

Lichun Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,653
citations

159585

30
h-index

189892

50
g-index

65
all docs

65
docs citations

65
times ranked

3098
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in chemiluminescence and cataluminescence for the detection of volatile sulfur compounds. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 401-427.	6.7	5
2	A novel H ₂ S cataluminescence sensor based on ZnMn ₂ O ₄ nanoparticles. <i>Microchemical Journal</i> , 2022, 172, 106990.	4.5	8
3	Cataluminescence on 2D WS ₂ nanosheets surface for H ₂ S sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131111.	7.8	13
4	A novel Ce(IV)-MOF-based cataluminescence sensor for detection of hydrogen sulfide. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131746.	7.8	10
5	Fe-doped MOF-derived N-rich porous carbon nanoframe for H ₂ S cataluminescence sensing. <i>Luminescence</i> , 2022, , .	2.9	3
6	Efficient Photoinduced Thermocatalytic Chemiluminescence System Based on the Z-Scheme Heterojunction Ag ₃ PO ₄ /Ag ₄ Ti ₃ O ₁₂ for H ₂ S Sensing. <i>Analytical Chemistry</i> , 2022, 94, 9415-9423.	6.5	10
7	Recent advances in ratiometric luminescence sensors. <i>Applied Spectroscopy Reviews</i> , 2021, 56, 324-345.	6.7	33
8	Ozone-induced ratiometric cataluminescence for aromatic compounds discrimination based on Eu,Tb co-doped MgO. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128939.	7.8	11
9	A Two-Photon Excited Near-Infrared Iridium(III) Complex for Multi-signal Detection and Multimodal Imaging of Hypochlorite. <i>Analytical Chemistry</i> , 2021, 93, 4628-4634.	6.5	34
10	Ratiometric Cataluminescence Sensor of Amine Vapors for Discriminating Meat Spoilage. <i>Analytical Chemistry</i> , 2021, 93, 6692-6697.	6.5	26
11	Fluorine functionalized graphitic carbon nitride for cataluminescence sensing of H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129855.	7.8	17
12	Ozone-Activated Cataluminescence Sensor System for Dichloroalkanes Based on Silica Nanospheres. <i>ACS Sensors</i> , 2021, 6, 2893-2901.	7.8	4
13	ZnO Nanoparticle-Decorated CeO ₂ Nanospheres for Cataluminescence Sensing of H ₂ S. <i>ACS Applied Nano Materials</i> , 2021, 4, 9557-9565.	5.0	9
14	Online evaluation of the catalytic performance of MnO ₂ and its application in H ₂ S cataluminescence sensing. <i>Analytica Chimica Acta</i> , 2021, 1180, 338883.	5.4	12
15	Novel Strategy for Engineering the Metal-Oxide@MOF Core@Shell Architecture and Its Applications in Cataluminescence Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3471-3480.	8.0	47
16	Evaluating the Band Gaps of Semiconductors by Cataluminescence. <i>Analytical Chemistry</i> , 2021, 93, 14454-14461.	6.5	6
17	Metabolomics and Transcriptomics Integration of Early Response of <i>Populus tomentosa</i> to Reduced Nitrogen Availability. <i>Frontiers in Plant Science</i> , 2021, 12, 769748.	3.6	6
18	Development of iridium(III) phosphorescent probe for hypochlorous acid detection in macrophages cells and cancer cells co-culture system and application in inflamed mouse model. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127016.	7.8	17

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19	Discrimination and Detection of Oxygenated Volatile Organic Compounds Utilizing Energy Transfer Cataluminescence of La ₂ O ₂ CO ₃ :Eu ³⁺ . <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128069.	7.8	8
20	Recent advances in methodologies and applications of cataluminescence sensing. <i>Luminescence</i> , 2020, 35, 1174-1184.	2.9	24
21	Highly efficient cataluminescence gas sensor for acetone vapor based on UIO-66 metal-organic frameworks as preconcentrator. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127952.	7.8	37
22	Modulating near-infrared persistent luminescence of core-shell nanoplatform for imaging of glutathione in tumor mouse model. <i>Biosensors and Bioelectronics</i> , 2019, 144, 111671.	10.1	24
23	Quantum dots-based chemiluminescence probes: an overview. <i>Luminescence</i> , 2019, 34, 530-543.	2.9	62
24	Camellia-like NiO: A novel cataluminescence sensing material for H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 243-250.	7.8	48
25	Ratiometric Cataluminescence for Rapid Recognition of Volatile Organic Compounds Based on Energy Transfer Process. <i>Analytical Chemistry</i> , 2019, 91, 4860-4867.	6.5	31
26	Fluorescence nano metal organic frameworks modulated by encapsulation for construction of versatile biosensor. <i>Talanta</i> , 2019, 201, 96-103.	5.5	16
27	Raspberry-Like Mesoporous Zn _{1.07} Ga _{2.34} Si _{0.98} O _{6.56} :Cr _{0.01} Nanocarriers for Enhanced Near-Infrared Afterglow Imaging and Combined Cancer Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44978-44988.	8.0	26
28	LRET-based functional persistent luminescence nanoprobe for imaging and detection of cyanide ion. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 189-196.	7.8	24
29	Recent advances in cataluminescence gas sensor: Materials and methodologies. <i>Applied Spectroscopy Reviews</i> , 2019, 54, 306-324.	6.7	31
30	MOFs-derived dodecahedra porous Co ₃ O ₄ : An efficient cataluminescence sensing material for H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 349-357.	7.8	61
31	UV-Assisted Cataluminescent Sensor for Carbon Monoxide Based on Oxygen-Functionalized g-C ₃ N ₄ Nanomaterials. <i>Analytical Chemistry</i> , 2018, 90, 9598-9605.	6.5	31
32	Recent Advances in Graphitic Carbon Nitride-Based Chemiluminescence, Cataluminescence and Electrochemiluminescence. <i>Journal of Analysis and Testing</i> , 2017, 1, 274-290.	5.1	18
33	Metal-Free Cataluminescence Gas Sensor for Hydrogen Sulfide Based on Its Catalytic Oxidation on Silicon Carbide Nanocages. <i>Analytical Chemistry</i> , 2017, 89, 13666-13672.	6.5	40
34	Enclosed hollow tubular ZnO: Controllable synthesis and their high performance cataluminescence gas sensing of H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 1086-1094.	7.8	40
35	Dielectric barrier discharge plasma-assisted fabrication of g-C ₃ N ₄ -Mn ₃ O ₄ composite for high-performance cataluminescence H ₂ S gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1177-1184.	7.8	78
36	A cataluminescence gas sensor based on mesoporous Mg-doped SnO ₂ structures for detection of gaseous acetone. <i>Analytical Methods</i> , 2016, 8, 7816-7823.	2.7	15

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37	Transient Cataluminescence on Flowerlike MgO for Discrimination and Detection of Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2016, 88, 8137-8144.	6.5	40
38	Green synthesis of fluorescence carbon nanoparticles from yam and application in sensitive and selective detection of ATP. <i>Luminescence</i> , 2016, 31, 626-632.	2.9	17
39	A persistent luminescence microsphere-based probe for convenient imaging analysis of dopamine. <i>Analyst</i> , 2016, 141, 5366-5373.	3.5	15
40	Amino-Functionalized Metal-Organic Frameworks Nanoplates-Based Energy Transfer Probe for Highly Selective Fluorescence Detection of Free Chlorine. <i>Analytical Chemistry</i> , 2016, 88, 3413-3420.	6.5	134
41	Cataluminescence gas sensor for ketones based on nanosized NaYF ₄ :Er. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 300-306.	7.8	17
42	One-step facile synthesis of coral-like Zn-doped SnO ₂ and its cataluminescence sensing of 2-butanone. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7132-7138.	10.3	41
43	Advances in nanomaterial-assisted cataluminescence and its sensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 67, 107-127.	11.4	53
44	Fabrication of Fe ₂ O ₃ /g-C ₃ N ₄ composites for cataluminescence sensing of H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 370-376.	7.8	89
45	Fabrication of fluorescent nitrogen-rich graphene quantum dots by tin catalytic carbonization of ethanolamine. <i>RSC Advances</i> , 2015, 5, 60085-60089.	3.6	14
46	Novel metal-organic frameworks-based hydrogen sulfide cataluminescence sensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 614-621.	7.8	53
47	A green solid-phase method for preparation of carbon nitride quantum dots and their applications in chemiluminescent dopamine sensing. <i>RSC Advances</i> , 2015, 5, 55158-55164.	3.6	66
48	Hierarchical SnO ₂ architectures: controllable growth on graphene by atmospheric pressure chemical vapour deposition and application in cataluminescence gas sensor. <i>CrystEngComm</i> , 2014, 16, 3331.	2.6	27
49	Controllable deposition of ZnO-doped SnO ₂ nanowires on Au/graphene and their application in cataluminescence sensing for alcohols and ketones. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 726-735.	7.8	24
50	A Y-doped metal-organic framework-based cataluminescence gas sensor for isobutanol. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 413-419.	7.8	43
51	Luminescent ZnO quantum dots for sensitive and selective detection of dopamine. <i>Talanta</i> , 2013, 107, 133-139.	5.5	118
52	Colorimetric detection of glutathione in human blood serum based on the reduction of oxidized TMB. <i>New Journal of Chemistry</i> , 2013, 37, 2174.	2.8	97
53	Well-redispersed ceria nanoparticles: Promising peroxidase mimetics for H ₂ O ₂ and glucose detection. <i>Analytical Methods</i> , 2012, 4, 3261.	2.7	194
54	Enhanced cataluminescence sensing characteristics of ethanol on hierarchical spheres ZnO. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 93-99.	7.8	19

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55	Uricase-Based Highly Sensitive and Selective Spectrophotometric Determination of Uric Acid Using BSA-Stabilized Au Nanoclusters as Artificial Enzyme. <i>Spectroscopy Letters</i> , 2012, 45, 511-519.	1.0	30
56	Hierarchical hollow microsphere and flower-like indium oxide: Controllable synthesis and application as H ₂ S cataluminescence sensing materials. <i>Materials Research Bulletin</i> , 2012, 47, 2212-2218.	5.2	35
57	Stable and Water-Dispersible Graphene Nanosheets: Sustainable Preparation, Functionalization, and High-Performance Adsorbents for Pb ²⁺ . <i>ChemPlusChem</i> , 2012, 77, 379-386.	2.8	42
58	Graphene sheets decorated with SnO ₂ nanoparticles: in situ synthesis and highly efficient materials for cataluminescence gas sensors. <i>Journal of Materials Chemistry</i> , 2011, 21, 5972.	6.7	290
59	Controllable Synthesis of Y ₂ O ₃ Microstructures for Application in Cataluminescence Gas Sensing. <i>Chemistry - A European Journal</i> , 2011, 17, 7105-7111.	3.3	31
60	Synthesis of Ag ₂ Se nanomaterial by electrodeposition and its application as cataluminescence gas sensor material for carbon tetrachloride. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 311-316.	7.8	29
61	An ethanol gas sensor using energy transfer cataluminescence on nanosized YVO ₄ :Eu ³⁺ surface. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 192-197.	7.8	37
62	Recent Progress in Chemiluminescence for Gas Analysis. <i>Applied Spectroscopy Reviews</i> , 2010, 45, 474-489.	6.7	31
63	A cataluminescence gas sensor based on nanosized V ₂ O ₅ for tert-butyl mercaptan. <i>Talanta</i> , 2010, 82, 733-738.	5.5	33
64	Novel Mn ₃ O ₄ Micro-octahedra: Promising Cataluminescence Sensing Material for Acetone. <i>Chemistry of Materials</i> , 2009, 21, 5066-5071.	6.7	127
65	Controllable synthesis, characterization, and electrochemical properties of manganese oxide nanoarchitectures. <i>Journal of Materials Research</i> , 2008, 23, 780-789.	2.6	22