

Haiquan Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Tuning the Photocatalytic Activity of Graphitic Carbon Nitride by Plasma-Based Surface Modification. ACS Applied Materials & Interfaces, 2017, 9, 24616-24624.	8.0	73
2	Characteristics of selective reflection of chiral nematic liquid crystalline gels with a nonuniform pitch distribution. Applied Physics Letters, 2007, 91, .	3.3	66
3	Regulating Polymerization in Graphitic Carbon Nitride To Improve Photocatalytic Activity. Chemistry of Materials, 2019, 31, 9188-9199.	6.7	57
4	High performance hydrazine vapor sensor based on redox mechanism of twisted perylene diimide derivative with lower reduction potential. Sensors and Actuators B: Chemical, 2017, 239, 898-905.	7.8	35
5	Photoinduced polymer-stabilised chiral nematic liquid crystal films reflecting both right- and left-circularly polarised light. Liquid Crystals, 2015, 42, 1120-1123.	2.2	27
6	Viewing-angle-switching film based on polymer dispersed liquid crystals for smart anti-peeping liquid crystal display. Liquid Crystals, 2022, 49, 59-65.	2.2	19
7	Silicon nanostructure-doped polymer/nematic liquid crystal composites for low voltage-driven smart windows. Nanotechnology, 2022, 33, 085205.	2.6	19
8	Multicolored Electrochromic Device from the Reversible Aggregation and Decentralization of Silver Nanoparticles. Advanced Optical Materials, 2016, 4, 106-111.	7.3	18
9	Perylene diimide derivative regulate the antimony sulfide morphology and electrochemical sensing for hydrazine. Applied Surface Science, 2019, 491, 267-275.	6.1	18
10	The regulation of electric-optical properties of polymer-dispersed liquid crystals via implantation of polyhedral oligomeric silsesquioxane (POSS) microstructure. Liquid Crystals, 2022, 49, 240-247.	2.2	18
11	Facile synthesis of an isolable and ambient stable bay-substituted perylene diimide radical anion salt and its optical response to base and acid and metal ions. Journal of Materials Science, 2016, 51, 9229-9238.	3.7	17
12	Study of configuration differentia and highly efficient deep-red thermally activated delayed fluorescent organic light-emitting diodes based on phenanthro[4,5- <i>fg</i>]quinoxaline derivatives. Journal of Materials Chemistry C, 2021, 9, 7392-7399.	5.5	17
13	Liquid crystalline and thermo-optical properties of cyclic siloxane tetramers containing cholesteryl-4-allyloxy-benzoate and biphenyl-4-yl 4-allyloxybenzoate. Liquid Crystals, 2011, 38, 9-15.	2.2	16
14	Investigation on Fluorescence Quenching Mechanism of Perylene Diimide Dyes by Graphene Oxide. Molecules, 2016, 21, 1642.	3.8	16
15	Efficient Nondoped Pure Blue Organic Light-Emitting Diodes Based on an Anthracene and 9,9-Diphenyl-10,10-dihydroacridine Derivative. Chemistry - an Asian Journal, 2020, 15, 163-168.	3.3	16
16	Surface plasmon resonance-induced Ag@BaTiO ₃ composites for catalytic performance. Journal of the American Ceramic Society, 2021, 104, 4389-4397.	3.8	16
17	Visible-light-triggered generation of persistent radical anions from perylenediimides: A substituent effect and potential application in photocatalytic reduction of Ag ⁺ . Dyes and Pigments, 2019, 165, 319-326.	3.7	15
18	Influence of linkage and terminal group on the liquid crystalline and helical twisting behaviours of cholesteryl esters. Liquid Crystals, 2011, 38, 803-812.	2.2	13

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19	Photothermal conversion performance of perylene diimide radical anion salts modified with tunable moieties. <i>Journal of Materials Science</i> , 2019, 54, 217-227.	3.7	13
20	A Novel Chemical Sensor Based on Sb ₂ S ₃ Film for Highly Sensitive Detection of Hydrazine. <i>Electroanalysis</i> , 2017, 29, 2737-2743.	2.9	11
21	Synthesis, structure and photocatalytic properties of benzo[ghi] perylenetriimide/graphitic carbon nitride composite. <i>Materials Letters</i> , 2018, 221, 38-41.	2.6	11
22	Fabrication and Photocatalytic Performance of Sb ₂ S ₃ Film/ITO Combination. <i>Catalysis Letters</i> , 2017, 147, 2592-2599.	2.6	11
23	Study on the helical twisting behaviour of chiral 1,2-propanediol derivatives inducing chiral nematic liquid crystals with a helix inversion and controllable pitch variation. <i>Liquid Crystals</i> , 2009, 36, 531-540.	2.2	10
24	A greener electrochromic liquid crystal based on ionic liquid electrolytes. <i>Liquid Crystals</i> , 2016, 43, 1110-1119.	2.2	10
25	Ultrasensitive sensing of hydrazine vapor at sub-ppm level with pyrimidine-substituted perylene diimide film device. <i>Tetrahedron</i> , 2019, 75, 1988-1996.	1.9	10
26	Synthesis, nonlinear optical, magnetic and electrical properties of ultra-stable open-shell pancake bonding linked perylene diimide anion radicals I π -oligomer. <i>Journal of Molecular Structure</i> , 2020, 1199, 127002.	3.6	10
27	Effects of chemically functionalized TiO ₂ nanoparticles on the UV-shielding characteristics of polymer-dispersed liquid crystals. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1561-1568.	3.2	10
28	Base-driven keto \rightleftharpoons enol anion tautomerism of a perylene diimide derivative in DMF solution. <i>RSC Advances</i> , 2016, 6, 68402-68406.	3.6	9
29	Hydrogen-bond-linked photocatalyst of g-C ₃ N ₄ /3, 4, 9, 10-perylenetetracarboxylic acid anhydride with different bay-substituents. <i>Catalysis Communications</i> , 2018, 111, 90-94.	3.3	9
30	Facile synthesis and hydrazine detection activity of Sb ₂ S ₃ films on indium tin oxide electrode. <i>Materials Letters</i> , 2018, 216, 73-76.	2.6	9
31	A helix inversion from the temperature-dependent intramolecular chiral conflict. <i>Liquid Crystals</i> , 2011, 38, 633-638.	2.2	8
32	Effect of solvent vapour annealing on morphology, structure of copper(II) phthalocyanine thin films and device performance. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	8
33	PrVO ₄ /SnD NPs as a Nanocatalyst for Carbon Dioxide Fixation to Synthesis Benzimidazoles and 2-Oxazolidinones. <i>Catalysis Letters</i> , 2021, 151, 1623-1632.	2.6	8
34	Chiral nematic liquid crystals with helix inversion from (R)-1,1'-binaphthyl and cholesteryl ester moieties. <i>Liquid Crystals</i> , 2012, 39, 1284-1290.	2.2	7
35	Synthesis, characterization, photophysical properties and stability of bay-substituted tetrachloro-perylene diimide dianion salt by alkali treatment. <i>Tetrahedron</i> , 2017, 73, 6632-6636.	1.9	7
36	Facile synthesis of graphene oxide sheet-immobilized perylene diimide radical anion salt and its optical response to different solvents and pH values. <i>Journal of Materials Science</i> , 2016, 51, 6583-6589.	3.7	6

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37	Dependence of morphology, substrate and thickness of iron phthalocyanine thin films on the photocatalytic degradation of rhodamine B dye. <i>Chemical Papers</i> , 2018, 72, 2327-2337.	2.2	6
38	Direct reduction of metal ions based on perylene diimide derivative radical anion as an electron-transfer mediator and potential application in detection of oxidizing metal ions. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 1141-1147.	7.8	6
39	TiO ₂ doped polymer dispersed and stabilised liquid crystal smart film with high contrast ratio, low driving voltage and short response time. <i>Liquid Crystals</i> , 2022, 49, 1623-1632.	2.2	6
40	Preparation of Cyano-Substituted Tetraphenylethylene Derivatives and Their Applications in Solution-Processable OLEDs. <i>Molecules</i> , 2018, 23, 190.	3.8	5
41	Highly Sensitive Amperometric Hydrazine Sensor Based on Novel Sb ₂ S ₃ -CuTl ² Pc Composite Modified Platinum Disk Electrode. <i>Chemistry Letters</i> , 2018, 47, 1187-1190.	1.3	5
42	Extrinsic Fabry Perot interferometer fiber sensor for simultaneous measurement of hydrazine vapor and temperature. <i>Sensors and Actuators A: Physical</i> , 2019, 292, 60-65.	4.1	5
43	Ī-Dimers of core-unsubstituted perylene diimide radical anion: Synthesis, dissociation and high current-responsive to alkyl primary amine vapor. <i>Dyes and Pigments</i> , 2022, 197, 109847.	3.7	5
44	Structural, photoelectrical and thermal properties of ultra-stable Benzo[ghi]perylene trimide dimer anion. <i>Tetrahedron</i> , 2019, 75, 130577.	1.9	4
45	Effect of preparation conditions on the electro-optical performance and the polymer morphology of polymer-dispersed liquid crystals with polyhedral oligomeric silsesquioxane (POSS) microstructure. <i>Molecular Crystals and Liquid Crystals</i> , 2022, 737, 41-51.	0.9	4
46	Multiple detection for hydrazine based on reduction of the 1,6,7,12-tetrachloroperylene diimide derivative. <i>Chemical Papers</i> , 2018, 72, 1927-1933.	2.2	3
47	Nucleophilic Substitution Reaction of Pentafluorophenyl Aminated Perylene Diimide system with <i>N,N</i> -dimethylformamide. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 1076-1080.	2.7	3
48	Perylene diimide radical anion constructed by hydrogen bonds and its colorimetric chemodosimeter for the rapid detection of Fe ³⁺ . <i>Journal of Molecular Structure</i> , 2021, 1224, 129038.	3.6	3
49	Enhancement of electro-optical properties of polymer dispersed liquid crystals by doping with nano-sized electrospun fibers. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-12.	0.9	3
50	Helical H-type aggregation of trimeric p-phenylene vinylene with chiral ester groups. <i>Bulletin of Materials Science</i> , 2011, 34, 1049-1051.	1.7	2
51	Rational Design of a Near-infrared Fluorescent Material with High Solid-state Efficiency, Aggregation-induced Emission and Live Cell Imaging Property. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 1461-1466.	2.6	2
52	The regulation of contrast ratio of polymer-dispersed liquid crystals (PDLCs) via polyvinyl alcohol (PVA) nanofibers. <i>Molecular Crystals and Liquid Crystals</i> , 0, , 1-10.	0.9	1
53	Photoinitiator release improves PDLC electro-optical performance. <i>Molecular Crystals and Liquid Crystals</i> , 2022, 732, 1-10.	0.9	1
54	Facile preparation of antimony sulfide and 3,4,9,10-perylenetetracarboxylic diimide composite nanomaterials modified fluorine-doped tin oxide glass for efficient detection of hydrazine. <i>Materials Letters</i> , 2022, 325, 132840.	2.6	1

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55	Mechanical properties of PPV film in thermal elimination process. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 698-701.	2.6	0
56	Ambient stable perylene diimide anion radical for high conductivity and potential application as chemiresistive sensor. <i>Pigment and Resin Technology</i> , 2020, ahead-of-print, .	0.9	0
57	Self anion radical induced breaking carbon-oxygen bond in bay area of perylene diimide, and nucleophilic substitution with SRN1 mechanism. <i>Tetrahedron</i> , 2021, , 132480.	1.9	0