Hai-Bing Zhou

List of Publications by Year
in descending order

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98 papers	2,437 citations	186265 28 h-index	265206 42 g-index
120 all docs	120 docs citations	120 times ranked	2836 citing authors

#	Article	IF	Citations
1	NFÎºB selectivity of estrogen receptor ligands revealed by comparative crystallographic analyses. Nature Chemical Biology, 2008, 4, 241-247.	8.0	149
2	Novel Bioactive Hybrid Compound Dual Targeting Estrogen Receptor and Histone Deacetylase for the Treatment of Breast Cancer. Journal of Medicinal Chemistry, 2015, 58, 4550-4572.	6.4	94
3	C₃â€Symmetrical Cinchonineâ€Squaramide as New Highly Efficient, and Recyclable Organocatalyst for Enantioselective Michael Addition. Advanced Synthesis and Catalysis, 2011, 353, 2715-2720.	4.3	82
4	Elemental Isomerism: A Boron-Nitrogen Surrogate for a Carbon-Carbon Double Bond Increases the Chemical Diversity of Estrogen Receptor Ligands. Chemistry and Biology, 2007, 14, 659-669.	6.0	66
5	C₃â€Symmetric Cinchonineâ€Squaramideâ€Catalyzed Asymmetric Chlorolactonization of Styreneâ€Type Carboxylic Acids with 1,3â€Dichloroâ€5,5â€dimethylhydantoin: An Efficient Method to Chiral Isochromanâ€1â€ones. Advanced Synthesis and Catalysis, 2014, 356, 1275-1280.	4.3	66
6	Applications of Chiral Squaramides: From Asymmetric Organocatalysis to Biologically Active Compounds. Chemical Record, 2016, 16, 897-906.	5.8	66
7	Dendritic Ruthenium Porphyrins: A New Class of Highly Selective Catalysts for Alkene Epoxidation and Cyclopropanation. Chemistry - A European Journal, 2002, 8, 1554-1562.	3.3	64
8	Synthesis and Evaluation of Estrogen Receptor Ligands with Bridged Oxabicyclic Cores Containing a Diarylethylene Motif:â€‰ Estrogen Antagonists of Unusual Structure. Journal of Medicinal Chemistry, 2005, 48, 7261-7274.	6.4	64
9	Thiophene-Core Estrogen Receptor Ligands Having Superagonist Activity. Journal of Medicinal Chemistry, 2013, 56, 3346-3366.	6.4	52
10	Full antagonism of the estrogen receptor without a prototypical ligand side chain. Nature Chemical Biology, 2017, 13, 111-118.	8.0	48
11	Analogs of methyl-piperidinopyrazole (MPP): Antiestrogens with estrogen receptor Î± selective activity. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 108-110.	2.2	46
12	Enantioselective inhibition of reverse transcriptase (RT) of HIV-1 by non-racemic indole-based trifluoropropanoates developed by asymmetric catalysis using recyclable organocatalysts. Organic and Biomolecular Chemistry, 2013, 11, 8463.	2.8	46
13	Recent advances in gossypol derivatives and analogs: a chemistry and biology view. Future Medicinal Chemistry, 2017, 9, 1243-1275.	2.3	44
14	Highly diastereoselective synthesis of quaternary Î±-trifluoromethyl Î±-amino acids from chiral imines of trifluoropyruvate. Chemical Communications, 2010, 46, 8029.	4.1	42
15	Development of [F-18]Fluorine-Substituted Tanaproget as a Progesterone Receptor Imaging Agent for Positron Emission Tomography. Bioconjugate Chemistry, 2010, 21, 1096-1104.	3.6	42
16	Predictive features of ligandâ€specific signaling through the estrogen receptor. Molecular Systems Biology, 2016, 12, 864.	7.2	41
17	Bisperoxovandium (pyridinâ€2â€squaramide) targets both PTEN and ERK1/2 to confer neuroprotection. British Journal of Pharmacology, 2017, 174, 641-656.	5.4	41
18	Imaging Progesterone Receptor in Breast Tumors: Synthesis and Receptor Binding Affinity of Fluoroalkyl-Substituted Analogues of Tanaproget. Journal of Medicinal Chemistry, 2010, 53, 3349-3360.	6.4	39

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19	Chiral squaramide as multiple H-bond donor organocatalysts for the asymmetric Michael addition of 1,3-dicarbonyl compounds to nitroolefins. Tetrahedron: Asymmetry, 2012, 23, 1550-1556.	1.8	39
20	Synthesis of Seven-Membered Ring Diazepin-2-ones via Palladium-Catalyzed Highly Regioselective Cyclization of 2-Vinylpyrrolidines with Aryl Isocyanates. Journal of Organic Chemistry, 2003, 68, 3439-3445.	3.2	38
21	Highly enantioselective Michael addition of 1,3-dicarbonyl compounds to nitroalkenes catalyzed by designer chiral BINOLâ€“quinineâ€“squaramide: efficient access to optically active nitro-alkanes and their isoxazole derivatives. Tetrahedron: Asymmetry, 2013, 24, 1276-1280.	1.8	38
22	Structure-Guided Optimization of Estrogen Receptor Binding Affinity and Antagonist Potency of Pyrazolopyrimidines with Basic Side Chains. Journal of Medicinal Chemistry, 2007, 50, 399-403.	6.4	37
23	Enhanced efficiency of recyclable C3-symmetric cinchonine-squaramides in the asymmetric Friedelâ€“Crafts reaction of indoles with alkyl trifluoropyruvate. Tetrahedron: Asymmetry, 2012, 23, 1332-1337.	1.8	37
24	Identification and Structureâ€“Activity Relationships of a Novel Series of Estrogen Receptor Ligands Based on 7-Thiabicyclo[2.2.1]hept-2-ene-7-oxide. Journal of Medicinal Chemistry, 2012, 55, 2324-2341.	6.4	36
25	Synthesis and SARs of indole-based Î±-amino acids as potent HIV-1 non-nucleoside reverse transcriptase inhibitors. Organic and Biomolecular Chemistry, 2014, 12, 8308-8317.	2.8	36
26	Tunable Bifunctional Phosphineâ€“Squaramide Promoted Moritaâ€“Baylisâ€“Hillman Reaction of Nâ€Alkyl Isatins with Acrylates. Advanced Synthesis and Catalysis, 2015, 357, 2132-2142.	4.3	33
27	Exploring the PROTAC degron candidates: OBHSA with different side chains as novel selective estrogen receptor degraders (SERDs). European Journal of Medicinal Chemistry, 2019, 172, 48-61.	5.5	32
28	Bicyclo[2.2.2]octanes: Close structural mimics of the nuclear receptor-binding motif of steroid receptor coactivators. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 4118-4122.	2.2	31
29	Bicyclic core estrogens as full antagonists: synthesis, biological evaluation and structureâ€“activity relationships of estrogen receptor ligands based on bridged oxabicyclic core arylsulfonamides. Organic and Biomolecular Chemistry, 2012, 10, 8692.	2.8	30
30	Identification of dibucaine derivatives as novel potent enterovirus 2C helicase inhibitors: InÂvitro, inÂvivo, and combination therapy study. European Journal of Medicinal Chemistry, 2020, 202, 112310.	5.5	29
31	Development of Selective Estrogen Receptor Modulator (SERM)â€Like Activity Through an Indirect Mechanism of Estrogen Receptor Antagonism: Defining the Binding Mode of 7â€Oxabicyclo[2.2.1]heptâ€5â€ene Scaffold Core Ligands. ChemMedChem, 2012, 7, 1094-1100.	3.2	27
32	Novel Hybrid Conjugates with Dual Suppression of Estrogenic and Inflammatory Activities Display Significantly Improved Potency against Breast Cancer. Journal of Medicinal Chemistry, 2018, 61, 8155-8173.	6.4	27
33	Fluorine-18 labeling and biodistribution studies on peroxisome proliferator-activated receptor-Î³ ligands: potential positron emission tomography imaging agents. Nuclear Medicine and Biology, 2009, 36, 147-153.	0.6	26
34	Discovery of novel SERMs with a ferrocenyl entity based on the oxabicyclo[2.2.1]heptene scaffold and evaluation of their antiproliferative effects in breast cancer cells. Organic and Biomolecular Chemistry, 2012, 10, 9689.	2.8	26
35	A novel HDAC6 inhibitor exerts an anti-cancer effect by triggering cell cycle arrest and apoptosis in gastric cancer. European Journal of Pharmacology, 2018, 828, 67-79.	3.5	26
36	Chiral squaric prolinols: a new type of ligand for the asymmetric reduction of prochiral ketones by borane. Tetrahedron: Asymmetry, 2001, 12, 1907-1912.	1.8	25

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37	A novel C3-symmetric prolinol-squaramide catalyst for the asymmetric reduction of ketones by borane. Tetrahedron: Asymmetry, 2011, 22, 1640-1643.	1.8	25
38	A simple and straightforward approach toward selective C=C bond reduction by hydrazine. Canadian Journal of Chemistry, 2012, 90, 758-761.	1.1	25
39	Chiral monoaminoalcohols and diaminoalcohols of squaric acid: new catalysts for the asymmetric reduction of ketones by borane. Tetrahedron Letters, 2001, 42, 1107-1110.	1.4	24
40	Design, synthesis and structure of new chiral squaric acid monoaminoalcohols and diaminoalcohols and their use as catalysts in asymmetric reduction of ketones and diketones. Tetrahedron, 2001, 57, 9325-9333.	1.9	24
41	Regioselective and enantioselective synthesis of seven-membered ring cyclic arylguanidine and urea derivatives. Tetrahedron, 2004, 60, 73-79.	1.9	23
42	High-Throughput Screening Assays for Estrogen Receptor by Using Coumestrol, a Natural Fluorescence Compound. Journal of Biomolecular Screening, 2014, 19, 253-258.	2.6	22
43	Dual functional small molecule fluorescent probes for image-guided estrogen receptor-specific targeting coupled potent antiproliferative potency for breast cancer therapy. Bioorganic and Medicinal Chemistry, 2017, 25, 3531-3539.	3.0	22
44	Novel bifunctional chiral squaramide-amine catalysts for highly enantioselective addition of mono and diketones to nitroalkenes. Arkivoc, 2011, 2011, 367-380.	0.5	22
45	Chiral Osmium Complexes with Sterically Bulky Schiff-Base Ligands. Crystal Structures of Os(IV) Derivatives and the Reactivity and Catalytic Cyclopropanation of Alkenes with EDA. Inorganic Chemistry, 2005, 44, 3942-3954.	4.0	21
46	Novel Rhodium-Catalyzed Reaction of Thiazolidine Derivatives with Carbodiimides. Chemistry - A European Journal, 2004, 10, 6058-6065.	3.3	20
47	Metal-free direct amidation of peptidyl thiol esters with Î±-amino acid esters. Green Chemistry, 2011, 13, 2723.	9.0	20
48	An expedient approach to highly enantioenriched cyclic nitrones mediated by robust and recoverable C3-symmetric cinchonine-squaramide catalysts. RSC Advances, 2012, 2, 7501.	3.6	20
49	Triaryl-Substituted Schiff Bases Are High-Affinity Subtype-Selective Ligands for the Estrogen Receptor. Journal of Medicinal Chemistry, 2014, 57, 3532-3545.	6.4	20
50	Synthesis and structureâ€“activity relationships of novel hybrid ferrocenyl compounds based on a bicyclic core skeleton for breast cancer therapy. Bioorganic and Medicinal Chemistry, 2016, 24, 3062-3074.	3.0	20
51	Halolactones are potent HIV-1 non-nucleoside reverse transcriptase inhibitors. RSC Advances, 2015, 5, 10005-10013.	3.6	19
52	Identification and Structureâ€“Activity Relationships of Diarylhydrazides as Novel Potent and Selective Human Enterovirus Inhibitors. Journal of Medicinal Chemistry, 2016, 59, 2139-2150.	6.4	19
53	Selenophenes: Introducing a New Element into the Core of Nonâ€Steroidal Estrogen Receptor Ligands. ChemMedChem, 2017, 12, 235-249.	3.2	19
54	Enantioselective synthesis of novel pyrano[3,2-c]chromene derivatives as AChE inhibitorsviaan organocatalytic domino reaction. Organic and Biomolecular Chemistry, 2018, 16, 472-479.	2.8	19

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55	Design, synthesis and biological evaluation of novel dual-acting modulators targeting both estrogen receptor Î± (ERÎ±) and lysine-specific demethylase 1 (LSD1) for treatment of breast cancer. European Journal of Medicinal Chemistry, 2020, 195, 112281.	5.5	19
56	Gossypol with Hydrophobic Linear Esters Exhibits Enhanced Antitumor Activity as an Inhibitor of Antiapoptotic Proteins. ACS Medicinal Chemistry Letters, 2016, 7, 1185-1190.	2.8	16
57	A high-affinity subtype-selective fluorescent probe for estrogen receptor Î² imaging in living cells. Chemical Communications, 2018, 54, 3887-3890.	4.1	16
58	Curcumin inhibits BACE1 expression through the interaction between ERÎ² and NFÎºB signaling pathway in SH-SY5Y cells. Molecular and Cellular Biochemistry, 2020, 463, 161-173.	3.1	16
59	The novel thioredoxin reductase inhibitor A-Z2 triggers intrinsic apoptosis and shows efficacy in the treatment of acute myeloid leukemia. Free Radical Biology and Medicine, 2020, 146, 275-286.	2.9	16
60	Design, synthesis and biological evaluation of novel estrogen-derived steroid metal complexes. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3793-3797.	2.2	15
61	Estrogen receptor sensing in living cells by a high affinity turn-on fluorescent probe. Sensors and Actuators B: Chemical, 2018, 272, 589-597.	7.8	15
62	Discovery of Novel Bicyclic Phenylselenyl-Containing Hybrids: An Orally Bioavailable, Potential, and Multiacting Class of Estrogen Receptor Modulators against Endocrine-Resistant Breast Cancer. Journal of Medicinal Chemistry, 2022, 65, 7993-8010.	6.4	15
63	Bromination from the Macroscopic Level to the Tracer Radiochemical Level:76Br Radiolabeling of Aromatic Compounds via Electrophilic Substitution. Bioconjugate Chemistry, 2009, 20, 808-816.	3.6	14
64	Isocyanides as Influenzaâ€...A Virus Subtype H5N1 Wildâ€Type M2 Channel Inhibitors. ChemMedChem, 2015, 10, 1837-1845.	3.2	12
65	Synthesis of N-benzyl-N-phenylthiophene-2-carboxamide analogues as a novel class of enterovirus 71 inhibitors. RSC Advances, 2015, 5, 55100-55108.	3.6	12
66	Furan-carboxamide derivatives as novel inhibitors of lethal H5N1 influenza A viruses. RSC Advances, 2017, 7, 9620-9627.	3.6	12
67	Synthesis and structure-activity relationship study of arylsulfonamides as novel potent H5N1 inhibitors. European Journal of Medicinal Chemistry, 2018, 159, 206-216.	5.5	12
68	Novel class of 7-Oxabicyclo[2.2.1]heptene sulfonamides with long alkyl chains displaying improved estrogen receptor Î± degradation activity. European Journal of Medicinal Chemistry, 2019, 182, 111605.	5.5	12
69	HMDO-Promoted Peptide and Protein Synthesis in Ionic Liquids. Journal of Organic Chemistry, 2013, 78, 7013-7022.	3.2	11
70	A New Pathway for Phthalazine Derivatives via Metalâ€Free Cyclization of orthoâ€Alkynylphenyl Ketones and Hydrazine. Journal of Heterocyclic Chemistry, 2014, 51, 1282-1286.	2.6	11
71	Recyclable BINOLâ€“quinineâ€“squaramide as a highly efficient organocatalyst for Î±-amination of 1,3-dicarbonyl compounds and Î±-cyanoacetates. RSC Advances, 2015, 5, 24392-24398.	3.6	10
72	Rational design and optimization of selenophenes with basic side chains as novel potent selective estrogen receptor modulators (SERMs) for breast cancer therapy. MedChemComm, 2017, 8, 1485-1497.	3.4	10

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73	Discovery of Aryl Benzoyl Hydrazide Derivatives as Novel Potent Broad-Spectrum Inhibitors of Influenza A Virus RNA-Dependent RNA Polymerase (RdRp). Journal of Medicinal Chemistry, 2022, 65, 3814-3832.	6.4	10
74	Oxabicycloheptene Sulfonate Protects Against Î²-Amyloid-induced Toxicity by Activation of PI3K/Akt and ERK Signaling Pathways Via GPER1 in C6 Cells. Neurochemical Research, 2017, 42, 2246-2256.	3.3	9
75	Design and synthesis of marine sesterterpene analogues as novel estrogen receptor Î± degraders for breast cancer treatment. European Journal of Medicinal Chemistry, 2022, 229, 114081.	5.5	9
76	Estrogen receptor Î²-targeted hypoxia-responsive near-infrared fluorescence probes for prostate cancer study. European Journal of Medicinal Chemistry, 2022, 238, 114506.	5.5	9
77	One-pot to fused pyrazoles by a double cyclization of o-alkynylaldehydes with ketones and hydrazine under metal-free condition. Tetrahedron, 2014, 70, 3782-3787.	1.9	8
78	Selenophene and thiophene-core estrogen receptor ligands that inhibit motility and development of parasitic stages of Haemonchus contortus. Parasites and Vectors, 2016, 9, 346.	2.5	8
79	One-step pathway to selenoisobenzofuran-1(3H)-imine derivatives through highly selective selenocyclization of olefinic amides with benzeneselenyl chloride. Organic and Biomolecular Chemistry, 2018, 16, 2150-2155.	2.8	8
80	The neuroprotective effect of bisperoxovandium (pyridin-2-squaramide) in intracerebral hemorrhage . Drug Design, Development and Therapy, 2019, Volume 13, 1957-1967.	4.3	8
81	Design and synthesis of heteroaromatic-based benzenesulfonamide derivatives as potent inhibitors of H5N1 influenza A virus. MedChemComm, 2019, 10, 89-100.	3.4	8
82	Construction of benzofuranone library via a metal-free, one-pot intermolecular condensation, and their application as efficient estrogen receptor Î² modulators. Chemical Communications, 2019, 55, 14570-14573.	4.1	8
83	Three-dimensional oxabicycloheptene sulfonate targets the homologous recombination and repair programmes through estrogen receptor Î± antagonism. Cancer Letters, 2020, 469, 78-88.	7.2	8
84	Estrogen Receptor Î²-Targeted Near-Infrared Inherently Fluorescent Probe: A Potent Tool for Estrogen Receptor Î² Research. ACS Sensors, 2022, 7, 109-115.	7.8	8
85	N-Substituted Amides as Chiral Ligands for Catalytic Asymmetric Reactions. Current Organic Chemistry, 2002, 6, 865-890.	1.6	7
86	Rational design of ERÎ± targeting hypoxia turn-on fluorescent probes with antiproliferative activity for breast cancer. Chemical Communications, 2020, 56, 10493-10496.	4.1	6
87	Thiophene Oxidation and Reduction Chemistry. Topics in Heterocyclic Chemistry, 2014, , 227-293.	0.2	5
88	Synthesis and structural features of chiral cyclic squaramides and their application in asymmetric catalytic reaction. Arkivoc, 2011, 2010, 322-335.	0.5	5
89	Establishment of evaluation criteria for the development of high quality ERÎ±-targeted fluorescent probes. Analyst, The, 2020, 145, 5989-5995.	3.5	4
90	Discovery of aminothiazole derivatives as novel human enterovirus A71 capsid protein inhibitors. Bioorganic Chemistry, 2022, 122, 105683.	4.1	4

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91	Novel hybrid conjugates with dual estrogen receptor Î± degradation and histone deacetylase inhibitory activities for breast cancer therapy. Bioorganic and Medicinal Chemistry, 2021, 40, 116185.	3.0	3
92	Identification of a novel binding inhibitor that blocks the interaction between hSCARB2 and VP1 of enterovirus 71. , 2022, 1, 100016.		3
93	The new chiral ligand 3-ethoxy-4-[(1R,2S)-(2-hydroxy-1,2-diphenylethyl)amino]-3-cyclobutene-1,2-dione. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, e57-e57.	0.4	2
94	OBHS impairs the viability of breast cancer via decreasing ERÎ± and Atg13. Biochemical and Biophysical Research Communications, 2021, 573, 69-75.	2.1	2
95	N-Substituted Amides as Chiral Ligands for Catalytic Asymmetric Reactions. ChemInform, 2003, 34, no.	0.0	0
96	Synthesis of Seven-Membered Ring Diazepin-2-ones via Palladium-Catalyzed Highly Regioselective Cyclization of 2-Vinylpyrrolidines with Aryl Isocyanates.. ChemInform, 2003, 34, no.	0.0	0
97	Regioselective and Enantioselective Synthesis of Seven-Membered Ring Cyclic Arylguanidine and Urea Derivatives.. ChemInform, 2004, 35, no.	0.0	0
98	Estrogen receptor-targeted fluorescent probes and bioapplications. Scientia Sinica Chimica, 2015, 45, 937-948.	0.4	0