# Zexiang Shen

List of Publications by Year
in descending order

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|---|---|---|---|
| 443 papers | 41,028 citations | 1977 100 h-index | 2656 191 g-index |
| 459 all docs | 459 docs citations | 459 times ranked | 45433 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Symmetry Breaking and Spinâ€“Orbit Coupling for Individual Vacancy-Induced In-Gap States in MoS<sub>2</sub> Monolayers. Nano Letters, 2024, 24, 2142-2148. | 8.8 | 18 |
| 2 | Sliding-mediated ferroelectric phase transition in CuInP2S6 under pressure. Applied Physics Reviews, 2024, 11, . | 10.7 | 14 |
| 3 | Retrieving positions of closely packed subwavelength nanoparticles from their diffraction patterns. Applied Physics Letters, 2024, 124, . | 3.2 | 4 |
| 4 | Optimization Strategy of Surface and Interface in Electrolyte Structure of Aqueous Zinc-Ion Battery. , 2024, 6, 1938-1960. | | 39 |
| 5 | Ultrastrong exciton-plasmon couplings in WS2 multilayers synthesized with a random multi-singular metasurface at room temperature. Nature Communications, 2024, 15, . | 14.2 | 18 |
| 6 | High-performance sodium storage for cobalt phosphide composite array electrodes. Rare Metals, 2024, 43, 3724-3734. | 11.0 | 8 |
| 7 | Highly Absorbing Monolayer MoS<sub>2</sub> for a Large Reflection Phase Modulation. Advanced Optical Materials, 2024, 12, . | 7.1 | 1 |
| 8 | Inorganic frameworks of low-dimensional perovskites dictate the performance and stability of mixed-dimensional perovskite solar cells. Materials Horizons, 2023, 10, 536-546. | 10.3 | 20 |
| 9 | Pressure driven rotational isomerism in 2D hybrid perovskites. Nature Communications, 2023, 14, . | 14.2 | 42 |
| 10 | Recyclable and Ultrafast Fabrication of Zinc Oxide Interface Layer Enabling Highly Reversible Dendrite-Free Zn Anode. ACS Energy Letters, 2023, 8, 1201-1208. | 17.5 | 57 |
| 11 | 2D Material Infrared Photonics and Plasmonics. ACS Nano, 2023, 17, 4134-4179. | 15.4 | 122 |
| 12 | Inspired by nature: Self-fractal cobalt sulfate composite electrode for sodium ion storage. Chinese Chemical Letters, 2023, 34, 108471. | 7.6 | 26 |
| 13 | Polymorphic Cobalt Sulfide-Embedded Graphene Foam with Ultralong Cycling and Ultrafast Rate Capability for Potassium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2023, 11, 7012-7020. | 7.0 | 6 |
| 14 | Conformational Disorder in a Hybrid 2D Perovskite with a Long Aliphatic Chain under Pressure. Journal of Physical Chemistry C, 2023, 127, 16496-16507. | 3.2 | 4 |
| 15 | Electrochemically induced crystalline-to-amorphization transformation in sodium samarium silicate solid electrolyte for long-lasting sodium metal batteries. Nature Communications, 2023, 14, . | 14.2 | 50 |
| 16 | Near-Unity Emitting, Widely Tailorable, and Stable Exciton Concentrators Built from Doubly Gradient 2D Semiconductor Nanoplatelets. ACS Nano, 2023, 17, 19981-19992. | 15.4 | 12 |
| 17 | Crumpled graphene with graded interlayer spacing for high-rate Na+ storage. Applied Physics Letters, 2023, 123, . | 3.2 | 3 |
| 18 | Chinese knot-like bimetallic NiCo2S4 grew on 3D graphene foam as high-performance electrode for Na+ storage. Journal of Alloys and Compounds, 2022, 891, 161988. | 6.0 | 13 |

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| 19 | Interlayer Excitons in Transition Metal Dichalcogenide Semiconductors for 2D Optoelectronics. Advanced Materials, 2022, 34, . | 24.4 | 65 |
| 20 | Reversible Photochromism in âŸ¨110âŸ© Oriented Layered Halide Perovskite. ACS Nano, 2022, 16, 2942-2952. | 15.4 | 38 |
| 21 | In Situ Fabrication of Cuprous Selenide Electrode via Selenization of Copper Current Collector for Highâ€Efficiency Potassiumâ€Ion and Sodiumâ€Ion Storage. Advanced Science, 2022, 9, . | 12.7 | 33 |
| 22 | Composition-tuned MAPbBr<sub>3</sub> nanoparticles with addition of Cs<sup>+</sup> cations for improved photoluminescence. RSC Advances, 2021, 11, 24137-24143. | 4.5 | 5 |
| 23 | Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. Science Advances, 2021, 7, . | 11.5 | 156 |
| 24 | Perovskite Lightâ€Emitting Diodes with Near Unit Internal Quantum Efficiency at Low Temperatures. Advanced Materials, 2021, 33, . | 24.4 | 43 |
| 25 | Energy storage mechanisms of anode materials for potassium ion batteries. Materials Today Energy, 2021, 21, 100747. | 5.3 | 49 |
| 26 | Formation of Corrugated n = 1 2D Tin Iodide Perovskites and Their Use as Lead-Free Solar Absorbers. ACS Nano, 2021, 15, 6395-6409. | 15.4 | 31 |
| 27 | Polymorph Engineering for Boosted Volumetric Naâ€Ion and Liâ€Ion Storage. Advanced Materials, 2021, 33, . | 24.4 | 43 |
| 28 | Layered P3-Type K<sub>0.4</sub>Fe<sub>0.1</sub>Mn<sub>0.8</sub>Ti<sub>0.1</sub>O<sub>2</sub> as a Low-Cost and Zero-Strain Electrode Material for both Potassium and Sodium Storage. ACS Applied Materials & Interfaces, 2021, 13, 18897-18904. | 8.1 | 46 |
| 29 | Pressure-Tuned Quantum Well Configuration in Two-Dimensional PA<sub>8</sub>Pb<sub>5</sub>I<sub>18</sub> Perovskites for Highly Efficient Yellow Fluorescence. ACS Applied Energy Materials, 2021, 4, 10003-10011. | 5.4 | 23 |
| 30 | Effects of Crystallinity and Defects of Layered Carbon Materials on Potassium Storage: A Review and Prediction. Electrochemical Energy Reviews, 2021, 5, 401-433. | 31.4 | 95 |
| 31 | Boosting Zn<sup>2+</sup> and NH<sub>4</sub><sup>+</sup> Storage in Aqueous Media via Inâ€Situ Electrochemical Induced VS<sub>2</sub>/VO<sub>x</sub> Heterostructures. Advanced Functional Materials, 2021, 31, . | 16.9 | 157 |
| 32 | Strong Optical, Electrical, and Raman in-Plane Anisotropy in Corrugated Two-Dimensional Perovskite. Journal of Physical Chemistry C, 2021, 125, 22630-22642. | 3.2 | 9 |
| 33 | Strong coupling between two-dimensional transition metal dichalcogenides and plasmonic-optical hybrid resonators. Physical Review B, 2021, 104, . | 3.2 | 9 |
| 34 | The effect of organic cation dynamics on the optical properties in (PEA)<sub>2</sub>(MA)[Pb<sub>2</sub>I<sub>7</sub>] perovskite dimorphs. Journal of Materials Chemistry C, 2021, 9, 17050-17060. | 5.1 | 7 |
| 35 | Controlled Fragmentation of Single-Atom-Thick Polycrystalline Graphene. Matter, 2020, 2, 666-679. | 9.9 | 50 |
| 36 | Lithium lanthanum titanate perovskite as an anode for lithium ion batteries. Nature Communications, 2020, 11, . | 14.2 | 186 |

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| 37 | Hybrid Plasmonics and Two-Dimensional Materials: Theory and Applications. Journal of Molecular and Engineering Materials, 2020, 08, . | 1.3 | 8 |
| 38 | Hierarchical porous LiNi<sub>1/3</sub>Co<sub>1/3</sub>Mn<sub>1/3</sub>O<sub>2</sub> with yolkâ€“shell-like architecture as stable cathode material for lithium-ion batteries. RSC Advances, 2020, 10, 18776-18783. | 4.5 | 21 |
| 39 | Cobalt sulfide nanoflakes grown on graphite foam for Na-ion batteries with ultrahigh initial coulombic efficiency. Journal of Materials Chemistry A, 2020, 8, 14900-14907. | 9.3 | 39 |
| 40 | Molecular Engineering of Pure 2D Leadâ€Iodide Perovskite Solar Absorbers Displaying Reduced Band Gaps and Dielectric Confinement. ChemSusChem, 2020, 13, 2693-2701. | 6.3 | 26 |
| 41 | Targeted Synthesis of Trimeric Organicâ€“Bromoplumbate Hybrids That Display Intrinsic, Highly Stokes-Shifted, Broadband Emission. Chemistry of Materials, 2020, 32, 4431-4441. | 6.9 | 26 |
| 42 | Strong coupling and pressure engineering in WSe2â€“MoSe2 heterobilayers. Nature Physics, 2020, 17, 92-98. | 15.0 | 219 |
| 43 | Lotus root-like porous carbon for potassium ion battery with high stability and rate performance. Journal of Power Sources, 2020, 466, 228303. | 8.1 | 25 |
| 44 | Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmentedâ€Gold Substrates via Coldâ€Etching. Advanced Optical Materials, 2019, 7, . | 7.1 | 16 |
| 45 | Enhancing the Electrochemical Performance of LiNi<sub>0.4</sub>Co<sub>0.2</sub>Mn<sub>0.4</sub>O<sub>2</sub> by V<sub>2</sub>O<sub>5</sub>/LiV<sub>3</sub>O<sub>8</sub> Coating. ACS Applied Materials & Interfaces, 2019, 11, 26994-27003. | 8.1 | 46 |
| 46 | A Depth-Profiling Study on the Solid Electrolyte Interface: Bis(fluorosulfuryl)imide Anion toward Improved K<sup>+</sup> Storage. ACS Applied Energy Materials, 2019, 2, 7942-7951. | 5.4 | 67 |
| 47 | Remarkable dielectric breakdown strength enhancement of a PVDF terpolymer using a 2D hybrid organic inorganic perovskite as a functional additive. Journal of Materials Chemistry C, 2019, 7, 13390-13395. | 5.1 | 3 |
| 48 | Durable Freestanding Hierarchical Porous Electrode for Rechargeable Zincâ€“Air Batteries. ACS Applied Energy Materials, 2019, 2, 1505-1516. | 5.4 | 21 |
| 49 | N-doping and oxidation of carbon nanotubes and jellyfish-like graphene nanoflakes through the prism of Raman spectroscopy. Applied Surface Science, 2019, 488, 51-60. | 6.6 | 79 |
| 50 | Highly anisotropic thermoelectric properties of black phosphorus crystals. 2D Materials, 2019, 6, 045009. | 4.3 | 44 |
| 51 | Improving Polysulfides Adsorption and Redox Kinetics by the Co<sub>4</sub>N Nanoparticle/Nâ€Doped Carbon Composites for Lithiumâ€Sulfur Batteries. Small, 2019, 15, . | 11.5 | 153 |
| 52 | Simultaneous Immobilization and Conversion of Polysulfides on Co<sub>3</sub>O<sub>4</sub>â€“CoN Heterostructured Mediators toward High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 2570-2578. | 5.4 | 22 |
| 53 | Excitonic states and structural stability in two-dimensional hybrid organic-inorganic perovskites. Journal of Science: Advanced Materials and Devices, 2019, 4, 189-200. | 2.8 | 43 |
| 54 | In-plane coherent control of plasmon resonances for plasmonic switching and encoding. Light: Science and Applications, 2019, 8, . | 20.0 | 38 |

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| 55 | Nitrogen configuration dependent holey active sites toward enhanced K+ storage in graphite foam. Journal of Power Sources, 2019, 419, 82-90. | 8.1 | 41 |
| 56 | Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C<sub>4</sub>H<sub>9</sub>NH<sub>3</sub>)<sub>2</sub>PbI<sub>4</sub> Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241. | 15.7 | 126 |
| 57 | Raman Imaging of Two Dimensional Materials. Springer Series in Materials Science, 2019, , 231-261. | 0.0 | 1 |
| 58 | Improved Photovoltaic Efficiency and Amplified Photocurrent Generation in Mesoporous n = 1 Two-Dimensional Leadâ€“Iodide Perovskite Solar Cells. Chemistry of Materials, 2019, 31, 890-898. | 6.9 | 68 |
| 59 | Ordered Array of Metal Particles on Semishell Separated with Ultrathin Oxide: Fabrication and SERS Properties. Coatings, 2019, 9, 20. | 2.6 | 2 |
| 60 | Nanocarbonâ€Based Electrocatalysts for Rechargeable Aqueous Li/Znâ€Air Batteries. ChemElectroChem, 2018, 5, 1745-1763. | 3.0 | 42 |
| 61 | Low Frequency Raman Scattering of Two-Dimensional Materials Beyond Graphene. Springer Series in Surface Sciences, 2018, , 195-206. | 0.0 | 0 |
| 62 | Phase Transformation of GeO<sub>2</sub>Glass to Nanocrystals under Ambient Conditions. Nano Letters, 2018, 18, 3290-3296. | 8.8 | 55 |
| 63 | A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359. | 34.3 | 1,562 |
| 64 | High-Crystallinity Urchin-like VS<sub>4</sub> Anode for High-Performance Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 14727-14734. | 8.1 | 84 |
| 65 | A Hierarchical MoP Nanoflake Array Supported on Ni Foam: A Bifunctional Electrocatalyst for Overall Water Splitting. Small Methods, 2018, 2, . | 9.0 | 119 |
| 66 | Nanoengineering of 2D tin sulfide nanoflake arrays incorporated on polyaniline nanofibers with boosted capacitive behavior. 2D Materials, 2018, 5, 031005. | 4.3 | 24 |
| 67 | N, P Coâ€doped Hierarchical Porous Graphene as a Metalâ€Free Bifunctional Air Cathode for Znâ^'Air Batteries. ChemElectroChem, 2018, 5, 1811-1816. | 3.0 | 23 |
| 68 | One-Step Synthesis of Metal/Semiconductor Heterostructure NbS<sub>2</sub>/MoS<sub>2</sub>. Chemistry of Materials, 2018, 30, 4001-4007. | 6.9 | 107 |
| 69 | Progress in aqueous rechargeable batteries. Green Energy and Environment, 2018, 3, 20-41. | 12.5 | 332 |
| 70 | Highâ€Pressureâ€Induced Comminution and Recrystallization of CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> Nanocrystals as Large Thin Nanoplates. Advanced Materials, 2018, 30, . | 24.4 | 96 |
| 71 | Electrochemically Synthesis of Nickel Cobalt Sulfide for Highâ€Performance Flexible Asymmetric Supercapacitors. Advanced Science, 2018, 5, . | 12.7 | 177 |
| 72 | Manganese phosphate coated Li[Ni0.6Co0.2Mn0.2]O2 cathode material: Towards superior cycling stability at elevated temperature and high voltage. Journal of Power Sources, 2018, 402, 263-271. | 8.1 | 128 |

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| 73 | Recent progress on photoluminescence from plasmonic nanostructures: Phenomenon, mechanism, and application. Chinese Physics B, 2018, 27, 097803. | 1.9 | 13 |
| 74 | Self-adaptive electrochemical reconstruction boosted exceptional Li<sup>+</sup> ion storage in a Cu<sub>3</sub>P@C anode. Journal of Materials Chemistry A, 2018, 6, 18821-18826. | 9.3 | 75 |
| 75 | Doubleâ€Shelled Phosphorus and Nitrogen Codoped Carbon Nanospheres as Efficient Polysulfide Mediator for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Science, 2018, 5, . | 12.7 | 94 |
| 76 | MnPO<sub>4</sub>â€Coated Li(Ni<sub>0.4</sub>Co<sub>0.2</sub>Mn<sub>0.4</sub>)O<sub>2</sub> for Lithium(â€Ion) Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics. Advanced Energy Materials, 2018, 8, . | 22.4 | 97 |
| 77 | Coherent Spin and Quasiparticle Dynamics in Solutionâ€Processed Layered 2D Lead Halide Perovskites. Advanced Science, 2018, 5, . | 12.7 | 90 |
| 78 | Morphology controlled lithium storage in Li<sub>3</sub>VO<sub>4</sub> anodes. Journal of Materials Chemistry A, 2018, 6, 456-463. | 9.3 | 64 |
| 79 | Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zincâ€“air batteries. Journal of Materials Chemistry A, 2017, 5, 2488-2495. | 9.3 | 88 |
| 80 | Energy transfer and depolarization in the photoluminescence of a plasmonic molecule. Nanoscale, 2017, 9, 2082-2087. | 5.1 | 8 |
| 81 | Rapid Pseudocapacitive Sodiumâ€Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. Advanced Functional Materials, 2017, 27, . | 16.9 | 116 |
| 82 | Water-Responsive Shape Recovery Induced Buckling in Biodegradable Photo-Cross-Linked Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 | 17.7 | 126 |
| 83 | â€œElectron/Ion Spongeâ€•Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. ACS Nano, 2017, 11, 6911-6920. | 15.4 | 115 |
| 84 | Recent progress in surface coating of layered LiNi x Co y Mn z O 2 for lithium-ion batteries. Materials Research Bulletin, 2017, 96, 491-502. | 5.4 | 111 |
| 85 | Phase evolution of lithium intercalation dynamics in 2H-MoS<sub>2</sub>. Nanoscale, 2017, 9, 7533-7540. | 5.1 | 108 |
| 86 | Hydrogen-Bonding Evolution during the Polymorphic Transformations in CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub>: Experiment and Theory. Chemistry of Materials, 2017, 29, 5974-5981. | 6.9 | 98 |
| 87 | Adaptable metasurface for dynamic anomalous reflection. Applied Physics Letters, 2017, 110, . | 3.2 | 47 |
| 88 | High Mobility 2D Palladium Diselenide Fieldâ€Effect Transistors with Tunable Ambipolar Characteristics. Advanced Materials, 2017, 29, . | 24.4 | 317 |
| 89 | Oxidation, defunctionalization and catalyst life cycle of carbon nanotubes: a Raman spectroscopy view. Physical Chemistry Chemical Physics, 2017, 19, 2276-2285. | 2.8 | 127 |
| 90 | Space-confinement and chemisorption co-involved in encapsulation of sulfur for lithiumâ€“sulfur batteries with exceptional cycling stability. Journal of Materials Chemistry A, 2017, 5, 24602-24611. | 9.3 | 30 |

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| 91 | Recent advances in air electrodes for Znâ€“air batteries: electrocatalysis and structural design. Materials Horizons, 2017, 4, 945-976. | 10.3 | 322 |
| 92 | Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. ACS Nano, 2017, 11, 9191-9199. | 15.4 | 61 |
| 93 | Toward greener lithium-ion batteries: Aqueous binder-based LiNi0.4Co0.2Mn0.4O2 cathode material with superior electrochemical performance. Journal of Power Sources, 2017, 372, 180-187. | 8.1 | 69 |
| 94 | 1D nanobar-like LiNi<sub>0.4</sub>Co<sub>0.2</sub>Mn<sub>0.4</sub>O<sub>2</sub> as a stable cathode material for lithium-ion batteries with superior long-term capacity retention and high rate capability. Journal of Materials Chemistry A, 2017, 5, 15669-15675. | 9.3 | 55 |
| 95 | Graphene and graphene-based composites as Li-ion battery electrode materials and their application in full cells. Journal of Materials Chemistry A, 2017, 5, 15423-15446. | 9.3 | 226 |
| 96 | Transition metal dichalcogenides: structural, optical and electronic property tuning via thickness and stacking. FlatChem, 2017, 4, 1-19. | 5.8 | 69 |
| 97 | Largeâ€Area and Highâ€Quality 2D Transition Metal Telluride. Advanced Materials, 2017, 29, . | 24.4 | 213 |
| 98 | Metalâ€“Semiconductor Phaseâ€Transition in WSe<sub>2(1â€“</sub><sub>x</sub><sub>)</sub>Te<sub>2</sub><sub>x</sub> Monolayer. Advanced Materials, 2017, 29, . | 24.4 | 142 |
| 99 | Enhanced light-matter interaction in atomically thin MoS_2 coupled with 1D photonic crystal nanocavity. Optics Express, 2017, 25, 14691. | 3.3 | 16 |
| 100 | Growth and characterization of highly tensile strained Ge1â^'xSnx formed on relaxed InyGa1â^'yP buffer layers. Journal of Applied Physics, 2016, 119, . | 2.3 | 5 |
| 101 | Multiâ€Drugâ€Loaded Microcapsules with Controlled Release for Management of Parkinson's Disease. Small, 2016, 12, 3712-3722. | 11.5 | 25 |
| 102 | Fast Photoresponse from 1T Tin Diselenide Atomic Layers. Advanced Functional Materials, 2016, 26, 137-145. | 16.9 | 173 |
| 103 | Stability of a high-voltage ionic liquid with a substituted piperidinium cation and a TFSI anion, promising for electrochemical applications. Mendeleev Communications, 2016, 26, 240-242. | 1.6 | 8 |
| 104 | Active sites-enriched hierarchical MoS<sub>2</sub> nanotubes: highly active and stable architecture for boosting hydrogen evolution and lithium storage. Journal of Materials Chemistry A, 2016, 4, 7565-7572. | 9.3 | 45 |
| 105 | Anomalous Shift Behaviors in the Photoluminescence of Dolmen-Like Plasmonic Nanostructures. ACS Photonics, 2016, 3, 979-984. | 7.0 | 25 |
| 106 | Electrocatalytically Active Graphene supported MMo Carbides (M Ni, Co) for Oxygen Reduction Reaction. Electrochimica Acta, 2016, 216, 246-252. | 5.4 | 30 |
| 107 | Ultrafastâ€Charging Supercapacitors Based on Cornâ€Like Titanium Nitride Nanostructures. Advanced Science, 2016, 3, . | 12.7 | 189 |
| 108 | Polyaniline (PANi) based electrode materials for energy storage and conversion. Journal of Science: Advanced Materials and Devices, 2016, 1, 225-255. | 2.8 | 440 |

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| 109 | Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. Science Advances, 2016, 2, . | 11.5 | 78 |
| 110 | Graphene quantum dots-shielded Na3(VO)2(PO4)2F@C nanocuboids as robust cathode for Na-ion battery. Energy Storage Materials, 2016, 5, 198-204. | 18.1 | 106 |
| 111 | Ultrastrong light-matter coupling of cyclotron transition in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, . | 3.2 | 1 |
| 112 | Hierarchical Porous LiNi1/3Co1/3Mn1/3O2 Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li+ Mobility for Enhanced Electrochemical Performance. Scientific Reports, 2016, 6, . | 3.7 | 215 |
| 113 | Large size nitrogen-doped graphene-coated graphite for high performance lithium-ion battery anode. RSC Advances, 2016, 6, 104010-104015. | 4.5 | 16 |
| 114 | Refined Sulfur Nanoparticles Immobilized in Metalâ€“Organic Polyhedron as Stable Cathodes for Liâ€“S Battery. ACS Applied Materials & Interfaces, 2016, 8, 14328-14333. | 8.1 | 49 |
| 115 | Strong interfacial coupling of MoS2/g-C3N4 van de Waals solids for highly active water reduction. Nano Energy, 2016, 27, 44-50. | 16.4 | 109 |
| 116 | Graphene homojunction: closed-edge bilayer graphene by pseudospin interaction. Nanoscale, 2016, 8, 9102-9106. | 5.1 | 6 |
| 117 | First-Principles Study of the Nuclear Dynamics of Doped Conjugated Polymers. Journal of Physical Chemistry C, 2016, 120, 1994-2001. | 3.2 | 27 |
| 118 | Graphene-supported non-precious metal electrocatalysts for oxygen reduction reactions: the active center and catalytic mechanism. Journal of Materials Chemistry A, 2016, 4, 7148-7154. | 9.3 | 19 |
| 119 | MoS2 nanosheets decorated Ni3S2@MoS2 coaxial nanofibers: Constructing an ideal heterostructure for enhanced Na-ion storage. Nano Energy, 2016, 20, 1-10. | 16.4 | 187 |
| 120 | Structural and thermoanalytical features of novel morpholinium-based high-voltage ionic liquid. Structural Chemistry, 2016, 28, 279-287. | 2.0 | 2 |
| 121 | Valley polarization in stacked MoS2 induced by circularly polarized light. Nano Research, 2016, 10, 1618-1626. | 8.6 | 29 |
| 122 | Coupling and Interlayer Exciton in Twistâ€Stacked WS<sub>2</sub> Bilayers. Advanced Optical Materials, 2015, 3, 1600-1605. | 7.1 | 81 |
| 123 | Fabrication of a trans-scale bimetallic synergistic enhanced Raman scattering substrate with high surface-enhanced Raman scattering activity. Analytical Methods, 2015, 7, 1676-1679. | 2.6 | 9 |
| 124 | Nitrogen-doped Graphene-Supported Transition-metals Carbide Electrocatalysts for Oxygen Reduction Reaction. Scientific Reports, 2015, 5, . | 3.7 | 83 |
| 125 | Sulphur-free synthesis of helical carbon nanotubes. Materials Technology, 2015, 30, 115-120. | 3.5 | 9 |
| 126 | ZnO Nanorods with Low Intrinsic Defects and High Optical Performance Grown by Facile Microwave-Assisted Solution Method. ACS Applied Materials & Interfaces, 2015, 7, 4737-4743. | 8.1 | 36 |

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| 127 | Surfactant-assisted encapsulation of uniform SnO<sub>2</sub>nanoparticles in graphene layers for high-performance Li-storage. 2D Materials, 2015, 2, 014005. | 4.3 | 20 |
| 128 | Significantly different mechanical properties and interfacial structures of Cu2ZnSn(S,Se)4 films prepared from metallic and sulfur-contained precursors. Solar Energy Materials and Solar Cells, 2015, 134, 389-394. | 6.2 | 6 |
| 129 | MoS<sub>2</sub> architectures supported on graphene foam/carbon nanotube hybrid films: highly integrated frameworks with ideal contact for superior lithium storage. Journal of Materials Chemistry A, 2015, 3, 17534-17543. | 9.3 | 59 |
| 130 | Raman analysis of gold on WSe<sub>2</sub> single crystal film. Materials Research Express, 2015, 2, 065009. | 2.1 | 25 |
| 131 | Probing Vertical and Horizontal Plasmonic Resonant States in the Photoluminescence of Gold Nanodisks. ACS Photonics, 2015, 2, 1217-1223. | 7.0 | 25 |
| 132 | Iron Oxide-Decorated Carbon for Supercapacitor Anodes with Ultrahigh Energy Density and Outstanding Cycling Stability. ACS Nano, 2015, 9, 5198-5207. | 15.4 | 483 |
| 133 | Pyrolytic synthesis and characterization of N-doped carbon nanoflakes for electrochemical applications. Materials Research Bulletin, 2015, 69, 7-12. | 5.4 | 31 |
| 134 | Shape/temperature memory phenomena in un-crosslinked poly-É›-caprolactone (PCL). European Polymer Journal, 2015, 72, 282-295. | 6.0 | 56 |
| 135 | Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23283-23288. | 9.3 | 113 |
| 136 | Binary metal sulfides and polypyrrole on vertically aligned carbon nanotube arrays/carbon fiber paper as high-performance electrodes. Journal of Materials Chemistry A, 2015, 3, 22043-22052. | 9.3 | 37 |
| 137 | Ultrafast Electron and Hole Relaxation Pathways in Few-Layer MoS<sub>2</sub>. Journal of Physical Chemistry C, 2015, 119, 20698-20708. | 3.2 | 58 |
| 138 | Accurate Modeling of Dark-Field Scattering Spectra of Plasmonic Nanostructures. ACS Nano, 2015, 9, 10039-10046. | 15.4 | 43 |
| 139 | Controlled Synthesis of High-Quality Monolayered Î±-In<sub>2</sub>Se<sub>3</sub> via Physical Vapor Deposition. Nano Letters, 2015, 15, 6400-6405. | 8.8 | 291 |
| 140 | High-performance asymmetric pseudocapacitor cell based on cobalt hydroxide/graphene and polypyrrole/graphene electrodes. Journal of Power Sources, 2015, 275, 298-304. | 8.1 | 92 |
| 141 | Three-dimensional graphene and their integrated electrodes. Nano Today, 2014, 9, 785-807. | 9.9 | 265 |
| 142 | Plasmonic Super-oscillations and Sub-Diffraction Focusing. , 2014, 39, FTu2K.5. | | 2 |
| 143 | Flat super-oscillatory lens for heat-assisted magnetic recording with sub-50nm resolution. Optics Express, 2014, 22, 6428. | 3.3 | 51 |
| 144 | A Flexible Alkaline Rechargeable Ni/Fe Battery Based on Graphene Foam/Carbon Nanotubes Hybrid Film. Nano Letters, 2014, 14, 7180-7187. | 8.8 | 371 |

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| 145 | Study on Phase Formation Mechanism of Non- and Near-Stoichiometric Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> Film Prepared by Selenization of Cuâ€“Snâ€“Znâ€“S Precursors. Chemistry of Materials, 2014, 26, 2005-2014. | 6.9 | 94 |
| 146 | Ni3S2@MoS2 core/shell nanorod arrays on Ni foam for high-performance electrochemical energy storage. Nano Energy, 2014, 7, 151-160. | 16.4 | 267 |
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