

# Zhiyi Yao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8292987/publications.pdf>

Version: 2024-02-01

45  
papers

1,894  
citations

331259

21  
h-index

253896

43  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2934  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Gold Nanoparticle/Graphene Composites with Controlled Weight Contents and Their Application in Biosensors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1822-1826.	1.5	389
2	Electrically conductive and mechanically strong biomimetic chitosan/reduced graphene oxide composite films. <i>Journal of Materials Chemistry</i> , 2010, 20, 9032.	6.7	231
3	A Turn-on Fluorescent Sensor for Pyrophosphate Based on the Disassembly of Cu <sup>2+</sup> -Mediated Perylene Diimide Aggregates. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 614-618.	4.0	139
4	Colorimetric and fluorescent dual probe based on a polythiophene derivative for the detection of cysteine and homocysteine. <i>Chemical Communications</i> , 2011, 47, 7431.	2.2	99
5	Conjugated polyelectrolyte as a colorimetric and fluorescent probe for the detection of glutathione. <i>Chemical Communications</i> , 2009, , 5886.	2.2	85
6	Visual Detection of Copper(II) Ions Based on an Anionic Polythiophene Derivative Using Click Chemistry. <i>Analytical Chemistry</i> , 2013, 85, 5650-5653.	3.2	75
7	A simple approach for the discrimination of nucleotides based on a water-soluble polythiophene derivative. <i>Chemical Communications</i> , 2009, , 4696.	2.2	74
8	MoS <sub>2</sub> -Nanosheet-Assisted Coordination of Metal Ions with Porphyrin for Rapid Detection and Removal of Cadmium Ions in Aqueous Media. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21362-21370.	4.0	54
9	Optically Active Supramolecular Complexes of Water-Soluble Achiral Polythiophenes and Folic Acid: Spectroscopic Studies and Sensing Applications. <i>Langmuir</i> , 2008, 24, 12829-12835.	1.6	51
10	Analyte-induced aggregation of conjugated polyelectrolytes: role of the charged moieties and its sensing application. <i>Chemical Communications</i> , 2010, 46, 5094.	2.2	39
11	Colorimetric and fluorescent detection of protamines with an anionic polythiophene derivative. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 6466.	1.5	38
12	Halochromism of a Polythiophene Derivative Induced by Conformational Changes and Its Sensing Application of Carbon Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5783-5787.	4.0	38
13	Selective and sensitive detection of picric acid based on a water-soluble fluorescent probe. <i>RSC Advances</i> , 2016, 6, 38328-38331.	1.7	35
14	Phosphatase-like activity of single-atom Ce N C nanozyme for rapid detection of Al <sup>3+</sup> . <i>Food Chemistry</i> , 2022, 390, 133127.	4.2	35
15	A simple fluorescent probe based on a pyrene derivative for rapid detection of protamine and monitoring of trypsin activity. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 8708-8712.	1.5	33
16	Disassembly of conjugated polyelectrolyte aggregates and their application for colorimetric detection of surfactants in water. <i>Chemical Communications</i> , 2010, 46, 8639.	2.2	32
17	Colorimetric detection of copper ions based on a supramolecular complex of water-soluble polythiophene and ATP. <i>Analyst</i> , 2013, 138, 1649.	1.7	31
18	Visual sensing of picric acid in 100% aqueous media based on supramolecular polythiophene assemblies with colorimetric and fluorescent dual response. <i>Chinese Chemical Letters</i> , 2020, 31, 2428-2432.	4.8	29

#	ARTICLE	IF	CITATIONS
19	Synthesis of metal nanoparticle@graphene hydrogel composites by substrate-enhanced electroless deposition and their application in electrochemical sensors. <i>RSC Advances</i> , 2014, 4, 9133.	1.7	28
20	An antibody-free assay for simultaneous capture and detection of glycoproteins by surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8881-8886.	1.3	26
21	A highly sensitive SERS-based platform for Zn(II) detection in cellular media. <i>Chemical Communications</i> , 2017, 53, 1797-1800.	2.2	23
22	A Sensitive and Selective Fluorescent Sensor for Berberine Chloride Based on the Supramolecular Self-Assembly of Perylene Diimide in Aqueous Solution. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6517-6523.	3.2	22
23	Colorimetric and fluorescent dual detection of paraquat and diquat based on an anionic polythiophene derivative. <i>Analyst</i> , 2013, 138, 5572.	1.7	21
24	Rapid and visual detection of protamine based on ionic self-assembly of a water soluble perylene diimide derivative. <i>Dyes and Pigments</i> , 2020, 180, 108456.	2.0	21
25	Ultrasensitive detection of thiophenol based on a water-soluble pyrenyl probe. <i>Talanta</i> , 2018, 185, 146-150.	2.9	20
26	Determination of Ag(I) and NADH Using Single-Molecule Conductance Ratiometric Probes. <i>ACS Sensors</i> , 2021, 6, 461-469.	4.0	20
27	SERS-based sensing technique for trace melamine detection – A new method exploring. <i>Talanta</i> , 2016, 153, 186-190.	2.9	19
28	Rapid and visual detection of heparin based on the disassembly of polyelectrolyte-induced pyrene excimers. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2569-2574.	1.5	19
29	An efficient approach for rapid detection of polymyxins B based on the optically active supramolecular aggregates of water-soluble perylene diimide. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128594.	4.0	18
30	Approach Based on Polyelectrolyte-Induced Nanoassemblies for Enhancing Sensitivity of Pyrenyl Probes. <i>Analytical Chemistry</i> , 2016, 88, 10605-10610.	3.2	17
31	Self-Assembly of Nanoscale Induced Excimers of 12-Pyren-1-yl dodecanoic Acid for TNT Detection. <i>ACS Applied Nano Materials</i> , 2019, 2, 3453-3458.	2.4	15
32	Selective detection of mercury(II) and methylmercury(II) via coordination-induced emission of a small-molecule probe. <i>Science China Chemistry</i> , 2016, 59, 1651-1657.	4.2	13
33	Rapid and visual detection of berberine hydrochloride based on a water-soluble pyrene derivative. <i>Luminescence</i> , 2019, 34, 558-562.	1.5	13
34	A water-soluble fluorescence probe based on perylene diimide for rapid and selective detection of perfluorooctane sulfonate in 100% aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130851.	4.0	13
35	Rapid and visual detection of folic acid via supramolecular recognition with a perylene bisimide probe in aqueous media. <i>Talanta</i> , 2020, 219, 121222.	2.9	12
36	Visual detection of Cu(II) ions based on a simple pyrene derivative using click chemistry. <i>Analytical Methods</i> , 2014, 6, 4977-4981.	1.3	11

#	ARTICLE	IF	CITATIONS
37	Rapid and Visual Detection of Bipyridylum Herbicides Based on Polyelectrolyte-Induced Nanoassemblies of Pyrenyl Probes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6861-6867.	3.2	10
38	A fluorometric and colorimetric approach for the rapid detection of berberine hydrochloride based on an anionic polythiophene derivative. <i>Luminescence</i> , 2021, 36, 668-673.	1.5	9
39	Self-assembly of flavin mononucleotide and a cationic polythiophene in aqueous media: spectroscopic studies and sensing applications. <i>Polymer Chemistry</i> , 2020, 11, 3762-3767.	1.9	7
40	Rapid and sensitive detection of dextran sulfate sodium based on supramolecular self-assembly of a perylene diimide derivative in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120760.	2.0	7
41	Rapid detection of hydrogen sulfide in vegetables and monosodium glutamate based on perylene supramolecular aggregates using an indicator displacement assays strategy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 276, 121223.	2.0	7
42	Visual detection of fluoride based on supramolecular aggregates of perylene diimide in 100% aqueous media. <i>Mikrochimica Acta</i> , 2021, 188, 331.	2.5	6
43	Revealing different aggregational states of a conjugated polymer in solution by a nanopore sensor. <i>Chemical Science</i> , 2016, 7, 5287-5293.	3.7	5
44	Self-assembly of insulated molecular wires of a watersoluble cationic PPV and anionic dendrons. <i>Science Bulletin</i> , 2009, 54, 2451-2456.	1.7	3
45	Conjugated Polyelectrolyte Based Colorimetric Array for the Discrimination of Primary Amino Acids. <i>ChemistrySelect</i> , 2020, 5, 5400-5403.	0.7	2