Tianyu Han

List of Publications by Year in descending order

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Version: 2024-02-01

47 papers	1,947 citations	279798 23 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	2189 citing authors

#	Article	IF	Citations
1	A novel â€œturn-onâ€•fluorescent chemosensor for the selective detection ofAl3+ based on aggregation-induced emission. Chemical Communications, 2012, 48, 416-418.	4.1	346
2	Aggregation-Induced Emission Enhancement of Aryl-Substituted Pyrrole Derivatives. Journal of Physical Chemistry B, 2010, 114, 16731-16736.	2.6	139
3	Defect-sensitive crystals based on diaminomaleonitrile-functionalized Schiff base with aggregation-enhanced emission. Journal of Materials Chemistry C, 2013, 1, 7314.	5.5	124
4	A highly sensitive, single selective, real-time and â€œturn-onâ€•fluorescent sensor for Al3+ detection in aqueous media. Journal of Materials Chemistry, 2012, 22, 19296.	6.7	110
5	A fluorescence-switchable luminogen in the solid state: a sensitive and selective sensor for the fast â€œturn-onâ€•detection of primary amine gas. Chemical Communications, 2013, 49, 4848.	4.1	85
6	A highly selective and instantaneously responsive Schiff base fluorescent sensor for the â€œturn-offâ€• detection of iron(<scp>iii</scp>), iron(<scp>ii</scp>), and copper(<scp>ii</scp>) ions. Analytical Methods, 2019, 11, 642-647.	2.7	74
7	A diethylaminophenol functionalized Schiff base: crystallization-induced emission-enhancement, switchable fluorescence and application for security printing and data storage. Journal of Materials Chemistry C, 2015, 3, 7446-7454.	5.5	69
8	A turn-on type mechanochromic fluorescent material based on defect-induced emission: implication for pressure sensing and mechanical printing. Journal of Materials Chemistry C, 2018, 6, 2476-2482.	5.5	68
9	Mechanochromic luminogen with aggregation-induced emission: implications for ink-free rewritable paper with high fatigue resistance and low toxicity. Journal of Materials Chemistry C, 2016, 4, 8276-8283.	5.5	65
10	Diaminomaleonitrile-based Schiff bases: aggregation-enhanced emission, red fluorescence, mechanochromism and bioimaging applications. Journal of Materials Chemistry C, 2016, 4, 10430-10434.	5.5	65
11	Stimuli-responsive fluorophores with aggregation-induced emission: implication for dual-channel optical data storage. Journal of Materials Chemistry C, 2016, 4, 5334-5341.	5.5	60
12	One-pot synthesis of a mechanochromic AIE luminogen: implication for rewritable optical data storage. Journal of Materials Chemistry C, 2016, 4, 9287-9293.	5.5	60
13	Solvent-assistant self-assembly of an AIE+TICT fluorescent Schiff base for the improved ammonia detection. Talanta, 2016, 150, 104-112.	5.5	46
14	To direct the self-assembly of AIEgens by three-gear switch: Morphology study, amine sensing and assessment of meat spoilage. Sensors and Actuators B: Chemical, 2018, 258, 373-380.	7.8	46
15	Rewritable optical data storage based on mechanochromic fluorescence materials with aggregation-induced emission. Dyes and Pigments, 2019, 160, 830-838.	3.7	43
16	DMF-induced emission of an aryl-substituted pyrrole derivative: a solid thermo-responsive material to detect temperature in a specific range. Journal of Materials Chemistry C, 2013, 1, 7534.	5.5	42
17	Water-directed self-assembly of a red solid emitter with aggregation-enhanced emission: Implication for humidity monitoring. Sensors and Actuators B: Chemical, 2018, 263, 208-217.	7.8	39
18	An AIE luminogen as a multi-channel sensor for ethanol. Sensors and Actuators B: Chemical, 2017, 239, 467-473.	7.8	35

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19	A turn-on mechanochromic luminescent material serving as pressure sensor and rewritable optical data storage. Dyes and Pigments, 2020, 173, 107928.	3.7	35
20	Stoichiometric imbalance-promoted synthesis of polymers containing highly substituted naphthalenes: rhodium-catalyzed oxidative polycoupling of arylboronic acids and internal diynes. Polymer Chemistry, 2013, 4, 1372-1380.	3.9	34
21	Fabricating D-A type AIE luminogen into film sensor for turn-on detection of methanol vapour. Sensors and Actuators B: Chemical, 2020, 319, 128323.	7.8	32
22	Conditional mechanochromic fluorescence with turn-on response: A new way to encrypt and decrypt binary data. Dyes and Pigments, 2018, 159, 252-261.	3.7	27
23	3D cross-correlative matrix temperature detection and non-invasive thermal mapping based on a molecular probe. Chemical Science, 2014, 5, 4388-4393.	7.4	25
24	Fabricating a mechanochromic AIE luminogen into a wearable sensor for volatile organic compound (VOC) detection. Dyes and Pigments, 2021, 192, 109393.	3.7	25
25	Effect of substituent position on aggregation-induced emission, customized self-assembly, and amine detection of donor-acceptor isomers: Implication for meat spoilage monitoring. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 205, 1-11.	3.9	22
26	Self-recovering mechanochromic luminescent material with aggregation-induced emission: Implication for pressure sensor. Dyes and Pigments, 2019, 167, 181-188.	3.7	22
27	A donor-Ï€-acceptor aggregation-induced emission compound serving as a portable fluorescent sensor for detection and differentiation of methanol and ethanol in the gas phase. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 252, 119515.	3.9	18
28	Mechanochromic luminescent materials with aggregation-induced emission: Mechanism study and application for pressure measuring and mechanical printing. Dyes and Pigments, 2020, 173, 107884.	3.7	17
29	Solid-supported synergistic twain probes with aggregation-induced emission: A sensing platform for fingerprinting volatile amines. Talanta, 2018, 178, 522-529.	5.5	16
30	Turn-on type stimuli-responsive fluorescence of diaminomaleonitrile derivatives: Implication for information encryption-decryption. Dyes and Pigments, 2019, 162, 272-280.	3.7	16
31	A dual-channel indicator of fish spoilage based on a D-Ï€-A luminogen serving as a smart label for intelligent food packaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 266, 120433.	3.9	15
32	A chemosensor for fingerprinting liquors: Implication for differentiation and identification. Sensors and Actuators B: Chemical, 2017, 248, 101-107.	7.8	13
33	Insights into the isomeric effect on the self-assembly of donor-acceptor type aggregation-induced emission luminogens: Colour-tuning and shape-controlling. Journal of Luminescence, 2018, 204, 221-229.	3.1	13
34	A mechanochromic luminescent material with aggregation-induced emission: Application for pressure sensing and mapping. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117125.	3.9	13
35	A multi-stimuli-responsive AIE material switching among three emission states. Materials Letters, 2020, 263, 127214.	2.6	12
36	Strategy for optical data encryption and decryption using a D-A type stimuli-responsive AIE material. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118486.	3.9	12

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37	A turn-on type stimuli-responsive fluorescent dye with specific solvent effect: Implication for a new prototype of paper using water as the ink. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 184, 7-12.	3.9	11
38	A dihedral-angle-controlled mechanochromic luminescent material: Application for pressure sensing. Dyes and Pigments, 2020, 180, 108505.	3.7	9
39	Unraveling the defect-induced photoluminescence of a donor-acceptor AIE luminogen. Dyes and Pigments, 2021, 193, 109566.	3.7	8
40	D-A type sensor array for differentiation and identification of white wine varieties based on specific solvent effect activated by CT-LE transition. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 318-323.	3.9	7
41	An information carrier based on turn-on type mechanochromic luminescent material: Application for rewritable binary data storage. Materials Letters, 2019, 243, 38-41.	2.6	7
42	â€œTurn-onâ€•Fluorescent Detection of 2,5-Di(4'-carboxylphenyl)-1-phenylpyrrole to Amines. Acta Chimica Sinica, 2012, 70, 1187.	1.4	5
43	A defect-induced emission material with turn-on mechanoresponsive luminescence serving as a data storage. Dyes and Pigments, 2022, 197, 109916.	3.7	5
44	Toward a simple way for a mechanochromic luminescent material with high contrast ratio and fatigue resistance: Implication for information storage. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 214, 348-354.	3.9	4
45	A donor-acceptor luminogen serving as a haptic film sensor for identity recognition. Dyes and Pigments, 2022, 198, 110034.	3.7	4
46	Fabricating a hydroxynaphthalene benzophenone Schiff base into a wearable fluorescent sensor for point-of-care sensing of volatile organic compounds. Dyes and Pigments, 2022, 205, 110561.	3.7	4
47	High Performance Mechanochromic Luminescent Materials from AIEgens. , 2019, , 109-139.		0