graphitic Carbon Nitride Induced Micro-Electric Field for Dendrite-Free Lithium Metal Anodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803186	21.8	106
57	Scalable synthesis of a foam-like FeS nanostructure by a solution combustion-sulfurization process for high-capacity sodium-ion batteries. <i>Nanoscale</i> , <b>2018</b> , 11, 178-184	7.7	27
56	Catalyzing polysulfide conversion by g-C <sub>3</sub> N <sub>4</sub> in a graphene network for long-life lithium-sulfur batteries. <i>Nano Research</i> , <b>2018</b> , 11, 3480-3489	10	77
55	Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , <b>2018</b> , 47, 257-265	17.1	88
54	Sodium Ion Capacitors: The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors (Adv. Energy Mater. 11/2018). <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1870050	21.8	
53	The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702395	21.8	55
52	Enhancement of the thermoelectric performance of CuInTe <sub>2</sub> via SnO <sub>2</sub> in situ replacement. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 4732-4737	2.1	4
51	Self-Assemble and In Situ Formation of Ni <sub>1-x</sub> Fe <sub>x</sub> PS <sub>3</sub> Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801127	21.8	131
50	Flexible C-MoC fiber film with self-fused junctions as a long cyclability anode material for sodium-ion battery.. <i>RSC Advances</i> , <b>2018</b> , 8, 16657-16662	3.7	8
49	High-performance sodium-ion hybrid capacitors based on an interlayer-expanded MoS <sub>2</sub> /rGO composite: surpassing the performance of lithium-ion capacitors in a uniform system. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 775-787	10.3	54
48	n-Type SnSe <sub>2</sub> Oriented-Nanoplate-Based Pellets for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702167	21.8	76
47	Graphene-supported bimetal phosphorus trisulfides as novel 0D/2D nanohybrid for high rate Li-ion storage. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 190-194	12	8
46	Thermoelectric Performance: Enhancement of Thermoelectric Performance in CuSbSe <sub>2</sub> Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization (Small 50/2018). <i>Small</i> , <b>2018</b> , 14, 1870241	11	2
45	Asymmetric-Layered Tin Thiophosphate: An Emerging 2D Ternary Anode for High-Performance Sodium Ion Full Cell. <i>ACS Nano</i> , <b>2018</b> , 12, 12902-12911	16.7	26
44	Layered Trichalcogenidophosphate: A New Catalyst Family for Water Splitting. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 67	19.5	44
43	Porous MXene Frameworks Support Pyrite Nanodots toward High-Rate Pseudocapacitive Li/Na-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33779-33784	9.5	42

42	CoSe-Decorated NbSe Nanosheets Fabricated via Cation Exchange for Li Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37773-37778	9.5	10
41	Enhancement of Thermoelectric Performance in CuSbSe Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization. <i>Small</i> , <b>2018</b> , 14, e1803092	11	9
40	Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805075	15.6	38
39	Synthesis and photocatalytic activity of mesoporous g-CN/MoS hybrid catalysts. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180187	3.3	22
38	Electrospinning fabrication and in situ mechanical investigation of individual graphene nanoribbon reinforced carbon nanofiber. <i>Carbon</i> , <b>2017</b> , 114, 717-723	10.4	31
37	A Non-Woven Network of Porous Nitrogen-doping Carbon Nanofibers as a Binder-free Electrode for Supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 230, 445-453	6.7	44
36	Reduced-sized monolayer carbon nitride nanosheets for highly improved photoresponse for cell imaging and photocatalysis. <i>Science China Materials</i> , <b>2017</b> , 60, 109-118	7.1	46
35	A Composite Polymeric Carbon Nitride with In Situ Formed Isotype Heterojunctions for Highly Improved Photocatalysis under Visible Light. <i>Small</i> , <b>2017</b> , 13, 1603182	11	41
34	Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 370-376	35.4	297
33	Recent advances in printable secondary batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22442-22458	3	40
32	Designing hybrid architectures for advanced thermoelectric materials. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2457-2473	7.8	30
31	General and Scalable Solid-State Synthesis of 2D MPS <sub>3</sub> (M = Fe, Co, Ni) Nanosheets and Tuning Their Li/Na Storage Properties. <i>Small Methods</i> , <b>2017</b> , 1, 1700304	12.8	57
30	A High Performance Lithium-Ion Capacitor with Both Electrodes Prepared from Sri Lanka Graphite Ore. <i>Materials</i> , <b>2017</b> , 10,	3.5	13
29	Flour food waste derived activated carbon for high-performance supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 89391-89396	3.7	28
28	Modifying porous carbon nanofibers with MnO <sub>x</sub> TeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> mixed oxides for NO catalytic oxidation at room temperature. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 422-425	5.5	17
27	Nitrogen-rich hierarchical porous hollow carbon nanofibers for high-performance supercapacitor electrodes. <i>RSC Advances</i> , <b>2016</b> , 6, 41473-41476	3.7	22
26	Graphitic carbon nitride nanosheet-assisted preparation of N-enriched mesoporous carbon nanofibers with improved capacitive performance. <i>Carbon</i> , <b>2015</b> , 94, 342-348	10.4	58
25	A supercapacitor constructed with a partially graphitized porous carbon and its performance over a wide working temperature range. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18860-18866	13	31

24	Facile Synthesis of Crystalline Polymeric Carbon Nitrides with an Enhanced Photocatalytic Performance under Visible Light. <i>ChemCatChem</i> , <b>2015</b> , 7, 2897-2902	5.2	34
23	Facile synthesis of a highly luminescent carbon dot@silica nanorattle for in vivo bioimaging. <i>RSC Advances</i> , <b>2015</b> , 5, 46158-46162	3.7	16
22	Facile synthesis of nitrogen-doped carbon nanosheets with hierarchical porosity for high performance supercapacitors and lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18400-18405	13.2	86
21	Synthesis of activated carbon nanospheres with hierarchical porous structure for high volumetric performance supercapacitors. <i>Electrochimica Acta</i> , <b>2015</b> , 182, 908-916	6.7	69
20	Nitrogen-enriched hierarchical porous carbon with enhanced performance in supercapacitors and lithium sulfur batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 75403-75410	3.7	7
19	A novel Ag <sub>3</sub> PO <sub>4</sub> /Nb <sub>2</sub> O <sub>5</sub> fiber composite with enhanced photocatalytic performance and stability. <i>RSC Advances</i> , <b>2015</b> , 5, 102101-102107	3.7	25
18	Effects of graphene oxide on the development of offspring mice in lactation period. <i>Biomaterials</i> , <b>2015</b> , 40, 23-31	15.6	70
17	Hydrogen Evolution: Holey Graphitic Carbon Nitride Nanosheets with Carbon Vacancies for Highly Improved Photocatalytic Hydrogen Production (Adv. Funct. Mater. 44/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6952-6952	15.6	2
16	Macroscopic 3D Porous Graphitic Carbon Nitride Monolith for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , <b>2015</b> , 27, 4634-9	24	457
15	Holey Graphitic Carbon Nitride Nanosheets with Carbon Vacancies for Highly Improved Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6885-6892	15.6	659
14	Nitrogen-doped hollow activated carbon nanofibers as high performance supercapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 739, 84-88	4.1	47
13	A high performance Li-ion capacitor constructed with Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /C hybrid and porous graphene macroform. <i>Journal of Power Sources</i> , <b>2015</b> , 282, 174-178	8.9	125
12	A honeycomb-like porous carbon derived from pomelo peel for use in high-performance supercapacitors. <i>Nanoscale</i> , <b>2014</b> , 6, 13831-7	7.7	360
11	Large-scale preparation and morphology-dependent photodegradation performances of monodispersed AgBr crystals. <i>Applied Catalysis A: General</i> , <b>2013</b> , 455, 199-205	5.1	11
10	Easy synthesis of highly fluorescent carbon quantum dots from gelatin and their luminescent properties and applications. <i>Carbon</i> , <b>2013</b> , 60, 421-428	10.4	472
9	Uniform square-like BaFBr:Eu <sup>2+</sup> microplates: controlled synthesis and photoluminescence properties. <i>RSC Advances</i> , <b>2012</b> , 2, 5403	3.7	9
8	Controlled synthesis and optical properties of BaFBr:Eu <sup>2+</sup> crystals via ethanol/water solutions. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 2357-2363	5.1	12
7	Hierarchical Ag <sub>3</sub> PO <sub>4</sub> porous microcubes with enhanced photocatalytic properties synthesized with the assistance of trisodium citrate. <i>CrystEngComm</i> , <b>2012</b> , 14, 2966	3.3	120

6	Enhanced photocatalytic activity and structural stability by hybridizing Ag <sub>3</sub> PO <sub>4</sub> nanospheres with graphene oxide sheets. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 15657-65	3.6	193
5	A Self-Regulated Interface toward Highly Reversible Aqueous Zinc Batteries. <i>Advanced Energy Materials</i> , 2102982	21.8	20
4	Designing advanced liquid electrolytes for alkali metal batteries: principles, progress, and perspectives. <i>Energy and Environmental Materials</i> ,	13	0
3	Sodium-rich NASICON -structured cathodes for boosting the energy density and lifespan of sodium-free-anode sodium metal batteries. <i>Information Materials</i> ,	23.1	4
2	Localized Electron Density Redistribution in Fluorophosphate Cathode: Dangling Anion Regulation and Enhanced Na-Ion Diffusivity for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2109694	15.6	5
1	Layered Tin Phosphide Composites as Promising Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> ,	6.1	1