

Hui Peng

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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	Simple Aqueous Solution Route to Luminescent Carbogenic Dots from Carbohydrates. <i>Chemistry of Materials</i> , 2009 , 21, 5563-5565	9.6	668
75	Label-free electrochemical DNA sensor based on functionalised conducting copolymer. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1821-8	11.8	121
74	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
73	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
72	Electrochemical detection of DNA hybridization amplified by nanoparticles. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1727-36	11.8	98
71	A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800600	6.4	81
70	Characterization of Polyaniline Nanotubes Formed in the Presence of Amino Acids. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 1210-1217	2.6	72
69	(Diisopropylammonium)MnBr: a multifunctional ferroelectric with efficient green-emission and excellent gas sensing properties. <i>Chemical Communications</i> , 2017 , 53, 5954-5957	5.8	69
68	Polymeric Acid Doped Polyaniline Nanotubes for Oligonucleotide Sensors. <i>Electroanalysis</i> , 2007 , 19, 870-875	3.75	68
67	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
66	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
65	Tuning the properties of luminescent nitrogen-doped carbon dots by reaction precursors. <i>Carbon</i> , 2016 , 100, 386-394	10.4	64
64	Aggregation induced red shift emission of phosphorus doped carbon dots. <i>RSC Advances</i> , 2017 , 7, 32225-32228	3.37	62
63	ABTS scavenging activity of polypyrrole, polyaniline and poly(3,4-ethylenedioxythiophene). <i>Polymer International</i> , 2011 , 60, 69-77	3.3	47
62	Self-Assembled Hollow Polyaniline/Au Nanospheres Obtained by a One-Step Synthesis. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 598-603	4.8	45
61	Self-Assembly of Poly(o-methoxyaniline) Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9128-9134	3.8	36
60	A novel cationic conjugated polymer for homogeneous fluorescence-based DNA detection. <i>Chemical Communications</i> , 2006 , 3735-7	5.8	35

59	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
58	A Flexible Mott Synaptic Transistor for Nociceptor Simulation and Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021 , 31, 2101099	15.6	25
57	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	6.7	25
56	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
55	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
54	Water-soluble anionic poly(p-phenylene vinylenes) with high luminescence. <i>Polymer Chemistry</i> , 2013 , 4, 2506	4.9	20
53	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
52	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
51	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
50	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
49	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
48	Facile Synthesis of 3d Transition-Metal-Doped FeCo(OH) Nanomaterials in Water-Methanol Mediated with Ammonia for Oxygen Evolution Reaction. <i>ACS Omega</i> , 2019 , 4, 16612-16618	3.9	16
47	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	9.5	16
46	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
45	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
44	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
43	Proton-Mediated Phase Control in Flexible and Transparent Mott Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900742	6.4	12
42	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

41	Artificial Synapse Based on Organic/Inorganic Hybrid Perovskite with Electric and Optical Modulation. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100291	6.4	10
40	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
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	7.1	9
38	Luminescent Nanofluids of Organometal Halide Perovskite Nanocrystals in Silicone Oils with Ultrastability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27244-27251	9.5	9
37	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	5.7	9
36	Transparent PVDF-TrFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. <i>ChemistrySelect</i> , 2017 , 2, 7951-7955	1.8	9
35	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
34	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
33	Efficient overall water splitting using nickel boride-based electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28616-28625	6.7	8
32	Atomic Insights into Ti Doping on the Stability Enhancement of Truncated Octahedron LiMnO Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	8
31	Ultralow-Power Machine Vision with Self-Powered Sensor Reservoir.. <i>Advanced Science</i> , 2022 , e2106092	13.6	8
30	An organic/inorganic hybrid ferroelectric with strong luminescence and high Curie temperature. <i>CrystEngComm</i> , 2020 , 22, 1436-1441	3.3	7
29	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
28	Ion adsorption-induced reversible polarization switching of a van der Waals layered ferroelectric. <i>Nature Communications</i> , 2021 , 12, 655	17.4	7
27	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
26	Luminescent CH ₃ NH ₃ PbBr ₃ /β-Cyclodextrin Core/Shell Nanodots with Controlled Size and Ultrastability through Host-Guest Interactions. <i>ChemNanoMat</i> , 2019 , 5, 1311-1316	3.5	6
25	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
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	6.7	6

23	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	4.3	5
22	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
21	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
20	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
19	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
18	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	2.3	4
17	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
16	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	2.3	4
15	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
14	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
13	DNA Sensors based on Conducting Polymers Functionalized with Conjugated Side Chain 2007 ,		3
12	Fully Light-Modulated Organic Artificial Synapse with the Assistance of Ferroelectric Polarization. <i>Advanced Electronic Materials</i> , 2101402	6.4	3
11	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
10	Synthesis, Structure and Properties of Formamidine-templated Metal Formate Crystals. <i>Crystal Research and Technology</i> , 2017 , 52, 1700195	1.3	2
9	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
8	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
7	Two-terminal organic optoelectronic synapse based on poly(3-hexylthiophene) for neuromorphic computing. <i>Organic Electronics</i> , 2022 , 100, 106390	3.5	0
6	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

- 5 Preparation of Co(OH)_2 @MWCNTs-COOH nanocomposites and their application for supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 13941-13947 2.1 ○
- 4 Amorphous ZrO_2 Tunnel Junction Memristor With a Tunneling Electroresistance Ratio Above 400. *IEEE Electron Device Letters*, **2021**, 42, 696-699 4.4 ○
- 3 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 7.1
- 2 Elastic flexibility of ferroelectric supramolecular co-crystals. *Soft Materials*, **2020**, 18, 31-37 1.7
- 1 Capping-ligand free grinding synthesis of luminescent lead halide perovskite nanocrystals. *Materials Today Communications*, **2021**, 26, 101926 2.5