

Yuming Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

1,252
citations

20
h-index

31
g-index

97
ext. papers

1,402
ext. citations

4.5
avg, IF

4.87
L-index

#	Paper	IF	Citations
93	Study of a carbazoleBromobenzothiadiazole derived fluorescent molecular rotor: crystal structure, redox activity, and solvatofluorochromic effects. <i>New Journal of Chemistry</i> , 2022 , 46, 572-581	3.6	
92	Computational Insights in DNA Methylation: Catalytic and Mechanistic Elucidations for Forming 3-Methyl Cytosine. <i>Journal of Chemistry</i> , 2022 , 2022, 1-11	2.3	1
91	Joint experimental and computational studies of a cyanomethylcarbamoyl-bridged pyrene π nitrobenzene molecular ensemble. <i>Journal of Molecular Structure</i> , 2022 , 1247, 131374	3.4	0
90	Recent Advances in Functional Materials for Wastewater Treatment: From Materials to Technological Innovations. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 534	2.4	0
89	Mechanistic Study on DNA Mutation of the Cytosine Methylation Reaction at C5 Position. <i>Arabian Journal of Chemistry</i> , 2022 , 103956	5.9	
88	Microplastic-oil-dispersant agglomerates in the marine environment: Formation mechanism and impact on oil dispersion. <i>Journal of Hazardous Materials</i> , 2021 , 426, 127825	12.8	7
87	Structural Tuning of Curved TFAQ-AQ as a Redox-Active Supramolecular Partner for C Fullerene. <i>Journal of Organic Chemistry</i> , 2021 , 86, 14855-14865	4.2	1
86	"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	4.2	1
85	Synthesis of [2.2]Paracyclophane/9-Alkylfluorene Hybrids and the Discovery of a Solvent-assisted Rearrangement. <i>Organic Letters</i> , 2021 , 23, 5461-5465	6.2	1
84	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	3.2	1
83	Molecular tuning of the crystallization-induced emission enhancement of diphenyl-dibenzofulvene luminogens. <i>Chemical Communications</i> , 2021 , 57, 484-487	5.8	3
82	Gram-Scale Synthesis of the 1,1,n,n-Tetramethyl[n](2,11)teropyrenophanes. <i>Chemistry - A European Journal</i> , 2021 , 27, 390-400	4.8	3
81	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	3.6	
80	Studies of cyanomethylcarbamoyl-bridged anthracene and pyrene fluorophores. <i>New Journal of Chemistry</i> , 2021 , 45, 17366-17376	3.6	0
79	Donor/acceptor substituted dithiafulvenes and tetrathiafulvalene vinyllogues: electronic absorption, crystallographic, and computational analyses. <i>New Journal of Chemistry</i> , 2021 , 45, 11918-11926	3.6	2
78	A Comparative Study of Redox-Active Dithiafulvenyl-Functionalized 1,3,6,8-Tetraphenylpyrene Derivatives. <i>Journal of Organic Chemistry</i> , 2021 , 86, 12723-12736	4.2	1
77	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	2.1	2

76	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	2.6	0
75	Highly Twisted Aryl-Anthraquinodimethanes: Synthesis, Characterization, and Fluorescence Sensing of TNT. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 4031-4041	3.2	1
74	Recent advances in dithiafulvenyl-functionalized organic conjugated materials. <i>New Journal of Chemistry</i> , 2020 , 44, 4681-4693	3.6	8
73	Computational Study of the Dissociation Reactions of Secondary Ozonide. <i>Atmosphere</i> , 2020 , 11, 100	2.7	2
72	Crystal Engineering and Photophysical Properties of Phenyl-Pyrenoimidazole Systems. <i>Crystal Growth and Design</i> , 2020 , 20, 1681-1693	3.5	3
71	Synthesis and characterization of bis(dithiafulvenyl)-substituted fluorenones and fluorenylidene-1,3-dithioles. <i>New Journal of Chemistry</i> , 2020 , 44, 9179-9189	3.6	3
70	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	3.6	4
69	Synthesis and comparative studies of K-region functionalized pyrene derivatives. <i>New Journal of Chemistry</i> , 2020 , 44, 16786-16794	3.6	4
68	Computational mechanistic study of the unimolecular dissociation of ethyl hydroperoxide and its bimolecular reactions with atmospheric species. <i>Scientific Reports</i> , 2020 , 10, 15025	4.9	1
67	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	3.6	1
66	Mechanistic study of selective adsorption of Hg ²⁺ ion by porous alginate beads. <i>Chemical Engineering Journal</i> , 2019 , 378, 122096	14.7	42
65	The Development of Synthetic Routes to 1,1,n,n-Tetramethyl[n](2,11)teropyrenophanes. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 4546-4560	3.2	9
64	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	16.4	8
63	Molecular structure and electronic properties of substituted tetrabenzocoronenes: DFT and TD-DFT investigations. <i>Journal of Physical Organic Chemistry</i> , 2019 , 32, e3970	2.1	3
62	Tuning alkynyl-extended 9,10-dihydroanthracene-based systems into aggregation-induced emission (AIE) luminophores. <i>New Journal of Chemistry</i> , 2019 , 43, 8325-8331	3.6	1
61	Synthesis of Oligo(1,8-pyrenylene)s: A Series of Functional Molecular Liquids. <i>ChemPlusChem</i> , 2019 , 84, 754-765	2.8	2
60	Conformational Analysis of the Supramolecular Complexation of Diaryl-Substituted Tetrathiafulvalene Vinylogues with Fullerenes. <i>ACS Omega</i> , 2019 , 4, 5630-5639	3.9	2
59	A tetrathiafulvalene vinylogue-based double-layer polymer thin film as a highly sensitive and selective TNT sensor. <i>New Journal of Chemistry</i> , 2019 , 43, 5277-5281	3.6	6

58	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	2	4
57	Self-Condensation of Pyrene-4,5-dione: An Approach To Generate Functional Organic Fluorophores. <i>Organic Letters</i> , 2019 , 21, 9306-9310	6.2	5
56	Optimizing Reductive Degradation of PAHs Using Anhydrous Ethanol with Magnesium Catalyzed by Glacial Acetic Acid. <i>ACS Omega</i> , 2018 , 3, 3554-3561	3.9	2
55	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	3.5	3
54	Zinc oxide templating of porous alginate beads for the recovery of gold ions. <i>Carbohydrate Polymers</i> , 2018 , 200, 297-304	10.3	14
53	Pyrenoimidazolyl-Benzaldehyde Fluorophores: Synthesis, Properties, and Sensing Function for Fluoride Anions. <i>ACS Omega</i> , 2018 , 3, 16387-16397	3.9	16
52	New Aryl-Substituted 2,2'-Bithiophenes: Synthesis, Optoelectronic Properties and DFT Studies. <i>ChemistrySelect</i> , 2018 , 3, 9700-9707	1.8	
51	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	3.9	3
50	Multivalent dithiafulvenyl functionalization of dendritic oligo(phenylene vinylene)s with an anthraquinodimethane core. <i>Chemical Communications</i> , 2017 , 53, 1821-1824	5.8	12
49	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	3.8	6
48	Generation of an extremely bent pyrene system using kinetic stabilization. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 460-481	0.9	11
47	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	5.2	1
46	Biosorption and reduction of Au (III) to gold nanoparticles by thiourea modified alginate. <i>Carbohydrate Polymers</i> , 2017 , 159, 108-115	10.3	70
45	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	3.6	4
44	Carbazole- and/or triphenylamine-based DD multiarylamino dyes: synthesis, characterization and photophysical properties. <i>New Journal of Chemistry</i> , 2017 , 41, 13156-13165	3.6	4
43	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	3.7	16
42	Intramolecular alkyne-dithiolium cycloaddition: a joint experimental and DFT mechanistic study. <i>RSC Advances</i> , 2017 , 7, 36623-36631	3.7	4
41	Eugenol-modified polysiloxanes as effective anticorrosion additives for epoxy resin coatings. <i>RSC Advances</i> , 2017 , 7, 55967-55976	3.7	29

40	Redox-dependent properties of DTF-endcapped Ebligomers. <i>New Journal of Chemistry</i> , 2017 , 41, 15251-15259	2
39	Kinetic Stabilization of a Highly Bent Pyrene System. <i>Synlett</i> , 2016 , 27, 2113-2116	2.2 11
38	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	4.9 21
37	Selective dispersion of single-walled carbon nanotubes with electron-rich fluorene-based copolymers. <i>RSC Advances</i> , 2016 , 6, 25733-25740	3.7 14
36	A Macrocyclization of 1,8-Bis(dithiafulvenyl)pyrenes. <i>Organic Letters</i> , 2016 , 18, 2403-6	6.2 16
35	Redox interactions of Au(III) with carboxylated dithiafulvenes and tetrathiafulvalene analogues in polar organic media. <i>Chemical Communications</i> , 2016 , 52, 13101-13104	5.8 4
34	A TTFV-pyrene-based copolymer: synthesis, redox properties, and aggregation behaviour. <i>RSC Advances</i> , 2015 , 5, 23952-23956	3.7 5
33	Tetrathiafulvalene Vinyllogues-Fluorene Co-oligomers: Synthesis, Properties, and Supramolecular Interactions with Carbon Nanotubes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 7419-29	4.2 20
32	Dithiafulvenyl-substituted phenylacetylene derivatives: synthesis and structure-property-reactivity relationships. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 9575-9	3.9 7
31	Dithiafulvenyl-grafted phenylene ethynylene polymers as selective and reversible dispersants for single-walled carbon nanotubes. <i>Chemical Communications</i> , 2015 , 51, 149-52	5.8 19
30	Highly Extended tetrathiafulvalene analogues derived from pentacene-5,7,12,14-tetraone. <i>RSC Advances</i> , 2015 , 5, 88821-88825	3.7 8
29	Carboxylated dithiafulvenes and tetrathiafulvalene vinyllogues: synthesis, electronic properties, and complexation with zinc ions. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 957-65	2.5 7
28	Redox-regulated rotary motion of a bis(9-triptycyl)-TTFV system. <i>Organic Letters</i> , 2014 , 16, 668-71	6.2 22
27	Selective and reversible noncovalent functionalization of single-walled carbon nanotubes by a pH-responsive vinyllogous tetrathiafulvalene-fluorene copolymer. <i>Journal of the American Chemical Society</i> , 2014 , 136, 970-7	16.4 76
26	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	2 13
25	Dispersion of single-walled carbon nanotubes into aqueous solutions using Poph cyclotetrachromo-tropylene (CTCT). <i>RSC Advances</i> , 2014 , 4, 31614-31617	3.7 9
24	Aryl-substituted dithiafulvenes: synthesis, electronic properties, and redox reactivity. <i>Tetrahedron Letters</i> , 2014 , 55, 6362-6366	2 17
23	Bromophenyl substituted dithiafulvenes and tetrathiafulvalene vinyllogues: synthesis, structure, and electronic properties. <i>Tetrahedron Letters</i> , 2013 , 54, 4666-4669	2 8

22	When dithiafulvenyl functionalized π -conjugated oligomers meet fullerenes and single-walled carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5116	7.1	14
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	7.1	22
20	TTFV-based molecular tweezers and macrocycles as receptors for fullerenes. <i>Organic Letters</i> , 2013 , 15, 4532-5	6.2	31
19	Click synthesized dianthryl-TTFV: an efficient fluorescent turn-on probe for transition metal ions. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 2542-4	3.9	17
18	Conformational control of TTFV frameworks through naphthyl substituents. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 7673-6	3.9	10
17	Tetrathiafulvalene vinyllogues as versatile building blocks for new organic materials. <i>Pure and Applied Chemistry</i> , 2012 , 84, 1005-1025	2.1	38
16	Reversible dispersion and releasing of single-walled carbon nanotubes by a stimuli-responsive TTFV-phenylacetylene polymer. <i>Chemical Communications</i> , 2012 , 48, 3100-2	5.8	50
15	1,2-Bis{4-[1-(anthracen-9-ylmeth-yl)-1H-1,2,3-triazol-4-yl]phen-yl}-1,2-bis-[4,5-bis-(methyl-sulfan-yl)-1,3-dithiol-2-yl-iden]ethane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o3298-9		1
14	Synthesis and properties of conjugated oligoene-centered π -extended tetrathiafulvalene analogues and related macromolecular systems. <i>Journal of Organic Chemistry</i> , 2011 , 76, 2701-15	4.2	47
13	1,8-Pyrenylene-ethynylene macrocycles. <i>Organic Letters</i> , 2011 , 13, 2240-3	6.2	48
12	Acetylenic phenyldithiafulvene: a versatile synthon for TTFV-based macromolecules. <i>Organic Letters</i> , 2010 , 12, 704-7	6.2	35
11	Biscrown-annulated TTFV-dianthracene hybrid: synthesis, structure, and metal ion sensing. <i>Organic Letters</i> , 2010 , 12, 3050-3	6.2	30
10	TTFV-cored D/A ensembles: synthesis, electronic properties, and redox responses to transition metal ions. <i>Tetrahedron Letters</i> , 2010 , 51, 2892-2895	2	10
9	Synthesis and properties of TTFV-hinged molecular tweezers. <i>Tetrahedron Letters</i> , 2010 , 51, 6552-6556	2	14
8	Planar acetylene-expanded TTFV analogues. <i>Organic Letters</i> , 2009 , 11, 2736-9	6.2	19
7	H-shaped OPE/OPV oligomers: a new member of 2D-conjugated fluorophore cores. <i>Organic Letters</i> , 2008 , 10, 3001-4	6.2	31
6	Highly π -extended TTF analogues with a conjugated macrocyclic enyne core. <i>Organic Letters</i> , 2008 , 10, 657-60	6.2	42
5	Expanded radialenes: Modular synthesis and properties of cross-conjugated enyne macrocycles. <i>Pure and Applied Chemistry</i> , 2008 , 80, 621-637	2.1	23

4	Donor/Acceptor Effects on the Linear and Nonlinear Optical Properties of Geminal Diethynylethenes (g-DEEs). <i>Helvetica Chimica Acta</i> , 2007 , 90, 909-927	2	22
3	Synthesis and electronic properties of alkyne-TFAQ based molecular wires. <i>Tetrahedron Letters</i> , 2006 , 47, 5069-5073	2	15
2	Synthesis, spectroscopic and nonlinear optical properties of multiple [60]fullerene-oligo(p-phenylene ethynylene) hybrids. <i>Chemistry - A European Journal</i> , 2005 , 11, 3643-58	4.8	77
1	Synthesis, structure, and nonlinear optical properties of cross-conjugated perphenylated iso-polydiacetylenes. <i>Chemistry - A European Journal</i> , 2004 , 11, 321-9	4.8	47