

Taihong Liu

List of Publications by Year in descending order

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67
papers

1,936
citations

236612

25
h-index

264894

42
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68
all docs

68
docs citations

68
times ranked

2260
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel picric acid film sensor via combination of the surface enrichment effect of chitosan films and the aggregation-induced emission effect of siloles. <i>Journal of Materials Chemistry</i> , 2009, 19, 7347.	6.7	330
2	Novel BODIPY-Based Fluorescence Turn-on Sensor for Fe ³⁺ and Its Bioimaging Application in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18408-18412.	4.0	156
3	Non-contact identification and differentiation of illicit drugs using fluorescent films. <i>Nature Communications</i> , 2018, 9, 1695.	5.8	113
4	An Ultrasensitive Fluorescent Sensing Nanofilm for Organic Amines Based on Cholesterol-Modified Perylene Bisimide. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1576-1582.	1.7	72
5	Single-layer assembly of pyrene end-capped terthiophene and its sensing performances to nitroaromatic explosives. <i>Journal of Materials Chemistry</i> , 2012, 22, 1069-1077.	6.7	69
6	Preparation of pyrene-functionalized fluorescent film with a benzene ring in spacer and sensitive detection to picric acid in aqueous phase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 356-362.	2.0	54
7	Photochemical Stabilization of Terthiophene and Its Utilization as a New Sensing Element in the Fabrication of Monolayer-Chemistry-Based Fluorescent Sensing Films. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1245-1253.	4.0	47
8	Chromophoric materials derived from a natural azulene: syntheses, halochromism and one-photon and two-photon microlithography. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8495-8503.	2.7	46
9	Highly Sensitive and Discriminative Detection of BTEX in the Vapor Phase: A Film-Based Fluorescent Approach. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35647-35655.	4.0	46
10	A Butterfly-Shaped Pyrene Derivative of Cholesterol and Its Uses as a Fluorescent Probe. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5659-5667.	1.2	39
11	A Perylene Bisimide-Contained Molecular Dyad with High-Efficient Charge Separation: Switchability, Tunability, and Applicability in Moisture Detection. <i>Advanced Functional Materials</i> , 2019, 29, 1905295.	7.8	39
12	Dual-Mode Photonic Sensor Array for Detecting and Discriminating Hydrazine and Aliphatic Amines. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11084-11093.	4.0	38
13	Perylene Bisimide Derivative-Based Fluorescent Film Sensors: From Sensory Materials to Device Fabrication. <i>Langmuir</i> , 2020, 36, 2155-2169.	1.6	38
14	Fluorescent Films Based on Molecular-Gel Networks and Their Sensing Performances. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9830-9836.	4.0	36
15	Flexible and Transparent Oligothiophene-Carborane-Containing Hybrid Films for Nonlinear Optical Limiting Based on Efficient Two-Photon Absorption. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28985-28995.	4.0	36
16	Film-Based Fluorescent Sensor for Monitoring Ethanol-Water-Mixture Composition via Vapor Sampling. <i>Analytical Chemistry</i> , 2018, 90, 14088-14093.	3.2	34
17	Synthesis, optical properties and explosive sensing performances of a series of novel π -conjugated aromatic end-capped oligothiophenes. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 52-60.	6.5	33
18	Linear Photophysics and Femtosecond Nonlinear Spectroscopy of a Star-Shaped Squaraine Derivative with Efficient Two-Photon Absorption. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11099-11110.	1.5	33

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19	Fast, sensitive, selective and reversible fluorescence monitoring of TATP in a vapor phase. <i>Chemical Communications</i> , 2019, 55, 941-944.	2.2	33
20	Marriage of Aggregation-Induced Emission and Intramolecular Charge Transfer toward High Performance Film-Based Sensing of Phenolic Compounds in the Air. <i>Analytical Chemistry</i> , 2019, 91, 14451-14457.	3.2	32
21	Improved Synthesis of the Triazacryptand (TAC) and its Application in the Construction of a Fluorescent TAC-BODIPY Conjugate for K^{+} Sensing in Live Cells. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1189-1192.	1.2	30
22	Fluorescent film sensors based on SAMs of pyrene derivatives for detecting nitroaromatics in aqueous solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 31-37.	2.0	28
23	Unambiguous Discrimination and Detection of Controlled Chemical Vapors by a Film-Based Fluorescent Sensor Array. <i>Advanced Materials Technologies</i> , 2019, 4, 1800644.	3.0	27
24	A portable and autonomous multichannel fluorescence detector for on-line and in situ explosive detection in aqueous phase. <i>Lab on A Chip</i> , 2012, 12, 4821.	3.1	26
25	Systematic Molecular Engineering of a Series of Aniline-Based Squaraine Dyes and Their Structure-Related Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3994-4008.	1.5	25
26	Dual-Phase Emission AIEgen with ICT Properties for VOC Chromic Sensing. <i>Analytical Chemistry</i> , 2021, 93, 8501-8507.	3.2	24
27	Monomolecular-layer assembly of oligothiophene on glass wafer surface and its fluorescence sensitization by formaldehyde vapor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 202, 178-184.	2.0	23
28	Detection of gaseous amines with a fluorescent film based on a perylene bisimide-functionalized copolymer. <i>New Journal of Chemistry</i> , 2018, 42, 12737-12744.	1.4	23
29	Alternative Copolymerization of a Conjugated Segment and a Flexible Segment and Fabrication of a Fluorescent Sensing Film for HCl in the Vapor Phase. <i>Chemistry - an Asian Journal</i> , 2013, 8, 101-107.	1.7	22
30	Far-Red-Emitting TEG-Substituted Squaraine Dye: Synthesis, Optical Properties, and Selective Detection of Cyanide in Aqueous Solution. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3957-3964.	1.2	22
31	Development of film sensors based on ZnO nanoparticles for amine gas detection. <i>Applied Surface Science</i> , 2011, 258, 254-259.	3.1	21
32	Film-based fluorescence sensing: a "chemical nose" for nicotine. <i>Chemical Communications</i> , 2019, 55, 12679-12682.	2.2	21
33	A Quinoline-Containing Conjugated Polymer-Based Sensing Platform for Amino Acids. <i>Macromolecules</i> , 2011, 44, 7096-7099.	2.2	20
34	High-Performance Ketone Sensing in Vapor Phase Enabled by <i>o</i> -Carborane-Modified Cyclometalated Alkynyl-Gold(III) Complex-Based Fluorescent Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5625-5633.	4.0	20
35	Electronic Nature of Neutral and Charged Two-Photon Absorbing Squaraines for Fluorescence Bioimaging Application. <i>ACS Omega</i> , 2019, 4, 14669-14679.	1.6	19
36	A film-based fluorescent device for vapor phase detection of acetone and related peroxide explosives. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1218-1224.	3.2	19

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37	High-Performance Trichloroacetic Acid Sensor Based on the Intramolecular Hydrogen Bond Formation and Disruption of a Specially Designed Fluorescent <i>o</i> -Carborane Derivative in the Film State. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19342-19350.	4.0	19
38	Cholesterol modified OPE functionalized film: fabrication, fluorescence behavior and sensing performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 7529.	6.7	18
39	Fluorenyl-Loaded Quatsome Nanostructured Fluorescent Probes. <i>ACS Omega</i> , 2017, 2, 4112-4122.	1.6	18
40	Squaraine-hydrazine adducts for fast and colorimetric detection of aldehydes in aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 88-93.	4.0	18
41	Far-Red-to NIR-Emitting Adamantyl-Functionalized Squaraine Dye: Aggregation, Dissociation, and Cell Imaging. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4095-4102.	1.2	15
42	Fabrication of a Novel Cholic Acid Modified OPE-Based Fluorescent Film and Its Sensing Performances to Inorganic Acids in Acetone. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6935-6941.	4.0	12
43	Orthogonal carbazole-perylene bisimide pentad: a photoconversion-tunable photosensitizer with diversified excitation and excited-state relaxation pathways. <i>Science China Chemistry</i> , 2021, 64, 2193-2202.	4.2	12
44	Direct Distinguishing of Methanol over Ethanol with a Nanofilm-Based Fluorescent Sensor. <i>Advanced Materials Technologies</i> , 2021, 6, 2000933.	3.0	11
45	A dual-chromophore-based cross-reactive fluorescent sensor for efficient discrimination of multiple anionic surfactants. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129408.	4.0	11
46	Naphthyl End-Capped Terthiophene-Based Chemiresistive Sensors for Biogenic Amine Detection and Meat Spoilage Monitoring. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2751-2758.	1.7	10
47	Sensing Performances of Oligosilane Functionalized Fluorescent Film to Nitrobenzene in Aqueous Solution. <i>Sensor Letters</i> , 2009, 7, 1141-1146.	0.4	9
48	A Configurationally Tunable Perylene Bisimide Derivative-Based Fluorescent Film Sensor for the Reliable Detection of Volatile Basic Nitrogen towards Fish Freshness Evaluation. <i>Chinese Journal of Chemistry</i> , 2022, 40, 201-208.	2.6	9
49	Enhanced two-photon absorption of sandwich-like coordination complexes based on squaraine and metallomacrocyclic derivatives. <i>Dyes and Pigments</i> , 2021, 193, 109487.	2.0	8
50	Rapid and colorimetric evaluation of G-series nerve agents and simulants using the squaraine-ethanolamine adducts. <i>Dyes and Pigments</i> , 2022, 197, 109870.	2.0	8
51	Fabrication and humidity sensing performance studies of a fluorescent film based on a cholesteryl derivative of perylene bisimide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 165, 145-149.	2.0	7
52	Nanoantennas Involved Optical Plasmonic Cavity for Improved Luminescence of Quantum Dots Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44760-44767.	4.0	7
53	Rigid Bay-Conjugated Perylene Bisimide Rotors: Solvent-Induced Excited-State Symmetry Breaking and Resonance-Enhanced Two-Photon Absorption. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4939-4947.	1.2	7
54	Resonance-Enhanced Two-Photon Absorption and Optical Power Limiting Properties of Three-Dimensional Perylene Bisimide Derivatives. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11540-11547.	1.2	6

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55	Bright CdSe/CdS Quantum Dot Light-Emitting Diodes with Modulated Carrier Dynamics via the Local Kirchhoff Law. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56476-56484.	4.0	6
56	Terpyridine Functionalized Oligothiophene: Cadmium(II) Ion Sensing <i>via</i> Visualization and Fluorescence. <i>ChemistrySelect</i> , 2018, 3, 5559-5565.	0.7	5
57	Construction of naphthalimide-based fluorescent amphiphilic aggregates and sensitive detection of persulfate and pyrophosphate anions. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131931.	4.0	5
58	A triphenylamine-based Pt(<i>ii</i>) metallacage <i>via</i> coordination-driven self-assembly for nonlinear optical power limiting. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10429-10438.	2.7	5
59	Photochemical Synthesis of Solvatochromic Fluorophore from the C-C Coupling Reaction for Undergraduate Laboratory Experiment. <i>Journal of Chemical Education</i> , 2020, 97, 4469-4474.	1.1	4
60	Perylene Bisimide-Cored Supramolecular Coordination Complexes: Interplay between Ensembles, Excited State Processes, and Aggregation Behaviors. <i>Chemistry - A European Journal</i> , 2021, 27, 14876-14885.	1.7	3
61	Highly improved performance of a film-based fluorescent sensor <i>via</i> a nanomesh scaffold strategy. <i>Sensors & Diagnostics</i> , 2022, 1, 130-133.	1.9	3
62	Through-Space Charge Transfer: A New Way to Develop High-Performance Fluorescence Sensing Film towards Optoelectronically Inert Alkanes. <i>Angewandte Chemie</i> , 0, , .	1.6	1
63	Interfacially confined preparation of fumaronitrile-based nanofilms exhibiting broadband saturable absorption properties. <i>Journal of Colloid and Interface Science</i> , 2022, 627, 569-577.	5.0	1
64	RGD-conjugated PMAO Nanoparticles Encapsulating a Squaraine Probe for Tumor Vasculature Imaging. , 2017, , .		0
65	Supramolecular gel strategy-based nanomaterials with room temperature spin transition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 126016.	2.3	0
66	Nanostructured Quasomes Encapsulating Fluorene-Derivatives for Lysosomal Labeling and Tracking. , 2017, , .		0
67	ZnSe/ZnS Core-Shell Quantum Dots Doped with Mn ²⁺ Ions for Magnetic State-Manipulated Light Sources. <i>ACS Applied Nano Materials</i> , 2022, 5, 8448-8456.	2.4	0