

Hui Peng

List of Publications by Year in descending order

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82
papers

3,545
citations

147801

31
h-index

138484

58
g-index

83
all docs

83
docs citations

83
times ranked

4631
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-terminal organic optoelectronic synapse based on poly(3-hexylthiophene) for neuromorphic computing. <i>Organic Electronics</i> , 2022, 100, 106390.	2.6	10
2	Thermoinduced structural-transformation and luminescent conversion in hybrid manganese halides. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 154001.	1.8	6
3	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.	5.5	0
4	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
5	Fully Light-Modulated Organic Artificial Synapse with the Assistance of Ferroelectric Polarization. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	19
6	Ultralow-Power Machine Vision with Self-Powered Sensor Reservoir. <i>Advanced Science</i> , 2022, 9, e2106092.	11.2	68
7	Transparent Optoelectronic Synapse Based on a CuI Electrode for Arithmetic Operation. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1989-1996.	4.3	1
8	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
9	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
10	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
11	Capping-ligand free grinding synthesis of luminescent lead halide perovskite nanocrystals. <i>Materials Today Communications</i> , 2021, 26, 101926.	1.9	1
12	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
13	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
14	Ion adsorption-induced reversible polarization switching of a van der Waals layered ferroelectric. <i>Nature Communications</i> , 2021, 12, 655.	12.8	25
15	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
16	A Flexible Mott Synaptic Transistor for Nociceptor Simulation and Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2101099.	14.9	76
17	Highly Efficient Cool-White Photoluminescence of (Ga 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	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

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19	Preparation of Co(OH)_2 @MWCNTs-COOH nanocomposites and their application for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 13941-13947.	2.2	2
20	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
21	Artificial Synapse Based on Organic-Inorganic Hybrid Perovskite with Electric and Optical Modulation. <i>Advanced Electronic Materials</i> , 2021, 7, 2100291.	5.1	34
22	Realization of 11.5% Efficiency $\text{Cu}_2\text{ZnSn(S,Se)}_4$ Thin-Film Solar Cells by Manipulating the Phase Structure of Precursor Films. <i>Solar Rrl</i> , 2021, 5, 2100216.	5.8	11
23	Atomic insights into surface orientations and oxygen vacancies in the LiMn_2O_4 cathode for lithium storage. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159387.	5.5	26
24	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
25	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
26	Understanding the Effect of Al Doping on the Electrochemical Performance Improvement of the LiMn_2O_4 Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45446-45454.	8.0	42
27	An air-stable artificial synapse based on a lead-free double perovskite $\text{Cs}_2\text{AgBiBr}_6$ film for neuromorphic computing. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5706-5712.	5.5	56
28	Large-scale facile-synthesis and bistable emissions of one-dimensional organic-inorganic $\text{C}_4\text{H}_{14}\text{N}_2\text{PbBr}_4$ metal halide crystals with bipolaronic states. <i>New Journal of Chemistry</i> , 2021, 45, 17247-17257.	2.8	9
29	Dual self-trapped exciton emission of $\text{(TBA)}_2\text{Cu}_2\text{I}_4$: optical properties and high anti-water stability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16014-16021.	5.5	24
30	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
31	Elastic flexibility of ferroelectric supramolecular co-crystals. <i>Soft Materials</i> , 2020, 18, 31-37.	1.7	2
32	Proton-Mediated Phase Control in Flexible and Transparent Mott Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1900742.	5.1	19
33	Ferroelectricity and antiferromagnetism in organic-inorganic hybrid $(1,4\text{-bis(imidazol-1-ylmethyl)benzene})\text{CuCl}_4\cdot\text{A}_2\text{O}$. <i>CrystEngComm</i> , 2020, 22, 587-592.	2.6	9
34	Heterostructured MoS_2 @ Bi_2Se_3 nanoflowers: A highly efficient electrocatalyst for hydrogen evolution. <i>Journal of Catalysis</i> , 2020, 381, 590-598.	6.2	39
35	Efficient overall water splitting using nickel boride-based electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28616-28625.	7.1	19
36	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.	3.8	3

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37	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
38	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
39	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
40	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
41	An organic-inorganic hybrid ferroelectric with strong luminescence and high Curie temperature. <i>CrystEngComm</i> , 2020, 22, 1436-1441.	2.6	18
42	Piezoelectric Nanogenerators Based on Helical Carbon Materials and Polyvinylidene difluoride-Trifluoroethylene Hybrids with Enhanced Energy Harvesting Performance. <i>Energy Technology</i> , 2020, 8, 1901249.	3.8	9
43	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
44	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
45	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
46	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
47	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
48	Facile Synthesis of 3d Transition-Metal-Doped β -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
49	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
50	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
51	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
52	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
53	A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. <i>Advanced Electronic Materials</i> , 2019, 5, 1800600.	5.1	129
54	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

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55	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
56	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
57	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
58	Aggregation induced red shift emission of phosphorus doped carbon dots. <i>RSC Advances</i> , 2017, 7, 32225-32228.	3.6	113
59	(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
60	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
61	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
62	Transparent PVDF/TrFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. <i>ChemistrySelect</i> , 2017, 2, 7951-7955.	1.5	14
63	Synthesis, Structure and Properties of Formamidine-templated Metal Formate Crystals. <i>Crystal Research and Technology</i> , 2017, 52, 1700195.	1.3	3
64	Tuning the properties of luminescent nitrogen-doped carbon dots by reaction precursors. <i>Carbon</i> , 2016, 100, 386-394.	10.3	76
65	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
66	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
67	Water-soluble anionic poly(p-phenylene vinylenes) with high luminescence. <i>Polymer Chemistry</i> , 2013, 4, 2506.	3.9	22
68	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
69	ABTS ^{•+} scavenging activity of polypyrrole, polyaniline and poly(3,4-ethylenedioxythiophene). <i>Polymer International</i> , 2011, 60, 69-77.	3.1	56
70	Self-Assembly of Poly(o-methoxyaniline) Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9128-9134.	3.1	36
71	Simple Aqueous Solution Route to Luminescent Carbogenic Dots from Carbohydrates. <i>Chemistry of Materials</i> , 2009, 21, 5563-5565.	6.7	770
72	PN-junction diode behavior based on polyaniline nanotubes field effect transistor. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 996-999.	2.2	2

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73	Self-Assembled Hollow Polyaniline/Au Nanospheres Obtained by a One-Step Synthesis. <i>Macromolecular Rapid Communications</i> , 2008, 29, 598-603.	3.9	46
74	Conjugated polymers as novel electrochemical and optical DNA sensors. , 2008, , .		0
75	DNA Sensors based on Conducting Polymers Functionalized with Conjugated Side Chain. , 2007, , .		3
76	Polymeric Acid Doped Polyaniline Nanotubes for Oligonucleotide Sensors. <i>Electroanalysis</i> , 2007, 19, 870-875.	2.9	72
77	Characterization of Polyaniline Nanotubes Formed in the Presence of Amino Acids. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1210-1217.	2.2	75
78	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
79	A novel cationic conjugated polymer for homogeneous fluorescence-based DNA detection. <i>Chemical Communications</i> , 2006, , 3735.	4.1	39
80	Electrochemical detection of DNA hybridization amplified by nanoparticles. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1727-1736.	10.1	107
81	Label-free electrochemical DNA sensor based on functionalised conducting copolymer. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1821-1828.	10.1	135
82	Optoelectronic artificial synapses based on copper (II) phthalocyanine with modulated neuroplasticity. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	2.2	1