# Zhao-Yang Wang

List of Publications by Year
in descending order



| 99 | 2,245 | 172457 | 276875 |
|---|---|---|---|
| papers | citations | 29 h-index | 41 g-index |

| 99 | 99 | 99 | 2082 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rational Design and Facile Synthesis of Dualâ€State Emission Fluorophores: Expanding Functionality for the Sensitive Detection of Nitroaromatic Compounds. Chemistry - A European Journal, 2022, 28, . | 3.3 | 19 |
| 2 | Simple inorganic base promoted polycyclic construction using mucohalic acid as a C<sub>3</sub> synthon: synthesis and AIE probe application of benzo[4,5]imidazo[1,2-a]pyridines. Organic Chemistry Frontiers, 2022, 9, 1127-1136. | 4.5 | 16 |
| 3 | Synthesis of benzimidazole/triphenylamine-based compounds, evaluation of their bioactivities and an in silico study with receptor tyrosine kinases. New Journal of Chemistry, 2022, 46, 675-685. | 2.8 | 4 |
| 4 | Furanonyl amino acid derivatives as hemostatic drugs: design, synthesis and hemostasis performance. Amino Acids, 2022, 54, 989-999. | 2.7 | 2 |
| 5 | A NaHCO<sub>3</sub> Promoted Threeâ€component Cyclization: Easy Access to Benzodisulfide Heterocycles. Asian Journal of Organic Chemistry, 2022, 11, . | 2.7 | 3 |
| 6 | Divergence-degenerate spatial multiplexing towards future ultrahigh capacity, low error-rate optical communications. Light: Science and Applications, 2022, 11, 144. | 16.6 | 45 |
| 7 | 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. Bioorganic Chemistry, 2021, 107, 104518. | 4.1 | 32 |
| 8 | Simple inorganic base promoted Câ€“N and Câ€“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 |
| 9 | Progress in Design, Synthesis and Application of Triphenylamine-Based Fluorescent Probes. Chinese Journal of Organic Chemistry, 2021, 41, 919. | 1.3 | 14 |
| 10 | One-Pot Synthesis ofN-Furanonyl Sulfonyl Hydrazone Compounds. Chinese Journal of Organic Chemistry, 2021, 41, 2750. | 1.3 | 0 |
| 11 | Controllable preparation and performance of bio-based poly(lactic acid-iminodiacetic acid) as sustained-release Pb2+ chelating agent. IScience, 2021, 24, 102518. | 4.1 | 7 |
| 12 | 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 |
| 13 | One-pot preparation of thermosensitive polylactic acid materials by modifying with N-Isopropyl acrylamide. Polymer, 2021, 231, 124126. | 3.8 | 4 |
| 14 | Preparation of Large Conjugated Polybenzimidazole Fluorescent Materials and Their Application in Metal Ion Detection. Polymers, 2021, 13, 3091. | 4.5 | 1 |
| 15 | N-alkylation briefly constructs tunable multifunctional sensor materials: Multianalyte detection and reversible adsorption. IScience, 2021, 24, 103126. | 4.1 | 4 |
| 16 | Progress in the Synthesis of Benzoheterocycles from 2-Halobenzamides. Chinese Journal of Organic Chemistry, 2021, 41, 2175. | 1.3 | 3 |
| 17 | Application of 2-Aminopyridines in the Synthesis of Five- and Six-Membered Azaheterocycles. Chinese Journal of Organic Chemistry, 2021, 41, 3482. | 1.3 | 6 |
| 18 | Recent endeavors on design, synthesis, fluorescence mechanisms and applications of benzazole-based molecular probes toward miscellaneous species. Dyes and Pigments, 2020, 175, 108157. | 3.7 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 1,1â€Diphenylvinylsulfide as a Functional AIEgen Derived from the Aggregationâ€Causedâ€Quenching Molecule 1,1â€Diphenylethene through Simple Thioetherification. Angewandte Chemie, 2020, 132, 2358-2363. | 2.0 | 42 |
| 20 | 1,1â€Diphenylvinylsulfide as a Functional AIEgen Derived from the Aggregationâ€Causedâ€Quenching Molecule 1,1â€Diphenylethene through Simple Thioetherification. Angewandte Chemie - International Edition, 2020, 59, 2338-2343. | 13.8 | 67 |
| 21 | A multifunctional probe based on the conjugate of four fused N-heterocycles: Detecting picric acid, Cu2+ and Al3+ in ethanol solution system. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 403, 112835. | 3.9 | 17 |
| 22 | SU(2) PoincarÃ© sphere: A generalized representation for multidimensional structured light. Physical Review A, 2020, 102, . | 2.5 | 51 |
| 23 | Rational design and synthesis of Y-shaped fluorophores with multifarious emission properties and their application in the sensitive detection of PA. Journal of Materials Chemistry C, 2020, 8, 8257-8267. | 5.5 | 21 |
| 24 | Efficient synthesis, characterization, and application of biobased scab-bionic hemostatic polymers. Polymer Journal, 2020, 52, 615-627. | 2.7 | 7 |
| 25 | Progress on the Synthesis of Pyrido[1,2-a]benzimidazoles. Chinese Journal of Organic Chemistry, 2020, 40, 4168. | 1.3 | 7 |
| 26 | Novel dual-functional fluorescent sensors based on bis(5,6-dimethylbenzimidazole) derivatives for distinguishing of Ag+ and Fe3+ in semi-aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 632-641. | 3.9 | 37 |
| 27 | Quick construction of a Câ€“N bond from arylsulfonyl hydrazides and C<sub>sp2</sub>â€“X compounds promoted by DMAP at room temperature. RSC Advances, 2019, 9, 19917-19923. | 3.6 | 12 |
| 28 | A 3,4-dihalo-2(5H)-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. Green Chemistry, 2019, 21, 3782-3788. | 9.0 | 19 |
| 29 | A dual-channel sensor containing multiple nitrogen heterocycles for the selective detection of Cu2+, Hg2+ and Zn2+ in same solvent system by different mechanism.. Dyes and Pigments, 2019, 170, 107651. | 3.7 | 18 |
| 30 | C4â€Selective Synthesis of Vinyl Thiocyanates and Selenocyanates Through 3,4â€Dihaloâ€2(5H)â€furanones. European Journal of Organic Chemistry, 2019, 2019, 4572-4580. | 2.4 | 14 |
| 31 | 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 |
| 32 | Concise design and synthesis of water-soluble fluorescence sensor for sequential detection of Zn(II) and picric acid via cascade mechanism. Dyes and Pigments, 2019, 167, 164-173. | 3.7 | 37 |
| 33 | Direct Metalâ€Free Preparation of Functionalizable Polylactic Acidâ€Ethisterone Conjugates in a Oneâ€Pot Approach. Macromolecular Chemistry and Physics, 2019, 220, 1800475. | 2.2 | 6 |
| 34 | Degradation of emerging contaminants by Co (III) ions in situ generated on anode surface in aqueous solution. Chemosphere, 2019, 221, 543-553. | 8.2 | 17 |
| 35 | A functionalized fluorochrome based on quinoline-benzimidazole conjugate: From facile design to highly sensitive and selective sensing for picric acid. Dyes and Pigments, 2019, 162, 367-376. | 3.7 | 50 |
| 36 | Research Progress in Design, Synthesis and Application of Multifunctional Fluorescent Probes. Chinese Journal of Organic Chemistry, 2019, 39, 1846. | 1.3 | 9 |

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|---|---|---|---|
| 37 | Bisâ€2(5H)â€furanone derivatives as new anticancer agents: Design, synthesis, biological evaluation, and mechanism studies. Chemical Biology and Drug Design, 2018, 92, 1232-1240. | 3.2 | 19 |
| 38 | Metal-Free Sulfonylation of 3,4-Dihalo-2(5H)-furanones (X = Cl, Br) with Sodium Sulfinates under Air Atmosphere in Aqueous Media via a Radical Pathway. ACS Sustainable Chemistry and Engineering, 2018, 6, 4147-4153. | 6.7 | 24 |
| 39 | A highly selective, pH-tolerable and fast-response fluorescent probe for Fe3+ based on star-shape benzothiazole derivative. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 350, 52-58. | 3.9 | 18 |
| 40 | Novel benzimidazole-based ratiometric fluorescent probes for acidic pH. Dyes and Pigments, 2018, 149, 1-7. | 3.7 | 37 |
| 41 | DABCOâ€Mediated Câ^'O Bond Formation from C<sub>sp2</sub>â€Halogen Bondâ€Containing Compounds and Alkyl Alcohols. Asian Journal of Organic Chemistry, 2018, 7, 2479-2483. | 2.7 | 10 |
| 42 | Disproportionate Coupling Reaction of Sodium Sulfinates Mediated by BF<sub>3</sub>Â·OEt<sub>2</sub>: An Approach to Symmetrical/Unsymmetrical Thiosulfonates. Organic Letters, 2018, 20, 4754-4758. | 4.6 | 75 |
| 43 | Recent Progress in C-C Bond Construction Based on 2(5H)-Furanone. Chinese Journal of Organic Chemistry, 2018, 38, 1872. | 1.3 | 7 |
| 44 | Colorimetric and ratiometric fluorescent sensor for Fâ^' based on benzimidazole-naphthalene conjugate: Reversible and reusable study & design of logic gate function. Dyes and Pigments, 2017, 140, 47-55. | 3.7 | 45 |
| 45 | Self-assembled structures of N -alkylated bisbenzimidazolyl naphthalene in aqueous media for highly sensitive detection of picric acid. Analytica Chimica Acta, 2017, 976, 74-83. | 5.4 | 35 |
| 46 | One-pot preparation of polylactic acid-ibuprofen conjugates and their performance characterization. Polymer Chemistry, 2017, 8, 7009-7016. | 3.9 | 10 |
| 47 | Advances in polydiacetylene development for the design of side chain groups in smart material applications â€“ a mini review. Polymer Chemistry, 2017, 8, 7438-7445. | 3.9 | 64 |
| 48 | Preparation and Characterization of Poly-1,2,3-triazole with Chiral 2(5H)-Furanone Moiety as Potential Optical Brightening Agents. ACS Omega, 2017, 2, 5557-5564. | 3.5 | 34 |
| 49 | Copper(I)â€Catalyzed Alkylâ€•and Arylsulfenylation of 3,4â€Dihaloâ€2(5H)â€furanones (X=Br, Cl) with Sulfoxides under Mild Conditions. Advanced Synthesis and Catalysis, 2017, 359, 2961-2971. | 4.3 | 36 |
| 50 | Synthesis and biological evaluation of 4-biphenylamino-5-halo-2( 5H )-furanones as potential anticancer agents. European Journal of Medicinal Chemistry, 2017, 139, 84-94. | 5.5 | 34 |
| 51 | High temperature thermochromic polydiacetylenes: Design and colorimetric properties. Applied Surface Science, 2017, 423, 951-956. | 6.1 | 41 |
| 52 | Research Progress in Design, Synthesis and Application of Benzothiazole-Based Fluorescent Probes. Chinese Journal of Organic Chemistry, 2017, 37, 2221. | 1.3 | 14 |
| 53 | Design and application of tri-benzimidazolyl star-shape molecules as fluorescent chemosensors for the fast-response detection of fluoride ion. Sensors and Actuators B: Chemical, 2016, 237, 865-875. | 7.8 | 36 |
| 54 | A radical coupling reaction of DMSO with sodium arylsulfinates in airâ€‰:â€‰mild utilization of DMSO as C<sub>1</sub> resource for the synthesis of arylsulfonyl dibromomethane. RSC Advances, 2016, 6, 25651-25655. | 3.6 | 23 |

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|---|---|---|---|
| 55 | Synthesis and characterization of a novel drug-loaded polymer, poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td (acid-co-3,3â€ | 1.6 | 6 |
| 56 | Palladiumâ€Catalyzed Desulfitative Arylation of 5â€Alkoxyâ€3,4â€dibromoâ€2(5H)â€furanone with Sodium Arylsulfinates. European Journal of Organic Chemistry, 2015, 2015, 1193-1197. | 2.4 | 32 |
| 57 | Ag(I)-Catalyzed Three-Component Reaction of 2-Alkynylbenzaldehydes, Amines, and Diazo Compounds. Organic Letters, 2015, 17, 4332-4335. | 4.6 | 44 |
| 58 | Synthesis of 2(5H)-Furanone Derivatives with Biphenyl Ether Unit. Chinese Journal of Organic Chemistry, 2015, 35, 1081. | 1.3 | 1 |
| 59 | Progress in the Synthesis and Application of Benzimidazole-Based Fluorescent Chemosensors. Chinese Journal of Organic Chemistry, 2015, 35, 2465. | 1.3 | 14 |
| 60 | 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 |
| 61 | Benzimidazole Derivatives: Selective Fluorescent Chemosensors for the Picogram Detection of Picric Acid. Journal of Organic Chemistry, 2014, 79, 11619-11630. | 3.2 | 114 |
| 62 | 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 |
| 63 | Design, Synthesis, and Characterization of 1,3,5-Tri(1H-benzo[d]imidazol-2-yl)benzene-Based Fluorescent Supramolecular Columnar Liquid Crystals with a Broad Mesomorphic Range. Journal of Organic Chemistry, 2014, 79, 8366-8373. | 3.2 | 48 |
| 64 | Synthesis of 4-Diarylamino-3-iodo-2(5H)-furanones via the Simultaneous Î±-Iodination and N Î² -Arylation by an Efficient Difunctionalizable Transfer Reagent PhI(OAc)2. Synthetic Communications, 2014, 44, 1944-1956. | 2.1 | 11 |
| 65 | Design, synthesis, and characterization of a potential flame retardant poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td ( Science, 2014, 131, . | 2.6 | 12 |
| 66 | Synthesis of chiral 2(5H)-furanone derivatives with 1,3-butadiyne structure. Research on Chemical Intermediates, 2013, 39, 4321-4335. | 2.7 | 1 |
| 67 | Synthesis and characterization of biphenyl liquid crystal based on natural molecules and 2(5H)-furanone moiety. Research on Chemical Intermediates, 2013, 39, 2513-2526. | 2.7 | 3 |
| 68 | 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 |
| 69 | 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 |
| 70 | Synthesis and characterization of a novel flame retardant, poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (acid-co-3,3â€ | 1.6 | 14 |
| 71 | Synthesis and Characterization of Fluorescent Brightening Agents with Chiral 2(5H)-Furanone and Bis-1,2,3-triazole Structure. Industrial & Engineering Chemistry Research, 2013, 52, 11850-11857. | 3.7 | 33 |
| 72 | Synthesis of 2(5H)â€Furanone Derivatives with Bisâ€1,2,3â€triazole Structure. Chinese Journal of Chemistry, 2012, 30, 2411-2422. | 4.9 | 8 |

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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 | Synthesis of biodegradable material poly(lactic acid-co-sorbitol) via direct melt polycondensation and its reaction mechanism. Journal of Polymer Research, 2012, 19, 1. | 2.4 | 18 |
| 75 | Synthesis of poly(lactic acidâ€coâ€menthol) via direct melt polycondensation and its characterization. Journal of Applied Polymer Science, 2012, 125, E339. | 2.6 | 5 |
| 76 | Concise synthesis of chiral 2(5H)-furanone derivatives possessing 1,2,3-triazole moiety via one-pot approach. Tetrahedron, 2012, 68, 2827-2843. | 1.9 | 24 |
| 77 | Synthesis of N-[5-alkoxy-2(5H)-furanonyl] amino acid propargyl esters. Research on Chemical Intermediates, 2012, 38, 925-936. | 2.7 | 8 |
| 78 | Reaction of 5-alkoxy-3,4-dihalo-2(5H)-furanones with secondary amines: expected versus unanticipated products and their preliminary bioactivity investigations. Monatshefte FÃ¼r Chemie, 2012, 143, 443-453. | 1.8 | 21 |
| 79 | Ligands for Copper-Catalyzed Câ^'N Bond Forming Reactions with 1 Mol% CuBr as Catalyst. Journal of Organic Chemistry, 2011, 76, 3151-3159. | 3.2 | 108 |
| 80 | Synthesis of novel biodegradable material poly(lactic acid-trimesic acid) via direct melt copolycondensation and its characterization. Journal of Polymer Research, 2011, 18, 499-508. | 2.4 | 24 |
| 81 | Synthesis of biodegradable material poly(lactic acid-co-glycerol) via direct melt polycondensation and its reaction mechanism. Journal of Polymer Research, 2011, 18, 2093-2102. | 2.4 | 26 |
| 82 | 3,4-Dihalo-2(5H)-furanones: a novel oxidant for the Glaser coupling reaction. Monatshefte FÃ¼r Chemie, 2011, 142, 507-513. | 1.8 | 17 |
| 83 | Synthesis of poly(<scp>D</scp>,<scp>L</scp>â€lactic acid) modified by triethanolamine by direct melt copolycondensation and its characterization. Journal of Applied Polymer Science, 2011, 119, 1883-1888. | 2.6 | 7 |
| 84 | Synthesis and characterization of the biomaterial poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (acidâ€coâ€N<br>copolymerization. Journal of Applied Polymer Science, 2011, 121, 420-426. | 2.6 | 6 |
| 85 | Synthesis of biodegradable material poly(lactic acidâ€coâ€aspartic acid) via direct melt polycondensation and its characterization. Journal of Applied Polymer Science, 2011, 121, 3662-3668. | 2.6 | 13 |
| 86 | Rapid and Cheap Synthesis of Benzimidazoles via Intermittent Microwave Promotion: A Simple and Potential Industrial Application of Air as Oxidant. Synthetic Communications, 2010, 40, 1963-1977. | 2.1 | 42 |
| 87 | Synthesis of poly(<scp>D,L</scp>â€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 |
| 88 | Preparation and characteristics of interferon-alpha poly(lactic-co-glycolic acid) microspheres. Journal of Microencapsulation, 2010, 27, 133-141. | 2.8 | 14 |
| 89 | Synthesis and Characterization of a Novel Biodegradable Material, Poly(Lactic Acid-co-Tryptophane). Designed Monomers and Polymers, 2010, 13, 415-426. | 1.6 | 12 |
| 90 | 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 |

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|---|---|---|---|
| 91 | 3,3â€²-Dibromo-5,5â€²-bis[(S)-L-menthyloxy]-4,4â€²-(hexane-1,6-diyldiimino)difuran-2(5H)-one. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1642-o1642. | 0.2 | 1 |
| 92 | Palladiumâ€Catalyzed Câ€“N Bond Activation: The Synthesis of Î²â€Amino Acid Derivatives from Triethylamine and Acrylates. European Journal of Organic Chemistry, 2007, 2007, 4600-4604. | 2.4 | 22 |
| 93 | Polystyreneâ€supported Phenol/DMAP: an Efficient Binary Catalyst System for CO<sub>2</sub> Fixation to Give Cyclic Carbonates. Chinese Journal of Chemistry, 2007, 25, 1051-1054. | 4.9 | 7 |
| 94 | 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 |
| 95 | Syntheses of poly(lactic acid-co-glycolic acid) serial biodegradable polymer materials via direct melt polycondensation and their characterization. Journal of Applied Polymer Science, 2006, 99, 244-252. | 2.6 | 83 |
| 96 | Syntheses of poly(lactic acid)-poly(ethylene glycol) serial biodegradable polymer materials via direct melt polycondensation and their characterization. Journal of Applied Polymer Science, 2006, 102, 577-587. | 2.6 | 27 |
| 97 | Characterization of poly(D,L-lactic acid) synthesized by direct melt polymerization and its application in Chinese traditional medicine compound prescription microspheres. Journal of Applied Polymer Science, 2005, 97, 195-200. | 2.6 | 32 |
| 98 | PSâ€“BQ: an efficient polymer-supported cocatalyst for the Wacker reaction in supercritical carbon dioxide. Green Chemistry, 2005, 7, 582. | 9.0 | 39 |
| 99 | Direct synthesis of poly(D,L-lactic acid) by melt polycondensation and its application in drug delivery. Journal of Applied Polymer Science, 2004, 91, 2143-2150. | 2.6 | 69 |