

Zhao-Yang Wang

List of Publications by Year in descending order

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29
h-index

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41
g-index

99
all docs

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docs citations

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times ranked

2082
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#	ARTICLE	IF	CITATIONS
1	Benzimidazole Derivatives: Selective Fluorescent Chemosensors for the Picogram Detection of Picric Acid. <i>Journal of Organic Chemistry</i> , 2014, 79, 11619-11630.	3.2	114
2	Ligands for Copper-Catalyzed C–N Bond Forming Reactions with 1 Mol% CuBr as Catalyst. <i>Journal of Organic Chemistry</i> , 2011, 76, 3151-3159.	3.2	108
3	Syntheses of poly(lactic acid-co-glycolic acid) serial biodegradable polymer materials via direct melt polycondensation and their characterization. <i>Journal of Applied Polymer Science</i> , 2006, 99, 244-252.	2.6	83
4	Disproportionate Coupling Reaction of Sodium Sulfinates Mediated by BF ₃ ·OEt ₂ : An Approach to Symmetrical/Unsymmetrical Thiosulfonates. <i>Organic Letters</i> , 2018, 20, 4754-4758.	4.6	75
5	Direct synthesis of poly(D,L-lactic acid) by melt polycondensation and its application in drug delivery. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2143-2150.	2.6	69
6	1,1-Diphenylvinylsulfide as a Functional AIEgen Derived from the Aggregation-Induced Quenching Molecule 1,1-Diphenylethene through Simple Thioetherification. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2338-2343.	13.8	67
7	Advances in polydiacetylene development for the design of side chain groups in smart material applications – a mini review. <i>Polymer Chemistry</i> , 2017, 8, 7438-7445.	3.9	64
8	SU(2) Poincaré sphere: A generalized representation for multidimensional structured light. <i>Physical Review A</i> , 2020, 102, .	2.5	51
9	A functionalized fluorochrome based on quinoline-benzimidazole conjugate: From facile design to highly sensitive and selective sensing for picric acid. <i>Dyes and Pigments</i> , 2019, 162, 367-376.	3.7	50
10	Design, Synthesis, and Characterization of 1,3,5-Tri(1-H-benzimidazol-2-yl)benzene-Based Fluorescent Supramolecular Columnar Liquid Crystals with a Broad Mesomorphic Range. <i>Journal of Organic Chemistry</i> , 2014, 79, 8366-8373.	3.2	48
11	Colorimetric and ratiometric fluorescent sensor for F ²⁺ based on benzimidazole-naphthalene conjugate: Reversible and reusable study & design of logic gate function. <i>Dyes and Pigments</i> , 2017, 140, 47-55.	3.7	45
12	Divergence-degenerate spatial multiplexing towards future ultrahigh capacity, low error-rate optical communications. <i>Light: Science and Applications</i> , 2022, 11, 144.	16.6	45
13	Ag(I)-Catalyzed Three-Component Reaction of 2-Alkynylbenzaldehydes, Amines, and Diazo Compounds. <i>Organic Letters</i> , 2015, 17, 4332-4335.	4.6	44
14	Rapid and Cheap Synthesis of Benzimidazoles via Intermittent Microwave Promotion: A Simple and Potential Industrial Application of Air as Oxidant. <i>Synthetic Communications</i> , 2010, 40, 1963-1977.	2.1	42
15	1,1-Diphenylvinylsulfide as a Functional AIEgen Derived from the Aggregation-Induced Quenching Molecule 1,1-Diphenylethene through Simple Thioetherification. <i>Angewandte Chemie</i> , 2020, 132, 2358-2363.	2.0	42
16	High temperature thermochromic polydiacetylenes: Design and colorimetric properties. <i>Applied Surface Science</i> , 2017, 423, 951-956.	6.1	41
17	PS-BQ: an efficient polymer-supported cocatalyst for the Wacker reaction in supercritical carbon dioxide. <i>Green Chemistry</i> , 2005, 7, 582.	9.0	39
18	Recent endeavors on design, synthesis, fluorescence mechanisms and applications of benzazole-based molecular probes toward miscellaneous species. <i>Dyes and Pigments</i> , 2020, 175, 108157.	3.7	38

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19	Novel benzimidazole-based ratiometric fluorescent probes for acidic pH. <i>Dyes and Pigments</i> , 2018, 149, 1-7.	3.7	37
20	Novel dual-functional fluorescent sensors based on bis(5,6-dimethylbenzimidazole) derivatives for distinguishing of Ag ⁺ and Fe ³⁺ in semi-aqueous medium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 206, 632-641.	3.9	37
21	Concise design and synthesis of water-soluble fluorescence sensor for sequential detection of Zn(II) and picric acid via cascade mechanism. <i>Dyes and Pigments</i> , 2019, 167, 164-173.	3.7	37
22	Design and application of tri-benzimidazolyl star-shape molecules as fluorescent chemosensors for the fast-response detection of fluoride ion. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 865-875.	7.8	36
23	Copper(I)-Catalyzed Alkyl- and Arylsulfonylation of 3,4-Dihalo-2(5H)-furanones (X=Br, Cl) with Sulfoxides under Mild Conditions. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2961-2971.	4.3	36
24	Self-assembled structures of N-alkylated bisbenzimidazolyl naphthalene in aqueous media for highly sensitive detection of picric acid. <i>Analytica Chimica Acta</i> , 2017, 976, 74-83.	5.4	35
25	Preparation and Characterization of Poly-1,2,3-triazole with Chiral 2(5H)-Furanone Moiety as Potential Optical Brightening Agents. <i>ACS Omega</i> , 2017, 2, 5557-5564.	3.5	34
26	Synthesis and biological evaluation of 4-biphenylamino-5-halo-2(5H)-furanones as potential anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2017, 139, 84-94.	5.5	34
27	Synthesis and Characterization of Fluorescent Brightening Agents with Chiral 2(5H)-Furanone and Bis-1,2,3-triazole Structure. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 11850-11857.	3.7	33
28	Characterization of poly(D,L-lactic acid) synthesized by direct melt polymerization and its application in Chinese traditional medicine compound prescription microspheres. <i>Journal of Applied Polymer Science</i> , 2005, 97, 195-200.	2.6	32
29	Palladium-Catalyzed Desulfative Arylation of 5-Alkoxy-3,4-dibromo-2(5H)-furanone with Sodium Arylsulfonates. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1193-1197.	2.4	32
30	Synthesis of N-2(5H)-furanonyl sulfonyl hydrazone derivatives and their biological evaluation in vitro and in vivo activity against MCF-7 breast cancer cells. <i>Bioorganic Chemistry</i> , 2021, 107, 104518.	4.1	32
31	Syntheses of poly(lactic acid)-poly(ethylene glycol) serial biodegradable polymer materials via direct melt polycondensation and their characterization. <i>Journal of Applied Polymer Science</i> , 2006, 102, 577-587.	2.6	27
32	Synthesis of biodegradable material poly(lactic acid-co-glycerol) via direct melt polycondensation and its reaction mechanism. <i>Journal of Polymer Research</i> , 2011, 18, 2093-2102.	2.4	26
33	Synthesis of novel biodegradable material poly(lactic acid-trimesic acid) via direct melt copolycondensation and its characterization. <i>Journal of Polymer Research</i> , 2011, 18, 499-508.	2.4	24
34	Concise synthesis of chiral 2(5H)-furanone derivatives possessing 1,2,3-triazole moiety via one-pot approach. <i>Tetrahedron</i> , 2012, 68, 2827-2843.	1.9	24
35	Metal-Free Sulfonylation of 3,4-Dihalo-2(5H)-furanones (X = Cl, Br) with Sodium Sulfonates under Air Atmosphere in Aqueous Media via a Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4147-4153.	6.7	24
36	A radical coupling reaction of DMSO with sodium arylsulfonates in air: mild utilization of DMSO as C ₁ resource for the synthesis of arylsulfonyl dibromomethane. <i>RSC Advances</i> , 2016, 6, 25651-25655.	3.6	23

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37	Palladium-Catalyzed C-N Bond Activation: The Synthesis of α -Amino Acid Derivatives from Triethylamine and Acrylates. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4600-4604.	2.4	22
38	Reaction of 5-alkoxy-3,4-dihalo-2(5H)-furanones with secondary amines: expected versus unanticipated products and their preliminary bioactivity investigations. <i>Monatshefte für Chemie</i> , 2012, 143, 443-453.	1.8	21
39	Rational design and synthesis of Y-shaped fluorophores with multifarious emission properties and their application in the sensitive detection of PA. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8257-8267.	5.5	21
40	Bis-2(5-hydroxy)-furanone derivatives as new anticancer agents: Design, synthesis, biological evaluation, and mechanism studies. <i>Chemical Biology and Drug Design</i> , 2018, 92, 1232-1240.	3.2	19
41	A 3,4-dihalo-2(5-hydroxy)-furanone initiated ring-opening reaction of DABCO in the absence of a metal catalyst and additive and its application in a one-pot two-step reaction. <i>Green Chemistry</i> , 2019, 21, 3782-3788.	9.0	19
42	Rational Design and Facile Synthesis of Dual-State Emission Fluorophores: Expanding Functionality for the Sensitive Detection of Nitroaromatic Compounds. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	19
43	Synthesis of biodegradable material poly(lactic acid-co-sorbitol) via direct melt polycondensation and its reaction mechanism. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	18
44	A highly selective, pH-tolerable and fast-response fluorescent probe for Fe ³⁺ based on star-shape benzothiazole derivative. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 350, 52-58.	3.9	18
45	A dual-channel sensor containing multiple nitrogen heterocycles for the selective detection of Cu ²⁺ , Hg ²⁺ and Zn ²⁺ in same solvent system by different mechanism.. <i>Dyes and Pigments</i> , 2019, 170, 107651.	3.7	18
46	3,4-Dihalo-2(5H)-furanones: a novel oxidant for the Glaser coupling reaction. <i>Monatshefte für Chemie</i> , 2011, 142, 507-513.	1.8	17
47	Degradation of emerging contaminants by Co (III) ions in situ generated on anode surface in aqueous solution. <i>Chemosphere</i> , 2019, 221, 543-553.	8.2	17
48	A multifunctional probe based on the conjugate of four fused N-heterocycles: Detecting picric acid, Cu ²⁺ and Al ³⁺ in ethanol solution system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 403, 112835.	3.9	17
49	Simple inorganic base promoted polycyclic construction using mucohalic acid as a C ₃ synthon: synthesis and AIE probe application of benzo[4,5]imidazo[1,2-a]pyridines. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1127-1136.	4.5	16
50	Preparation and characteristics of interferon-alpha poly(lactic-co-glycolic acid) microspheres. <i>Journal of Microencapsulation</i> , 2010, 27, 133-141.	2.8	14
51	Synthesis and characterization of a novel flame retardant, poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (acid- <i>Journal of Applied Polymer Science</i> , 2019, 143, 4753-4761.	1.6	14
52	C4-Selective Synthesis of Vinyl Thiocyanates and Selenocyanates Through 3,4-Dihalo-2(5-hydroxy)-furanones. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4572-4580.	2.4	14
53	Progress in Design, Synthesis and Application of Triphenylamine-Based Fluorescent Probes. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 919.	1.3	14
54	Progress in the Synthesis and Application of Benzimidazole-Based Fluorescent Chemosensors. <i>Chinese Journal of Organic Chemistry</i> , 2015, 35, 2465.	1.3	14

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55	Research Progress in Design, Synthesis and Application of Benzothiazole-Based Fluorescent Probes. Chinese Journal of Organic Chemistry, 2017, 37, 2221.	1.3	14
56	Synthesis of poly(lactic acid)-poly(phenyl phosphate) via direct polycondensation and its characterization. Journal of Polymer Research, 2009, 16, 255-261.	2.4	13
57	Synthesis of biodegradable material poly(lactic acid-co-L-aspartic acid) via direct melt polycondensation and its characterization. Journal of Applied Polymer Science, 2011, 121, 3662-3668.	2.6	13
58	A concise synthesis of benzimidazoles via the microwave-assisted one-pot batch reaction of amino acids up to a 10-g scale. Amino Acids, 2014, 46, 2427-2433.	2.7	13
59	Synthesis of amino acid derivatives of 5-alkoxy-3,4-dihalo-2(5H)-furanones and their preliminary bioactivity investigation as linkers. Organic and Biomolecular Chemistry, 2019, 17, 5138-5147.	2.8	13
60	Synthesis and Characterization of a Novel Biodegradable Material, Poly(Lactic Acid-co-Tryptophane). Designed Monomers and Polymers, 2010, 13, 415-426.	1.6	12
61	Design, synthesis, and characterization of a potential flame retardant poly(lactic acid) copolymer. Journal of Applied Polymer Science, 2014, 131, .	2.6	12
62	Quick construction of a C-N bond from arylsulfonyl hydrazides and C(sp ²)-X compounds promoted by DMAP at room temperature. RSC Advances, 2019, 9, 19917-19923.	3.6	12
63	Synthesis of 4-Diarylamino-3-iodo-2(5H)-furanones via the Simultaneous Iodination and N-Arylation by an Efficient Difunctionalizable Transfer Reagent PhI(OAc) ₂ . Synthetic Communications, 2014, 44, 1944-1956.	2.1	11
64	One-pot preparation of polylactic acid-ibuprofen conjugates and their performance characterization. Polymer Chemistry, 2017, 8, 7009-7016.	3.9	10
65	DABCO-Mediated C=O Bond Formation from C(sp ²)-Halogen Bond-Containing Compounds and Alkyl Alcohols. Asian Journal of Organic Chemistry, 2018, 7, 2479-2483.	2.7	10
66	Synthesis of poly(D,L-lactic acid) modified by cholic acid via direct melt copolycondensation and its characterization. Journal of Applied Polymer Science, 2010, 117, 1405-1415.	2.6	9
67	Simple inorganic base promoted C-N and C-C formation: synthesis of benzo[4,5]imidazo[1,2-a]pyridines as functional AIEgens used for detecting picric acid. Organic and Biomolecular Chemistry, 2021, 19, 8133-8139.	2.8	9
68	Research Progress in Design, Synthesis and Application of Multifunctional Fluorescent Probes. Chinese Journal of Organic Chemistry, 2019, 39, 1846.	1.3	9
69	Synthesis of 2(5H)-Furanone Derivatives with Bis(1,2,3-triazole) Structure. Chinese Journal of Chemistry, 2012, 30, 2411-2422.	4.9	8
70	Synthesis of N-[5-alkoxy-2(5H)-furanonyl] amino acid propargyl esters. Research on Chemical Intermediates, 2012, 38, 925-936.	2.7	8
71	Polystyrene-supported Phenol/DMAP: an Efficient Binary Catalyst System for CO ₂ Fixation to Give Cyclic Carbonates. Chinese Journal of Chemistry, 2007, 25, 1051-1054.	4.9	7
72	Synthesis of poly(D,L-lactic acid) modified by triethanolamine by direct melt copolycondensation and its characterization. Journal of Applied Polymer Science, 2011, 119, 1883-1888.	2.6	7

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73	Synthesis and characterization of a novel functional biodegradable material, poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 7	1.6	7
74	Efficient synthesis, characterization, and application of biobased scab-bionic hemostatic polymers. Polymer Journal, 2020, 52, 615-627.	2.7	7
75	Controllable preparation and performance of bio-based poly(lactic acid-iminodiacetic acid) as sustained-release Pb ²⁺ chelating agent. IScience, 2021, 24, 102518.	4.1	7
76	Recent Progress in C-C Bond Construction Based on 2(5H)-Furanone. Chinese Journal of Organic Chemistry, 2018, 38, 1872.	1.3	7
77	Progress on the Synthesis of Pyrido[1,2-a]benzimidazoles. Chinese Journal of Organic Chemistry, 2020, 40, 4168.	1.3	7
78	Synthesis and characterization of the biomaterial poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (acidâ€‹i>co</i>â€‹i>N</i> copolymerization. Journal of Applied Polymer Science, 2011, 121, 420-426.	2.6	6
79	Design and synthesis of 2(5H)-furanone liquid-crystal compounds based on natural molecules and biphenyl derivatives. Research on Chemical Intermediates, 2013, 39, 1865-1876.	2.7	6
80	Synthesis and characterization of a novel drug-loaded polymer, poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (acid<i>co</i>â€‹i>N</i>)	1.6	6
81	Direct Metalâ€‹Free Preparation of Functionalizable Polylactic Acidâ€‹Ethinisterone Conjugates in a Oneâ€‹Pot Approach. Macromolecular Chemistry and Physics, 2019, 220, 1800475.	2.2	6
82	Organ Specific Differences in Alteration of Aquaporin Expression in Rats Treated with Sennoside A, Senna Anthraquinones and Rhubarb Anthraquinones. International Journal of Molecular Sciences, 2021, 22, 8026.	4.1	6
83	Application of 2-Aminopyridines in the Synthesis of Five- and Six-Membered Azaheterocycles. Chinese Journal of Organic Chemistry, 2021, 41, 3482.	1.3	6
84	Synthesis of poly(lactic acidâ€‹i>co</i>â€‹menthol) via direct melt polycondensation and its characterization. Journal of Applied Polymer Science, 2012, 125, E339.	2.6	5
85	Synthesis of 5-alkoxy-4-amino-3-bromo-2(5H)-furanones containing benzene rings. Research on Chemical Intermediates, 2013, 39, 1153-1168.	2.7	5
86	Synthesis of 2(5H)-Furanone Derivatives with Symmetrical and Unsymmetrical Bis-1,2,3-triazole Structure. Synthetic Communications, 2014, 44, 2974-2987.	2.1	4
87	One-pot preparation of thermosensitive polylactic acid materials by modifying with N-Isopropyl acrylamide. Polymer, 2021, 231, 124126.	3.8	4
88	N-alkylation briefly constructs tunable multifunctional sensor materials: Multianalyte detection and reversible adsorption. IScience, 2021, 24, 103126.	4.1	4
89	Synthesis of benzimidazole/triphenylamine-based compounds, evaluation of their bioactivities and an <i>in silico</i> study with receptor tyrosine kinases. New Journal of Chemistry, 2022, 46, 675-685.	2.8	4
90	Direct melting polycondensation and characterization of poly(É-caprolactone-co-lactic acid). Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2007, 2, 178-182.	0.4	3

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91	Synthesis and characterization of biphenyl liquid crystal based on natural molecules and 2(5H)-furanone moiety. <i>Research on Chemical Intermediates</i> , 2013, 39, 2513-2526.	2.7	3
92	Progress in the Synthesis of Benzoheterocycles from 2-Halobenzamides. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 2175.	1.3	3
93	A NaHCO ₃ Promoted Three-component Cyclization: Easy Access to Benzodisulfide Heterocycles. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, .	2.7	3
94	Furanonyl amino acid derivatives as hemostatic drugs: design, synthesis and hemostasis performance. <i>Amino Acids</i> , 2022, 54, 989-999.	2.7	2
95	Synthesis of chiral 2(5H)-furanone derivatives with 1,3-butadiyne structure. <i>Research on Chemical Intermediates</i> , 2013, 39, 4321-4335.	2.7	1
96	Preparation of Large Conjugated Polybenzimidazole Fluorescent Materials and Their Application in Metal Ion Detection. <i>Polymers</i> , 2021, 13, 3091.	4.5	1
97	3,3-Dibromo-5,5-bis[(S)-L-menthyl]oxy]-4,4-(hexane-1,6-diyl)diimino)difuran-2(5H)-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o1642-o1642.	0.2	1
98	Synthesis of 2(5H)-Furanone Derivatives with Biphenyl Ether Unit. <i>Chinese Journal of Organic Chemistry</i> , 2015, 35, 1081.	1.3	1
99	One-Pot Synthesis of N-Furanonyl Sulfonyl Hydrazone Compounds. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 2750.	1.3	0