Piotr KieÅ‚basiÅ„ski

List of Publications by Year
in descending order

82 papers	1,784 citations	279798 23 h-index	315739 38 g-index
89 all docs	89 docs citations	89 times ranked	1727 citing authors

#	Article	IF	Citations
1	Chiral Organosulfur Ligands/Catalysts with a Stereogenic Sulfur Atom: Applications in Asymmetric Synthesis. Chemical Reviews, 2017, 117, 4147-4181.	47.7	271
2	The Comparison of MTT and CVS Assays for the Assessment of Anticancer Agent Interactions. PLoS ONE, 2016, 11, e0155772.	2.5	131
3	Enzymatic reactions in ionic liquids: lipase-catalysed kinetic resolution of racemic, P -chiral hydroxymethanephosphinates and hydroxymethylphosphine oxides. Tetrahedron: Asymmetry, 2002, 13, 735-738.	1.8	72
4	Lipase-promoted kinetic resolution of racemic, P-chiral hydroxymethylphosphonates and phosphinates. Tetrahedron: Asymmetry, 1998, 9, 3283-3287.	1.8	50
5	New highly efficient aziridine-functionalized tridentate sulfinyl catalysts for enantioselective diethylzinc addition to carbonyl compounds. Tetrahedron: Asymmetry, 2009, 20, 2311-2314.	1.8	43
6	Synthesis and Biological Activity of Enantiomeric Pairs of Phosphosulfonate Herbicides. Journal of Agricultural and Food Chemistry, 1999, 47, 318-321.	5.2	40
7	Biocatalytic syntheses of chiral non-racemic 2-hydroxyalkanephosphonates. Tetrahedron: Asymmetry, 2001, 12, 3139-3145.	1.8	39
8	Lipase-promoted dynamic kinetic resolution of racemic Î²-hydroxyalkyl sulfones. Tetrahedron: Asymmetry, 2005, 16, 2157-2160.	1.8	38
9	Highly enantioselective conjugate addition of diethylzinc to enones using aziridine-functionalized tridentate sulfinyl ligands. Tetrahedron: Asymmetry, 2010, 21, 1890-1892.	1.8	37
10	Chemoenzymatic Synthesis of Phosphocarnitine Enantiomers. Journal of Organic Chemistry, 2002, 67, 7872-7875.	3.2	35
11	The first enzymatic desymmetrizations of prochiral phosphine oxides. Tetrahedron: Asymmetry, 2003, 14, 3379-3384.	1.8	35
12	Enzyme-promoted desymmetrization of bis(2-hydroxymethylphenyl) sulfoxide as a route to tridentate chiral catalysts. Tetrahedron: Asymmetry, 2008, 19, 2096-2101.	1.8	35
13	Highly enantioselective Henry reaction catalyzed by chiral tridentate heteroorganic ligands. Tetrahedron: Asymmetry, 2009, 20, 1547-1549.	1.8	34
14	A new synthesis of (Â±)-sarkomycin from a Î²-ketophosphonate. Tetrahedron Letters, 1989, 30, 1143-1146.	1.4	33
15	Supercritical carbon dioxide as a reaction medium for enzymatic kinetic resolution of P-chiral hydroxymethanephosphinates. Tetrahedron: Asymmetry, 2005, 16, 2015-2018.	1.8	31
16	Enzyme-promoted kinetic resolution of racemic, P-chiral phosphonyl and phosphorylacetates. Tetrahedron: Asymmetry, 1998, 9, 2641-2650.	1.8	29
17	Lipase-mediated stereoselective transformations of chiral organophosphorus P-boranes revisited: revision of the absolute configuration of alkoxy(hydroxymethyl)phenylphosphine P-boranes. Tetrahedron: Asymmetry, 2011, 22, 1581-1590.	1.8	29
18	Efficient catalysts for asymmetric Mannich reactions. Organic and Biomolecular Chemistry, 2013, 11, 4207.	2.8	29

#	Article	IF	Citations
19	Highly enantioselective addition of phenylethynylzinc to aldehydes using aziridine-functionalized tridentate sulfinyl ligands. Tetrahedron: Asymmetry, 2010, 21, 2687-2689.	1.8	28
20	Enzymatic resolution of racemic phosphinoylacetates having a stereogenic phosphorus atom. Tetrahedron Letters, 1994, 35, 7081-7084.	1.4	26
21	Highly enantioselective asymmetric direct aldol reaction catalyzed by amine-functionalized tridentate sulfinyl ligands. Tetrahedron: Asymmetry, 2011, 22, 1325-1327.	1.8	26
22	Synthesis of Sulphoxides. , 0, , 233-378.		24
23	A Novel Enzymatic Approach to the Synthesis of Chiral Sulfoxides: Enzymatic Hydrolysis of Prochiral Sulfinyldicarboxylates. Synlett, 1994, 1994, 127-129.	1.8	24
24	Highly enantioselective aza-Henry reaction promoted by amine-functionalized tridentate sulfinyl ligands. Tetrahedron: Asymmetry, 2011, 22, 1087-1089.	1.8	24
25	Organosulphur compounds. Tetrahedron, 1988, 44, 6687-6692.	1.9	23
26	Highly Efficient Asymmetric Simmonsâ€“Smith Cyclopropanation Promoted by Chiral Heteroorganic Aziridinyl Ligands. ChemCatChem, 2014, 6, 873-875.	3.7	23
27	Enzyme-Promoted Desymmetrisation of Prochiral Bis(cyanomethyl) Sulfoxide. Advanced Synthesis and Catalysis, 2007, 349, 1387-1392.	4.3	22
28	New enantiomeric fluorine-containing derivatives of sulforaphane: Synthesis, absolute configurations and biological activity. European Journal of Medicinal Chemistry, 2014, 76, 332-342.	5.5	22
29	Stillâ€“Gennari Olefination and its Applications in Organic Synthesis. Advanced Synthesis and Catalysis, 2020, 362, 2552-2596.	4.3	22
30	Organofluorine Isoselenocyanate Analogues of Sulforaphane: Synthesis and Anticancer Activity. ChemMedChem, 2016, 11, 2398-2409.	3.2	20
31	Lipase-mediated kinetic resolution of racemic and desymmetrization of prochiral organophosphorus P-boranes. Journal of Molecular Catalysis B: Enzymatic, 2006, 39, 45-49.	1.8	19
32	Asymmetric Bioreduction of Î²â€Activated Vinylphosphonate Derivatives Using Eneâ€Reductases. Advanced Synthesis and Catalysis, 2017, 359, 4190-4196.	4.3	19
33	Solution and Crystal Structures of Chiral Molecules Can Be Significantly Different:Âtert-Butylphenylphosphinoselenoic Acid. Journal of Physical Chemistry A, 2004, 108, 2072-2079.	2.5	18
34	Enzyme-promoted desymmetrisation of prochiral bis(cyanomethyl)phenylphosphine oxide. Tetrahedron: Asymmetry, 2007, 18, 2108-2112.	1.8	18
35	Biocatalytic oxidation of thiophosphoryl compounds: a new chemo-enzymatic approach to enantiomeric insecticidal thionophosphates and their oxons. Tetrahedron: Asymmetry, 2009, 20, 1948-1951.	1.8	18
36	Chiral Hypervalent, Pentacoordinated Phosphoranes. Molecules, 2016, 21, 1573.	3.8	18

#	Article	IF	Citations
37	The First Effective Procedure for the Direct Esterification and Thiolysis of Sulfinic Acids. Synthesis, 2008, 2008, 3563-3564.	2.3	17
38	A New Synthesis of Î±-Alkylthio-ketones (Î±-Sulphenylated Ketones). Synthesis, 1983, 1983, 332-334.	2.3	16
39	Total Synthesis of Racemic and Optically Active Sarkomycin. Synthesis, 1997, 1997, 356-365.	2.3	16
40	Biocatalysis in Organosulfur Chemistry. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 1104-1118.	1.6	16
41	Preparation of unsymmetrical disulfides by using sulfines. Tetrahedron, 1979, 35, 169-173.	1.9	15
42	Enzymatic Synthesis of Enantiopure Precursors of Chiral Bidentate and Tridentate Phosphorus Catalysts. Advanced Synthesis and Catalysis, 2011, 353, 2446-2454.	4.3	15
43	Crystal and molecular structure of hexagonal form of lipase B from Candida antarctica.. Acta Biochimica Polonica, 2016, 63, 103-109.	0.5	15
44	Organosulphur compounds. Part VIII. Reaction of monothiocarboxylic acids with dicyclohexylcarbodi-imide and other reactions leading to monothio-anhydrides. Journal of the Chemical Society Perkin Transactions 1, 1976, , 564-569.	0.9	14
45	Rearrangement of s-phosphorylisothioureas into n-phosphoryl-thioureas: stereochemistry at phosphorus and mechanism. Tetrahedron, 1986, 42, 4591-4601.	1.9	13
46	Nitrilase-catalysed hydrolysis of cyanomethyl p-tolyl sulfoxide: stereochemistry and mechanism. Tetrahedron: Asymmetry, 2008, 19, 562-567.	1.8	13
47	Investigations on enzyme catalytic promiscuity: The first attempts at a hydrolytic enzyme-promoted conjugate addition of nucleophiles to Î±,Î²-unsaturated sulfinyl acceptors. Journal of Molecular Catalysis B: Enzymatic, 2012, 81, 25-30.	1.8	13
48	Fluoroaryl analogs of sulforaphane â€“ A group of compounds of anticancer and antimicrobial activity. Bioorganic Chemistry, 2020, 94, 103454.	4.1	13
49	On the applicability of the Jones active site model of pig liver esterase to S-chiral and prochiral sulfinyl substrates. Tetrahedron: Asymmetry, 2000, 11, 911-915.	1.8	12
50	Molecular modeling of the lipase-catalyzed hydrolysis of acetoxymethyl(i-propoxy)phenylphosphine oxide and its P-borane analogue. Journal of Molecular Graphics and Modelling, 2012, 38, 290-297.	2.4	12
51	Polydentate chiral heteroorganic ligands/catalystsâ€”impact of particular functional groups on their activity in selected reactions of asymmetric synthesis. Tetrahedron: Asymmetry, 2013, 24, 1417-1420.	1.8	12
52	Organothiophosphorus compounds as inductors of the iodineâ€”azide reaction. Analytical application. Talanta, 1994, 41, 1493-1498.	5.5	11
53	Synthesis of chiral hydroxythiolanes as potential catalysts for asymmetric organozinc additions to carbonyl compounds. Heteroatom Chemistry, 2005, 16, 93-103.	0.7	11
54	Enzyme-promoted kinetic resolution of acetoxymethyl aryl sulfoxides. Journal of Molecular Catalysis B: Enzymatic, 2015, 118, 23-28.	1.8	11

#	Article	IF	Citations
55	Kinetic Resolution of Racemic Cyclic Sulfoxides Using Hydrolytic Enzymes. European Journal of Organic Chemistry, 1999, 1999, 2573-2578.	2.4	10
56	Novel Approach to the Synthesis of Alkoxycarbonylmethyl- and Bis(alkoxycarbonylmethyl)phosphine Oxides Based on a Reformatsky-Type Reaction. Synthesis, 1995, 1995, 144-146.	2.3	9
57	A New, Efficient Synthesis of Thioloesters. Synthesis, 1986, 1986, 305-308.	2.3	8
58	Thiophosphoryl compounds as novel inducing agents in the iodineâ€“azide reaction. Analyst, The, 1991, 116, 85-87.	3.5	8
59	Highly Efficient Asymmetric Aziridination of Unsaturated Aldehydes Promoted by Chiral Heteroâ€organic Catalysts. ChemCatChem, 2015, 7, 3589-3592.	3.7	8
60	Diastereoselective Michael additions to Î±,Î²-unsaturated Î±-sulfinyl phosphonates in the thiolane series. Tetrahedron Letters, 2007, 48, 351-355.	1.4	7
61	Michael addition to a chiral non-racemic 2-phosphono-2,3-didehydrothiolane S-oxide. Tetrahedron: Asymmetry, 2009, 20, 293-297.	1.8	7
62	The sulfinyl group: Its importance for asymmetric synthesis and biological activity. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 649-653.	1.6	7
63	Preparative scale application of Mucor circinelloides eneâ€“reductase and alcohol dehydrogenase activity for the asymmetric bioreduction of Î±,Î²-unsaturated Î³-ketophosphonates. Bioorganic Chemistry, 2020, 96, 103548.	4.1	7
64	Quarter of a Century after: A Glimpse at the Conformation and Mechanism of Candida antarctica Lipase B. Crystals, 2020, 10, 404.	2.2	7
65	Application of the Z-Selective Stillâ€“Gennari Olefination Protocol for the Synthesis of Z-Î±,Î²-Unsaturated Phosphonates. Synthesis, 2018, 50, 4140-4144.	2.3	6
66	Crystal and molecular structure of cyclic sulfoxides: 2-cyano-2-ethoxycarbonyl-3,6-dihydro-4,5-dimethyl-2H-thiapyran 1-oxide and 2-phenyl-2-methoxycarbonyl-3,6-dihydro-2H-thiapyran 1-oxide. Heteroatom Chemistry, 1995, 6, 631-638.	0.7	5
67	Highly efficient chiral polydentate sulfinyl ligands/catalysts containing prolinol moiety. Tetrahedron, 2016, 72, 2649-2655.	1.9	5
68	Highly enantioselective asymmetric reduction of aromatic ketimines promoted by chiral enantiomerically pure sulfoxides as organocatalysts. Journal of Sulfur Chemistry, 2018, 39, 380-387.	2.0	5
69	The first enzyme-promoted addition of nitromethane to imines (aza-Henry reaction). Bioorganic Chemistry, 2020, 94, 103377.	4.1	5
70	Chiral Heteroatom-Containing Compounds. , 2017, , 191-250.		4
71	Î±-Phosphoryl Cyclopentanones as Possible Intermediates in the Total Synthesis of Sarkomycin. Phosphorus, Sulfur and Silicon and the Related Elements, 1990, 49-50, 97-100.	1.6	3
72	Unexpected Racemization of 2-Hydroxymethylphenylphosphine Oxides. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 249-253.	1.6	3

#	Article	IF	Citations
73	Enzymatic Approach to the Synthesis of Enantiomerically Pure Hydroxy Derivatives of 1,3,5-Triaza-7-phosphaadamantane. Journal of Organic Chemistry, 2021, 86, 8556-8562.	3.2	2
74	Enzymatic Desymmetrisation of Prochiral Phosphines and Phosphine P-Sulfides as a Route to P-Chiral Catalysts. Catalysts, 2022, 12, 171.	3.5	2
75	THE CRYSTAL STRUCTURE AND ABSOLUTE CONFIGURATION OF (+)-O-METHYL-O-(Î±-NAPHTHYL)-S-METHYL PHOSPHOROTHIOLATE. Phosphorous and Sulfur and the Related Elements, 1983, 15, 105-108.	0.2	1
76	Molecular interactions in 3-carboxy-2-diphenylphosphinoylcyclopentanone. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2875-2881.	3.9	1
77	A straightforward, purification-free procedure for the synthesis of Ando and Still-Gennari type phosphonates.. Synthesis, 0, , .	2.3	1
78	Sulforaphane derivatives containing triazaphosphaadamantane (PTA) or o-carborane substituent. Phosphorus, Sulfur and Silicon and the Related Elements, 2022, 197, 554-556.	1.6	1
79	Front Cover Picture: Asymmetric Bioreduction of Î²â€Activated Vinylphosphonate Derivatives Using Eneâ€Reductases (Adv. Synth. Catal. 23/2017). Advanced Synthesis and Catalysis, 2017, 359, 4067-4067.	4.3	0
80	Attempts at the enzymatic synthesis of chiral ester derivatives of 1,3,5-triaza-7-phosphaadamantane (PTA). Phosphorus, Sulfur and Silicon and the Related Elements, 0, , 1-5.	1.6	0
81	Enzymatic kinetic resolution in the synthesis of new precursors of P-chiral organophosphorus catalysts: phosphines and their P-boranes. Phosphorus, Sulfur and Silicon and the Related Elements, 0, , 1-4.	1.6	0
82	Appendix toâ€˜Synthesis of Sulphoxidesâ€™. , 0, , 255-388.		0