Takuji Hirose

List of Publications by Year
in descending order

77 papers	1,480 citations	361413 20 h-index	361022 35 g-index
89 all docs	89 docs citations	89 times ranked	1788 citing authors

#	Article	IF	Citations
1	â€œSolvent-induced chirality switchingâ€•in the enantioseparation of chlorine-substituted tropic acids via diastereomeric salt formation by (1R,2S)-(â^')-2-amino-1,2-diphenylethanol (ADPE). Tetrahedron, 2022, 108, 132653.	1.9	3
2	Chiral 1,3-aminosquaramides derived from cis-2-benzamidocyclohexanecarboxylic acid as organocatalysts for asymmetric Michael addition reactions. Tetrahedron, 2022, 112, 132750.	1.9	2
3	Noncovalent Functionalization of Single-Walled Carbon Nanotubes with a Photocleavable Polythiophene Derivative. Nanomaterials, 2022, 12, 52.	4.1	3
4	Direct enantioseparation of axially chiral 1,1â€²-biaryl-2,2â€²-diols using amidine-based resolving agents. RSC Advances, 2021, 11, 18162-18170.	3.6	3
5	Enantiomer Separation of Nitriles and Epoxides by Crystallization with Chiral Organic Salts: Chirality Switching Modulated by Achiral Acids. Crystal Growth and Design, 2021, 21, 6552-6557.	3.0	3
6	Efficient Pyrazole Moietyâ€Containing Ligands for Cuâ€Catalyzed Oâ€Arylation of Phenols. ChemistrySelect, 2020, 5, 4152-4159.	1.5	4
7	Solvent-Induced Chirality Switching in the Enantioseparation of Halogen-Substituted Mandelic Acids: Structural Effects on Molecular Packing. Crystal Growth and Design, 2019, 19, 7153-7159.	3.0	6
8	Tubular Network Formation by Mixing Amphiphilic Polypeptides with Differing Hydrophilic Blocks. Biomacromolecules, 2019, 20, 3908-3914.	5.4	3
9	Synthesis and evaluation of chiral Î²-amino acid-based low-molecular-weight organogelators possessing a methyl/trifluoromethyl side chain. New Journal of Chemistry, 2019, 43, 2882-2887.	2.8	4
10	Polymeric fibers and microporous films by photoâ€crosslinking of triphenyleneâ€derived liquid crystals. Journal of Polymer Science Part A, 2019, 57, 605-612.	2.3	4
11	Phosphorogenic and spontaneous formation of tris(bipyridine)ruthenium in peptide scaffolds. Journal of Peptide Science, 2019, 25, e3158.	1.4	1
12	Enantioseparation of Sulfoxides and Nitriles by Inclusion Crystallization with Chiral Organic Salts Based on <scp>l</scp>â€Phenylalanine. European Journal of Organic Chemistry, 2018, 2018, 1726-1729.	2.4	7
13	Photocatalytic CO₂ Reduction by Trigonal-Bipyramidal Cobalt(II) Polypyridyl Complexes: The Nature of Cobalt(I) and Cobalt(0) Complexes upon Their Reactions with CO₂, CO, or Proton. Inorganic Chemistry, 2018, 57, 5486-5498.	4.0	53
14	Light-driven molecular switching of atropisomeric polymers containing azo-binaphthyl groups in their side chains. Polymer Journal, 2018, 50, 455-465.	2.7	6
15	Organocatalyst system for disubstituted carbonates from cycloaddition between CO2 and internal epoxides. Journal of CO2 Utilization, 2018, 24, 261-265.	6.8	14
16	Copperâ€Catalyzed Coupling Reactions of Aryl Halides and Phenols by 4,4â€™â€Dimethoxyâ€2,2â€™â€bipyridine and 4,7â€Dimethoxyâ€1,10â€phenanthroline. ChemistrySelect, 2018, 3, 12620-12624.	1.5	10
17	Spontaneous Formation of Gating Lipid Domain in Uniform-Size Peptide Vesicles for Controlled Release. Journal of the American Chemical Society, 2018, 140, 17956-17961.	13.7	29
18	Poly(4â€vinylphenol)/tetraâ€nâ€butylammonium iodide: Efficient organocatalytic system for synthesis of cyclic carbonates from CO₂ and epoxides. Journal of Applied Polymer Science, 2017, 134, 45189.	2.6	9

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19	Solvent-induced chirality switching in the enantioseparation of regioisomeric hydroxyphenylpropionic acids via diastereomeric salt formation with (1 R ,2 S) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 737 Td (	1.9	
20	Efficient Hydrogen Storage and Production Using a Catalyst with an Imidazolineâ€Based, Protonâ€Responsive Ligand. ChemSusChem, 2017, 10, 1071-1075.	6.8	57
21	Development of Liquid Crystal Materials Having an Anthraquinone and Bithiophene Moieties, and Their Electrochromic Properties. Electrochemistry, 2017, 85, 768-774.	1.4	3
22	Formation of Ternary Inclusion Crystal and Enantioseparation of Alkyl Aryl Sulfoxides by the Salt of Urea-Modified <scp>l</scp>-Phenylalanine and an Achiral Amine. Crystal Growth and Design, 2016, 16, 5206-5213.	3.0	8
23	Fluorogenic Enhancement of an in Vitro-Selected Peptide Ligand by Replacement of a Fluorescent Group. Analytical Chemistry, 2016, 88, 7991-7997.	6.5	15
24	Economical synthesis of cyclic carbonates from carbon dioxide and halohydrins using K₂CO₃. RSC Advances, 2016, 6, 69040-69044.	3.6	21
25	Cationic polymerization of vinyl ethers and pâ€methoxystyrene by a benign initiating system: Silver salt/arylmethyl halide/dialkyl sulfide. Journal of Polymer Science Part A, 2016, 54, 861-870.	2.3	3
26	An efficient metal- and solvent-free organocatalytic system for chemical fixation of CO₂ into cyclic carbonates under mild conditions. Green Chemistry, 2016, 18, 1229-1233.	9.0	175
27	Direct enantioseparation of diarylmethylamines with an ortho-hydroxy group via diastereomeric salt formation and their application to the enantioselective addition reaction of diethylzinc. Tetrahedron, 2016, 72, 1387-1394.	1.9	11
28	DBU/benzyl bromide: an efficient catalytic system for the chemical fixation of CO₂ into cyclic carbonates under metal- and solvent-free conditions. Catalysis Science and Technology, 2016, 6, 3872-3877.	4.1	57
29	A systematic study on ternary inclusion crystals consisting of dianilines and three positional isomers of ditoluoyl-<scp>l</scp>-tartaric acid. CrystEngComm, 2016, 18, 123-129.	2.6	3
30	Trialkylsilylethynyl-substituted triphenylenes and hexabenzocoronenes: highly soluble liquid crystalline materials and their hole transport abilities. Tetrahedron, 2015, 71, 4714-4721.	1.9	10
31	A benign initiating system for cationic polymerization of isobutyl vinyl ether: Silver salt/aryl(alkyl) halide/lewis base. Journal of Polymer Science Part A, 2015, 53, 2050-2058.	2.3	5
32	Direct enantioseparation of 1-(2-hydroxyphenyl) ethylamines via diastereomeric salt formation: chiral recognition mechanism based on the crystal structure. RSC Advances, 2014, 4, 25609.	3.6	7
33	Solvent-induced dual chirality switching in the optical resolution of tropic acid via diastereomeric salt formation with (1R,2S)-2-amino-1,2-diphenylethanol. Tetrahedron, 2014, 70, 7923-7928.	1.9	13
34	Synthesis of cyclic carbonates from CO₂and epoxides catalyzed by low loadings of benzyl bromide/DMF at ambient pressure. Chemical Communications, 2014, 50, 14813-14816.	4.1	39
35	Effect of alkoxy terminal chain length on mesomorphism of 1,6-disubstituted pyrene-based hexacatenar liquid crystals: columnar phase control. Tetrahedron, 2014, 70, 5100-5108.	1.9	16
36	Chirality Switching in Optical Resolution of Mandelic Acid in C1â€“C4 Alcohols: Elucidation of Solvent Effects Based on X-ray Crystal Structures of Diastereomeric Salts. Crystal Growth and Design, 2014, 14, 3549-3556.	3.0	18

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37	Solvent-Induced Reversed Stereoselectivity in Reciprocal Resolutions of Mandelic Acid and erythro-2-Amino-1,2-diphenylethanol. Journal of Organic Chemistry, 2013, 78, 9309-9316.	3.2	20
38	Enantioseparation of 1-arylethanols via a supramolecular chiral host consisting of N-(2-naphthoyl)-l-aspartic acid and an achiral diamine. Organic and Biomolecular Chemistry, 2012, 10, 1877.	2.8	10
39	Synthesis and Hole Transport Properties of Highly Soluble Pyrene-Based Discotic Liquid Crystals with Trialkylsilylethynyl Groups. Molecular Crystals and Liquid Crystals, 2011, 534, 81-92.	0.9	10
40	Switching of Enantioselectivity in the Catalytic Addition of Diethylzinc to Aldehydes by Regioisomeric Chiral 1,3-Amino Sulfonamide Ligands. Journal of Organic Chemistry, 2011, 76, 5413-5428.	3.2	38
41	Construction of Hydrogenâ€Bonded Ternary Organic Crystals Derived from <scp>L</scp>â€Tartaric Acid and Their Application to Enantioseparation of Secondary Alcohols. Chemistry - A European Journal, 2011, 17, 11527-11534.	3.3	20
42	Synthesis of Chiral 1,3â€Diamines Derived from cisâ€2â€Benzamidocyclohexanecarboxylic Acid and Their Application in the Cuâ€Catalyzed Enantioselective Henry Reaction. Chemistry - A European Journal, 2011, 17, 13584-13592.	3.3	54
43	Solventâ€induced chirality control in the enantioseparation of 1â€phenylethylamine via diastereomeric salt formation. Chirality, 2011, 23, 326-332.	2.6	10
44	Novel chiral ammonium ionic liquids as efficient organocatalysts for asymmetric Michael addition of aldehydes to nitroolefins. Tetrahedron, 2010, 66, 4970-4976.	1.9	42
45	Self-assembled proline-amino thioureas as efficient organocatalysts for the asymmetric Michael addition of aldehydes to nitroolefins. Tetrahedron: Asymmetry, 2010, 21, 2925-2933.	1.8	49
46	Chirality Control by Substituents in the Asymmetric Addition of Et₂Zn to Aromatic Aldehydes Catalyzed by cisâ€(1R,2S)â€2â€Benzamidocyclohexanecarboxylic Acid Derived 1,3â€Aminoalcohols. Chinese Journal of Chemistry, 2010, 28, 61-68.	4.9	8
47	Chirality control in the enantioselective arylation of aromatic aldehydes catalyzed by cis-(1R,2S)-2-benzamidocyclohexanecarboxylic acid derived 1,3-aminoalcohols. Tetrahedron: Asymmetry, 2010, 21, 75-80.	1.8	22
48	Liquid-Crystalline Behavior and Structure of Charge-Transfer Complexes of Pyrene Derivatives with Four Linear Alkanoyloxy Substituents. Molecular Crystals and Liquid Crystals, 2010, 524, 68-101.	0.9	7
49	Catalytic enantioselective arylation of aryl aldehydes by chiral aminophenol ligands. Tetrahedron: Asymmetry, 2009, 20, 415-419.	1.8	23
50	pHâ€Dependent Catalytic Activity and Chemoselectivity in Transfer Hydrogenation Catalyzed by Iridium Complex with 4,4â€²â€Dihydroxyâ€2,2â€²â€bipyridine. Chemistry - A European Journal, 2008, 14, 11076-11081.	3.3	133
51	Synthesis and Phase Structures of Novel Ïâ€Acceptor Discotic Liquid Crystalline Compounds Having a Pyrenedione Core. European Journal of Organic Chemistry, 2008, 2008, 4120-4125.	2.4	11
52	Synthesis of novel chiral tridentate aminophenol ligands for enantioselective addition of diethylzinc to aldehydes. Tetrahedron: Asymmetry, 2008, 19, 1670-1675.	1.8	34
53	Resolution of Î±-methylbenzylamine via diastereomeric salt formation using the naturally based reagent N-tosyl-(S)-phenylalanine together with a solvent switch technique. Tetrahedron: Asymmetry, 2008, 19, 1641-1646.	1.8	11
54	Solvent control of optical resolution of 2-amino-1-phenylethanol using dehydroabietic acid. Organic and Biomolecular Chemistry, 2008, 6, 458-463.	2.8	21

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55	Synthesis of new chiral dopants derived from naproxen for nematic liquid crystals. Liquid Crystals, 2008, 35, 681-687.	2.2	7
56	Crystal Structures of (S)- and (R)-1-Amino-2-propanol/Dehydroabietic Acid Salts. Analytical Sciences: X-ray Structure Analysis Online, 2008, 24, X9-X10.	0.1	0
57	Enantioselective addition of phenylacetylene to aldehydes catalyzed by 1,3-aminophenol ligand. Tetrahedron: Asymmetry, 2007, 18, 2668-2673.	1.8	18
58	Synthesis of novel chiral 1,3-aminophenols and application for the enantioselective addition of diethylzinc to aldehydes. Tetrahedron: Asymmetry, 2007, 18, 1257-1263.	1.8	22
59	Crystal Structure of (S)-Piperazine-2-carboxylic acid t-butylamide/N-Tosyl-(S)-phenylalanine 1:2 Salt. Analytical Sciences: X-ray Structure Analysis Online, 2006, 22, X29-X30.	0.1	0
60	Optical Rotation Study on Solvent Dependence of Diastereomeric Salt Discrimination Properties. Bulletin of the Chemical Society of Japan, 2006, 79, 1084-1090.	3.2	10
61	(+)-N-[(R)-1-(2-Hydroxy-5-methylphenyl)propyl]-N-[(R)-2-methyl-1-phenylpropyl]ammonium chloride. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2622-o2624.	0.2	1
62	Induction and Control of Columnar Mesophase by Charge Transfer Interaction and Side Chain Structures of Tetrasubstituted Pyrenes. Molecular Crystals and Liquid Crystals, 2006, 451, 65-74.	0.9	7
63	Structure and Chiral Recognition Ability ofendo-3-Benzamidonorborn-5-ene-2-carboxylic Acid. Bulletin of the Chemical Society of Japan, 2005, 78, 880-885.	3.2	7
64	Crystal Structure of 3,4-Dihydro-2H-1,5-benzodioxepine-7,8-dicarboxylic Acid. Analytical Sciences: X-ray Structure Analysis Online, 2005, 21, X81-X82.	0.1	1
65	Resolution of Î²-aminoalcohols and 1,2-diamines using fractional crystallization of diastereomeric salts of dehydroabietic acid. Tetrahedron: Asymmetry, 2003, 14, 3297-3300.	1.8	45
66	Helical Twisting Power of New Chiral Dopants Having a Trifluoromethyl Group at the Chiral Center for Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2003, 398, 189-193.	0.9	14
67	Electro-oxidation of methanol on platinum-organic metal complex mixed catalysts in acidic media. Chemical Communications, 2001, , 2492-2493.	4.1	19
68	1H NMR study of chiral recognition of amines by chiral Kemp's acid diamide. Tetrahedron: Asymmetry, 2001, 12, 375-380.	1.8	24
69	Synthesis of Optically Active 2-Methylchroman Derivatives and Application to Chiral Dopants for Nematic Liquid Crystals. Bulletin of the Chemical Society of Japan, 2000, 73, 259-265.	3.2	15
70	Helical Twisting Power of New Chiral Dopants Derived from 2â€“Phenylpropanoic Acid for Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2000, 346, 35-40.	0.3	15
71	Synthesis and Properties of Ferroelectric Liquid Crystals Derived from 5-Alkyl-Î´-Valerolactones. Molecular Crystals and Liquid Crystals, 2000, 346, 51-61.	0.3	7
72	Title is missing!. Journal of Inorganic and Organometallic Polymers, 1999, 9, 199-219.	1.5	21

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73	A metal-organic molecular box obtained from self-assembling around uranyl ions. Journal of the Chemical Society Dalton Transactions, 1999, , 1047-1048.	1.1	48
74	Synthesis and Evaluation of Superior Calcium and Mercury Transport by Simple Monocarboxylic Acids of Kempâ€™s Triacid. Bulletin of the Chemical Society of Japan, 1999, 72, 865-873.	3.2	6
75	Resolution of sclareolide as a key intermediate for the synthesis of AmbroxÂ®. Tetrahedron: Asymmetry, 1998, 9, 3819-3823.	1.8	15
76	New Kempâ€™s Diacid Derivatives Give Efficient Transport and Modifiable Selectivity for Alkaline Earth and Transition Metal Ions. Bulletin of the Chemical Society of Japan, 1997, 70, 1895-1903.	3.2	11
77	Chromogenic reagent for mercury based on Kempâ€™s acid imide. Chemical Communications, 1997, , 297-298.	4.1	6