

Hui Peng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

2,340
citations

21
h-index

47
g-index

83
ext. papers

2,882
ext. citations

6.1
avg, IF

5.24
L-index

#	Paper	IF	Citations
76	Ferro-electric and magnetic properties in Bi ₅ Ti ₃ FeO ₁₅ films by Mn doping. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1003-1009	7.1	0
75	Two-terminal organic optoelectronic synapse based on poly(3-hexylthiophene) for neuromorphic computing. <i>Organic Electronics</i> , 2022 , 100, 106390	3.5	0
74	Ultralow-Power Machine Vision with Self-Powered Sensor Reservoir.. <i>Advanced Science</i> , 2022 , e2106092	13.6	8
73	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	8	4
72	A Quasi-Two-Dimensional Copper Based Organic-Inorganic Hybrid Perovskite with Reversible Thermo-chromism and Ferromagnetism. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 4984	2.3	4
71	A Flexible Mott Synaptic Transistor for Nociceptor Simulation and Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021 , 31, 2101099	15.6	25
70	Highly Efficient Cool-White Photoluminescence of (Gua)CuI Single Crystals: Formation and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13443-13451	9.5	20
69	Highly Stable Waterborne Luminescent Inks Based on MAPbBr@PbBr(OH) Nanocrystals for LEDs and Anticounterfeit Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20622-20632	9.5	16
68	Preparation of FeCo(OH) ₂ @MWCNTs-COOH nanocomposites and their application for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 13941-13947	2.1	0
67	Amorphous ZrO ₂ Tunnel Junction Memristor With a Tunneling Electroresistance Ratio Above 400. <i>IEEE Electron Device Letters</i> , 2021 , 42, 696-699	4.4	0
66	Artificial Synapse Based on Organic-Inorganic Hybrid Perovskite with Electric and Optical Modulation. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100291	6.4	10
65	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	7.1	6
64	Capping-ligand free grinding synthesis of luminescent lead halide perovskite nanocrystals. <i>Materials Today Communications</i> , 2021 , 26, 101926	2.5	0
63	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	7.1	5
62	Bulk assembly of a 0D organic tin(ii)chloride hybrid with high anti-water stability. <i>Chemical Communications</i> , 2021 , 57, 8162-8165	5.8	4
61	Ion adsorption-induced reversible polarization switching of a van der Waals layered ferroelectric. <i>Nature Communications</i> , 2021 , 12, 655	17.4	7
60	Atomic Insights into Ti Doping on the Stability Enhancement of Truncated Octahedron LiMnO Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	8

59	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	5.7	10
58	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	6.7	6
57	Organic-inorganic hybrid manganese bromine single crystal with dual-band photoluminescence from polaronic and bipolaronic excitons. <i>Nano Energy</i> , 2021 , 87, 106166	17.1	20
56	Understanding the Effect of Al Doping on the Electrochemical Performance Improvement of the LiMnO Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45446-45454	9.5	7
55	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	7.1	13
54	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	3.6	5
53	Highly Efficient Self-Trapped Exciton Emission of a (MA)CuBr Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4703-4710	6.4	64
52	Facile synthesis of ultrastable organometal halide perovskite nanocomposites using superhydrophobic fumed silica as matrix. <i>Materials Research Bulletin</i> , 2020 , 129, 110918	5.1	2
51	High-stability fluorescent perovskites embedded in PbBrOH triggered by imidazole derivatives in water. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5594-5599	7.1	9
50	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	7.1	21
49	An organic/inorganic hybrid ferroelectric with strong luminescence and high Curie temperature. <i>CrystEngComm</i> , 2020 , 22, 1436-1441	3.3	7
48	Piezoelectric Nanogenerators Based on Helical Carbon Materials and Polyvinylidene fluoride/trifluoroethylene Hybrids with Enhanced Energy-Harvesting Performance. <i>Energy Technology</i> , 2020 , 8, 1901249	3.5	7
47	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	7.7	8
46	Proton-Mediated Phase Control in Flexible and Transparent Mott Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900742	6.4	12
45	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	3.3	5
44	Heterostructured MoS ₂ @Bi ₂ Se ₃ nanoflowers: A highly efficient electrocatalyst for hydrogen evolution. <i>Journal of Catalysis</i> , 2020 , 381, 590-598	7.3	21
43	Efficient overall water splitting using nickel boride-based electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28616-28625	6.7	8
42	A Flexible Bilayer Actuator Based on Liquid Crystal Network and PVDF/trFE for Low-Grade Waste Heat Harvesting. <i>Energy Technology</i> , 2020 , 8, 2000612	3.5	0

41	Elastic flexibility of ferroelectric supramolecular co-crystals. <i>Soft Materials</i> , 2020 , 18, 31-37	1.7	
40	Facile Synthesis of 3d Transition-Metal-Doped $\text{Co}(\text{OH})$ Nanomaterials in Water-Methanol Mediated with Ammonia for Oxygen Evolution Reaction. <i>ACS Omega</i> , 2019 , 4, 16612-16618	3.9	16
39	Tuning the Crystal Structure and Luminescence of Pyrrolidinium Manganese Halides via Halide Ions. <i>Crystal Research and Technology</i> , 2019 , 54, 1800236	1.3	18
38	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	15.6	15
37	H_2O_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	4.3	5
36	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	7.1	18
35	Luminescent $\text{CH}_3\text{NH}_3\text{PbBr}_3/\beta\text{-Cyclodextrin}$ Core/Shell Nanodots with Controlled Size and Ultraprobability through Host-Guest Interactions. <i>ChemNanoMat</i> , 2019 , 5, 1311-1316	3.5	6
34	Blue emission from $\text{Sr}_{0.98}\text{Ga}_2\text{B}_2\text{O}_7: 0.01\text{Bi}^{3+}, 0.01\text{Dy}^{3+}$ phosphor with high quantum yield. <i>Journal of Alloys and Compounds</i> , 2019 , 810, 151849	5.7	9
33	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	3.9	8
32	Plasmonic Au nanoparticle-decorated Bi_2Se_3 nanoflowers with outstanding electrocatalytic performance for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30876-30884	6.7	25
31	A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800600	6.4	81
30	Luminescent Nanofluids of Organometal Halide Perovskite Nanocrystals in Silicone Oils with Ultraprobability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27244-27251	9.5	9
29	Formation and dispersion of organometal halide perovskite nanocrystals in various solvents. <i>Journal of Colloid and Interface Science</i> , 2018 , 529, 575-581	9.3	11
28	Stretchable and self-healable organometal halide perovskite nanocrystal-embedded polymer gels with enhanced luminescence stability. <i>Nanophotonics</i> , 2018 , 7, 1949-1958	6.3	16
27	Size-controlled synthesis of hierarchical bismuth selenide nanoflowers and their photocatalytic performance in the presence of H_2O_2 . <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	4
26	Aggregation induced red shift emission of phosphorus doped carbon dots. <i>RSC Advances</i> , 2017 , 7, 32225-32228	3.7	26
25	(Diisopropylammonium) MnBr_3 : a multifunctional ferroelectric with efficient green-emission and excellent gas sensing properties. <i>Chemical Communications</i> , 2017 , 53, 5954-5957	5.8	69
24	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	7.1	3

23	Organometal halide perovskite nanocrystals embedded in silicone resins with bright luminescence and ultrastability. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12044-12049	7.1	30
22	Transparent PVDF-TrFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. <i>ChemistrySelect</i> , 2017 , 2, 7951-7955	1.8	9
21	Synthesis, Structure and Properties of Formamidine-templated Metal Formate Crystals. <i>Crystal Research and Technology</i> , 2017 , 52, 1700195	1.3	2
20	Tuning the properties of luminescent nitrogen-doped carbon dots by reaction precursors. <i>Carbon</i> , 2016 , 100, 386-394	10.4	64
19	Crystal growth and dynamic ferroelectric hysteresis scaling behavior of molecular ferroelectric diisopropylammonium bromide. <i>Journal of Crystal Growth</i> , 2016 , 438, 25-30	1.6	19
18	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	3.8	100
17	Water-soluble anionic poly(p-phenylene vinylenes) with high luminescence. <i>Polymer Chemistry</i> , 2013 , 4, 2506	4.9	20
16	Porous V2O5 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		67
15	ABTS ^{•+} scavenging activity of polypyrrole, polyaniline and poly(3,4-ethylenedioxythiophene). <i>Polymer International</i> , 2011 , 60, 69-77	3.3	47
14	Self-Assembly of Poly(o-methoxyaniline) Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9128-9134	3.8	36
13	Simple Aqueous Solution Route to Luminescent Carbogenic Dots from Carbohydrates. <i>Chemistry of Materials</i> , 2009 , 21, 5563-5565	9.6	668
12	PN-junction diode behavior based on polyaniline nanotubes field effect transistor. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 996-999	2.1	2
11	Self-Assembled Hollow Polyaniline/Au Nanospheres Obtained by a One-Step Synthesis. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 598-603	4.8	45
10	Polymeric Acid Doped Polyaniline Nanotubes for Oligonucleotide Sensors. <i>Electroanalysis</i> , 2007 , 19, 870-875		68
9	Characterization of Polyaniline Nanotubes Formed in the Presence of Amino Acids. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 1210-1217	2.6	72
8	Label-free detection of DNA hybridization based on a novel functionalized conducting polymer. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1868-73	11.8	102
7	DNA Sensors based on Conducting Polymers Functionalized with Conjugated Side Chain 2007 ,		3
6	A novel cationic conjugated polymer for homogeneous fluorescence-based DNA detection. <i>Chemical Communications</i> , 2006 , 3735-7	5.8	35

5	Electrochemical detection of DNA hybridization amplified by nanoparticles. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1727-36	11.8	98
4	Label-free electrochemical DNA sensor based on functionalised conducting copolymer. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1821-8	11.8	121
3	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> ,	7.1	5
2	Fully Light-Modulated Organic Artificial Synapse with the Assistance of Ferroelectric Polarization. <i>Advanced Electronic Materials</i> , 2101402	6.4	3
1	Highly Luminescent Copper(I) Halide Phosphors Encapsulated in Fumed Silica for Anti-Counterfeiting and Color-Converting Applications. <i>Advanced Optical Materials</i> , 2200278	8.1	2