

Qinghua Liang

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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 | Holey Graphitic Carbon Nitride Nanosheets with Carbon Vacancies for Highly Improved Photocatalytic Hydrogen Production. <i>Advanced Functional Materials</i> , 2015 , 25, 6885-6892 | 15.6 | 659 |
| 94 | Easy synthesis of highly fluorescent carbon quantum dots from gelatin and their luminescent properties and applications. <i>Carbon</i> , 2013 , 60, 421-428 | 10.4 | 472 |
| 93 | Macroscopic 3D Porous Graphitic Carbon Nitride Monolith for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2015 , 27, 4634-9 | 24 | 457 |
| 92 | A honeycomb-like porous carbon derived from pomelo peel for use in high-performance supercapacitors. <i>Nanoscale</i> , 2014 , 6, 13831-7 | 7.7 | 360 |
| 91 | Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. <i>Energy and Environmental Science</i> , 2017 , 10, 370-376 | 35.4 | 297 |
| 90 | Enhanced photocatalytic activity and structural stability by hybridizing Ag ₃ PO ₄ nanospheres with graphene oxide sheets. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15657-65 | 3.6 | 193 |
| 89 | Nanostructured metallic transition metal carbides, nitrides, phosphides, and borides for energy storage and conversion. <i>Nano Today</i> , 2019 , 25, 99-121 | 17.9 | 173 |
| 88 | Advances in the application, toxicity and degradation of carbon nanomaterials in environment: A review. <i>Environment International</i> , 2020 , 134, 105298 | 12.9 | 152 |
| 87 | Self-Assemble and In Situ Formation of Ni _{1-x} Fe _x PS ₃ Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1801127 | 21.8 | 131 |
| 86 | A high performance Li-ion capacitor constructed with Li ₄ Ti ₅ O ₁₂ /C hybrid and porous graphene macroform. <i>Journal of Power Sources</i> , 2015 , 282, 174-178 | 8.9 | 125 |
| 85 | Hierarchical Ag ₃ PO ₄ porous microcubes with enhanced photocatalytic properties synthesized with the assistance of trisodium citrate. <i>CrystEngComm</i> , 2012 , 14, 2966 | 3.3 | 120 |
| 84 | Graphitic Carbon Nitride Induced Micro-Electric Field for Dendrite-Free Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1803186 | 21.8 | 106 |
| 83 | Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , 2019 , 13, 7975-7984 | 16.7 | 104 |
| 82 | Two-dimensional transition metal carbide and nitride (MXene) derived quantum dots (QDs): synthesis, properties, applications and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7508-7535 | 13 | 95 |
| 81 | Ti ₃ C ₂ T _x MXene decorated black phosphorus nanosheets with improved visible-light photocatalytic activity: experimental and theoretical studies. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5171-5185 | 13 | 94 |
| 80 | Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , 2018 , 47, 257-265 | 17.1 | 88 |
| 79 | 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> , 2015 , 3, 18400-18405 | 13.86 | 18405 |

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| 78 | 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> , 2021 , 401, 123355 ^{12.8} | 12.8 | 83 |
| 77 | Catalyzing polysulfide conversion by g-C3N4 in a graphene network for long-life lithium-sulfur batteries. <i>Nano Research</i> , 2018 , 11, 3480-3489 | 10 | 77 |
| 76 | n-Type SnSe2 Oriented-Nanoplate-Based Pellets for High Thermoelectric Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1702167 | 21.8 | 76 |
| 75 | Effects of graphene oxide on the development of offspring mice in lactation period. <i>Biomaterials</i> , 2015 , 40, 23-31 | 15.6 | 70 |
| 74 | Synthesis of activated carbon nanospheres with hierarchical porous structure for high volumetric performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 182, 908-916 | 6.7 | 69 |
| 73 | Recent advances in conjugated microporous polymers for photocatalysis: designs, applications, and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6434-6470 | 13 | 67 |
| 72 | High Thermoelectric Performance in Polycrystalline SnSe Via Dual-Doping with Ag/Na and Nanostructuring With Ag8SnSe6. <i>Advanced Energy Materials</i> , 2019 , 9, 1803072 | 21.8 | 64 |
| 71 | Inverse opal manganese dioxide constructed by few-layered ultrathin nanosheets as high-performance cathodes for aqueous zinc-ion batteries. <i>Nano Research</i> , 2019 , 12, 1347-1353 | 10 | 62 |
| 70 | Metal Organic Frameworks as Robust Host of Palladium Nanoparticles in Heterogeneous Catalysis: Synthesis, Application, and Prospect. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32579-32598 | 9.5 | 62 |
| 69 | Recent advances of melamine self-assembled graphitic carbon nitride-based materials: Design, synthesis and application in energy and environment. <i>Chemical Engineering Journal</i> , 2021 , 405, 126951 | 14.7 | 60 |
| 68 | Graphitic carbon nitride nanosheet-assisted preparation of N-enriched mesoporous carbon nanofibers with improved capacitive performance. <i>Carbon</i> , 2015 , 94, 342-348 | 10.4 | 58 |
| 67 | General and Scalable Solid-State Synthesis of 2D MPS3 (M = Fe, Co, Ni) Nanosheets and Tuning Their Li/Na Storage Properties. <i>Small Methods</i> , 2017 , 1, 1700304 | 12.8 | 57 |
| 66 | The Interplay of Oxygen Functional Groups and Folded Texture in Densified Graphene Electrodes for Compact Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1702395 | 21.8 | 55 |
| 65 | High-performance sodium-ion hybrid capacitors based on an interlayer-expanded MoS2/rGO composite: surpassing the performance of lithium-ion capacitors in a uniform system. <i>NPG Asia Materials</i> , 2018 , 10, 775-787 | 10.3 | 54 |
| 64 | Deep Eutectic Solvents for Boosting Electrochemical Energy Storage and Conversion: A Review and Perspective. <i>Advanced Functional Materials</i> , 2021 , 31, 2011102 | 15.6 | 54 |
| 63 | 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> , 2020 , 30, 1907343 | 15.6 | 53 |
| 62 | Nitrogen-doped hollow activated carbon nanofibers as high performance supercapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 739, 84-88 | 4.1 | 47 |
| 61 | Reduced-sized monolayer carbon nitride nanosheets for highly improved photoresponse for cell imaging and photocatalysis. <i>Science China Materials</i> , 2017 , 60, 109-118 | 7.1 | 46 |

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| 60 | A Non-Woven Network of Porous Nitrogen-doping Carbon Nanofibers as a Binder-free Electrode for Supercapacitors. <i>Electrochimica Acta</i> , 2017 , 230, 445-453 | 6.7 | 44 |
| 59 | Layered Trichalcogenidophosphate: A New Catalyst Family for Water Splitting. <i>Nano-Micro Letters</i> , 2018 , 10, 67 | 19.5 | 44 |
| 58 | Synergy of Nb Doping and Surface Alloy Enhanced on Water-Alkali Electrocatalytic Hydrogen Generation Performance in Ti-Based MXene. <i>Advanced Science</i> , 2019 , 6, 1900116 | 13.6 | 43 |
| 57 | Porous MXene Frameworks Support Pyrite Nanodots toward High-Rate Pseudocapacitive Li/Na-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33779-33784 | 9.5 | 42 |
| 56 | A Composite Polymeric Carbon Nitride with In Situ Formed Isotype Heterojunctions for Highly Improved Photocatalysis under Visible Light. <i>Small</i> , 2017 , 13, 1603182 | 11 | 41 |
| 55 | Recent advances in printable secondary batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22442-22458 | 3 | 40 |
| 54 | Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1805075 | 15.6 | 38 |
| 53 | Facile Synthesis of Crystalline Polymeric Carbon Nitrides with an Enhanced Photocatalytic Performance under Visible Light. <i>ChemCatChem</i> , 2015 , 7, 2897-2902 | 5.2 | 34 |
| 52 | Ultrathin Amorphous Nickel Doped Cobalt Phosphates with Highly Ordered Mesoporous Structures as Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Small</i> , 2020 , 16, e1906766 | 11 | 34 |
| 51 | Electrospinning fabrication and in situ mechanical investigation of individual graphene nanoribbon reinforced carbon nanofiber. <i>Carbon</i> , 2017 , 114, 717-723 | 10.4 | 31 |
| 50 | 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> , 2015 , 3, 18860-18866 | 13 | 31 |
| 49 | Designing hybrid architectures for advanced thermoelectric materials. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2457-2473 | 7.8 | 30 |
| 48 | Solvation-Involved Nanoionics: New Opportunities from 2D Nanomaterial Lamina Membranes. <i>Advanced Materials</i> , 2020 , 32, e1904562 | 24 | 30 |
| 47 | Flour food waste derived activated carbon for high-performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 89391-89396 | 3.7 | 28 |
| 46 | Scalable synthesis of a foam-like FeS nanostructure by a solution combustion-sulfurization process for high-capacity sodium-ion batteries. <i>Nanoscale</i> , 2018 , 11, 178-184 | 7.7 | 27 |
| 45 | Asymmetric-Layered Tin Thiophosphate: An Emerging 2D Ternary Anode for High-Performance Sodium Ion Full Cell. <i>ACS Nano</i> , 2018 , 12, 12902-12911 | 16.7 | 26 |
| 44 | A novel Ag ₃ PO ₄ /Nb ₂ O ₅ fiber composite with enhanced photocatalytic performance and stability. <i>RSC Advances</i> , 2015 , 5, 102101-102107 | 3.7 | 25 |
| 43 | Nitrogen-rich hierarchical porous hollow carbon nanofibers for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2016 , 6, 41473-41476 | 3.7 | 22 |

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| 42 | Synthesis and photocatalytic activity of mesoporous g-CN/MoS hybrid catalysts. <i>Royal Society Open Science</i> , 2018 , 5, 180187 | 3.3 | 22 |
| 41 | A Self-Regulated Interface toward Highly Reversible Aqueous Zinc Batteries. <i>Advanced Energy Materials</i> , 2102982 | 21.8 | 20 |
| 40 | Modifying porous carbon nanofibers with MnO _x /CeO ₂ /Al ₂ O ₃ mixed oxides for NO catalytic oxidation at room temperature. <i>Catalysis Science and Technology</i> , 2016 , 6, 422-425 | 5.5 | 17 |
| 39 | Tube wall delamination engineering induces photogenerated carrier separation to achieve photocatalytic performance improvement of tubular g-CN. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127177 | 12.8 | 17 |
| 38 | Facile synthesis of a highly luminescent carbon dot@silica nanorattle for in vivo bioimaging. <i>RSC Advances</i> , 2015 , 5, 46158-46162 | 3.7 | 16 |
| 37 | A High Performance Lithium-Ion Capacitor with Both Electrodes Prepared from Sri Lanka Graphite Ore. <i>Materials</i> , 2017 , 10, | 3.5 | 13 |
| 36 | Beneficial restacking of 2D nanomaterials for electrocatalysis: a case of MoS membranes. <i>Chemical Communications</i> , 2020 , 56, 7005-7008 | 5.8 | 12 |
| 35 | Controlled synthesis and optical properties of BaFBr:Eu ²⁺ crystals via ethanol/water solutions. <i>Materials Research Bulletin</i> , 2012 , 47, 2357-2363 | 5.1 | 12 |
| 34 | Large-scale preparation and morphology-dependent photodegradation performances of monodispersed AgBr crystals. <i>Applied Catalysis A: General</i> , 2013 , 455, 199-205 | 5.1 | 11 |
| 33 | CoSe-Decorated NbSe Nanosheets Fabricated via Cation Exchange for Li Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37773-37778 | 9.5 | 10 |
| 32 | Ni nanoparticles/V ₄ C ₃ T _x MXene heterostructures for electrocatalytic nitrogen fixation. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2338-2346 | 7.8 | 10 |
| 31 | Uniform square-like BaFBr:Eu ²⁺ microplates: controlled synthesis and photoluminescence properties. <i>RSC Advances</i> , 2012 , 2, 5403 | 3.7 | 9 |
| 30 | Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation.. <i>Journal of the American Chemical Society</i> , 2022 , | 16.4 | 9 |
| 29 | Enhancement of Thermoelectric Performance in CuSbSe Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization. <i>Small</i> , 2018 , 14, e1803092 | 11 | 9 |
| 28 | Co/Co ₃ O ₄ nanoparticles embedded into thin O-doped graphitic layer as bifunctional oxygen electrocatalysts for Zn-air batteries. <i>Chemical Engineering Journal</i> , 2022 , 427, 130931 | 14.7 | 9 |
| 27 | A Triple-Gradient Host for Long Cycling Lithium Metal Anodes at Ultrahigh Current Density. <i>Small</i> , 2020 , 16, e2001992 | 11 | 8 |
| 26 | Flexible C-MoC fiber film with self-fused junctions as a long cyclability anode material for sodium-ion battery.. <i>RSC Advances</i> , 2018 , 8, 16657-16662 | 3.7 | 8 |
| 25 | Graphene-supported bimetal phosphorus trisulfides as novel OD ₂ D nanohybrid for high rate Li-ion storage. <i>Journal of Energy Chemistry</i> , 2018 , 27, 190-194 | 12 | 8 |

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| 24 | Nitrogen-enriched hierarchical porous carbon with enhanced performance in supercapacitors and lithium-sulfur batteries. <i>RSC Advances</i> , 2015 , 5, 75403-75410 | 3.7 | 7 |
| 23 | Layered double hydroxide based materials applied in persulfate based advanced oxidation processes: Property, mechanism, application and perspectives. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127612 | 12.8 | 6 |
| 22 | The Passive Effect of MXene on Electrocatalysis: A Case of Ti ₃ C ₂ T _x /CoNi-MOF nanosheets for Oxygen Evolution Reaction. <i>ChemNanoMat</i> , 2021 , 7, 539-544 | 3.5 | 6 |
| 21 | Localized Electron Density Redistribution in Fluorophosphate Cathode: Dangling Anion Regulation and Enhanced Na-Ion Diffusivity for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2109694 | 15.6 | 5 |
| 20 | 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> , 2020 , 3, 101-107 | 5.6 | 5 |
| 19 | Enhancement of the thermoelectric performance of CuInTe ₂ via SnO ₂ in situ replacement. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4732-4737 | 2.1 | 4 |
| 18 | Sodium-rich NASICON -structured cathodes for boosting the energy density and lifespan of sodium-free-anode sodium metal batteries. <i>Information Materials</i> , 2021 , 50, 1-10 | 23.1 | 4 |
| 17 | Advances in preparation, mechanism and applications of graphene quantum dots/semiconductor composite photocatalysts: A review. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127721 | 12.8 | 4 |
| 16 | Integrated Porous Cu Host Induced High-Stable Bidirectional Li Plating/Stripping Behavior for Practical Li Metal Batteries. <i>Small</i> , 2021 , e2105999 | 11 | 4 |
| 15 | A Fishing-Net-Like 3D Host for Robust and Ultrahigh-Rate Lithium Metal Anodes. <i>Small</i> , 2021 , 17, e2007231 | 23.1 | 3 |
| 14 | Activating localized lattice oxygen for durable acidic water oxidation. <i>Chem Catalysis</i> , 2021 , 1, 506-508 | 5.1 | 3 |
| 13 | Carbon nanotube-based materials for persulfate activation to degrade organic contaminants: Properties, mechanisms and modification insights. <i>Journal of Hazardous Materials</i> , 2022 , 431, 128536 | 12.8 | 3 |
| 12 | 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> , 2015 , 25, 6952-6952 | 15.6 | 2 |
| 11 | Deeply Cyclable and Ultrahigh-Rate Lithium Metal Anodes Enabled by Coaxial Nanochamber Heterojunction on Carbon Nanofibers. <i>Advanced Science</i> , 2021 , 8, e2101940 | 13.6 | 2 |
| 10 | 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> , 2021 , 28, 42683-42693 | 5.1 | 2 |
| 9 | Thermoelectric Performance: Enhancement of Thermoelectric Performance in CuSbSe ₂ Nanoplate-Based Pellets by Texture Engineering and Carrier Concentration Optimization (Small 50/2018). <i>Small</i> , 2018 , 14, 1870241 | 11 | 2 |
| 8 | Construction of BiWO ₄ /CoAl-LDHs S-scheme heterojunction with efficient photo-Fenton-like catalytic performance: Experimental and theoretical studies. <i>Chemosphere</i> , 2021 , 291, 133001 | 8.4 | 1 |
| 7 | Multilayer Porous Vanadium Nitride Microsheets Anodes for Highly Stable Na-ion Batteries. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 286-292 | 2.2 | 1 |

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| 6 | Layered Tin Phosphide Composites as Promising Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , | 6.1 | 1 |
| 5 | Harnessing the 2D Structure-Enabled Viscoelasticity of Graphene-Based Hydrogel Membranes for Chronic Neural Interfacing.. <i>Small Methods</i> , 2022 , e2200022 | 12.8 | 1 |
| 4 | Designing advanced liquid electrolytes for alkali metal batteries: principles, progress, and perspectives. <i>Energy and Environmental Materials</i> , | 13 | 0 |
| 3 | 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> , 2018 , 8, 1870050 | 21.8 | |
| 2 | 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> , 2022 , 32, 2270027 | 15.6 | |
| 1 | Lithium Metal Anodes: A Triple-Gradient Host for Long Cycling Lithium Metal Anodes at Ultrahigh Current Density (Small 30/2020). <i>Small</i> , 2020 , 16, 2070167 | 11 | |