

Yongmin Zhang

List of Publications by Year in descending order

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110
papers

2,485
citations

186265

28
h-index

265206

42
g-index

113
all docs

113
docs citations

113
times ranked

2773
citing authors

#	ARTICLE	IF	CITATIONS
1	NHC-Capped Cyclodextrins (ICyDs): Insulated Metal Complexes, Commutable Multicoordination Sphere, and Cavity-Dependent Catalysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7213-7218.	13.8	128
2	Pyrazolone structural motif in medicinal chemistry: Retrospect and prospect. <i>European Journal of Medicinal Chemistry</i> , 2020, 186, 111893.	5.5	114
3	Novel Fluorescein-Based Fluorescent Probe for Detecting H ₂ S and Its Real Applications in Blood Plasma and Biological Imaging. <i>Analytical Chemistry</i> , 2016, 88, 11253-11260.	6.5	87
4	Cyclodextrin Cavity-Induced Mechanistic Switch in Copper-Catalyzed Hydroboration. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10821-10825.	13.8	69
5	Artificial Chiral Metallo-pockets Including a Single Metal Serving as Structural Probe and Catalytic Center. <i>CheM</i> , 2017, 3, 174-191.	11.7	62
6	Gastroprotective effect of aucubin against ethanol-induced gastric mucosal injury in mice. <i>Life Sciences</i> , 2017, 189, 44-51.	4.3	60
7	CO ₂ -Switchable Pickering Emulsion Using Functionalized Silica Nanoparticles Decorated by Amine Oxide-Based Surfactants. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2641-2650.	6.7	60
8	Reconstitution of Membranes Simulating Glycosignaling Domain and Their Susceptibility to Lyso-GM3. <i>Journal of Biological Chemistry</i> , 2000, 275, 15174-15181.	3.4	59
9	Pentacyclic triterpenes grafted on CD cores to interfere with influenza virus entry: A dramatic multivalent effect. <i>Biomaterials</i> , 2016, 78, 74-85.	11.4	57
10	Synthesis and biological evaluation of organoselenium (NSAIDs-SeCN and SeCF ₃) derivatives as potential anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2020, 208, 112864.	5.5	54
11	CO ₂ and Redox Dual Responsive Pickering Emulsion. <i>Langmuir</i> , 2017, 33, 12973-12981.	3.5	52
12	Site-selective hexa-hetero-functionalization of β -cyclodextrin an archetypical C ₆ -symmetric concave cycle. <i>Nature Communications</i> , 2014, 5, 5354.	12.8	51
13	Synthesis, β -glucosidase inhibitory and molecular docking studies of prenylated and geranylated flavones, isoflavones and chalcones. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4567-4571.	2.2	50
14	Design, synthesis and biological evaluation of novel l-ascorbic acid-conjugated pentacyclic triterpene derivatives as potential influenza virus entry inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2016, 110, 376-388.	5.5	47
15	Ganglioside GM3 and Its Role in Cancer. <i>Current Medicinal Chemistry</i> , 2019, 26, 2933-2947.	2.4	46
16	Synthesis and Anti-HCV Entry Activity Studies of β -Cyclodextrin-Pentacyclic Triterpene Conjugates. <i>ChemMedChem</i> , 2014, 9, 1060-1070.	3.2	45
17	Synthesis of 6-hydroxyaurone analogues and evaluation of their β -glucosidase inhibitory and glucose consumption-promoting activity: Development of highly active 5,6-disubstituted derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 3226-3230.	2.2	41
18	New insights into the biological activities of <i>Chrysanthemum morifolium</i> : Natural flavonoids alleviate diabetes by targeting β -glucosidase and the PTP-1B signaling pathway. <i>European Journal of Medicinal Chemistry</i> , 2019, 178, 108-115.	5.5	39

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19	De novo design and synthesis of a novel colorimetric fluorescent probe based on naphthalenone scaffold for selective detection of hypochlorite and its application in living cells. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 322-330.	7.8	38
20	Synthesis and structure-activity relationship studies of water-soluble β -cyclodextrin-glycyrrhetic acid conjugates as potential anti-influenza virus agents. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 328-338.	5.5	37
21	Black Sesame Seeds Ethanol Extract Ameliorates Hepatic Lipid Accumulation, Oxidative Stress, and Insulin Resistance in Fructose-Induced Nonalcoholic Fatty Liver Disease. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10458-10469.	5.2	35
22	Poly ethylene glycol (PEG)-Related controllable and sustainable antidiabetic drug delivery systems. <i>European Journal of Medicinal Chemistry</i> , 2021, 217, 113372.	5.5	35
23	Cyclodextrin Cavity-Induced Mechanistic Switch in Copper-Catalyzed Hydroboration. <i>Angewandte Chemie</i> , 2017, 129, 10961-10965.	2.0	34
24	Research progress in the biological activities of 3,4,5-trimethoxycinnamic acid (TMCA) derivatives. <i>European Journal of Medicinal Chemistry</i> , 2019, 173, 213-227.	5.5	33
25	Amelioration of nonalcoholic fatty liver disease by swertiamarin in fructose-fed mice. <i>Phytomedicine</i> , 2019, 59, 152782.	5.3	32
26	Permethylated NHC-Capped β - and γ -Cyclodextrins (ICyD ^{Me}) Regioselective and Enantioselective Gold-Catalysis in Pure Water. <i>Chemistry - A European Journal</i> , 2020, 26, 15901-15909.	3.3	32
27	Design and total synthesis of Mannich derivatives of marine natural product lamellarin D as cytotoxic agents. <i>European Journal of Medicinal Chemistry</i> , 2014, 85, 807-817.	5.5	31
28	New organoselenides (NSAIDs-Se derivatives) as potential anticancer agents: Synthesis, biological evaluation and in silico calculations. <i>European Journal of Medicinal Chemistry</i> , 2021, 218, 113384.	5.5	31
29	Synthesis, structure activity relationship and in vitro anti-influenza virus activity of novel polyphenol-pentacyclic triterpene conjugates. <i>European Journal of Medicinal Chemistry</i> , 2019, 163, 560-568.	5.5	30
30	Effect of Synthetic Sialyl 2 ¹ Sphingosine and Other Glycosylsphingosines on the Structure and Function of the α -Glycosphingolipid Signaling Domain (GSD) in Mouse Melanoma B16 Cells. <i>Biochemistry</i> , 2000, 39, 2459-2468.	2.5	29
31	Biological applications of hydrophilic C60 derivatives (hC60s) a structural perspective. <i>European Journal of Medicinal Chemistry</i> , 2016, 115, 438-452.	5.5	29
32	Reversibly Switching Wormlike Micelles Formed by a Selenium-Containing Surfactant and Benzyl Tertiary Amine Using CO ₂ /N ₂ and Redox Reaction. <i>Langmuir</i> , 2018, 34, 2302-2311.	3.5	29
33	Switching worm-based viscoelastic fluid by pH and redox. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 554-564.	9.4	28
34	<i>Rhodomyrtus tomentosa</i> (Aiton.): A review of phytochemistry, pharmacology and industrial applications research progress. <i>Food Chemistry</i> , 2020, 309, 125715.	8.2	26
35	Design, synthesis and biological evaluation of gentiopicroside derivatives as potential antiviral inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017, 130, 308-319.	5.5	22
36	Synthesis and Potential Anticancer Activity of Some Novel Selenocyanates and Diselenides. <i>Chemistry and Biodiversity</i> , 2020, 17, e1900603.	2.1	22

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37	Viscoelastic Fluid Formed by Ultralong-Chain Erucic Acid-Base Ionic Liquid Surfactant Responds to Acid/Alkaline, CO ₂ , and Light. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3094-3102.	5.2	22
38	Protective effect of gentiopicroside from <i>Gentiana macrophylla</i> Pall. in ethanol-induced gastric mucosal injury in mice. <i>Phytotherapy Research</i> , 2018, 32, 259-266.	5.8	21
39	Temperature-Induced Reversible-Phase Transition in a Surfactant-Free Microemulsion. <i>Langmuir</i> , 2019, 35, 14358-14363.	3.5	21
40	Multistimuli-Responsive Pickering Emulsion Stabilized by Se-Containing Surfactant-Modified Chitosan. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3986-3994.	5.2	21
41	Programmed Synthesis of Hepta-Differentiated β -Cyclodextrin: 1 out of 117655 Arrangements. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12090-12096.	13.8	21
42	Synthesis and biological application of glyco- and peptide derivatives of fullerene C60. <i>European Journal of Medicinal Chemistry</i> , 2022, 230, 114104.	5.5	21
43	Diisobutylaluminium-promoted regioselective de-O-methylation of cyclodextrins: an expeditious entry to selectively modified cyclodextrins. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 517-523.	1.8	20
44	Design, synthesis and biological evaluation of water-soluble per-O-methylated cyclodextrin-C60 conjugates as anti-influenza virus agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 194-205.	5.5	20
45	Design and synthesis of a novel colorimetric fluorescent probe for the selective detection of sulfur dioxide in SH-SY5Y neuroblastoma cells and its applications in traditional Chinese medicines. <i>New Journal of Chemistry</i> , 2019, 43, 4188-4195.	2.8	20
46	Amphiphilic bipolar duplex β -cyclodextrin forming vesicles. <i>Tetrahedron</i> , 2007, 63, 2973-2977.	1.9	19
47	Design, synthesis and docking study of novel tetracyclic oxindole derivatives as β -glucosidase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1471-1475.	2.2	19
48	Total synthesis of 8-(6- ³ -umbelliferyl)-apigenin and its analogs as anti-diabetic reagents. <i>European Journal of Medicinal Chemistry</i> , 2016, 122, 674-683.	5.5	19
49	Rational design of a novel turn-on fluorescent probe for the detection and bioimaging of hydrazine with barbituric acid as a recognition group. <i>Analyst</i> , 2020, 145, 636-642.	3.5	18
50	Cyclodextrins based delivery systems for macro biomolecules. <i>European Journal of Medicinal Chemistry</i> , 2021, 212, 113105.	5.5	18
51	Mapping C ⁺ ...M Interactions in Confined Spaces: (β -CyD ^{Me})Au, Ag, Cu Complexes Reveal π - π and π - π Electrostatic H Bonds Masquerading as Anagostic Interactions**. <i>Chemistry - A European Journal</i> , 2021, 27, 8127-8142.	3.3	18
52	Synthesis and biological evaluation of ring A and/or C expansion and opening echinocystic acid derivatives for anti-HCV entry inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2015, 102, 594-599.	5.5	17
53	Platinum complexes inhibit HER-2 enriched and triple-negative breast cancer cells metabolism to suppress growth, stemness and migration by targeting PKM/LDHA and CCND1/BCL2/ATG3 signaling pathways. <i>European Journal of Medicinal Chemistry</i> , 2021, 224, 113689.	5.5	17
54	Recent Progress in Chemical Syntheses of Sphingosines and Phytosphingosines. <i>Synthesis</i> , 2016, 48, 4017-4037.	2.3	16

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55	Secondaryâ€Rim Î³â€Cyclodextrin Functionalization to Conjugate with C ₆₀ : Improved Efficacy as a Photosensitizer. <i>Chemistry - A European Journal</i> , 2017, 23, 9462-9466.	3.3	16
56	A colorimetric and ratiometric fluorescent probe with Meldrum's acid as the recognition group for in vitro and in vivo imaging of hypochlorite. <i>Dyes and Pigments</i> , 2020, 175, 108144.	3.7	16
57	Progress of thrombus formation and research on the structure-activity relationship for antithrombotic drugs. <i>European Journal of Medicinal Chemistry</i> , 2022, 228, 114035.	5.5	16
58	Synthesis of water-soluble 2-alkylcyclodextrinâ€C60 conjugates and their inclusion complexation in aqueous solution. <i>Tetrahedron</i> , 2006, 62, 2045-2049.	1.9	15
59	A novel colorimetric and fluorescence turn-on pH sensor with a notably large Stokes shift for its application. <i>New Journal of Chemistry</i> , 2018, 42, 14510-14516.	2.8	15
60	Viscoelastic micellar solution formed by a Se-based ionic liquid surfactant and its response to redox changes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14734-14744.	2.8	15
61	Temperature-Switchable Surfactant-Free Microemulsion. <i>Langmuir</i> , 2020, 36, 7356-7364.	3.5	15
62	Ultralong-Chain Ionic Liquid Surfactants Derived from Natural Erucic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2545-2555.	6.7	15
63	Synthesis and anti-oxidant activity evaluation of (Â±)-Anastatins A, B and their analogs. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 577-589.	5.5	14
64	Chemoenzymatic synthesis of arabinomannan (AM) glycoconjugates as potential vaccines for tuberculosis. <i>European Journal of Medicinal Chemistry</i> , 2020, 204, 112578.	5.5	14
65	A water-soluble and incubate-free fluorescent environment-sensitive probe for ultrafast visualization of protein thiols within living cells. <i>Analytica Chimica Acta</i> , 2020, 1126, 72-81.	5.4	14
66	Synthesis of a Hexavalent Betulinic Acid Derivative as a Hemagglutinin-Targeted Influenza Virus Entry Inhibitor. <i>Molecular Pharmaceutics</i> , 2020, 17, 2546-2554.	4.6	14
67	CO ₂ and Temperature Control over Nanoaggregates in Surfactant-Free Microemulsion. <i>Langmuir</i> , 2021, 37, 1983-1990.	3.5	12
68	Chemoenzymatically synthesized GM3 analogues as potential therapeutic agents to recover nervous functionality after injury by inducing neurite outgrowth. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 613-620.	5.5	11
69	Photophysical studies of six amphiphilic 2:1 cyclodextrin:[60]fullerene derivatives. <i>Chemical Physics</i> , 2006, 325, 397-403.	1.9	10
70	Total synthesis of a sialyl Lewis x derivative for the diagnosis of cancer. <i>Carbohydrate Research</i> , 2014, 383, 89-96.	2.3	10
71	Synthesis of novel pentacyclic triterpeneâ€Neu5Ac2en derivatives and investigation of their in vitro anti-influenza entry activity. <i>MedChemComm</i> , 2017, 8, 1531-1541.	3.4	10
72	Inhibition of SREBP-mediated lipid biosynthesis and activation of multiple anticancer mechanisms by platinum complexes: Ascribe possibilities of new antitumor strategies. <i>European Journal of Medicinal Chemistry</i> , 2022, 227, 113920.	5.5	10

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73	Oxidation-Induced Breakage of the Imine Bond and Aggregate Transition in a Se-Containing Dynamic Covalent Surfactant. <i>Langmuir</i> , 2021, 37, 2833-2842.	3.5	9
74	Facile preparation of two tetrols from permethylated β -cyclodextrin and unambiguous NMR analysis. <i>Tetrahedron Letters</i> , 2011, 52, 5273-5276.	1.4	8
75	<i>In Situ</i> Formation of Viscoelastic Wormlike Micelles in Mixtures of Non-Surface-Active Compounds. <i>Journal of Surfactants and Detergents</i> , 2015, 18, 189-198.	2.1	8
76	Micellization of selenium-containing cationic surfactants with different headgroups in aqueous solution. <i>Colloid and Polymer Science</i> , 2019, 297, 201-211.	2.1	8
77	Effects of an isatin derivative on tumor cell migration and angiogenesis. <i>RSC Advances</i> , 2020, 10, 1191-1197.	3.6	8
78	Challenges Faced with Small Molecular Modulators of Potassium Current Channel Isoform Kv1.5. <i>Biomolecules</i> , 2020, 10, 10.	4.0	8
79	Reversible-Tuning Krafft Temperature of Selenium-Containing Ionic Surfactants by Redox Chemistry. <i>Langmuir</i> , 2020, 36, 3514-3521.	3.5	8
80	A one pot synthesis of mono- and di-lactosyl sphingosines. <i>Glycoconjugate Journal</i> , 2001, 18, 557-563.	2.7	7
81	Efficient synthesis of chloro-derivatives of sialosyllactosylceramide, and their enhanced inhibitory effect on epidermal growth factor receptor activation. <i>Oncology Letters</i> , 2014, 7, 933-940.	1.8	7
82	Synthesis and cytotoxicity assay of four ganglioside GM3 analogues. <i>European Journal of Medicinal Chemistry</i> , 2014, 75, 247-257.	5.5	7
83	Krafft Temperature, Critical Micelle Concentration, and Rheology of α -Pseudo-Gemini-Surfactant Comprising Fatty Acid Soap and Bola-Type Quaternary Ammonium Salt. <i>Journal of Surfactants and Detergents</i> , 2019, 22, 1269-1277.	2.1	7
84	Chemoenzymatically synthesized ganglioside GM3 analogues with inhibitory effects on tumor cell growth and migration. <i>European Journal of Medicinal Chemistry</i> , 2019, 165, 107-114.	5.5	7
85	A Concise Synthesis of Oligosaccharides Derived From Lipoarabinomannan (LAM) with Glycosyl Donors Having a Nonparticipating Group at C2. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 2033-2044.	2.4	6
86	A self-adjuvanting anti-tumor nanoliposomal vaccine based on fluorine-substituted MUC1 glycopeptide. <i>Chemical Communications</i> , 2022, 58, 8642-8645.	4.1	6
87	Developing a Library of Mannose-Based Mono- and Disaccharides: A General Chemoenzymatic Approach to Monohydroxylated Building Blocks. <i>Molecules</i> , 2020, 25, 5764.	3.8	5
88	Design, synthesis and biological evaluation of new ganglioside GM3 analogues as potential agents for cancer therapy. <i>European Journal of Medicinal Chemistry</i> , 2020, 189, 112065.	5.5	5
89	Chemoenzymatic synthesis and biological evaluation of ganglioside GM3 and lyso-GM3 as potential agents for cancer therapy. <i>Carbohydrate Research</i> , 2021, 509, 108431.	2.3	5
90	Functional Role of Glycosphingolipids in Cancer. <i>Current Medicinal Chemistry</i> , 2020, 27, 3913-3924.	2.4	5

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91	Silver ion chromatography for peak resolution enhancement: Application to the preparative separation of two sesquiterpenes using online heart-cutting LC-LC technique. <i>Talanta</i> , 2018, 187, 252-258.	5.5	4
92	Chemoenzymatic Synthesis of Glycoconjugates Mediated by Regioselective Enzymatic Hydrolysis of Acetylated 2-Amino Pyranose Derivatives. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3622-3631.	2.4	4
93	Antioxidant activities of anastatin A & B derivatives and compound 38c's protective effect in a mouse model of CCl ₄ -induced acute liver injury. <i>RSC Advances</i> , 2020, 10, 14337-14346.	3.6	4
94	Synthesis of novel diosgenyl saponin analogs and evaluation effects of rhamnose moiety on their cytotoxic activity. <i>Carbohydrate Research</i> , 2021, 506, 108359.	2.3	4
95	Facial Synthesis and Bioevaluation of Well-Defined OEGylated Betulinic Acid-Cyclodextrin Conjugates for Inhibition of Influenza Infection. <i>Molecules</i> , 2022, 27, 1163.	3.8	4
96	Controlled Decoration of [60]Fullerene with Polymannan Analogues and Amino Acid Derivatives through Malondiamide-Based Linkers. <i>Molecules</i> , 2022, 27, 2776.	3.8	4
97	Carbohydrate-carbohydrate interaction: from hypothesis to confirmation. <i>Carbohydrate Chemistry</i> , 2020, 1, 238-254.	0.3	3
98	Research progress in pharmacological activities and structure-activity relationships of tetralone scaffolds as pharmacophore and fluorescent skeleton. <i>European Journal of Medicinal Chemistry</i> , 2022, 227, 113964.	5.5	3
99	Reversible formation/disruption of dynamic double-tailed surfactants in a binary mixture: effects on interfacial properties and aggregation behavior. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 636, 128141.	4.7	3
100	Silver perchlorate in the mobile phase for rapid separation and determination of a pair of positional isomers in <i>Inula racemosa</i> Hook.f. with RP-HPLC. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1063, 25-30.	2.3	2
101	Total synthesis of wikstrol A and wikstrol B. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8206-8213.	2.8	2
102	Smart regioselectivity towards mono 6-hydroxyl β -cyclodextrin amphiphilic derivatives. <i>RSC Advances</i> , 2020, 10, 10695-10702.	3.6	2
103	Programmed Synthesis of Hepta-Differentiated β -Cyclodextrin: 1 out of 117655 Arrangements. <i>Angewandte Chemie</i> , 2021, 133, 12197-12203.	2.0	2
104	Functionalized Cyclodextrins and Their Applications in Biodelivery. , 2020, , 385-423.		2
105	Novel β -Cyclodextrin-Based Heptavalent Glycyrrhetic Acid Conjugates: Synthesis, Characterization, and Anti-Influenza Activity. <i>Frontiers in Chemistry</i> , 2022, 10, 836955.	3.6	2
106	Functionalized Cyclodextrins and Their Applications in Biodelivery. , 2019, , 1-39.		1
107	Selective and facile deacetylation of pentacyclic triterpenoid under methanolic ammonia condition and unambiguous NMR analysis. <i>Chinese Chemical Letters</i> , 2020, 31, 333-336.	9.0	1
108	Janus-type homo-, hetero- and mixed valence-bimetallic complexes with one metal encapsulated in a cyclodextrin. <i>Chemical Communications</i> , 2022, 58, 4516-4519.	4.1	1

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109	Synthesis and surface activity of phenylselenide-1-undecyl trimethylammonium bromide. Journal of Dispersion Science and Technology, 2020, 41, 1401-1409.	2.4	0
110	Effect of selenium position on the redox responsivity of isomeric selenium-containing anionic surfactants. Journal of Surfactants and Detergents, 0, , .	2.1	0