

Xiuqiang Xie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6544767/publications.pdf>

Version: 2024-02-01

71
papers

8,761
citations

50170

46
h-index

88477

70
g-index

71
all docs

71
docs citations

71
times ranked

10921
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na ⁺ Ion Storage. <i>Advanced Materials</i> , 2017, 29, 1702410. | 11.1 | 757 |
| 2 | Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. <i>Nano Energy</i> , 2016, 26, 513-523. | 8.2 | 710 |
| 3 | MoS ₂ /Graphene Composite Anodes with Enhanced Performance for Sodium ⁺ Ion Batteries: The Role of the Two-Dimensional Heterointerface. <i>Advanced Functional Materials</i> , 2015, 25, 1393-1403. | 7.8 | 657 |
| 4 | MoS ₂ -Co ²⁺ /MXene Heterostructures as Highly Reversible Anode Materials for Lithium ⁺ Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1846-1850. | 7.2 | 520 |
| 5 | MoS ₂ Nanosheets Vertically Aligned on Carbon Paper: A Freestanding Electrode for Highly Reversible Sodium ⁺ Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502161. | 10.2 | 444 |
| 6 | Nitrogen-Doped Graphene Nanosheets as Metal-Free Catalysts for Aerobic Selective Oxidation of Benzylic Alcohols. <i>ACS Catalysis</i> , 2012, 2, 622-631. | 5.5 | 384 |
| 7 | Microstructure and surface control of MXene films for water purification. <i>Nature Sustainability</i> , 2019, 2, 856-862. | 11.5 | 273 |
| 8 | Ti ₃ C ₂ T _x -Based Three-Dimensional Hydrogel by a Graphene Oxide-Assisted Self-Convergence Process for Enhanced Photoredox Catalysis. <i>ACS Nano</i> , 2019, 13, 295-304. | 7.3 | 247 |
| 9 | Sb ₂ O ₃ /MXene(Ti ₃ C ₂ T _x) hybrid anode materials with enhanced performance for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12445-12452. | 5.2 | 245 |
| 10 | Immobilizing Polysulfides with MXene-Functionalized Separators for Stable Lithium ⁺ Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29427-29433. | 4.0 | 234 |
| 11 | Highly Porous NiCo ₂ O ₄ Nanoflakes and Nanobelts as Anode Materials for Lithium Ion Batteries with Excellent Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14827-14835. | 4.0 | 187 |
| 12 | Sn@CNT nanopillars grown perpendicularly on carbon paper: A novel free-standing anode for sodium ion batteries. <i>Nano Energy</i> , 2015, 13, 208-217. | 8.2 | 185 |
| 13 | Ti ₃ C ₂ T _x MXene as a Janus cocatalyst for concurrent promoted photoactivity and inhibited photocorrosion. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 43-49. | 10.8 | 174 |
| 14 | Microwave-assisted Synthesis of Mesoporous Co ₃ O ₄ Nanoflakes for Applications in Lithium Ion Batteries and Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3306-3313. | 4.0 | 169 |
| 15 | Confined Sulfur in 3D MXene/Reduced Graphene Oxide Hybrid Nanosheets for Lithium ⁺ Sulfur Battery. <i>Chemistry - A European Journal</i> , 2017, 23, 12613-12619. | 1.7 | 167 |
| 16 | SnS ₂ Nanoplatelet@Graphene Nanocomposites as High-Capacity Anode Materials for Sodium ⁺ Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1611-1617. | 1.7 | 166 |
| 17 | Positioning MXenes in the Photocatalysis Landscape: Competitiveness, Challenges, and Future Perspectives. <i>Advanced Functional Materials</i> , 2020, 30, 2002528. | 7.8 | 162 |
| 18 | Charge transfer induced polymerization of EDOT confined between 2D titanium carbide layers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5260-5265. | 5.2 | 142 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Multi-chambered micro/mesoporous carbon nanocubes as new polysulfides reservoirs for lithium-sulfur batteries with long cycle life. <i>Nano Energy</i> , 2015, 16, 268-280. | 8.2 | 132 |
| 20 | Porous Ti ₃ C ₂ T _x MXene for Ultrahigh-Rate Sodium-Ion Storage with Long Cycle Life. <i>ACS Applied Nano Materials</i> , 2018, 1, 505-511. | 2.4 | 132 |
| 21 | A comparative investigation on the effects of nitrogen-doping into graphene on enhancing the electrochemical performance of SnO ₂ /graphene for sodium-ion batteries. <i>Nanoscale</i> , 2015, 7, 3164-3172. | 2.8 | 130 |
| 22 | CuO single crystal with exposed {001} facets - A highly efficient material for gas sensing and Li-ion battery applications. <i>Scientific Reports</i> , 2014, 4, 5753. | 1.6 | 123 |
| 23 | A Microwave Synthesis of Mesoporous NiCo ₂ O ₄ Nanosheets as Electrode Materials for Lithium-ion Batteries and Supercapacitors. <i>ChemPhysChem</i> , 2015, 16, 169-175. | 1.0 | 122 |
| 24 | Advances in graphene-based semiconductor photocatalysts for solar energy conversion: fundamentals and materials engineering. <i>Nanoscale</i> , 2015, 7, 13278-13292. | 2.8 | 120 |
| 25 | Design of efficient electrocatalysts for hydrogen evolution reaction based on 2D MXenes. <i>Journal of Energy Chemistry</i> , 2021, 55, 244-255. | 7.1 | 104 |
| 26 | MoS ₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2015, 21, 15908-15913. | 1.7 | 99 |
| 27 | Stress-Transfer-Induced In-Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13082-13085. | 7.2 | 97 |
| 28 | Artificial nitrogen fixation over bismuth-based photocatalysts: fundamentals and future perspectives. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4978-4995. | 5.2 | 97 |
| 29 | Rising from the horizon: three-dimensional functional architectures assembled with MXene nanosheets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18538-18559. | 5.2 | 86 |
| 30 | Nitrogen-doped graphene stabilized gold nanoparticles for aerobic selective oxidation of benzylic alcohols. <i>RSC Advances</i> , 2012, 2, 12438. | 1.7 | 84 |
| 31 | Mesoporous hexagonal Co ₃ O ₄ for high performance lithium ion batteries. <i>Scientific Reports</i> , 2014, 4, 6519. | 1.6 | 84 |
| 32 | Hierarchical Porous Carbon Spheres for High-Performance Na ₂ O Batteries. <i>Advanced Materials</i> , 2017, 29, 1606816. | 11.1 | 81 |
| 33 | Two-dimensional layered compound based anode materials for lithium-ion batteries and sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2017, 499, 17-32. | 5.0 | 78 |
| 34 | Controlling the synergistic effect of oxygen vacancies and N dopants to enhance photocatalytic activity of N-doped TiO ₂ by H ₂ reduction. <i>Applied Catalysis A: General</i> , 2012, 425-426, 117-124. | 2.2 | 76 |
| 35 | Porous poly(vinylidene fluoride-co-hexafluoropropylene) polymer membrane with sandwich-like architecture for highly safe lithium ion batteries. <i>Journal of Membrane Science</i> , 2014, 472, 133-140. | 4.1 | 75 |
| 36 | 3D Interconnected Carbon Fiber Network-Enabled Ultralong Life Na ₃ V ₂ (PO ₄) ₃ @Carbon Paper Cathode for Sodium-ion Batteries. <i>Small</i> , 2017, 13, 1603318. | 5.2 | 72 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | 3D Networked Tin Oxide/Graphene Aerogel with a Hierarchically Porous Architecture for High-Rate Performance Sodium-Ion Batteries. <i>ChemSusChem</i> , 2015, 8, 2948-2955. | 3.6 | 70 |
| 38 | MoS ₂ -Co ₂ N ₄ MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 1864-1868. | 1.6 | 67 |
| 39 | Sn ²⁺ dopant induced visible-light activity of SnO ₂ nanoparticles for H ₂ production. <i>Catalysis Communications</i> , 2011, 16, 215-219. | 1.6 | 64 |
| 40 | Porous carbon nanocages encapsulated with tin nanoparticles for high performance sodium-ion batteries. <i>Energy Storage Materials</i> , 2016, 5, 180-190. | 9.5 | 61 |
| 41 | Hierarchical Mesoporous SnO Microspheres as High Capacity Anode Materials for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2014, 20, 3192-3197. | 1.7 | 59 |
| 42 | Enhancement of stability for lithium oxygen batteries by employing electrolytes gelled by poly(vinylidene fluoride-co-hexafluoropropylene) and tetraethylene glycol dimethyl ether. <i>Electrochimica Acta</i> , 2015, 183, 56-62. | 2.6 | 58 |
| 43 | Schottky Junctions with Bi Cocatalyst for Taming Aqueous Phase N ₂ Reduction toward Enhanced Solar Ammonia Production. <i>Advanced Science</i> , 2021, 8, 2003626. | 5.6 | 56 |
| 44 | A free-standing LiFePO ₄ -carbon paper hybrid cathode for flexible lithium-ion batteries. <i>Green Chemistry</i> , 2016, 18, 2691-2698. | 4.6 | 53 |
| 45 | 2D Titanium Carbide (MXene) Based Films: Expanding the Frontier of Functional Film Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2105043. | 7.8 | 50 |
| 46 | Achieving High-Performance 3D K ⁺ -Pre-Intercalated Ti ₃ C ₂ T _x MXene for Potassium-Ion Hybrid Capacitors via Regulating Electrolyte Solvation Structure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26246-26253. | 7.2 | 50 |
| 47 | Room-Temperature Assembled MXene-Based Aerogels for High Mass-Loading Sodium-Ion Storage. <i>Nano-Micro Letters</i> , 2022, 14, 37. | 14.4 | 49 |
| 48 | Photocatalytic reforming of C ₃ -polyols for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 689-696. | 10.8 | 45 |
| 49 | Rose flower-like NiCo ₂ O ₄ with hierarchically porous structures for highly reversible lithium storage. <i>Journal of Alloys and Compounds</i> , 2016, 684, 691-698. | 2.8 | 45 |
| 50 | A Bifunctional Organic Redox Catalyst for Rechargeable Lithium-Oxygen Batteries with Enhanced Performances. <i>Advanced Science</i> , 2016, 3, 1500285. | 5.6 | 37 |
| 51 | Robust and easily retrievable Pd/Ti ₃ C ₂ T _x graphene hydrogels for efficient catalytic hydrogenation of nitroaromatic compounds. <i>Chinese Chemical Letters</i> , 2020, 31, 1014-1017. | 4.8 | 35 |
| 52 | Synthesis of Single-Crystalline Spinel LiMn ₂ O ₄ Nanorods for Lithium-Ion Batteries with High Rate Capability and Long Cycle Life. <i>Chemistry - A European Journal</i> , 2014, 20, 17125-17131. | 1.7 | 32 |
| 53 | Facile synthesis of <i>Camellia oleifera</i> shell-derived hard carbon as an anode material for lithium-ion batteries. <i>RSC Advances</i> , 2019, 9, 20424-20431. | 1.7 | 31 |
| 54 | Probing the Electronic Structure and Photoactivation Process of Nitrogen-Doped TiO ₂ Using DRS, PL, and EPR. <i>ChemPhysChem</i> , 2012, 13, 1542-1550. | 1.0 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | An adaptive geometry regulation strategy for 3D graphene materials: towards advanced hybrid photocatalysts. <i>Chemical Science</i> , 2018, 9, 8876-8882. | 3.7 | 29 |
| 56 | Stress-Transfer-Induced In-Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2018, 130, 13266-13269. | 1.6 | 26 |
| 57 | High-efficiency cathode potassium compensation and interfacial stability improvement enabled by dipotassium squarate for potassium-ion batteries. <i>Energy and Environmental Science</i> , 2022, 15, 3015-3023. | 15.6 | 25 |
| 58 | Nitrogen-doped Carbon with Modulated Surface Chemistry and Porous Structure by a Stepwise Biomass Activation Process towards Enhanced Electrochemical Lithium-Ion Storage. <i>Scientific Reports</i> , 2019, 9, 15032. | 1.6 | 24 |
| 59 | Support interactions dictated active edge sites over MoS ₂ -carbon composites for hydrogen evolution. <i>Nanoscale</i> , 2020, 12, 1109-1117. | 2.8 | 23 |
| 60 | Porous hard carbon spheres derived from biomass for high-performance sodium/potassium-ion batteries. <i>Nanotechnology</i> , 2022, 33, 055401. | 1.3 | 23 |
| 61 | Surface Chemistry and Mesopore Dual Regulation by Sulfur-Promoted High Volumetric Capacity of Ti ₃ C ₂ T _x Films for Sodium-Ion Storage. <i>Small</i> , 2021, 17, e2103626. | 5.2 | 19 |
| 62 | Surfactant-free self-assembled MXene/carbon nanotubes hybrids for high-rate sodium- and potassium-ion storage. <i>Journal of Alloys and Compounds</i> , 2022, 901, 163426. | 2.8 | 16 |
| 63 | A retrospective on MXene-based composites for solar fuel production. <i>Pure and Applied Chemistry</i> , 2020, 92, 1953-1969. | 0.9 | 14 |
| 64 | Self-assembled transition metal chalcogenides@CoAl-LDH 2D/2D heterostructures with enhanced photoactivity for hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 994-1005. | 3.0 | 13 |
| 65 | Electrostatically confined Bi/Ti ₃ C ₂ T _x on a sponge as an easily recyclable and durable catalyst for the reductive transformation of nitroarenes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19847-19853. | 5.2 | 12 |
| 66 | Hydrothermal Synthesis of Multiwalled Carbon Nanotube-Zinc Manganate Nanoparticles as Anode Materials for Lithium Ion Batteries. <i>ChemPlusChem</i> , 2016, 81, 399-405. | 1.3 | 9 |
| 67 | Facial synthesis of two-dimensional In ₂ S ₃ /Ti ₃ C ₂ T _x heterostructures with boosted photoactivity for the hydrogenation of nitroaromatic compounds. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6883-6890. | 3.2 | 9 |
| 68 | Selectivity control of organic chemical synthesis over plasmonic metal-based photocatalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 425-443. | 2.1 | 5 |
| 69 | Stabilizing BiOCl/Ti ₃ C ₂ T _x hybrids for potassium-ion batteries via solid electrolyte interphase reconstruction. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3165-3175. | 3.0 | 5 |
| 70 | Achieving High-Performance 3D K ⁺ -Pre-Intercalated Ti ₃ C ₂ T _x MXene for Potassium-Ion Hybrid Capacitors via Regulating Electrolyte Solvation Structure. <i>Angewandte Chemie</i> , 2021, 133, 26450-26457. | 1.6 | 3 |
| 71 | Frontispiece: MoS ₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2015, 21, . | 1.7 | 0 |