

Tao Yi

List of Publications by Year in descending order

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109
papers

5,772
citations

66234

42
h-index

79541

73
g-index

113
all docs

113
docs citations

113
times ranked

6336
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-molecular-mass gels responding to ultrasound and mechanical stress: towards self-healing materials. <i>Chemical Society Reviews</i> , 2014, 43, 5346.	18.7	418
2	FRET-based sensor for imaging chromium(iii) in living cells. <i>Chemical Communications</i> , 2008, , 3387.	2.2	361
3	Amphiphilic Diarylethene as a Photoswitchable Probe for Imaging Living Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 15750-15751.	6.6	196
4	A Highly Selective and Multisignaling Optical~Electrochemical Sensor for Hg ²⁺ Based on a Phosphorescent Iridium(III) Complex. <i>Organometallics</i> , 2007, 26, 2077-2081.	1.1	190
5	Peptide Functionalized Polydiacetylene Liposomes Act as a Fluorescent Turn-On Sensor for Bacterial Lipopolysaccharide. <i>Journal of the American Chemical Society</i> , 2011, 133, 9720-9723.	6.6	175
6	Deformylation reaction-based probe for <i>in vivo</i> imaging of HOCl. <i>Chemical Science</i> , 2018, 9, 495-501.	3.7	161
7	Helical Self-Assembly-Induced Singlet~Triplet Emissive Switching in a Mechanically Sensitive System. <i>Journal of the American Chemical Society</i> , 2017, 139, 785-791.	6.6	153
8	A Molecular Peptide Beacon for the Ratiometric Sensing of Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2012, 134, 1958-1961.	6.6	146
9	Large Red-Shifted Fluorescent Emission via Intermolecular π - π Stacking in 4-Ethynyl-1,8-naphthalimide-Based Supramolecular Assemblies. <i>Langmuir</i> , 2014, 30, 11753-11760.	1.6	138
10	Polymorphism-dependent and piezochromic luminescence based on molecular packing of a conjugated molecule. <i>Chemical Science</i> , 2014, 5, 3922-3928.	3.7	136
11	pH-Dependent Fluorescent Probe That Can Be Tuned for Cysteine or Homocysteine. <i>Organic Letters</i> , 2017, 19, 82-85.	2.4	136
12	A Highly Sensitive Ratiometric Fluorescent Probe for the Detection of Cytoplasmic and Nuclear Hydrogen Peroxide. <i>Analytical Chemistry</i> , 2014, 86, 9970-9976.	3.2	129
13	Multiresponsive Switchable Diarylethene and Its Application in Bioimaging. <i>Organic Letters</i> , 2009, 11, 3818-3821.	2.4	113
14	Artificial Light-Harvesting Metallacycle System with Sequential Energy Transfer for Photochemical Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 1313-1317.	6.6	112
15	Thixotropic and self-healing triggered reversible rheology switching in a peptide-based organogel with a cross-linked nano-ring pattern. <i>Soft Matter</i> , 2012, 8, 3329.	1.2	106
16	Visual Recognition of Aliphatic and Aromatic Amines Using a Fluorescent Gel: Application of a Sonication-Triggered Organogel. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13569-13577.	4.0	105
17	Release of Amino~or Carboxy~Containing Compounds Triggered by HOCl: Application for Imaging and Drug Design. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4547-4551.	7.2	100
18	Mitochondria-Directed Fluorescent Probe for the Detection of Hydrogen Peroxide near Mitochondrial DNA. <i>Analytical Chemistry</i> , 2015, 87, 10579-10584.	3.2	97

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19	Fluorescent supramolecular self-assembly gels and their application as sensors: A review. <i>Coordination Chemistry Reviews</i> , 2021, 434, 213792.	9.5	97
20	A spiropyran-based fluorescent probe for the specific detection of β -amyloid peptide oligomers in Alzheimer's disease. <i>Chemical Communications</i> , 2016, 52, 8865-8868.	2.2	82
21	Hydrogen bonding assisted switchable fluorescence in self-assembled complexes containing diarylethene: controllable fluorescent emission in the solid state. <i>Journal of Materials Chemistry</i> , 2007, 17, 2483.	6.7	78
22	Tunable red-to-green-to-blue fluorescent organogels on the basis of intermolecular energy transfer. <i>Journal of Materials Chemistry</i> , 2008, 18, 886.	6.7	75
23	Iridium complex triggered white-light-emitting gel and its response to cysteine. <i>Journal of Materials Chemistry</i> , 2012, 22, 2650-2657.	6.7	69
24	Density controlled oil uptake and beyond: from carbon nanotubes to graphene nanoribbon aerogels. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20547-20553.	5.2	69
25	A smart drug: a pH-responsive photothermal ablation agent for Golgi apparatus activated cancer therapy. <i>Chemical Communications</i> , 2017, 53, 6424-6427.	2.2	68
26	Thermostable succinonitrile-based gel electrolyte for efficient, long-life dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2007, 17, 1602.	6.7	65
27	Strong Blue Emissive Supramolecular Self-Assembly System Based on Naphthalimide Derivatives and Its Ability of Detection and Removal of 2,4,6-Trinitrophenol. <i>Langmuir</i> , 2017, 33, 7788-7798.	1.6	63
28	An Imine-Linked Metal-Organic Framework as a Reactive Oxygen Species Generator. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2534-2540.	7.2	63
29	A ratiometric fluorescent probe for the detection of hydroxyl radicals in living cells. <i>Chemical Communications</i> , 2014, 50, 4843-4845.	2.2	61
30	A fluorescent non-conventional organogelator with gelation-assisted piezochromic and fluoride-sensing properties. <i>Dyes and Pigments</i> , 2017, 137, 111-116.	2.0	61
31	Morphological transformation between three-dimensional gel network and spherical vesicles via sonication. <i>Soft Matter</i> , 2012, 8, 4494.	1.2	57
32	Diarylethene based fluorescent switchable probes for the detection of amyloid- β pathology in Alzheimer's disease. <i>Chemical Communications</i> , 2015, 51, 125-128.	2.2	57
33	Colour change and luminescence enhancement in a cholesterol-based terpyridyl platinum metallogel via sonication. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1753.	2.7	56
34	Ribosomal RNA-Selective Light-Up Fluorescent Probe for Rapidly Imaging the Nucleolus in Live Cells. <i>ACS Sensors</i> , 2019, 4, 1409-1416.	4.0	55
35	Mitochondria-Targeted Ratiometric Fluorescent Probe Based on Diketopyrrolopyrrole for Detecting and Imaging of Endogenous Superoxide Anion in Vitro and in Vivo. <i>Analytical Chemistry</i> , 2019, 91, 5786-5793.	3.2	55
36	Formation of a large-scale ordered honeycomb pattern by an organogelator via a self-assembly process. <i>Chemical Communications</i> , 2010, 46, 3553.	2.2	53

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37	Cu ₂ S Nanocrystals Cross-Linked with Chlorin e6-Functionalized Polyethylenimine for Synergistic Photodynamic and Photothermal Therapy of Cancer. ACS Applied Materials & Interfaces, 2018, 10, 16344-16351.	4.0	51
38	Water-soluble MoS ₂ quantum dots for facile and sensitive fluorescence sensing of alkaline phosphatase activity in serum and live cells based on the inner filter effect. Nanoscale, 2018, 10, 21298-21306.	2.8	49
39	Multicolor imaging of hydrogen peroxide level in living and apoptotic cells by a single fluorescent probe. Biosensors and Bioelectronics, 2017, 91, 115-121.	5.3	45
40	MoS ₂ quantum dots as a unique fluorescent "turn-off" probe for the simple and rapid determination of adenosine triphosphate. Journal of Materials Chemistry B, 2019, 7, 2549-2556.	2.9	45
41	A Smart Theranostic Prodrug System Activated by Reactive Oxygen Species for Regional Chemotherapy of Metastatic Cancer. Angewandte Chemie - International Edition, 2022, 61, .	7.2	45
42	Two-component organogel for visually detecting nitrite anion. Journal of Materials Chemistry C, 2014, 2, 1854-1861.	2.7	44
43	Self-Assembly of Amphiphilic Peptides for Recognizing High Furin-Expressing Cancer Cells. ACS Applied Materials & Interfaces, 2019, 11, 12327-12334.	4.0	43
44	Photoinduced Radical Emission in a Coassembly System. Angewandte Chemie - International Edition, 2021, 60, 23842-23848.	7.2	43
45	Tunable and Switchable Control of Luminescence through Multiple Physical Stimulations in Aggregation-Based Monocomponent Systems. ACS Applied Materials & Interfaces, 2015, 7, 24312-24321.	4.0	40
46	Dual-Modality Detection of Early-Stage Drug-Induced Acute Kidney Injury by an Activatable Probe. ACS Sensors, 2020, 5, 2457-2466.	4.0	40
47	Multifunctional Smart Yolk-Shell Nanostructure with Mesoporous MnO ₂ Shell for Enhanced Cancer Therapy. ACS Applied Materials & Interfaces, 2020, 12, 38906-38917.	4.0	39
48	A novel photoresponsive organogel based on azobenzene. Journal of Physical Organic Chemistry, 2008, 21, 338-343.	0.9	37
49	Polymorphism and mechanochromic luminescence of a highly solid-emissive quinoline- <i>Î</i> ² -ketone boron difluoride dye. CrystEngComm, 2015, 17, 6674-6680.	1.3	37
50	HOCl-Activated Aggregation of Gold Nanoparticles for Multimodality Therapy of Tumors. Advanced Science, 2021, 8, e2100074.	5.6	37
51	Instant hydrogel formation of terpyridine-based complexes triggered by DNA <i>via</i> non-covalent interaction. Nanoscale, 2019, 11, 4044-4052.	2.8	36
52	A novel near-infrared fluorescent probe for detection of early-stage A β ² protofibrils in Alzheimer's disease. Chemical Communications, 2020, 56, 1625-1628.	2.2	35
53	A pH-responsive organic photosensitizer specifically activated by cancer lysosomes. Dyes and Pigments, 2018, 156, 285-290.	2.0	34
54	Sugar based nanotube assembly for the construction of sonication triggered hydrogel: an application of the entrapment of tetracycline hydrochloride. Journal of Materials Chemistry B, 2015, 3, 7366-7371.	2.9	33

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55	pH-responsive Ag ₂ S nanodots loaded with heat shock protein 70 inhibitor for photoacoustic imaging-guided photothermal cancer therapy. <i>Acta Biomaterialia</i> , 2020, 115, 358-370.	4.1	33
56	Rational design of three-dimensional nitrogen-doped carbon nanoleaf networks for high-performance oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5617-5627.	5.2	32
57	NIR fluorescent probes with good water-solubility for detection of amyloid beta aggregates in Alzheimer's disease. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5535-5540.	2.9	32
58	A fluorescent probe operating under weak acidic conditions for the visualization of HOCl in solid tumors in vivo. <i>Science China Chemistry</i> , 2020, 63, 1153-1158.	4.2	31
59	Gelation induced reversible syneresis via structural evolution. <i>Journal of Materials Chemistry</i> , 2009, 19, 3971.	6.7	30
60	Detecting Basal Myeloperoxidase Activity in Living Systems with a Near-Infrared Emissive "Turn-On" Probe. <i>Analytical Chemistry</i> , 2020, 92, 10971-10978.	3.2	28
61	Cyclodextrin-Assisted Two-Component Sonogel for Visual Humidity Sensing. <i>Langmuir</i> , 2017, 33, 1090-1096.	1.6	27
62	A fluoride activated methylene blue releasing platform for imaging and antimicrobial photodynamic therapy of human dental plaque. <i>Chemical Communications</i> , 2018, 54, 13115-13118.	2.2	27
63	Diketopyrrolopyrrole-based multifunctional ratiometric fluorescent probe and β -glutamyltranspeptidase-triggered activatable photosensitizer for tumor therapy. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8183-8190.	2.7	26
64	Novel Hydrogel Material as a Potential Embolic Agent in Embolization Treatments. <i>Scientific Reports</i> , 2016, 6, 32145.	1.6	25
65	Intrinsically Coupled 3D nGs@CNTs Frameworks as Anode Materials for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 7289-7295.	3.2	24
66	White light emission from a two-component hybrid gel via an energy transfer process. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32297-32303.	1.3	24
67	Construction of a multi-signal near-infrared fluorescent probe for sensing of hypochlorite concentration fluctuation in living animals. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128732.	4.0	24
68	Real-time monitoring and accurate diagnosis of drug-induced hepatotoxicity <i>in vivo</i> by ratio-fluorescence and photoacoustic imaging of peroxynitrite. <i>Nanoscale</i> , 2020, 12, 10216-10225.	2.8	23
69	Tuning of the Spin States in Trinuclear Cobalt Compounds of Pyridazine by the Second Simple Bridging Ligand. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1381-1387.	1.0	22
70	Effect of water on the supramolecular assembly and functionality of a naphthalimide derivative: tunable honeycomb structure with mechanochromic properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5910-5916.	2.7	22
71	Fabrication of multiplicate nanostructures via manipulation of the self-assembly between an adamantane based gelator and cyclodextrin. <i>Soft Matter</i> , 2013, 9, 9449.	1.2	20
72	From vesicles to solid spheres: terminal functional group induced morphology modification. <i>Soft Matter</i> , 2010, 6, 2679.	1.2	18

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73	Vesicleâ€“tubeâ€“ribbon evolution via spontaneous fusion in a self-correcting supramolecular tissue. <i>CrystEngComm</i> , 2015, 17, 8039-8046.	1.3	18
74	Photoisomerization-induced morphology and transparency transition in an azobenzene based two-component organogel system. <i>Journal of Colloid and Interface Science</i> , 2015, 458, 187-193.	5.0	18
75	Design of High-Contrast Mechanochromic Materials Based on Aggregation-Induced Emissive Pyran Derivatives Guided by Polymorph Predictions. <i>CCS Chemistry</i> , 2022, 4, 899-909.	4.6	18
76	Stericâ€“Structureâ€“Dependent Gel Formation, Hierarchical Structures, Rheological Behavior, and Surface Wettability. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3196-3204.	1.7	17
77	A lysosome-targeted near-infrared fluorescent probe for cell imaging of Cu ²⁺ . <i>Dyes and Pigments</i> , 2022, 204, 110472.	2.0	17
78	Release of Aminoâ€“or Carboxyâ€“Containing Compounds Triggered by HOCl: Application for Imaging and Drug Design. <i>Angewandte Chemie</i> , 2019, 131, 4595-4599.	1.6	15
79	From nano ribbon to fibre by concentration control. <i>CrystEngComm</i> , 2012, 14, 8057.	1.3	13
80	A Bonded Double-Doped Graphene Nanoribbon Framework for Advanced Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16649-16655.	4.0	13
81	An Integrated Droplet Manipulation Platform with Photodeformable Microfluidic Channels. <i>Small Methods</i> , 2021, 5, e2100969.	4.6	13
82	Hybrid Mesoporous MnO ₂ -Upconversion Nanoparticles for Image-Guided Lung Cancer Spinal Metastasis Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18031-18042.	4.0	13
83	A novel o-nitrobenzyl-based photocleavable antitumor prodrug with the capability of releasing 5-fluorouracil. <i>Science Bulletin</i> , 2016, 61, 459-467.	4.3	12
84	Halogen Effect on Non-Conventional Organogel Assisted by Balanced ĨĖĖ Interaction. <i>ChemistrySelect</i> , 2017, 2, 5421-5426.	0.7	12
85	A NIR fluorescent probe based on phenazine with a large Stokes shift for the detection and imaging of endogenous H ₂ O ₂ in RAW 264.7 cells. <i>Analyst</i> , The, 2020, 145, 4196-4203.	1.7	12
86	A Smart Theranostic Prodrug System Activated by Reactive Oxygen Species for Regional Chemotherapy of Metastatic Cancer. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	12
87	From Fluorescent Probes to the Theranostics Platform. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1964-1974.	2.6	12
88	Novel Chromogenic Chemosensors for Fluoride Anion Based on 8-Hydroxyquinoline Azo Derivatives. <i>Chinese Journal of Chemistry</i> , 2007, 25, 616-622.	2.6	11
89	Nanohybrid material of bilateral switch based on diarylethene. <i>Journal of Physical Organic Chemistry</i> , 2007, 20, 975-980.	0.9	11
90	Evolution of Rhodamine B into Nearâ€“Infrared Dye by Phototriggered Radical Reaction and Its Application for Lysosomeâ€“Specific Liveâ€“Cell Imaging. <i>Advanced Optical Materials</i> , 2016, 4, 1367-1372.	3.6	11

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91	A near infrared fluorescent probe for one-step detection of histone deacetylase activity based on an intramolecular FRET. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126791.	4.0	11
92	Furin substrate as a novel cell-penetrating peptide: combining a delivery vector and an inducer of cargo release. <i>Chemical Communications</i> , 2019, 55, 11872-11875.	2.2	11
93	Design of Stimuli-Responsive Phenothiazine Derivatives with Triplet-Related Dual Emission and High-Contrast Mechanochromism Guided by Polymorph Prediction. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	11
94	De novo design of self-assembly hydrogels based on Fmoc-diphenylalanine providing drug release. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8686-8693.	2.9	10
95	A Programmed DNA Marker Based on Bis(4-ethynyl-1,8-naphthalimide) and Three-Methane-Bridged Thiazole Orange. <i>Chemistry - A European Journal</i> , 2015, 21, 16623-16630.	1.7	9
96	An Imine-Linked Metal-Organic Framework as a Reactive Oxygen Species Generator. <i>Angewandte Chemie</i> , 2021, 133, 2564-2570.	1.6	8
97	Precise targeting of osteopontin in non-small cell lung cancer spinal metastasis to promote chemosensitivity via a smart hollow nano-platform. <i>Chemical Engineering Journal</i> , 2022, 436, 132131.	6.6	8
98	Photoinduced Radical Emission in a Coassembly System. <i>Angewandte Chemie</i> , 2021, 133, 24035.	1.6	8
99	Ionic Liquid Based Electrolyte with Mesoporous Silica SBA-15 as Framework for Quasi-solid-state Dye-sensitized Solar Cells. <i>Chinese Journal of Chemistry</i> , 2006, 24, 1737-1740.	2.6	7
100	Formation and regulation of supramolecular chirality in organogel via addition of tartaric acid. <i>Science Bulletin</i> , 2012, 57, 4272-4277.	1.7	7
101	Phosphorothioate-DNA bacterial diet reduces the ROS levels in <i>C. elegans</i> while improving locomotion and longevity. <i>Communications Biology</i> , 2021, 4, 1335.	2.0	6
102	Hypoxia-Induced Photogenic Radicals by Eosin Y for Efficient Phototherapy of Hypoxic Tumors. <i>ACS Applied Bio Materials</i> , 2020, 3, 8962-8969.	2.3	5
103	Ultrasound Assisted Co-aggregation of a Two-component System with Multicolor Emission and Its Response to Acid. <i>Acta Chimica Sinica</i> , 2012, 70, 2016.	0.5	5
104	Hypochlorous acid triggered fluorescent probes for <i>in situ</i> imaging of a psoriasis model. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5211-5217.	2.9	4
105	Organogel of fluorescein-based derivative formation in the selected pH value. <i>Supramolecular Chemistry</i> , 2013, 25, 881-885.	1.5	3
106	Neutrophil-derived Myeloperoxidase and Hypochlorous Acid Critically Contribute to 20-HETE Increases that Drive Post-Ischemic Angiogenesis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2022, , JPET-AR-2021-001036.	1.3	3
107	Zn ²⁺ cation triggers self-assembly of cyclen into a stable metallogel. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2010, 5, 184-192.	0.4	1
108	Photoswitchable Supramolecular Systems. , 0, , 109-166.		1

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109	Synthesis and Characterization of Bisthiényleneâ€Porphyrin Photoswitchable Copolymers. European Journal of Organic Chemistry, 2021, 2021, 6636-6645.	1.2	1