

Seiji Shirakawa

List of Publications by Year in descending order

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67
papers

4,946
citations

87888

38
h-index

91884

69
g-index

88
all docs

88
docs citations

88
times ranked

3376
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Developments in Asymmetric Phase-Transfer Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4312-4348.	13.8	616
2	Surfactant-Type Brønsted Acid Catalyzed Dehydrative Nucleophilic Substitutions of Alcohols in Water. <i>Organic Letters</i> , 2007, 9, 311-314.	4.6	233
3	Enantioselective Base-Free Phase-Transfer Reaction in Water-Rich Solvent. <i>Journal of the American Chemical Society</i> , 2009, 131, 16620-16621.	13.7	218
4	Powerful Chiral Phase-Transfer Catalysts for the Asymmetric Synthesis of β -Alkyl- and γ,δ -Dialkyl- α -amino Acids. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1549-1551.	13.8	209
5	Catalytic Asymmetric Synthesis of Axially Chiral <i>o</i> -Iodoanilides by Phase-Transfer Catalyzed Alkylations. <i>Journal of the American Chemical Society</i> , 2012, 134, 916-919.	13.7	151
6	Carboxylic Acid Catalyzed Three-Component Aza-Friedel-Crafts Reactions in Water for the Synthesis of 3-Substituted Indoles. <i>Organic Letters</i> , 2006, 8, 4939-4942.	4.6	129
7	Chiral quaternary phosphonium salts as phase-transfer catalysts for environmentally benign asymmetric transformations. <i>Green Chemistry</i> , 2016, 18, 331-341.	9.0	128
8	Design of bifunctional quaternary phosphonium salt catalysts for CO ₂ fixation reaction with epoxides under mild conditions. <i>Green Chemistry</i> , 2016, 18, 4611-4615.	9.0	121
9	Chiral bifunctional phase transfer catalysts for asymmetric fluorination of β -keto esters. <i>Chemical Communications</i> , 2010, 46, 321-323.	4.1	119
10	Kinetic Resolution of Axially Chiral α -Amino- β -Alkylbiaryls by Phase-Transfer-Catalyzed N-Alkylation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14200-14203.	13.8	118
11	A new generation of chiral phase-transfer catalysts. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5367-5376.	2.8	115
12	Novel Water-Soluble Calix[4]arene Ligands with Phosphane-Containing Groups for Dual Functional Metal-Complex Catalysts: The Biphasic Hydroformylation of Water-Insoluble Olefins. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1256-1259.	13.8	106
13	A Simple and General Chiral Silicon Lewis Acid for Asymmetric Synthesis: A Highly Enantioselective [3 + 2] Acylhydrazone-Enol Ether Cycloadditions. <i>Journal of the American Chemical Society</i> , 2005, 127, 9974-9975.	13.7	101
14	Catalytic Asymmetric Synthesis of 3,3-Diaryloxindoles as Triarylmethanes with a Chiral All-Carbon Quaternary Center: Phase-Transfer-Catalyzed S _N Ar Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6220-6223.	13.8	99
15	Potassium Iodide-Tetraethylene Glycol Complex as a Practical Catalyst for CO ₂ Fixation Reactions with Epoxides under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2836-2840.	6.7	99
16	Design of a Novel Inherently Chiral Calix[4]arene for Chiral Molecular Recognition. <i>Organic Letters</i> , 2007, 9, 3117-3119.	4.6	98
17	Organocatalyzed Asymmetric Synthesis of Axially, Planar, and Helical Chiral Compounds. <i>Chemistry - an Asian Journal</i> , 2016, 11, 330-341.	3.3	97
18	Design of Chiral Bifunctional Quaternary Phosphonium Bromide Catalysts Possessing an Amide Moiety. <i>Organic Letters</i> , 2013, 15, 3350-3353.	4.6	95

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19	Enantioselective Friedel-Crafts Alkylations with Benzoylhydrazones Promoted by a Simple Strained Silacycle Reagent. <i>Journal of the American Chemical Society</i> , 2005, 127, 2858-2859.	13.7	93
20	Triethylamine Hydroiodide as a Simple Yet Effective Bifunctional Catalyst for CO ₂ Fixation Reactions with Epoxides under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7295-7301.	6.7	89
21	Efficient approach for the design of effective chiral quaternary phosphonium salts in asymmetric conjugate additions. <i>Chemical Science</i> , 2013, 4, 2248.	7.4	82
22	Tetraalkylammonium Salts as Hydrogen-Bonding Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15767-15770.	13.8	82
23	Combinatorial Design of Simplified High-Performance Chiral Phase-Transfer Catalysts for Practical Asymmetric Synthesis of β -alkyl- and β -dialkyl- α -amino Acids. <i>Chemistry - an Asian Journal</i> , 2008, 3, 1702-1714. ⁸¹	3.3	81
24	Asymmetric Neutral Amination of Nitroolefins Catalyzed by Chiral Bifunctional Ammonium Salts in Water-Rich Biphasic Solvent. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5327-5330.	13.8	76
25	Diastereo- and enantioselective conjugate addition of β -substituted nitroacetates to maleimides under base-free neutral phase-transfer conditions. <i>Chemical Communications</i> , 2011, 47, 10557.	4.1	75
26	Synthesis and Resolution of a Multifunctional Inherently Chiral Calix[4]arene with an ABCD Substitution Pattern at the Wide Rim: The Effect of a Multifunctional Structure in the Organocatalyst on Enantioselectivity in Asymmetric Reactions. <i>Journal of Organic Chemistry</i> , 2009, 74, 1288-1296.	3.2	67
27	The direct catalytic asymmetric aldol reaction of β -substituted nitroacetates with aqueous formaldehyde under base-free neutral phase-transfer conditions. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5753.	2.8	66
28	Phase-Transfer-Catalyzed Asymmetric S _N Ar Reaction of β -Amino Acid Derivatives with Arene Chromium Complexes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 838-840.	13.8	60
29	Water-soluble calixarenes as new inverse phase-transfer catalysts. Their application to aldol-type condensation and Michael addition reactions in water. <i>Tetrahedron</i> , 2001, 57, 6169-6173.	1.9	56
30	Synthesis, Optical Resolution and Enantiomeric Recognition Ability of Novel, Inherently Chiral Calix[4]arenes: Trial Application to Asymmetric Reactions as Organocatalysts. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5957-5964.	2.4	56
31	Phase-Transfer-Catalyzed Asymmetric Conjugate Cyanation of Alkylidenemalonates with KCN in the Presence of a Brønsted Acid Additive. <i>Organic Letters</i> , 2013, 15, 1230-1233.	4.6	49
32	Combinatorial approach for the design of new, simplified chiral phase-transfer catalysts with high catalytic performance for practical asymmetric synthesis of β -alkyl- α -amino acids. <i>Tetrahedron Letters</i> , 2008, 49, 2026-2030.	1.4	48
33	Synthesis of an Inherently Chiral Calix[4]arene Amino Acid and Its Derivatives: Their Application to Asymmetric Reactions as Organocatalysts. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 1916-1924.	2.4	48
34	Efficient asymmetric synthesis of spiro-2(3H)-furanones via phase-transfer-catalyzed alkynylation. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5388-5392.	2.8	44
35	Asymmetric phase-transfer reactions under base-free neutral conditions. <i>Tetrahedron Letters</i> , 2014, 55, 3833-3839.	1.4	41
36	Hydrogen-bonding catalysis of sulfonium salts. <i>Chemical Communications</i> , 2017, 53, 119-122.	4.1	40

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37	Phase-Transfer-Catalyzed Asymmetric Synthesis of Axially Chiral Anilides. <i>Chemistry - an Asian Journal</i> , 2013, 8, 3214-3221.	3.3	39
38	Chiral Tertiary Sulfonium Salts as Effective Catalysts for Asymmetric Base-Free Neutral Phase-Transfer Reactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4819-4823.	13.8	39
39	Improved design of inherently chiral calix[4]arenes as organocatalysts. <i>New Journal of Chemistry</i> , 2010, 34, 1217.	2.8	36
40	A Base-Free Neutral Phase-Transfer Reaction System. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1586-1593.	3.3	36
41	Hydrogen-Bonding Catalysis of Alkylammonium Salts. <i>Chemistry - an Asian Journal</i> , 2020, 15, 463-472.	3.3	36
42	Phase-Transfer-Catalyzed Asymmetric α -Arylation of α -Amino Acid Derivatives. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 433-436.	2.7	33
43	Effect of Brønsted acid co-catalyst in asymmetric conjugate addition of 3-aryloxindoles to maleimide under base-free phase-transfer conditions. <i>Tetrahedron</i> , 2014, 70, 7128-7132.	1.9	31
44	Catalytic asymmetric synthesis of axially chiral 2-amino-1,1'-biaryl compounds by phase-transfer-catalyzed kinetic resolution and desymmetrization. <i>Tetrahedron</i> , 2016, 72, 5163-5171.	1.9	31
45	Catalytic asymmetric synthesis of 1,1-disubstituted tetrahydro- β -carbolines by phase-transfer catalyzed alkylations. <i>Chemical Communications</i> , 2011, 47, 1515-1517.	4.1	30
46	Hydrogen-Bonding Catalysis of Tetraalkylammonium Salts in an Aza-Diels-Alder Reaction. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2126-2129.	3.3	30
47	Design of Binaphthyl-Modified Symmetrical Chiral Phase-Transfer Catalysts: Substituent Effect of 4,4'-,6,6'-Positions of Binaphthyl Rings in the Asymmetric Alkylation of a Glycine Derivative. <i>Chemistry - an Asian Journal</i> , 2007, 2, 1276-1281.	3.3	27
48	Phase-Transfer Catalyzed Asymmetric Conjugate Additions of β -Ketoesters to Acetylenic Ketones. <i>Organic Process Research and Development</i> , 2010, 14, 684-686.	2.7	26
49	Phase-Transfer-Catalyzed Asymmetric Synthesis of 1,1'-Disubstituted Tetrahydroisoquinolines. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2614-2618.	4.3	25
50	Chiral Bifunctional Selenide Catalysts for Asymmetric Bromolactonization. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 192-196.	2.7	23
51	New chiral phase-transfer catalysts possessing a 6,6'-bridged ring on the biphenyl unit: application to the synthesis of α , β -dialkyl- α -amino acids. <i>Tetrahedron Letters</i> , 2012, 53, 3739-3741.	1.4	22
52	Efficient Asymmetric Synthesis of a Bicyclic Amino Acid as a Core Structure of Telaprevir. <i>ChemCatChem</i> , 2012, 4, 980-982.	3.7	21
53	New Neutral Reaction System with Crown Ether-KCl Complexes in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2012, 18, 8588-8590.	3.3	19
54	Catalytic Asymmetric Synthesis of β -Substituted Proline Derivatives by Using Phase-Transfer-Catalyzed Conjugate Addition. <i>Asian Journal of Organic Chemistry</i> , 2012, 1, 180-186.	2.7	17

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55	Chiral Tertiary Sulfonium Salts as Effective Catalysts for Asymmetric Base-Free Neutral Phase-Transfer Reactions. <i>Angewandte Chemie</i> , 2017, 129, 4897-4901.	2.0	15
56	Asymmetric Catalysis of Chiral Bifunctional Selenides and Selenonium Salts Bearing a Urea Group. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 655-659.	2.7	15
57	Phase-transfer-catalyzed asymmetric desymmetrizations of cyclopentanones. <i>Organic Chemistry Frontiers</i> , 2015, 2, 336-339.	4.5	12
58	K ⁺ -Tetraethylene Glycol Complex as an Effective Catalyst for the Synthesis of Cyclic Thiocarbonates from Epoxides and CS ₂ . <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2022-2027.	2.4	11
59	Environmentally Benign Synthesis of Cyclic Carbonates from Epoxides and Carbon Dioxide Using Binary and Bifunctional Catalysts. <i>Heterocycles</i> , 2021, 103, 94.	0.7	10
60	Triethylamine Hydroiodide as a Bifunctional Catalyst for the Solvent-Free Synthesis of 2-Oxazolidinones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4937-4941.	2.4	9
61	Synthesis and optical resolution of an inherently chiral calix[4]arene amino acid. <i>New Journal of Chemistry</i> , 2008, 32, 1835.	2.8	7
62	A New Strategy for Organocatalyzed Asymmetric Synthesis of BINOL Derivatives. <i>Chem</i> , 2017, 2, 329-331.	11.7	4
63	Development of New Catalytic Systems for Environmentally Benign Synthesis of Cyclic Carbonates. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2019, 77, 791-799.	0.1	3
64	Inherently Chiral Calix[4]arenes as Supramolecular Catalysts. , 2018, , 51-68.		2
65	Discovery and Evolution of Base-Free Neutral Phase-Transfer Reaction System. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2014, 72, 1374-1383.	0.1	1
66	Enantioselective Friedel-Crafts Alkylations with Benzoylhydrazones Promoted by a Simple Strained Silacycle Reagent.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
67	A Simple and General Chiral Silicon Lewis Acid for Asymmetric Synthesis: Highly Enantioselective [3 + 2] Acylhydrazone-Enol Ether Cycloadditions.. <i>ChemInform</i> , 2005, 36, no.	0.0	0