

# Tianyu Han

## List of Publications by Year in descending order

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47  
papers

1,947  
citations

279798

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243625

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docs citations

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times ranked

2189  
citing authors

#	ARTICLE	IF	CITATIONS
1	A dual-channel indicator of fish spoilage based on a D- $\pi$ -A luminogen serving as a smart label for intelligent food packaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 266, 120433.	3.9	15
2	A defect-induced emission material with turn-on mechanoresponsive luminescence serving as a data storage. <i>Dyes and Pigments</i> , 2022, 197, 109916.	3.7	5
3	A donor-acceptor luminogen serving as a haptic film sensor for identity recognition. <i>Dyes and Pigments</i> , 2022, 198, 110034.	3.7	4
4	Fabricating a hydroxynaphthalene benzophenone Schiff base into a wearable fluorescent sensor for point-of-care sensing of volatile organic compounds. <i>Dyes and Pigments</i> , 2022, 205, 110561.	3.7	4
5	A donor- $\pi$ -acceptor aggregation-induced emission compound serving as a portable fluorescent sensor for detection and differentiation of methanol and ethanol in the gas phase. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 252, 119515.	3.9	18
6	Fabricating a mechanochromic AIE luminogen into a wearable sensor for volatile organic compound (VOC) detection. <i>Dyes and Pigments</i> , 2021, 192, 109393.	3.7	25
7	Unraveling the defect-induced photoluminescence of a donor-acceptor AIE luminogen. <i>Dyes and Pigments</i> , 2021, 193, 109566.	3.7	8
8	A turn-on mechanochromic luminescent material serving as pressure sensor and rewritable optical data storage. <i>Dyes and Pigments</i> , 2020, 173, 107928.	3.7	35
9	Mechanochromic luminescent materials with aggregation-induced emission: Mechanism study and application for pressure measuring and mechanical printing. <i>Dyes and Pigments</i> , 2020, 173, 107884.	3.7	17
10	A multi-stimuli-responsive AIE material switching among three emission states. <i>Materials Letters</i> , 2020, 263, 127214.	2.6	12
11	Strategy for optical data encryption and decryption using a D-A type stimuli-responsive AIE material. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118486.	3.9	12
12	A dihedral-angle-controlled mechanochromic luminescent material: Application for pressure sensing. <i>Dyes and Pigments</i> , 2020, 180, 108505.	3.7	9
13	Fabricating D-A type AIE luminogen into film sensor for turn-on detection of methanol vapour. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128323.	7.8	32
14	A highly selective and instantaneously responsive Schiff base fluorescent sensor for the "turn-off" detection of iron(III), iron(II), and copper(II) ions. <i>Analytical Methods</i> , 2019, 11, 642-647.	2.7	74
15	A mechanochromic luminescent material with aggregation-induced emission: Application for pressure sensing and mapping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 220, 117125.	3.9	13
16	Self-recovering mechanochromic luminescent material with aggregation-induced emission: Implication for pressure sensor. <i>Dyes and Pigments</i> , 2019, 167, 181-188.	3.7	22
17	An information carrier based on turn-on type mechanochromic luminescent material: Application for rewritable binary data storage. <i>Materials Letters</i> , 2019, 243, 38-41.	2.6	7
18	Toward a simple way for a mechanochromic luminescent material with high contrast ratio and fatigue resistance: Implication for information storage. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 348-354.	3.9	4

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19	Rewritable optical data storage based on mechanochromic fluorescence materials with aggregation-induced emission. <i>Dyes and Pigments</i> , 2019, 160, 830-838.	3.7	43
20	Turn-on type stimuli-responsive fluorescence of diaminomaleonitrile derivatives: Implication for information encryption-decryption. <i>Dyes and Pigments</i> , 2019, 162, 272-280.	3.7	16
21	High Performance Mechanochromic Luminescent Materials from AIEgens. , 2019, , 109-139.		0
22	Water-directed self-assembly of a red solid emitter with aggregation-enhanced emission: Implication for humidity monitoring. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 208-217.	7.8	39
23	A turn-on type mechanochromic fluorescent material based on defect-induced emission: implication for pressure sensing and mechanical printing. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2476-2482.	5.5	68
24	D-A type sensor array for differentiation and identification of white wine varieties based on specific solvent effect activated by CT-LE transition. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 318-323.	3.9	7
25	Solid-supported synergistic twain probes with aggregation-induced emission: A sensing platform for fingerprinting volatile amines. <i>Talanta</i> , 2018, 178, 522-529.	5.5	16
26	To direct the self-assembly of AIEgens by three-gear switch: Morphology study, amine sensing and assessment of meat spoilage. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 373-380.	7.8	46
27	Conditional mechanochromic fluorescence with turn-on response: A new way to encrypt and decrypt binary data. <i>Dyes and Pigments</i> , 2018, 159, 252-261.	3.7	27
28	Effect of substituent position on aggregation-induced emission, customized self-assembly, and amine detection of donor-acceptor isomers: Implication for meat spoilage monitoring. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 205, 1-11.	3.9	22
29	Insights into the isomeric effect on the self-assembly of donor-acceptor type aggregation-induced emission luminogens: Colour-tuning and shape-controlling. <i>Journal of Luminescence</i> , 2018, 204, 221-229.	3.1	13
30	A turn-on type stimuli-responsive fluorescent dye with specific solvent effect: Implication for a new prototype of paper using water as the ink. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 7-12.	3.9	11
31	A chemosensor for fingerprinting liquors: Implication for differentiation and identification. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 101-107.	7.8	13
32	An AIE luminogen as a multi-channel sensor for ethanol. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 467-473.	7.8	35
33	Stimuli-responsive fluorophores with aggregation-induced emission: implication for dual-channel optical data storage. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5334-5341.	5.5	60
34	Mechanochromic luminogen with aggregation-induced emission: implications for ink-free rewritable paper with high fatigue resistance and low toxicity. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8276-8283.	5.5	65
35	One-pot synthesis of a mechanochromic AIE luminogen: implication for rewritable optical data storage. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9287-9293.	5.5	60
36	Diaminomaleonitrile-based Schiff bases: aggregation-enhanced emission, red fluorescence, mechanochromism and bioimaging applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10430-10434.	5.5	65

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37	Solvent-assistant self-assembly of an AIE+TICT fluorescent Schiff base for the improved ammonia detection. <i>Talanta</i> , 2016, 150, 104-112.	5.5	46
38	A diethylaminophenol functionalized Schiff base: crystallization-induced emission-enhancement, switchable fluorescence and application for security printing and data storage. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7446-7454.	5.5	69
39	3D cross-correlative matrix temperature detection and non-invasive thermal mapping based on a molecular probe. <i>Chemical Science</i> , 2014, 5, 4388-4393.	7.4	25
40	Defect-sensitive crystals based on diaminomaleonitrile-functionalized Schiff base with aggregation-enhanced emission. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7314.	5.5	124
41	DMF-induced emission of an aryl-substituted pyrrole derivative: a solid thermo-responsive material to detect temperature in a specific range. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7534.	5.5	42
42	A fluorescence-switchable luminogen in the solid state: a sensitive and selective sensor for the fast "turn-on" detection of primary amine gas. <i>Chemical Communications</i> , 2013, 49, 4848.	4.1	85
43	Stoichiometric imbalance-promoted synthesis of polymers containing highly substituted naphthalenes: rhodium-catalyzed oxidative polycondensation of arylboronic acids and internal diynes. <i>Polymer Chemistry</i> , 2013, 4, 1372-1380.	3.9	34
44	A highly sensitive, single selective, real-time and "turn-on" fluorescent sensor for Al <sup>3+</sup> detection in aqueous media. <i>Journal of Materials Chemistry</i> , 2012, 22, 19296.	6.7	110
45	A novel "turn-on" fluorescent chemosensor for the selective detection of Al <sup>3+</sup> based on aggregation-induced emission. <i>Chemical Communications</i> , 2012, 48, 416-418.	4.1	346
46	"Turn-on" Fluorescent Detection of 2,5-Di(4'-carboxylphenyl)-1-phenylpyrrole to Amines. <i>Acta Chimica Sinica</i> , 2012, 70, 1187.	1.4	5
47	Aggregation-Induced Emission Enhancement of Aryl-Substituted Pyrrole Derivatives. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16731-16736.	2.6	139