

Yuming Zhao

List of Publications by Year in descending order

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96
papers

1,569
citations

304368

22
h-index

360668

35
g-index

97
all docs

97
docs citations

97
times ranked

1689
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosorption and reduction of Au (III) to gold nanoparticles by thiourea modified alginate. <i>Carbohydrate Polymers</i> , 2017, 159, 108-115.	5.1	102
2	Synthesis, Spectroscopic and Nonlinear Optical Properties of Multiple [60]Fullerene-Oligo(p-phenylene ethynylene) Hybrids. <i>Chemistry - A European Journal</i> , 2005, 11, 3643-3658.	1.7	82
3	Selective and Reversible Noncovalent Functionalization of Single-Walled Carbon Nanotubes by a pH-Responsive Vinylogous Tetrathiafulvalene-Fluorene Copolymer. <i>Journal of the American Chemical Society</i> , 2014, 136, 970-977.	6.6	80
4	Mechanistic study of selective adsorption of Hg ²⁺ ion by porous alginate beads. <i>Chemical Engineering Journal</i> , 2019, 378, 122096.	6.6	70
5	1,8-Pyrenylene-Ethynylene Macrocycles. <i>Organic Letters</i> , 2011, 13, 2240-2243.	2.4	55
6	Reversible dispersion and releasing of single-walled carbon nanotubes by a stimuli-responsive TTFV-phenylacetylene polymer. <i>Chemical Communications</i> , 2012, 48, 3100.	2.2	53
7	Synthesis, Structure, and Nonlinear Optical Properties of Cross-Conjugated Perphenylatediso-Polydiacetylenes. <i>Chemistry - A European Journal</i> , 2005, 11, 321-329.	1.7	51
8	Highly π -Extended TTF Analogues with a Conjugated Macrocyclic Enyne Core. <i>Organic Letters</i> , 2008, 10, 657-660.	2.4	47
9	Synthesis and Properties of Conjugated Oligoene-Centered π -Extended Tetrathiafulvalene Analogues and Related Macromolecular Systems. <i>Journal of Organic Chemistry</i> , 2011, 76, 2701-2715.	1.7	47
10	Eugenol-modified polysiloxanes as effective anticorrosion additives for epoxy resin coatings. <i>RSC Advances</i> , 2017, 7, 55967-55976.	1.7	45
11	Tetrathiafulvalene vinylogues as versatile building blocks for new organic materials. <i>Pure and Applied Chemistry</i> , 2012, 84, 1005-1025.	0.9	43
12	Acetylenic Phenylthiafulvene: A Versatile Synthon for TTFV-Based Macromolecules. <i>Organic Letters</i> , 2010, 12, 704-707.	2.4	38
13	Thiophene-substituted phenothiazine-based photosensitisers for radical and cationic photopolymerization reactions under visible laser beams (405 and 455 nm). <i>Polymer Chemistry</i> , 2016, 7, 5147-5156.	1.9	38
14	Biscrown-Annulated TTFQ-Dianthracene Hybrid: Synthesis, Structure, and Metal Ion Sensing. <i>Organic Letters</i> , 2010, 12, 3050-3053.	2.4	36
15	H-Shaped OPE/OPV Oligomers: A New Member of 2D-Conjugated Fluorophore Cores. <i>Organic Letters</i> , 2008, 10, 3001-3004.	2.4	33
16	TTFV-Based Molecular Tweezers and Macrocycles as Receptors for Fullerenes. <i>Organic Letters</i> , 2013, 15, 4532-4535.	2.4	33
17	Zinc oxide templating of porous alginate beads for the recovery of gold ions. <i>Carbohydrate Polymers</i> , 2018, 200, 297-304.	5.1	29
18	Redox-Regulated Rotary Motion of a Bis(9-triptycyl)-TTFV System. <i>Organic Letters</i> , 2014, 16, 668-671.	2.4	25

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19	Pyrenimidazolyl-Benzaldehyde Fluorophores: Synthesis, Properties, and Sensing Function for Fluoride Anions. <i>ACS Omega</i> , 2018, 3, 16387-16397.	1.6	25
20	Expanded radialenes: Modular synthesis and properties of cross-conjugated enyne macrocycles. <i>Pure and Applied Chemistry</i> , 2008, 80, 621-637.	0.9	24
21	Conformationally switchable TTFV-phenylacetylene polymers: synthesis, properties, and supramolecular interactions with single-walled carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5477.	2.7	24
22	Donor/Acceptor Effects on the Linear and Nonlinear Optical Properties of Geminal Diethynylethenes (g-DEEs). <i>Helvetica Chimica Acta</i> , 2007, 90, 909-927.	1.0	23
23	A novel bioemulsifier produced by <i>Exiguobacterium</i> sp. strain N4-1P isolated from petroleum hydrocarbon contaminated coastal sediment. <i>RSC Advances</i> , 2017, 7, 42699-42708.	1.7	22
24	Tetrathiafulvalene Vinyllogues-Fluorene Co-oligomers: Synthesis, Properties, and Supramolecular Interactions with Carbon Nanotubes. <i>Journal of Organic Chemistry</i> , 2015, 80, 7419-7429.	1.7	21
25	Microplastic-oil-dispersant agglomerates in the marine environment: Formation mechanism and impact on oil dispersion. <i>Journal of Hazardous Materials</i> , 2022, 426, 127825.	6.5	21
26	Planar Acetylene-Expanded TTFV Analogues. <i>Organic Letters</i> , 2009, 11, 2736-2739.	2.4	20
27	Dithiafulvenyl-grafted phenylene ethynylene polymers as selective and reversible dispersants for single-walled carbon nanotubes. <i>Chemical Communications</i> , 2015, 51, 149-152.	2.2	20
28	Synthesis and electronic properties of alkyne-TTFV based molecular wires. <i>Tetrahedron Letters</i> , 2006, 47, 5069-5073.	0.7	18
29	Aryl-substituted dithiafulvenes: synthesis, electronic properties, and redox reactivity. <i>Tetrahedron Letters</i> , 2014, 55, 6362-6366.	0.7	18
30	Synthesis and properties of TTFV-hinged molecular tweezers. <i>Tetrahedron Letters</i> , 2010, 51, 6552-6556.	0.7	17
31	Click synthesized dianthryl-TTFV: an efficient fluorescent turn-on probe for transition metal ions. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2542.	1.5	17
32	A Macrocyclization of 1,8-Bis(dithiafulvenyl)pyrenes. <i>Organic Letters</i> , 2016, 18, 2403-2406.	2.4	17
33	TTFV molecular tweezers with phenylboronic acid and phenylboronate endgroups: modular synthesis and electrochemical responses to saccharides and fluoride ion. <i>Tetrahedron Letters</i> , 2014, 55, 382-386.	0.7	16
34	When dithiafulvenyl functionalized π -conjugated oligomers meet fullerenes and single-walled carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5116.	2.7	15
35	Selective dispersion of single-walled carbon nanotubes with electron-rich fluorene-based copolymers. <i>RSC Advances</i> , 2016, 6, 25733-25740.	1.7	15
36	The Development of Synthetic Routes to 1,1,1,1-tetramethyl[2,11]teropyrenophanes. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4546-4560.	1.2	14

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37	Multivalent dithiafulvenyl functionalization of dendritic oligo(phenylene vinylene)s with an anthraquinodimethane core. <i>Chemical Communications</i> , 2017, 53, 1821-1824.	2.2	13
38	Generation of an extremely bent pyrene system using kinetic stabilization. <i>Canadian Journal of Chemistry</i> , 2017, 95, 460-481.	0.6	12
39	Contractive Annulation: A Strategy for the Synthesis of Small, Strained Cyclophanes and Its Application in the Synthesis of [2](6,1)Naphthaleno[1]paracyclophane. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9166-9170.	7.2	12
40	TTFAQ-cored D/A ensembles: synthesis, electronic properties, and redox responses to transition metal ions. <i>Tetrahedron Letters</i> , 2010, 51, 2892-2895.	0.7	11
41	Conformational control of TTFV π -frameworks through naphthyl substituents. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7673.	1.5	11
42	Kinetic Stabilization of a Highly Bent Pyrene System. <i>Synlett</i> , 2016, 27, 2113-2116.	1.0	11
43	Bromophenyl substituted dithiafulvenes and tetrathiafulvalene vinylogues: synthesis, structure, and electronic properties. <i>Tetrahedron Letters</i> , 2013, 54, 4666-4669.	0.7	10
44	Highly π -extended tetrathiafulvalene analogues derived from pentacene-5,7,12,14-tetraone. <i>RSC Advances</i> , 2015, 5, 88821-88825.	1.7	10
45	Recent advances in dithiafulvenyl-functionalized organic conjugated materials. <i>New Journal of Chemistry</i> , 2020, 44, 4681-4693.	1.4	10
46	Molecular tuning of the crystallization-induced emission enhancement of diphenyl-dibenzofulvene luminogens. <i>Chemical Communications</i> , 2021, 57, 484-487.	2.2	10
47	Dispersion of single-walled carbon nanotubes into aqueous solutions using Poh's cyclo-tetrachromo-tropylene (CTCT). <i>RSC Advances</i> , 2014, 4, 31614-31617.	1.7	9
48	Dispersion of Single-Walled Carbon Nanotubes with Oligo(p-phenylene ethynylene)s: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4692-4702.	1.5	9
49	Self-Condensation of Pyrene-4,5-dione: An Approach To Generate Functional Organic Fluorophores. <i>Organic Letters</i> , 2019, 21, 9306-9310.	2.4	9
50	Carboxylated dithiafulvenes and tetrathiafulvalene vinylogues: synthesis, electronic properties, and complexation with zinc ions. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 957-965.	1.3	8
51	Dithiafulvenyl-substituted phenylacetylene derivatives: synthesis and structure-property-reactivity relationships. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9575-9579.	1.5	8
52	Recent Advances in Functional Materials for Wastewater Treatment: From Materials to Technological Innovations. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 534.	1.2	8
53	DFT investigation of the interaction between single-walled carbon nanotubes and fluorene-based conjugated oligomers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28071-28082.	1.3	7
54	Molecular structure and electronic properties of substituted tetrabenzocoronenes: DFT and TD-DFT investigations. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3970.	0.9	7

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55	A tetrathiafulvalene vinyllogue-based double-layer polymer thin film as a highly sensitive and selective TNT sensor. <i>New Journal of Chemistry</i> , 2019, 43, 5277-5281.	1.4	7
56	Highly regioselective synthesis of 7-oxo-7H-[1,3,4]thiadiazolo[3,2-a]pyrimidine-5-carboxylate derivatives under mild conditions. <i>Tetrahedron Letters</i> , 2019, 60, 1399-1403.	0.7	7
57	N-(Cyano(naphthalen-1-yl)methyl)benzamides: synthesis, crystal structures, and colorimetric sensing of fluoride anions. <i>New Journal of Chemistry</i> , 2020, 44, 16546-16556.	1.4	7
58	Gram-scale Synthesis of the 1,1,2,2-tetramethyl[2,11]teropyrenophanes. <i>Chemistry - A European Journal</i> , 2021, 27, 390-400.	1.7	7
59	Comparative studies of the noncovalent interactions in the single-crystal packing of pyrene, pyrene-4,5-dione, and pyrene-4,5,9,10-tetraone. <i>Journal of Physical Organic Chemistry</i> , 2021, 34, e4192.	0.9	7
60	Synthesis and comparative studies of K-region functionalized pyrene derivatives. <i>New Journal of Chemistry</i> , 2020, 44, 16786-16794.	1.4	6
61	A TTFV-pyrene-based copolymer: synthesis, redox properties, and aggregation behaviour. <i>RSC Advances</i> , 2015, 5, 23952-23956.	1.7	5
62	Redox interactions of Au(III) with carboxylated dithiafulvenes and tetrathiafulvalene analogues in polar organic media. <i>Chemical Communications</i> , 2016, 52, 13101-13104.	2.2	5
63	Carbazole- and/or triphenylamine-based D multiarylamino dyes: synthesis, characterization and photophysical properties. <i>New Journal of Chemistry</i> , 2017, 41, 13156-13165.	1.4	5
64	Intramolecular alkyne-dithiolium cycloaddition: a joint experimental and DFT mechanistic study. <i>RSC Advances</i> , 2017, 7, 36623-36631.	1.7	5
65	Optimizing Reductive Degradation of PAHs Using Anhydrous Ethanol with Magnesium Catalyzed by Glacial Acetic Acid. <i>ACS Omega</i> , 2018, 3, 3554-3561.	1.6	4
66	Computational Mechanistic Analysis of Intramolecular Cycloadditions of the 1,3-Dithiolium Cation with Adjacent Alkene and Allene Functional Groups. <i>ACS Omega</i> , 2018, 3, 9770-9780.	1.6	4
67	Modelling and experimental investigation of the adsorption breakthrough behaviors of Pd (II) and Cu (II) by ETA microspheres. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3526-3534.	1.6	4
68	Synthesis of Oligo(1,8-pyrenylene)s: A Series of Functional Molecular Liquids. <i>ChemPlusChem</i> , 2019, 84, 754-765.	1.3	4
69	Computational Study of the Dissociation Reactions of Secondary Ozonide. <i>Atmosphere</i> , 2020, 11, 100.	1.0	4
70	Crystal Engineering and Photophysical Properties of Phenyl-Pyrenoimidazole Systems. <i>Crystal Growth and Design</i> , 2020, 20, 1681-1693.	1.4	4
71	Synthesis and characterization of bis(dithiafulvenyl)-substituted fluorenones and fluorenylidene-1,3-dithioles. <i>New Journal of Chemistry</i> , 2020, 44, 9179-9189.	1.4	4
72	Studies of cyanomethylcarbonyl-bridged anthracene and pyrene fluorophores. <i>New Journal of Chemistry</i> , 2021, 45, 17366-17376.	1.4	4

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73	Structural Tuning of Curved TFAQ-AQ as a Redox-Active Supramolecular Partner for C ₇₀ Fullerene. <i>Journal of Organic Chemistry</i> , 2021, 86, 14855-14865.	1.7	4
74	Study of a carbazole-bromobenzothiadiazole derived fluorescent molecular rotor: crystal structure, redox activity, and solvatofluorochromic effects. <i>New Journal of Chemistry</i> , 2022, 46, 572-581.	1.4	4
75	Synthesis of anti-[1](1,6)Naphthaleno[1](1,6)naphthalenophane by Double Contractive Annulation of [2.2]Paracyclophane. <i>Organic Letters</i> , 2022, 24, 5009-5013.	2.4	4
76	Redox-dependent properties of DTF-endcapped π -oligomers. <i>New Journal of Chemistry</i> , 2017, 41, 15251-15259.	1.4	3
77	Donor/acceptor substituted dithiafulvenes and tetrathiafulvalene vinylogues: electronic absorption, crystallographic, and computational analyses. <i>New Journal of Chemistry</i> , 2021, 45, 11918-11926.	1.4	3
78	Shadow-Synthesis, Structure, and Electronic Properties of [2.2](1,6)(1,8)Pyrenophane-1-monoene. <i>Journal of Organic Chemistry</i> , 2021, 86, 4405-4412.	1.7	3
79	Synthesis of [2.2]Paracyclophane/9-Alkylfluorene Hybrids and the Discovery of a Solvent-assisted Rearrangement. <i>Organic Letters</i> , 2021, 23, 5461-5465.	2.4	3
80	A Highly Congested Dioxapyrenophane from an Attempted Synthesis of the Highly Strained 1,1,6,6-tetramethyl[6](2,11)teropyrenophane. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3559-3568.	1.2	3
81	Functionalization of pentacene-5,7,12,14-tetraone with geminal enediyne and 1,3-dithiole groups. <i>Organic Chemistry Frontiers</i> , 2017, 4, 804-810.	2.3	2
82	Conformational Analysis of the Supramolecular Complexation of Diaryl-Substituted Tetrathiafulvalene Vinylogues with Fullerenes. <i>ACS Omega</i> , 2019, 4, 5630-5639.	1.6	2
83	Special Issue "New Studies of Conjugated Compounds". <i>Molecules</i> , 2020, 25, 3220.	1.7	2
84	Computational mechanistic study of the unimolecular dissociation of ethyl hydroperoxide and its bimolecular reactions with atmospheric species. <i>Scientific Reports</i> , 2020, 10, 15025.	1.6	2
85	Enhanced Gas Chromatography-Mass Spectrometry (GC-MS)-Based Analysis of Metformin and Guanylurea in Water Samples. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	2
86	A Comparative Study of Redox-Active Dithiafulvenyl-Functionalized 1,3,6,8-Tetraphenylpyrene Derivatives. <i>Journal of Organic Chemistry</i> , 2021, 86, 12723-12736.	1.7	2
87	Joint experimental and computational studies of a cyanomethylcarbonyl-bridged pyrene-dinitrobenzene molecular ensemble. <i>Journal of Molecular Structure</i> , 2022, 1247, 131374.	1.8	2
88	1,2-Bis{4-[1-(anthracen-9-ylmethyl)-1H-1,2,3-triazol-4-yl]phenyl}-1,2-bis[4,5-bis(methylsulfanyl)-1,3-dithiol-2-ylidene]ethane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3298-o3299.	0.2	1
89	Contractive Annulation: A Strategy for the Synthesis of Small, Strained Cyclophanes and Its Application in the Synthesis of [2](6,1)Naphthaleno[1]paracyclophane. <i>Angewandte Chemie</i> , 2019, 131, 9264-9268.	1.6	1
90	Tuning alkynyl-extended 9,10-dihydroanthracene-based systems into aggregation-induced emission (AIE) luminophores. <i>New Journal of Chemistry</i> , 2019, 43, 8325-8331.	1.4	1

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91	Highly Twisted Aryl-Anthraquinodimethanes: Synthesis, Characterization, and Fluorescence Sensing of TNT. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4031-4041.	1.2	1
92	Noncovalent interactions of 1,4-dithiafulvene and nitroaromatics: A combined DFT and ab initio molecular dynamics (AIMD) study. <i>International Journal of Quantum Chemistry</i> , 2022, 122, .	1.0	1
93	Computational Insights in DNA Methylation: Catalytic and Mechanistic Elucidations for Forming 3-Methyl Cytosine. <i>Journal of Chemistry</i> , 2022, 2022, 1-11.	0.9	1
94	New Aryl-Substituted 2,2'-Bithiophenes: Synthesis, Optoelectronic Properties and DFT Studies. <i>ChemistrySelect</i> , 2018, 3, 9700-9707.	0.7	0
95	Comparative study of the photophysical and crystallographic properties of 4-(9H-pyreno[4,5-d]imidazol-10-yl)phenol and its alkylated derivatives. <i>New Journal of Chemistry</i> , 2021, 45, 7647-7658.	1.4	0
96	Mechanistic Study on DNA Mutation of the Cytosine Methylation Reaction at C5 Position. <i>Arabian Journal of Chemistry</i> , 2022, , 103956.	2.3	0