

Hui Peng

List of Publications by Year in descending order

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82
papers

3,545
citations

147801

31
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138484

58
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docs citations

83
times ranked

4631
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Simple Aqueous Solution Route to Luminescent Carbogenic Dots from Carbohydrates. <i>Chemistry of Materials</i> , 2009, 21, 5563-5565. | 6.7 | 770 |
| 2 | Highly Efficient Self-Trapped Exciton Emission of a (MA) ₄ Cu ₂ Br ₆ Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4703-4710. | 4.6 | 138 |
| 3 | Label-free electrochemical DNA sensor based on functionalised conducting copolymer. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1821-1828. | 10.1 | 135 |
| 4 | A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. <i>Advanced Electronic Materials</i> , 2019, 5, 1800600. | 5.1 | 129 |
| 5 | Investigation of Optical and Photocatalytic Properties of Bismuth Nanospheres Prepared by a Facile Thermolysis Method. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1155-1160. | 3.1 | 123 |
| 6 | Aggregation induced red shift emission of phosphorus doped carbon dots. <i>RSC Advances</i> , 2017, 7, 32225-32228. | 3.6 | 113 |
| 7 | Electrochemical detection of DNA hybridization amplified by nanoparticles. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1727-1736. | 10.1 | 107 |
| 8 | Label-free detection of DNA hybridization based on a novel functionalized conducting polymer. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1868-1873. | 10.1 | 105 |
| 9 | (Diisopropylammonium) ₂ MnBr ₄ : a multifunctional ferroelectric with efficient green-emission and excellent gas sensing properties. <i>Chemical Communications</i> , 2017, 53, 5954-5957. | 4.1 | 91 |
| 10 | Organic-inorganic hybrid manganese bromine single crystal with dual-band photoluminescence from polaronic and bipolaronic excitons. <i>Nano Energy</i> , 2021, 87, 106166. | 16.0 | 85 |
| 11 | Tuning the properties of luminescent nitrogen-doped carbon dots by reaction precursors. <i>Carbon</i> , 2016, 100, 386-394. | 10.3 | 76 |
| 12 | A Flexible Mott Synaptic Transistor for Nociceptor Simulation and Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2101099. | 14.9 | 76 |
| 13 | Characterization of Polyaniline Nanotubes Formed in the Presence of Amino Acids. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1210-1217. | 2.2 | 75 |
| 14 | Polymeric Acid Doped Polyaniline Nanotubes for Oligonucleotide Sensors. <i>Electroanalysis</i> , 2007, 19, 870-875. | 2.9 | 72 |
| 15 | Porous V ₂ O ₅ micro/nano-tubes: Synthesis via a CVD route, single-tube-based humidity sensor and improved Li-ion storage properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 5013. | 6.7 | 72 |
| 16 | Ultralow-Power Machine Vision with Self-Powered Sensor Reservoir. <i>Advanced Science</i> , 2022, 9, e2106092. | 11.2 | 68 |
| 17 | Highly Efficient Cool-White Photoluminescence of (Gua) ₃ Cu ₂ I ₅ Single Crystals: Formation and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13443-13451. | 8.0 | 63 |
| 18 | ABTS ^{•+} scavenging activity of polypyrrole, polyaniline and poly(3,4-ethylenedioxythiophene). <i>Polymer International</i> , 2011, 60, 69-77. | 3.1 | 56 |

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|----|--|-----|-----------|
| 19 | An air-stable artificial synapse based on a lead-free double perovskite Cs ₂ AgBiBr ₆ film for neuromorphic computing. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5706-5712. | 5.5 | 56 |
| 20 | Evolution of the structure and properties of mechanochemically synthesized pyrrolidine incorporated manganese bromide powders. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6488-6495. | 5.5 | 49 |
| 21 | Self-Assembled Hollow Polyaniline/Au Nanospheres Obtained by a One-Step Synthesis. <i>Macromolecular Rapid Communications</i> , 2008, 29, 598-603. | 3.9 | 46 |
| 22 | Bulk assembly of a 0D organic antimony chloride hybrid with highly efficient orange dual emission by self-trapped states. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12184-12190. | 5.5 | 43 |
| 23 | Highly Stable Waterborne Luminescent Inks Based on MAPbBr ₃ @PbBr(OH) Nanocrystals for LEDs and Anticounterfeit Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20622-20632. | 8.0 | 42 |
| 24 | Understanding the Effect of Al Doping on the Electrochemical Performance Improvement of the LiMn ₂ O ₄ Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45446-45454. | 8.0 | 42 |
| 25 | A novel cationic conjugated polymer for homogeneous fluorescence-based DNA detection. <i>Chemical Communications</i> , 2006, , 3735. | 4.1 | 39 |
| 26 | Heterostructured MoS ₂ @Bi ₂ Se ₃ nanoflowers: A highly efficient electrocatalyst for hydrogen evolution. <i>Journal of Catalysis</i> , 2020, 381, 590-598. | 6.2 | 39 |
| 27 | Self-Assembly of Poly(<i>o</i> -methoxyaniline) Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9128-9134. | 3.1 | 36 |
| 28 | Organometal halide perovskite nanocrystals embedded in silicone resins with bright luminescence and ultrastability. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12044-12049. | 5.5 | 36 |
| 29 | Plasmonic Au nanoparticle-decorated Bi ₂ Se ₃ nanoflowers with outstanding electrocatalytic performance for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30876-30884. | 7.1 | 34 |
| 30 | Artificial Synapse Based on Organic-Inorganic Hybrid Perovskite with Electric and Optical Modulation. <i>Advanced Electronic Materials</i> , 2021, 7, 2100291. | 5.1 | 34 |
| 31 | Facile Synthesis of 3d Transition-Metal-Doped \pm -Co(OH) ₂ Nanomaterials in Water-Methanol Mediated with Ammonia for Oxygen Evolution Reaction. <i>ACS Omega</i> , 2019, 4, 16612-16618. | 3.5 | 33 |
| 32 | Efficient two-terminal artificial synapse based on a network of functionalized conducting polymer nanowires. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9933-9938. | 5.5 | 32 |
| 33 | Tuning the Crystal Structure and Luminescence of Pyrrolidinium Manganese Halides via Halide Ions. <i>Crystal Research and Technology</i> , 2019, 54, 1800236. | 1.3 | 30 |
| 34 | Stretchable and self-healable organometal halide perovskite nanocrystal-embedded polymer gels with enhanced luminescence stability. <i>Nanophotonics</i> , 2018, 7, 1949-1958. | 6.0 | 27 |
| 35 | Atomic insights into surface orientations and oxygen vacancies in the LiMn ₂ O ₄ cathode for lithium storage. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159387. | 5.5 | 26 |
| 36 | Facile synthesis of cobalt modified 2D titanium carbide with enhanced hydrogen evolution performance in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32536-32545. | 7.1 | 26 |

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|----|---|------|-----------|
| 37 | Ion adsorption-induced reversible polarization switching of a van der Waals layered ferroelectric. <i>Nature Communications</i> , 2021, 12, 655. | 12.8 | 25 |
| 38 | High-stability fluorescent perovskites embedded in PbBrOH triggered by imidazole derivatives in water. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5594-5599. | 5.5 | 24 |
| 39 | Synergistic effect of cobalt boride nanoparticles on MoS ₂ nanoflowers for a highly efficient hydrogen evolution reaction in alkaline media. <i>Nanoscale</i> , 2020, 12, 10158-10165. | 5.6 | 24 |
| 40 | Dual self-trapped exciton emission of (TBA) ₂ Cu ₂ I ₄ : optical properties and high anti-water stability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16014-16021. | 5.5 | 24 |
| 41 | High-efficient yellow-green emission in (TDMP)MnBr ₄ single crystal with modulation of spin-phonon-charge interactions. <i>Materials Today Physics</i> , 2022, 25, 100703. | 6.0 | 23 |
| 42 | Water-soluble anionic poly(p-phenylene vinylenes) with high luminescence. <i>Polymer Chemistry</i> , 2013, 4, 2506. | 3.9 | 22 |
| 43 | Hydrogenation Dynamics of Electrically Controlled Metal-Insulator Transition in Proton-Gated Transparent and Flexible WO ₃ Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1902497. | 14.9 | 21 |
| 44 | Bulk assembly of a 0D organic tin(II)chloride hybrid with high anti-water stability. <i>Chemical Communications</i> , 2021, 57, 8162-8165. | 4.1 | 21 |
| 45 | Crystal growth and dynamic ferroelectric hysteresis scaling behavior of molecular ferroelectric diisopropylammonium bromide. <i>Journal of Crystal Growth</i> , 2016, 438, 25-30. | 1.5 | 19 |
| 46 | Proton-Mediated Phase Control in Flexible and Transparent Mott Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1900742. | 5.1 | 19 |
| 47 | Efficient overall water splitting using nickel boride-based electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28616-28625. | 7.1 | 19 |
| 48 | Fully Light-Modulated Organic Artificial Synapse with the Assistance of Ferroelectric Polarization. <i>Advanced Electronic Materials</i> , 2022, 8, . | 5.1 | 19 |
| 49 | An organic-inorganic hybrid ferroelectric with strong luminescence and high Curie temperature. <i>CrystEngComm</i> , 2020, 22, 1436-1441. | 2.6 | 18 |
| 50 | Atomic Insights into Ti Doping on the Stability Enhancement of Truncated Octahedron LiMn ₂ O ₄ Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 508. | 4.1 | 18 |
| 51 | Blue emission from Sr _{0.98} Ga ₂ B ₂ O ₇ : 0.01Bi ³⁺ , 0.01Dy ³⁺ phosphor with high quantum yield. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151849. | 5.5 | 17 |
| 52 | Multifunctional Two-Terminal Optoelectronic Synapse Based on Zinc Oxide/Poly(3-hexylthiophene) Heterojunction for Neuromorphic Computing. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5688-5695. | 4.4 | 15 |
| 53 | Transparent PVDF/rFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. <i>ChemistrySelect</i> , 2017, 2, 7951-7955. | 1.5 | 14 |
| 54 | A Quasi-Two-Dimensional Copper Based Organic-Inorganic Hybrid Perovskite with Reversible Thermochromism and Ferromagnetism. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4984-4989. | 2.0 | 14 |

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|----|--|-----|-----------|
| 55 | Enhanced dielectric and electrical energy storage capability of polymers with combined azobenzene and triphenylamine side groups by ring-opening metathesis polymerization. <i>Polymer</i> , 2019, 184, 121886. | 3.8 | 13 |
| 56 | Formation and dispersion of organometal halide perovskite nanocrystals in various solvents. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 575-581. | 9.4 | 12 |
| 57 | Highly Luminescent Copper(I) Halide Phosphors Encapsulated in Fumed Silica for Anti-Counterfeiting and Color-Converting Applications. <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 12 |
| 58 | Luminescent Nanofluids of Organometal Halide Perovskite Nanocrystals in Silicone Oils with Ultrastability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27244-27251. | 8.0 | 11 |
| 59 | Luminescent CH ₃ NH ₃ PbBr ₃ Cyclodextrin Core/Shell Nanodots with Controlled Size and Ultrastability through Host-Guest Interactions. <i>ChemNanoMat</i> , 2019, 5, 1311-1316. | 2.8 | 11 |
| 60 | Realization of 11.5% Efficiency Cu ₂ ZnSn(S,Se) ₄ Thin-Film Solar Cells by Manipulating the Phase Structure of Precursor Films. <i>Solar Rrl</i> , 2021, 5, 2100216. | 5.8 | 11 |
| 61 | Size-controlled synthesis of hierarchical bismuth selenide nanoflowers and their photocatalytic performance in the presence of H ₂ O ₂ . <i>Journal of Nanoparticle Research</i> , 2018, 20, 1. | 1.9 | 10 |
| 62 | Two-terminal organic optoelectronic synapse based on poly(3-hexylthiophene) for neuromorphic computing. <i>Organic Electronics</i> , 2022, 100, 106390. | 2.6 | 10 |
| 63 | Ferroelectricity and antiferromagnetism in organic-inorganic hybrid (1,4-bis(imidazol-1-ylmethyl)benzene)CuCl ₄ ·H ₂ O. <i>CrystEngComm</i> , 2020, 22, 587-592. | 2.6 | 9 |
| 64 | Piezoelectric Nanogenerators Based on Helical Carbon Materials and Polyvinylidenedifluoride-Trifluoroethylene Hybrids with Enhanced Energy-Harvesting Performance. <i>Energy Technology</i> , 2020, 8, 1901249. | 3.8 | 9 |
| 65 | Large-scale facile-synthesis and bistable emissions of one-dimensional organic-inorganic C ₄ H ₁₄ N ₂ PbBr ₄ metal halide crystals with bipolaronic states. <i>New Journal of Chemistry</i> , 2021, 45, 17247-17257. | 2.8 | 9 |
| 66 | H ₂ O ₂ decomposition catalyzed by strontium cobaltites and their application in Rhodamine B degradation in aqueous medium. <i>Journal of Materials Science</i> , 2019, 54, 8216-8225. | 3.7 | 7 |
| 67 | Amorphous ZrO ₂ Tunnel Junction Memristor With a Tunneling Electroresistance Ratio Above 400. <i>IEEE Electron Device Letters</i> , 2021, 42, 696-699. | 3.9 | 6 |
| 68 | Thermoinduced structural-transformation and luminescent conversion in hybrid manganese halides. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 154001. | 1.8 | 6 |
| 69 | Facile synthesis of ultrastable organometal halide perovskite nanocomposites using superhydrophobic fumed silica as matrix. <i>Materials Research Bulletin</i> , 2020, 129, 110918. | 5.2 | 4 |
| 70 | One-pot synthesis of novel ligand-free tin(II)-based hybrid metal halide perovskite quantum dots with high anti-water stability for solution-processed UVC photodetectors. <i>Nanoscale</i> , 2022, 14, 4170-4180. | 5.6 | 4 |
| 71 | DNA Sensors based on Conducting Polymers Functionalized with Conjugated Side Chain. , 2007, , . | | 3 |
| 72 | Electric field control of magnetism in nickel with coaxial cylinder structure at room temperature by electric double layer gating. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10609-10614. | 5.5 | 3 |

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|----|--|-----|-----------|
| 73 | Synthesis, Structure and Properties of Formamidine-templated Metal Formate Crystals. Crystal Research and Technology, 2017, 52, 1700195. | 1.3 | 3 |
| 74 | A Flexible Bilayer Actuator Based on Liquid Crystal Network and PVDF-TrFE for Low-Grade Waste Heat Harvesting. Energy Technology, 2020, 8, 2000612. | 3.8 | 3 |
| 75 | PN-junction diode behavior based on polyaniline nanotubes field effect transistor. Journal of Materials Science: Materials in Electronics, 2008, 19, 996-999. | 2.2 | 2 |
| 76 | Elastic flexibility of ferroelectric supramolecular co-crystals. Soft Materials, 2020, 18, 31-37. | 1.7 | 2 |
| 77 | Preparation of Co(OH)_2 @MWCNTs-COOH nanocomposites and their application for supercapacitors. Journal of Materials Science: Materials in Electronics, 2021, 32, 13941-13947. | 2.2 | 2 |
| 78 | Capping-ligand free grinding synthesis of luminescent lead halide perovskite nanocrystals. Materials Today Communications, 2021, 26, 101926. | 1.9 | 1 |
| 79 | Transparent Optoelectronic Synapse Based on a CuI Electrode for Arithmetic Operation. ACS Applied Electronic Materials, 2022, 4, 1989-1996. | 4.3 | 1 |
| 80 | Optoelectronic artificial synapses based on copper (II) phthalocyanine with modulated neuroplasticity. Journal of Materials Science: Materials in Electronics, 0, , . | 2.2 | 1 |
| 81 | Conjugated polymers as novel electrochemical and optical DNA sensors. , 2008, , . | | 0 |
| 82 | Ferro-electric and magnetic properties in $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$ films by Mn doping. Journal of Materials Chemistry C, 2022, 10, 1003-1009. | 5.5 | 0 |