

# Gang Zhao

## List of Publications by Year in descending order

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91  
papers

3,184  
citations

126907

33  
h-index

168389

53  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2729  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric [3+2] Cycloadditions of Allenes and Dual Activated Olefins Catalyzed by Simple Bifunctional $\beta$ -N-acyl Aminophosphines. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4467-4470.	13.8	286
2	Fluorinated graphene: facile solution preparation and tailorable properties by fluorine-content tuning. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8782-8789.	10.3	121
3	Thiourea-phosphonium salts from amino acids: cooperative phase-transfer catalysts in the enantioselective aza-Henry reaction. <i>Chemical Communications</i> , 2013, 49, 5972.	4.1	110
4	Enantioselective Addition of Thiols to Imines Catalyzed by Thiourea-Quaternary Ammonium Salts. <i>ACS Catalysis</i> , 2013, 3, 2218-2221.	11.2	86
5	Amide-Phosphonium Salt as Bifunctional Phase Transfer Catalyst for Asymmetric 1,6-Addition of Malonate Esters to <i>para</i> -Quinone Methides. <i>Journal of Organic Chemistry</i> , 2016, 81, 9315-9325.	3.2	85
6	Amino Acid-Derived Phosphonium Salts-Catalyzed Michael Addition of $\beta$ -Substituted Oxindoles. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 2701-2706.	4.3	81
7	Asymmetric Dual-Reagent Catalysis: Mannich-type Reactions Catalyzed by Ion Pair. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1775-1779.	13.8	79
8	Highly Efficient Asymmetric Epoxidation of Electron-Deficient $\alpha,\beta$ -Enones and Related Applications to Organic Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1685-1691.	4.3	77
9	Efficient organocatalysts derived from simple chiral acyclic amino acids in asymmetric catalysis. <i>Catalysis Science and Technology</i> , 2012, 2, 29-41.	4.1	76
10	Highly Enantioselective Michael Addition of Cyclic 1,3-Dicarbonyl Compounds to $\alpha,\beta$ -Unsaturated $\alpha$ -Keto Esters. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1648-1652.	4.3	75
11	Highly Enantioselective Organocatalyzed Construction of Quaternary Carbon Centers <i>via</i> Cross-Aldol Reaction of Ketones in Water. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2690-2694.	4.3	72
12	Assembly of a Series of Trinuclear Zinc(II) Compounds with $N_2O_2$ Donor Tetradentate Symmetrical Schiff Base Ligand. <i>Crystal Growth and Design</i> , 2010, 10, 4014-4022.	3.0	72
13	Highly Enantioselective Michael Addition of $\alpha$ -Substituted Cyano Ketones to $\alpha,\beta$ -Unsaturated $\alpha$ -Keto Esters using Bifunctional Thiourea-Tertiary Amine Catalysts: An Easy Access to Chiral Dihydropyrans. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2811-2816.	4.3	70
14	Asymmetric cyanation of imines via dipeptide-derived organophosphine dual-reagent catalysis. <i>Nature Communications</i> , 2016, 7, 12720.	12.8	66
15	Thiourea-Quaternary Ammonium Salt Catalyzed Asymmetric 1,3-Dipolar Cycloaddition of Imino Esters To Construct Spiro[pyrrolidin-3, $\beta$ -oxindoles]. <i>Organic Letters</i> , 2016, 18, 4774-4777.	4.6	65
16	Synthesis of Substituted 5-(Pyrrolidin-2-yl)tetrazoles and Their Application in the Asymmetric Biginelli Reaction. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 904-911.	2.4	64
17	Novel bifunctional thiourea-ammonium salt catalysts derived from amino acids: application to highly enantio- and diastereoselective aza-Henry reaction. <i>Tetrahedron</i> , 2013, 69, 5104-5111.	1.9	62
18	Dipeptide-Derived Multifunctional Quaternary Phosphonium Salt Catalyzed Asymmetric Cyclizations <i>via</i> a Tandem Michael Addition/ $S_N2$ Sequence. <i>Chemistry - A European Journal</i> , 2015, 21, 9998-10002.	3.3	62

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19	Enantioselective Michael Addition of Malonates to Chalcone Derivatives Catalyzed by Dipeptide-derived Multifunctional Phosphonium Salts. <i>Journal of Organic Chemistry</i> , 2016, 81, 9973-9982.	3.2	56
20	Synthesis of Spiro[chroman/tetrahydrothiophene-3,3'-oxindole] Scaffolds via Heteroatom-Michael-Michael Reactions: Easily Controlled Enantioselectivity via Bifunctional Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 579-583.	4.3	54
21	4,4'-Disubstituted-L-proline Catalyzes the Direct Asymmetric Michael Addition of Aldehydes to Nitrostyrenes. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1629-1632.	4.3	53
22	Asymmetric Strecker Reactions Catalyzed by Thiourea Phosphonium and Ammonium Salts. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 1819-1824.	4.3	52
23	Asymmetric Michael Addition of Oxindoles to Allenolate Catalyzed by N-Acyl Aminophosphine: Construction of Functionalized Oxindoles with Quaternary Stereogenic Center. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 359-363.	4.3	51
24	Enantioselective Construction of Spirocyclic Oxindoles via Tandem Michael/Michael Reactions Catalyzed by Multifunctional Quaternary Phosphonium Salt. <i>Journal of Organic Chemistry</i> , 2016, 81, 10558-10568.	3.2	51
25	Effective asymmetric vinylogous Mannich reaction of isatin imines with $\hat{1},\hat{1}$ -dicyanoolefins in the presence of a simple chiral amide phosphonium bifunctional phase transfer catalyst. <i>Organic Chemistry Frontiers</i> , 2017, 4, 101-114.	4.5	48
26	4,4'-Disubstituted-L-Prolines as Highly Enantioselective Catalysts for Direct Aldol Reactions. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2223-2228.	4.3	47
27	Highly Efficient Organocatalyzed Direct Asymmetric Aldol Reactions of Hydroxyacetone and Aldehydes. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 158-162.	4.3	46
28	Bifunctional Ion Pair Catalysts from Chiral $\hat{1},\hat{1}$ -Amino Acids. <i>Chinese Journal of Chemistry</i> , 2019, 37, 1111-1119.	4.9	46
29	Enantioselective Direct Mannich Reactions of Cyclic $\hat{1}^2$ -Ketoesters Catalyzed by Chiral Phosphine via a Novel Dual-Reagent Catalysis. <i>Organic Letters</i> , 2015, 17, 688-691.	4.6	44
30	Electrochemically Probing Dynamics of Ascorbate during Cytotoxic Edema in Living Rat Brain. <i>Journal of the American Chemical Society</i> , 2020, 142, 19012-19016.	13.7	43
31	Asymmetric Intermolecular Rauhut-Currier Reaction for the Construction of 3-Disubstituted Oxindoles with Quaternary Stereogenic Centers. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3934-3939.	4.3	42
32	Organocatalyzed aza-Michael-Michael cascade reactions to construct spirooxindole tetrahydroquinolines with all-carbon chiral centers. <i>RSC Advances</i> , 2013, 3, 16999.	3.6	38
33	Glucocorticoid-induced delayed fracture healing and impaired bone biomechanical properties in mice. <i>Clinical Interventions in Aging</i> , 2018, Volume 13, 1465-1474.	2.9	38
34	Palladium(II)-Catalyzed Formal [3 + 2] Cycloaddition of Aziridines with 3-Substituted Indoles: Synthesis of Enantioenriched Pyrroloindolines. <i>Journal of Organic Chemistry</i> , 2015, 80, 10710-10718.	3.2	34
35	Enantioselective Mannich-Type Reactions to Construct Trifluoromethylthio-Containing Tetrasubstituted Carbon Stereocenters via Asymmetric Dual-Reagent Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2942-2948.	4.3	33
36	Bone-targeting liposome formulation of Salvianic acid A accelerates the healing of delayed fracture Union in Mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2271-2282.	3.3	30

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37	Asymmetric Synthesis of 2,2-Difluorotetrahydrofurans through Palladium-Catalyzed Formal [3+2] Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23641-23645.	13.8	30
38	Reagent-Controlled Tandem Reactions of Vinyl Epoxides: Access to Functionalized $\beta$ -Butenolides. <i>Organic Letters</i> , 2016, 18, 1450-1453.	4.6	27
39	Total Synthesis of (–)-Fasicularin and (–)-Lepadiformine A Based on Zn-Mediated Allylation of Chiral <i>N</i> -tert-Butanesulfinyl Ketimine. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1660-1668.	2.4	26
40	Enantioselective desymmetrization of meso-aziridines with aromatic thiols catalyzed by chiral bifunctional quaternary phosphonium salts derived from $\beta$ -amino acids. <i>Tetrahedron</i> , 2015, 71, 1785-1791.	1.9	26
41	Highly Enantioselective Epoxidation of $\alpha,\beta$ -Unsaturated Ketones Catalyzed by Primary-Secondary Diamines. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 3129-3133.	4.3	25
42	Trifluoromethylation of haloarenes with a new trifluoro-methylating reagent $\text{Cu}(\text{OCCF}_2\text{SO}_2\text{F})_2$ . <i>RSC Advances</i> , 2016, 6, 50250-50254.	3.6	24
43	A Convenient Synthesis of 1-Deoxy-8a-epi-Castanospermine Diastereoisomers (6R,7R,8S,8aS)-6,7,8-Trihydroxyindolizidine and (6R,7R,8R,8aS)-6,7,8-Trihydroxyindolizidine. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 1918-1922.	2.4	23
44	Asymmetric Robinson-Type Annulation Reaction between $\alpha,\beta$ -Ketoamides and $\alpha,\beta$ -Unsaturated Ketones. <i>Journal of Organic Chemistry</i> , 2015, 80, 3798-3805.	3.2	23
45	Highly enantioselective 1,3-dipolar cycloaddition of imino esters with benzofuranone derivatives catalyzed by thiourea-quaternary ammonium salt. <i>Tetrahedron</i> , 2018, 74, 7485-7494.	1.9	23
46	Highly porous and thermally stable tribopositive hybrid bimetallic cryogel to boost up the performance of triboelectric nanogenerators. <i>International Journal of Energy Research</i> , 2020, 44, 8442-8454.	4.5	22
47	Thermoresponsive Hydrogel-Based Local Delivery of Simvastatin for the Treatment of Periodontitis. <i>Molecular Pharmaceutics</i> , 2021, 18, 1992-2003.	4.6	22
48	Structural optimization of HPMA copolymer-based dexamethasone prodrug for improved treatment of inflammatory arthritis. <i>Journal of Controlled Release</i> , 2020, 324, 560-573.	9.9	22
49	Thermoresponsive polymeric dexamethasone prodrug for arthritis pain. <i>Journal of Controlled Release</i> , 2021, 339, 484-497.	9.9	22
50	O-Difluoromethylation of 1,3-diones with S-difluoromethyl sulfonium salt. <i>RSC Advances</i> , 2016, 6, 35705-35708.	3.6	21
51	Enantioselective direct Mannich reaction of functionalized acetonitrile to N-Boc imines catalyzed by quaternary phosphonium catalysis. <i>Tetrahedron</i> , 2017, 73, 2349-2358.	1.9	21
52	Enantioselective direct Mannich reactions of 3-substituted oxindoles catalyzed by chiral phosphine via dual-reagent catalysis. <i>Tetrahedron</i> , 2018, 74, 4134-4144.	1.9	21
53	Dipeptide-derived multifunctional phosphonium salt as a catalyst to synthesize highly functionalized chiral cyclopentanes. <i>Tetrahedron</i> , 2016, 72, 4141-4150.	1.9	20
54	Bifunctional Quaternary Ammonium Salts Catalyzed Stereoselective Conjugate Addition of Oxindoles to Electron-Deficient $\alpha$ -Haloalkenes. <i>Journal of Organic Chemistry</i> , 2017, 82, 4840-4850.	3.2	20

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55	Development of a Janus Kinase Inhibitor Prodrug for the Treatment of Rheumatoid Arthritis. <i>Molecular Pharmaceutics</i> , 2018, 15, 3456-3467.	4.6	20
56	Asymmetric cyclizations via a sequential Michael addition/Conia-ene reaction by combining multifunctional quaternary phosphonium salt and silver catalysis. <i>Tetrahedron</i> , 2019, 75, 2706-2716.	1.9	20
57	Asymmetric Total Synthesis of Vincadifformine Enabled by a Thiourea-Phosphonium Salt Catalyzed Mannich-Type Reaction. <i>Chemistry - A European Journal</i> , 2019, 25, 6306-6310.	3.3	19
58	Dual-reagent organophosphine catalyzed asymmetric Mannich reactions of isocyanoacetates with N-Boc-aldimines. <i>Tetrahedron</i> , 2017, 73, 5983-5992.	1.9	18
59	CuI-catalyzed domino reactions for the synthesis of benzoxazine-fused isoquinolines under microwave irradiation. <i>Synthetic Communications</i> , 2016, 46, 355-360.	2.1	17
60	<i>N</i> -Protecting group tuning of the enantioselectivity in Strecker reactions of trifluoromethyl ketimines to synthesize quaternary $\alpha$ -trifluoromethyl amino nitriles by ion pair catalysis. <i>Chemical Communications</i> , 2020, 56, 1581-1584.	4.1	17
61	Reductive Amination/Cyclization of $\alpha$ -Trifluoromethyl Keto Esters to Trifluoromethylated $\alpha$ -Amino Alcohols and Lactams. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1778-1786.	2.4	16
62	Asymmetric $\alpha$ -amination of 3-substituted oxindoles using chiral bifunctional phosphine catalysts. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 725-731.	2.2	16
63	$\alpha, \beta$ -Substituent effect of dialkylphosphinic acids on lanthanide extraction. <i>RSC Advances</i> , 2016, 6, 56004-56008.	3.6	16
64	Efficient Synthesis of Isoquinolines by $\text{AgNO}_3$ -Catalyzed Sequential Imination/Annulation of $\alpha$ -Alkynyl Aldehydes with Ammonium Bicarbonate. <i>Chinese Journal of Chemistry</i> , 2016, 34, 857-860.	4.9	15
65	Total Synthesis of Gelsedilam by Means of a Thiol-Mediated Diastereoselective Conjugate Addition-Aldol Reaction. <i>Chemistry - A European Journal</i> , 2016, 22, 18339-18342.	3.3	15
66	A novel approach to the enantioselective formal synthesis of pumiliotoxin 251D. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 3264-3266.	1.3	14
67	Enantioselective Vinylogous Mannich-Type Reactions to Construct CF <sub>3</sub> -Containing Stereocenters Catalysed by Chiral Quaternary Phosphonium Salts. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1851-1857.	4.3	11
68	Electrochemical Sensing of Ascorbate as an Index of Neuroprotection from Seizure Activity by Physical Exercise in Freely Moving Rats. <i>ACS Sensors</i> , 2021, 6, 546-552.	7.8	10
69	Hydroperfluoroalkylation of electron-deficient olefins with perfluoroalkyl iodides promoted by zinc/viologen. <i>RSC Advances</i> , 2016, 6, 60080-60083.	3.6	9
70	A Macromolecular Janus Kinase (JAK) Inhibitor Prodrug Effectively Ameliorates Dextran Sulfate Sodium-Induced Ulcerative Colitis in Mice. <i>Pharmaceutical Research</i> , 2019, 36, 64.	3.5	9
71	Asymmetric epoxidation of $\alpha, \beta$ -unsaturated ketones using $\alpha, \beta$ -diarylprolinols as catalysts. <i>Science Bulletin</i> , 2010, 55, 1712-1722.	1.7	8
72	Preparation of 6,6-Bis(perfluoroalkylated) BINOLs and Their Application in Asymmetric Alkylation of Benzaldehyde. <i>Chinese Journal of Chemistry</i> , 2002, 20, 803-808.	4.9	7

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73	Efficient Acetylation of Alcohols and Phenols Catalyzed by Recyclable Lithium Bis(perfluoroalkylsulfonyl)imide. <i>Synthetic Communications</i> , 2013, 43, 34-43.	2.1	7
74	Difluoromethylation of N-arylsulfonyl hydrazones with difluorocarbene leading to difluoromethyl aryl sulfones. <i>RSC Advances</i> , 2016, 6, 82298-82300.	3.6	7
75	Dexamethasone prodrug nanomedicine (ZSJ-0228) treatment significantly reduces lupus nephritis in mice without measurable side effects " A 5-month study. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 31, 102302.	3.3	7
76	Organocatalyzed Cascade Reactions of Cyclic $\alpha$ -Enamino Esters and $\alpha,\beta$ -Unsaturated Aldehydes Leading to Indoloquinolizidines and Benzoquinolizidines. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6755-6763.	2.4	5
77	Investigation of the Effect of Metallic Lewis Acid on the Nitrolysis of [3,7-Diacetyl-1,3,5,7-tetraazabicyclo(3.3.1)-nonane] and Hexamine. <i>Chinese Journal of Chemistry</i> , 2011, 29, 283-287.	4.9	5
78	A GENERAL METHOD TO POLYSUBSTITUTED 4-CYANO-4-PHENYLSULFONYLBUTYRIC ESTERS. <i>Synthetic Communications</i> , 2001, 31, 2089-2096.	2.1	4
79	Formal Synthesis of (+)-Altholactone by Stereoselective Epoxidation Using Magnesium Monoperoxyphthalate (MMPP). <i>Chinese Journal of Chemistry</i> , 2002, 20, 1415-1420.	4.9	4
80	A novel quaternary ammonium salts derived from $\alpha$ -amino acids with large steric hindrance group and its application in asymmetric Mannich reaction. <i>Tetrahedron</i> , 2020, 76, 131484.	1.9	4
81	Enantioselective Michael Addition Reactions to Construct SCF <sub>3</sub> -containing Stereocenter Catalyzed by Chiral Quaternary Phosphonium Salts. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 5765-5771.	4.3	4
82	Efficacy of a Chinese herbal formula on hepatitis B e antigen-positive chronic hepatitis B patients. <i>World Journal of Gastroenterology</i> , 2020, 26, 4501-4522.	3.3	4
83	Sn <sup>II</sup> -Mediated Catalytic Asymmetric Reduction of Carbonyl Groups by Sodium Borohydride (or Sodium) Tj ETQq1 1,0,784314 rgBT /Ove	4.9	3
84	Improving supercapacitor performance of alkylated graphene nanosheets via partial fluorination on their alkyl chains. <i>RSC Advances</i> , 2015, 5, 92159-92164.	3.6	3
85	Participation of the Anterior Cingulate Cortex in Sodium Salicylate-induced Tinnitus. <i>Otology and Neurotology</i> , 2021, 42, e1134-e1142.	1.3	3
86	Spiro-Oxindole Skeleton Compounds Are Efficient Inhibitors for Indoleamine 2,3-Dioxygenase 1: An Attractive Target for Tumor Immunotherapy. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4668.	4.1	3
87	A Formal Synthesis of Iridoid 9 $\alpha$ -Deoxygelsemide. <i>Chinese Journal of Chemistry</i> , 2013, 31, 18-22.	4.9	2
88	Enantioselectivity switch in asymmetric Michael addition reactions using phosphonium salts. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6334-6340.	2.8	2
89	Asymmetric Synthesis of 2,2-Difluorotetrahydrofurans through Palladium-Catalyzed Formal [3 + 2] Cycloaddition. <i>Angewandte Chemie</i> , 0, , .	2.0	2
90	Insoluble Resin-Supported Catalysts. , 0, , 49-75.		1

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91	Asymmetric Dieckmann Condensation towards Spirocyclic Oxindoles Catalyzed by Amino Acid-derived Phosphonium Salt. <i>Advanced Synthesis and Catalysis</i> , 0, , .	4.3	0