

# Yong-Zheng Chen

## List of Publications by Year in descending order

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82  
papers

1,595  
citations

257450

24  
h-index

414414

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docs citations

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times ranked

1413  
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#	ARTICLE	IF	CITATIONS
1	Organocatalytic Asymmetric [3 + 2] Cycloaddition of <i>N</i> -2,2,2-Trifluoroethylisatin Ketimines with <i>l</i> -Trifluoromethyl Electron-Deficient Alkenes: Access to Vicinally Bis(trifluoromethyl)-Substituted 3,2- <i>l</i> -Pyrrolidinyl Spirooxindoles. <i>Organic Letters</i> , 2018, 20, 4453-4457.	4.6	90
2	Organocatalyzed Asymmetric Dearomative Aza-Michael/Michael Addition Cascade of 2-Nitrobenzofurans and 2-Nitrobenzothiophenes with 2-Aminochalcones. <i>Journal of Organic Chemistry</i> , 2019, 84, 4381-4391.	3.2	52
3	High-Throughput Method for Determining the Enantioselectivity of Enzyme-Catalyzed Hydroxylations Based on Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5278-5283.	13.8	44
4	Zn-Catalyzed Diastereo- and Enantioselective Dearomative [3+2] Cycloaddition Reaction of 2-Nitroindoles and 2-Nitrobenzothiophenes. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2482-2487.	4.3	44
5	Zinc-Catalyzed Enantioselective Dearomative [3+2] Cycloaddition Reaction of 3-Nitrobenzothiophenes and 3-Nitrothieno[2,3- <i>b</i> ]pyridine with <i>l</i> -isothiocyanato Oxindoles. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 1420-1425.	4.3	43
6	Asymmetric [3 + 2] Cycloaddition Reaction of Isatin-Derived MBH Carbonates with 3-Methyleneoxindoles: Enantioselective Synthesis of 3,3- <i>l</i> -Cyclopentenyldispirooxindoles Incorporating Two Adjacent Quaternary Spirostereocenters. <i>Journal of Organic Chemistry</i> , 2018, 83, 10465-10475.	3.2	39
7	Palladium-Catalyzed Nucleophilic Substitution/ <sup>13</sup> C Activation/Aromatization Cascade Reaction: One Approach To Construct 6-Unsubstituted Phenanthridines. <i>Journal of Organic Chemistry</i> , 2015, 80, 11580-11587.	3.2	36
8	Aromatic heterocyclic esters of podophyllotoxin exert anti-MDR activity in human leukemia K562/ADR cells via ROS/MAPK signaling pathways. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 226-235.	5.5	36
9	Chiral Phosphoric Acid Catalyzed (4+1) Annulation of 3-Diazoindoles/4-Diazoisoquinolines with <i>para</i> -Quinone Methides to Access Chiral Spiro[dihydrobenzofuran-2,3-oxindoles/2,4-oxisoquinolines]. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 1702-1713.	4.3	34
10	Organocatalytic Asymmetric Mannich Reaction of 3-Hydroxyoxindoles/3-Aminooxindoles with in Situ Generated <i>N</i> -Boc-Protected Aldimines for the Synthesis of Vicinal Oxindole-Diamines/Amino Alcohols. <i>Journal of Organic Chemistry</i> , 2016, 81, 5270-5277.	3.2	33
11	Enantioselective Benzylic Hydroxylation with <i>Pseudomonas monteilii</i> TA5: A Simple Method for the Syntheses of <i>R</i> -Benzylic Alcohols Containing Reactive Functional Groups. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2107-2112.	4.3	32
12	<i>Ex Situ</i> Generation of Difluorodiaoethane (CF <sub>2</sub> HCHN <sub>2</sub> ): Application in the Regioselective Synthesis of CF <sub>2</sub> H-Containing Pyrazoles. <i>Organic Letters</i> , 2019, 21, 8751-8755.	4.6	32
13	Synthesis of superparamagnetic carboxymethyl chitosan/sodium alginate nanosphere and its application for immobilizing $\pm$ -amylase. <i>Carbohydrate Polymers</i> , 2016, 151, 600-605.	10.2	31
14	2,2-Bifunctionalization of Norbornene in Palladium-Catalyzed Domino Annulation. <i>Organic Letters</i> , 2019, 21, 8857-8860.	4.6	31
15	Anticancer potential of indirubins in medicinal chemistry: Biological activity, structural modification, and structure-activity relationship. <i>European Journal of Medicinal Chemistry</i> , 2021, 223, 113652.	5.5	29
16	Synthesis and biological evaluation of novel podophyllotoxin-NSAIDs conjugates as multifunctional anti-MDR agents against resistant human hepatocellular carcinoma Bel-7402/5-FU cells. <i>European Journal of Medicinal Chemistry</i> , 2017, 131, 81-91.	5.5	28
17	Design, synthesis and antineoplastic activity of novel hybrids of podophyllotoxin and indirubin against human leukaemia cancer cells as multifunctional anti-MDR agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1817-1824.	2.2	28
18	Cascade bio-hydroxylation and dehalogenation for one-pot enantioselective synthesis of optically active <i>l</i> -halohydrins from halohydrocarbons. <i>Green Chemistry</i> , 2019, 21, 4324-4328.	9.0	28

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19	Stereoselective oxidation of sulfides to optically active sulfoxides with resting cells of <i>Pseudomonas monteilii</i> CCTCC M2013683. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 106, 100-104.	1.8	26
20	Novel isatin derivatives of podophyllotoxin: synthesis and cytotoxic evaluation against human leukaemia cancer cells as potent anti-MDR agents. <i>RSC Advances</i> , 2015, 5, 97816-97823.	3.6	26
21	Enantiocomplementary preparation of (S)- and (R)-mandelic acid derivatives via $\alpha$ -hydroxylation of 2-arylacetic acid derivatives and reduction of $\alpha$ -ketoester using microbial whole cells. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 2537-2540.	1.8	25
22	Synthesis and biological evaluation of a novel artesunate-podophyllotoxin conjugate as anticancer agent. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 38-42.	2.2	25
23	An enantioselective synthesis of spiro-oxindole-based 3,4-dihydropyrroles via a Michael/cyclization cascade of 3-aminooxindoles with 2-enoylpyridines. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8518-8522.	2.8	25
24	Enzymatic Kinetic Resolution of Bulky Spiro-Epoxyoxindoles via Halohydrin Dehalogenase-Catalyzed Enantio- and Regioselective Azidolysis. <i>ACS Catalysis</i> , 2021, 11, 9066-9072.	11.2	25
25	Regioselective Ring-Opening of Styrene Oxide Derivatives Using Halohydrin Dehalogenase for Synthesis of 4-Aryloxazolidinones. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4651-4655.	4.3	24
26	Catalytic Enantioselective Dearomatization/Rearomatization of 2-Nitroindoles to Access 3-Indolyl-3-aryl-/alkyloxindoles: Application in the Formal Synthesis of Cyclotryptamine Alkaloids. <i>Organic Letters</i> , 2020, 22, 7088-7093.	4.6	24
27	Diastereoselective [3 + 2] cycloaddition of 3-ylideneoxindoles with in situ generated $CF_2=CHCN$ : syntheses of $CF_2=CH$ -containing spirooxindoles. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5571-5578.	2.8	22
28	Synthesis of Phenanthridines through Palladium-Catalyzed Cascade Reaction of 2-Halo-N-arylamines with Benzyl Halides/Sulfonates. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 996-1003.	2.4	21
29	Potential anti-MDR agents based on the podophyllotoxin scaffold: synthesis and antiproliferative activity evaluation against chronic myeloid leukemia cells by activating MAPK signaling pathways. <i>RSC Advances</i> , 2016, 6, 2895-2903.	3.6	20
30	Recent progress on discovery and research of aldoxime dehydratases. <i>Green Synthesis and Catalysis</i> , 2021, 2, 179-186.	6.8	20
31	Organocatalyzed Enantioselective Conjugated Addition of Sodium Bisulfite to $\beta$ -Trifluoromethyl- $\alpha,\beta$ -unsaturated Ketones. <i>Journal of Organic Chemistry</i> , 2018, 83, 5771-5777.	3.2	19
32	A Protocol for the Synthesis of $CF_2=CH$ -Containing Pyrazolo[1,5-c]quinazolines from 3-Ylideneoxindoles and in Situ Generated $CF_2=CHCN$ . <i>Journal of Organic Chemistry</i> , 2018, 83, 6556-6565.	3.2	19
33	Novel hybrids of podophyllotoxin and formononetin inhibit the growth, migration and invasion of lung cancer cells. <i>Bioorganic Chemistry</i> , 2019, 85, 445-454.	4.1	19
34	Palladium-catalyzed [2 + 2 + 1] annulation: access to chromone fused cyclopentanones with cyclopropanone as the CO source. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3082-3090.	4.5	19
35	Enantioselective benzylic hydroxylation of indan and tetralin with <i>Pseudomonas monteilii</i> TA-5. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1206-1211.	1.8	18
36	Regio- and stereoselective benzylic hydroxylation to synthesize chiral tetrahydroquinolin-4-ol and tetrahydro-1H-benzo[b]azepin-5-ol with <i>Pseudomonas plecoglossicidas</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 110, 87-91.	1.8	18

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37	RNA-seq transcriptome analysis of a <i>Pseudomonas</i> strain with diversified catalytic properties growth under different culture medium. <i>MicrobiologyOpen</i> , 2016, 5, 626-636.	3.0	18
38	Design, synthesis and evaluation of the multidrug resistance-reversing activity of pyridine acid esters of podophyllotoxin in human leukemia cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 4466-4471.	2.2	18
39	Syntheses of CF <sub>2</sub> H-containing spirocyclopropyloxindoles from in situ generated CF <sub>2</sub> HCHN <sub>2</sub> and 3-ylideneoxindoles. <i>Tetrahedron</i> , 2017, 73, 5806-5812.	1.9	18
40	Synthesis of Chiral 5-Aryl-2-Oxazolidinones via Halohydrin Dehalogenase-Catalyzed Enantio- and Regioselective Ring-Opening of Styrene Oxides. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1201-1207.	4.3	18
41	Stereodivergent Synthesis of Epoxides and Oxazolidinones via the Halohydrin Dehalogenase-Catalyzed Desymmetrization Strategy. <i>ACS Catalysis</i> , 2022, 12, 6285-6293.	11.2	18
42	Diazotrifluoroethyl Radical: A CF <sub>3</sub> -Containing Building Block in [3 + 2] Cycloaddition. <i>Organic Letters</i> , 2021, 23, 9256-9261.	4.6	17
43	Biocatalytic Preparation of Chiral Sulfoxides through Asymmetric Reductive Resolution by Methionine Sulfoxide Reductase...A. <i>ChemCatChem</i> , 2018, 10, 3284-3290.	3.7	16
44	Highly $\pm$ -position regioselective ring-opening of epoxides catalyzed by halohydrin dehalogenase from <i>Ilumatobacter coccineus</i> : a biocatalytic approach to 2-azido-2-aryl-1-ols. <i>RSC Advances</i> , 2019, 9, 16418-16422.	3.6	16
45	Identification of MsrA homologues for the preparation of ( <i>R</i> )-sulfoxides at high substrate concentrations. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 3381-3388.	2.8	16
46	Novozyme 435 lipase mediated enantioselective kinetic resolution: a facile method for the synthesis of chiral tetrahydroquinolin-4-ol and tetrahydro-1H-benzo[b]azepin-5-ol derivatives. <i>Tetrahedron</i> , 2015, 71, 4738-4744.	1.9	15
47	Biocatalytic $\pm$ -Oxidation of Cyclic Amines and <i>N</i> -Methylanilines for the Synthesis of Lactams and Formamides. <i>ChemCatChem</i> , 2017, 9, 937-940.	3.7	15
48	Efficient Assembly of Molecular Complexity Enabled by Palladium-Catalyzed Heck Coupling/C(sp <sup>2</sup> ) <sup>H</sup> Activation/ C(sp <sup>3</sup> ) <sup>H</sup> Activation Cascade. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 3655-3661.	4.3	15
49	Regiodivergent and stereoselective hydroxyazidation of alkenes by biocatalytic cascades. <i>IScience</i> , 2021, 24, 102883.	4.1	15
50	An asymmetric organocatalytic vinylogous Mannich reaction of 3-methyl-5-arylfuran-2(3 <i>H</i> )-ones with <i>N</i> -(2-pyridinesulfonyl) imines: enantioselective synthesis of $\gamma$ -amino $\beta,\beta$ -disubstituted butenolides. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1636-1640.	2.8	14
51	Biocatalytical Asymmetric Sulfoxidation by Identifying Cytochrome P450 from <i>Parvibaculum Lavamentivorans</i> DS-1. <i>ChemCatChem</i> , 2018, 10, 5410-5413.	3.7	14
52	Aziridine used as a vinylidene unit in palladium-catalyzed [2 + 2 + 1] domino annulation. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3413-3420.	4.5	14
53	Asymmetric reductive resolution of racemic sulfoxides by recombinant methionine sulfoxide reductase from a <i>Pseudomonas monteilii</i> strain. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S588-S592.	1.8	13
54	Sequential Nucleophilic <i>C</i> (sp <sup>3</sup> ) <sup>H</sup> -Benzylation/ <i>C</i> (sp <sup>2</sup> ) <sup>H</sup> -Arylation for the Synthesis of Spiro[oxindole-3,5-pyrrolo[2,1- <i>a</i> ]isoquinolines]. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3179-3186.	2.4	13

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55	Synthesis of chromone-containing polycyclic compounds <i>via</i> palladium-catalyzed [2 + 2 + 1] annulation. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 1112-1116.	2.8	13
56	Characterization of a Self-Sufficient Cytochrome P450 Monooxygenase from <i>Deinococcus apachensis</i> for Enantioselective Benzylic Hydroxylation. <i>ChemBioChem</i> , 2020, 21, 1820-1825.	2.6	13
57	Sulfoxide Reductases and Applications in Biocatalytic Preparation of Chiral Sulfoxides: A Mini-Review. <i>Frontiers in Chemistry</i> , 2021, 9, 714899.	3.6	13
58	Enantioselective synthesis of 1,2,3,4-tetrahydroquinoline-4-ols and 2,3-dihydroquinolin-4(1H)-ones via a sequential asymmetric hydroxylation/diastereoselective oxidation process using <i>Rhodococcus equi</i> ZMU-LK19. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 3580-3584.	2.8	12
59	Stereoselective Synthesis of Enantiopure Oxazolidinones via Biocatalytic Asymmetric Aminohydroxylation of Alkenes. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4343-4348.	4.3	12
60	Bio-mediated oxidative resolution of racemic 2-substituted 1,2,3,4-tetrahydroquinolines. <i>Tetrahedron Letters</i> , 2016, 57, 2403-2405.	1.4	11
61	Identification and characterization of a highly S-enantioselective halohydrin dehalogenase from <i>Tsukamurella</i> sp. 1534 for kinetic resolution of halohydrins. <i>Bioorganic Chemistry</i> , 2018, 81, 529-535.	4.1	11
62	Synthesis, antitumor evaluation and molecular docking study of a novel podophyllotoxin-lonidamine hybrid. <i>Medicinal Chemistry Research</i> , 2018, 27, 2231-2238.	2.4	11
63	Discovery and application of methionine sulfoxide reductase B for preparation of (S)-sulfoxides through kinetic resolution. <i>Catalysis Communications</i> , 2020, 136, 105908.	3.3	11
64	Podophyllotoxin-pterostilbene fused conjugates as potential multifunctional antineoplastic agents against human uveal melanoma cells. <i>RSC Advances</i> , 2017, 7, 10601-10608.	3.6	10
65	Synthesis of 2,3-spiro[indolin]-2-ones enabled by a tandem nucleophilic benzylation/C(sp <sup>2</sup> )-N cross-coupling reaction sequence. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5887-5892.	2.8	9
66	Deracemization of Phenyl-Substituted 2-Methyl-1,2,3,4-tetrahydroquinolines by a Recombinant Monoamine Oxidase from <i>Pseudomonas monteilii</i> ZMU-T01. <i>ChemCatChem</i> , 2018, 10, 2374-2377.	3.7	9
67	Design, synthesis, and biological evaluation of indole carboxylic acid esters of podophyllotoxin as antiproliferative agents. <i>Medicinal Chemistry Research</i> , 2019, 28, 81-94.	2.4	9
68	Complementary Copper-Catalyzed and Electrochemical Aminosulfonylation of <i>O</i> -Homoallyl Benzimidates and <i>N</i> -Alkenyl Amidines with Sodium Sulfinates. <i>Organic Letters</i> , 2022, 24, 1405-1411.	4.6	9
69	Transition-metal-free, direct C-H radical trifluoromethylation of nitroimidazoles with Togni's reagent. <i>Tetrahedron Letters</i> , 2022, 92, 153659.	1.4	8
70	Enzyme-catalyzed asymmetric synthesis of optically active (R)- and (S)-ethyl 4-phenyl-4-hydroxybutyrate with microbial cells. <i>Biocatalysis and Biotransformation</i> , 2013, 31, 66-70.	2.0	6
71	Bioreduction of the C=C double bond with <i>Pseudomonas monteilii</i> ZMU-T17: one approach to 3-monosubstituted oxindoles. <i>Tetrahedron</i> , 2016, 72, 3098-3104.	1.9	6
72	Asymmetric combinational metal-biocatalytic system: One approach to chiral 2-substituted-tetrahydroquinoline-4-ols towards two-step one-pot processes in aqueous media. <i>Tetrahedron Letters</i> , 2017, 58, 2252-2254.	1.4	6

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73	Design, synthesis and biological evaluation of novel nitric oxide-donating podophyllotoxin derivatives as potential antiproliferative agents against multi-drug resistant leukemia cells. RSC Advances, 2018, 8, 34266-34274.	3.6	6
74	AcOH-catalyzed aza-Michael addition/N-nitrosation: An efficient approach to CF <sub>2</sub> HCH <sub>2</sub> -containing N-nitrosoamines. Tetrahedron, 2018, 74, 3904-3911.	1.9	6
75	Copper-Catalyzed [5 + 1] Cyclization of <i>o</i> -Pyrrolo Anilines and Heterocyclic <i>N</i> -Tosylhydrazones for Access to Spiro-dihydropyrrolo[1,2- <i>a</i> ]quinoxaline Derivatives. Journal of Organic Chemistry, 2022, 87, 4112-4123.	3.2	6
76	Microwave-assisted one-pot syntheses of 4-aminoquinazolines. Green Processing and Synthesis, 2016, 5, .	3.4	5
77	Enzymatic approaches to site-selective oxidation of quinoline and derivatives. Organic and Biomolecular Chemistry, 2022, 20, 2580-2600.	2.8	4
78	Highly Enantioselective Hydroxylation of 3-Arylpropanenitriles to Access Chiral Î <sup>2</sup> -Hydroxy Nitriles by Engineering of P450 <sub>pyr</sub> Monooxygenase. Organic Process Research and Development, 2022, 26, 2046-2051.	2.7	4
79	Palladium-catalyzed asymmetric allylic alkylation of 3-aminooxindoles to access chiral homoallylic aminooxindoles. Organic and Biomolecular Chemistry, 2021, 19, 4720-4725.	2.8	3
80	Identification of H <sub>2</sub> S/NO-donating artemisinin derivatives as potential antileukemic agents. RSC Advances, 2020, 10, 501-511.	3.6	2
81	Crystal structure of 4-(4-pyridinyl)-1-naphthoic acid, C <sub>16</sub> H <sub>11</sub> NO <sub>2</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2016, 231, 565-567.	0.3	0
82	Crystal structure of (Z)-2-((2-bromo-1-phenylvinyl)oxy)benzonitrile, C <sub>15</sub> H <sub>10</sub> BrNO. Zeitschrift Fur Kristallographie - New Crystal Structures, 2016, 231, 547-548.	0.3	0