

Ferenc Faigl

List of Publications by Year in descending order

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papers

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331670

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128
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128
docs citations

128
times ranked

1237
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies in optical resolution: a practical guide. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 519-536.	1.8	151
2	The route from problem to solution in multistep continuous flow synthesis of pharmaceutical compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 6180-6189.	3.0	78
3	A quantitative approach to optical resolution. <i>Tetrahedron Letters</i> , 1980, 21, 647-650.	1.4	66
4	Continuous end-to-end production of solid drug dosage forms: Coupling flow synthesis and formulation by electrospinning. <i>Chemical Engineering Journal</i> , 2018, 350, 290-299.	12.7	57
5	Separation of non-racemic mixtures of enantiomers: an essential part of optical resolution. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 947.	2.8	49
6	Site selective hydrogen/metal exchange: Competition and cooperation between superbases and neighboring groups. <i>Pure and Applied Chemistry</i> , 1994, 66, 1439-1446.	1.9	46
7	A one-pot synthesis of ibuprofene involving three consecutive steps of superbase metalation. <i>Tetrahedron Letters</i> , 1991, 32, 3369-3370.	1.4	45
8	N-phenylpyrrole: A kinetic, though not thermodynamic preference for dilithiation. <i>Tetrahedron</i> , 1993, 49, 10271-10278.	1.9	42
9	Pseudosymmetry and chiral discrimination in optical resolution via diastereoisomeric salt formation. The crystal structures of (R)- and (S)-N-methylamphetamine bitartrates (RMERTA and SMERTA). <i>Journal of the Chemical Society Perkin Transactions II</i> , 1986, , 1881-1886.	0.9	33
10	Enhancement of Benzylic Basicity by a Fluorine Substituent at the para-Position: A Case of Lone Pair/Lone Pair Repulsion. <i>Chemistry - A European Journal</i> , 2000, 6, 771-777.	3.3	31
11	Continuous Synthesis and Purification by Coupling a Multistep Flow Reaction with Centrifugal Partition Chromatography. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8742-8745.	13.8	30
12	A convenient method for optical resolutions via diastereoisomeric salt formation. <i>Tetrahedron</i> , 1985, 41, 2465-2470.	1.9	29
13	Solvent and ligand effects on selective mono- and dilithiation of 1-(chlorophenyl)pyrroles and 1-(methoxyphenyl)pyrroles. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 1039-1043.	1.3	29
14	Manufacturing Synthesis of 5-Substituted Phthalides. <i>Organic Process Research and Development</i> , 2010, 14, 617-622.	2.7	28
15	A new pyrrolidine-derived atropisomeric amino alcohol as a highly efficient chiral ligand for the asymmetric addition of diethylzinc to aldehydes. <i>Tetrahedron Letters</i> , 2014, 55, 6891-6894.	1.4	28
16	Competition and co-operation between ortho directing groups and activating agents: Regioselective metallation of 1-(methoxyphenyl)pyrroles. <i>Tetrahedron</i> , 1997, 53, 4883-4888.	1.9	27
17	Efficient synthesis and resolution of (±)-1-[2-carboxy-6-(trifluoromethyl)phenyl]pyrrole-2-carboxylic acid. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 4771-4780.	1.8	27
18	Useful base promoted elaborations of oxiranyl ethers. <i>Tetrahedron</i> , 2001, 57, 8173-8180.	1.9	26

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19	Diastereoisomeric interactions and selective reactions in solutions of enantiomers. <i>Tetrahedron</i> , 1985, 41, 2841-2845.	1.9	24
20	Selective reactions of enantiomeric-mixtures. <i>Tetrahedron Letters</i> , 1981, 22, 3093-3096.	1.4	23
21	A new method for designing optical resolutions and for determination of relative configurations. <i>Tetrahedron</i> , 1985, 41, 2837-2840.	1.9	21
22	Synthesis and stereochemical stability of new atropisomeric 1-(substituted phenyl)pyrrole derivatives. <i>Tetrahedron</i> , 2008, 64, 1371-1377.	1.9	21
23	Resolution of 1-[2-carboxy-6-(trifluoromethyl)phenyl]-1H-pyrrole-2-carboxylic acid with methyl (R)-2-phenylglycinate, reciprocal resolution and second order asymmetric transformation. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 1879-1884.	1.8	20
24	Access to Fluorazones by Intramolecular Dehydrative Cyclization of Aromatic Tertiary Amides: A Synthetic and Mechanistic Study. <i>Journal of Organic Chemistry</i> , 2018, 83, 2282-2292.	3.2	20
25	Kinetic resolution of racemic alkoxy oxiranes by chiral lithium amides. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 2293-2299.	1.8	19
26	Combined directed ortho metalation–intramolecular Friedel–Crafts connections. Regiospecific route to 1-substituted fluoren-9-ones. <i>Tetrahedron Letters</i> , 2002, 43, 8347-8350.	1.4	19
27	Convenient, Benign and Scalable Synthesis of 2- and 4-Substituted Benzylpiperidines. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 3623-3632.	2.4	19
28	A new base promoted rearrangement of (E)-1-benzyloxy-2,3-epoxyalkanes. <i>Tetrahedron</i> , 1998, 54, 11597-11602.	1.9	18
29	Effect of a trifluoromethyl group on molecular structure: Competitive mono- and dilithiation of 1-[(trifluoromethyl)phenyl]pyrroles. <i>Tetrahedron</i> , 1999, 55, 7881-7892.	1.9	18
30	Structural studies on optical resolution via diastereoisomeric salt formation. Enantiomer separation for cis-permethrinic acid [cis-2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropanecarboxylic acid]. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1988, , 1385-1392.	0.9	16
31	Resolution and enantioselective rearrangements of amino group-containing oxiranyl ethers. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 59-68.	1.8	16
32	Prediction of the efficiency of diastereoisomer separation on the basis of the behaviour of enantiomeric mixtures. <i>RSC Advances</i> , 2014, 4, 21254-21261.	3.6	16
33	Efficient synthesis of optically active 1-(2-carboxymethyl-6-ethylphenyl)-1H-pyrrole-2-carboxylic acid: a novel atropisomeric 1-arylpyrrole derivative. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 98-103.	1.8	15
34	Steric and electronic tuning of atropisomeric amino alcohol type ligands with a 1-arylpyrrole backbone. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 593-599.	1.8	15
35	Synthesis and Investigation of Solar–Cell Photosensitizers Having a Fluorazone Backbone. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1843-1854.	2.4	15
36	The influence of molecular structure and crystallization time on the efficiency of diastereoisomeric salt forming resolutions. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 2429-2434.	1.8	14

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37	Synthesis of atropisomeric 1-phenylpyrrole-derived amino alcohols: New chiral ligands. <i>Chirality</i> , 2012, 24, 532-542.	2.6	14
38	Optional ortho or alpha hydroxymethylation of alkylarenes. <i>Journal of Organometallic Chemistry</i> , 1991, 415, 1-6.	1.8	12
39	A facile synthesis of 3-(substituted benzyl)piperidines. <i>Tetrahedron</i> , 2003, 59, 7897-7900.	1.9	12
40	Synthesis of Halogenated 4H-Pyrido[1,2-a]pyrimidin-4-ones. <i>Heterocycles</i> , 2009, 78, 2477.	0.7	12
41	Pyrrolobenzoxazepine ring construction through metalation and electrophilic substitution of N-(2-hydroxymethylphenyl)pyrrole. <i>Tetrahedron</i> , 1994, 50, 2071-2076.	1.9	11
42	Novel stereoselective synthesis of 1,2,3-trisubstituted azetidines. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 1607-1614.	1.8	11
43	Regio- and Diastereoselective Synthesis of 2-Arylazetidines: Quantum Chemical Explanation of Baldwin's Rules for the Ring-Formation Reactions of Oxiranes. <i>Journal of Organic Chemistry</i> , 2020, 85, 11226-11239.	3.2	11
44	Crystal structures of the diastereomeric salt pair of the prostaglandin intermediate 1R, 2S(+)-cis-2-hydroxycyclopent-4-enylacetic acid with S- and R- 1-phenylethylamine. <i>Journal of Molecular Structure</i> , 1989, 196, 157-170.	3.6	10
45	The special directing effect of fluorine: Ligand independent ortho lithiation of 1-(fluorophenyl)pyrroles. <i>Tetrahedron</i> , 1998, 54, 4367-4374.	1.9	10
46	Efficient, scalable kinetic resolution of cis-4-benzyloxy-2,3-epoxybutanol. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 3841-3847.	1.8	10
47	Synthesis and enantioselective rearrangement of (Z)-4-triphenylmethoxy-2,3-epoxybutan-1-ol enantiomers. <i>Chirality</i> , 2007, 19, 197-202.	2.6	10
48	Hydrogenolysis of N-protected amino oxetanes over palladium: An efficient method for a one-step ring opening and debenzoylation reaction. <i>Journal of Molecular Catalysis A</i> , 2011, 339, 32-36.	4.8	9
49	Hydrogenolysis of N- and O-protected hydroxyazetidines over palladium: Efficient and selective methods for ring opening and deprotecting reactions. <i>Journal of Molecular Catalysis A</i> , 2014, 395, 217-224.	4.8	9
50	Environmentally Friendly Synthesis of Indoline Derivatives using Flow Chemistry Techniques. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 6525-6532.	2.4	9
51	Organometallic Approach to the Functionalization of Alkyl Groups Containing 1-Phenylpyrroles. <i>Synthetic Communications</i> , 2006, 36, 2841-2849.	2.1	8
52	Hydrogenolysis of O-protected hydroxyoxetanes over palladium: An efficient method for a one-step ring opening and detritylation reaction. <i>Catalysis Communications</i> , 2009, 10, 635-639.	3.3	8
53	Useful, regioflexible methods for functionalization of 1-phenylpyrrole derivatives. <i>Tetrahedron</i> , 2012, 68, 4259-4266.	1.9	8
54	A novel and convenient method for the preparation of 5-(diphenylmethylene)-1 H -pyrrol-2(5 H)-ones; synthesis and mechanistic study. <i>Tetrahedron</i> , 2016, 72, 5444-5455.	1.9	8

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55	Stereoselective synthesis of trifluoromethyl group containing cyclopropane lactones. <i>Tetrahedron</i> , 1997, 53, 13001-13008.	1.9	7
56	Regioselective Metallation of Propylbenzene with Superbase: a Convenient Route to Stilbene Derivatives. <i>Journal of Chemical Research Synopses</i> , 1998, , 158-159.	0.3	7
57	Reaction of cyclopropane carboxylic acid derivatives with sulphur tetrafluoride – an example of a diastereoselective ring opening. <i>Journal of Fluorine Chemistry</i> , 2000, 104, 297-301.	1.7	7
58	A new xantphos-type ligand and its gold(I) complexes: Synthesis, structure, luminescence. <i>Polyhedron</i> , 2013, 55, 57-66.	2.2	7
59	Solid state structural relation and binary melting phase diagram of (S-) and racemic 2-(2-nitro-1-phenylethyl)-1,3-diphenyl-propane-1,3-dione. <i>Thermochimica Acta</i> , 2014, 580, 46-52.	2.7	7
60	New Atropisomeric Amino Alcohol Ligands for Enantioselective Addition of Diethylzinc to Aldehydes. <i>Chirality</i> , 2015, 27, 216-222.	2.6	7
61	A practical process for the preparation of bis(2,2,2-trifluoroethyl) 2-oxoalkylphosphonates by acylation with carboxylic esters. <i>Tetrahedron Letters</i> , 2015, 56, 4877-4879.	1.4	7
62	A combined DSC, X-ray diffraction, and molecular modelling study of chiral discrimination in the purification of enantiomeric mixtures of cis-permethrinic acid. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990, , 57-63.	0.9	6
63	Structural studies on optical resolution via diastereoisomeric salt formation, part 2. The conformational flexibility of (S)-2-benzylaminobutan-1-ol in enantiomer separation for permethrinic acids. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990, , 1395-1400.	0.9	6
64	N,N,N',N'-Pentamethyldipropylenetriamine (PMDPTA): A Versatile Auxiliary for Site Selective Lithiation Reactions. <i>Synthetic Communications</i> , 1998, 28, 443-449.	2.1	6
65	Hydrogenation of a 4-benzylpyridine derivative over supported precious metal catalysts. <i>Applied Catalysis A: General</i> , 2004, 269, 249-253.	4.3	6
66	Synthesis of 8,9-dialkoxybenzodiazepines and 7,8-dialkoxyisoquinolines. <i>Journal of Heterocyclic Chemistry</i> , 2006, 43, 1539-1547.	2.6	6
67	A Practical Route for the Preparation of Bis(2,2,2-trifluoroethyl) 2-Oxoalkylphosphonates. <i>Synthesis</i> , 2015, 47, 1085-1090.	2.3	6
68	Z- and E-selective Horner-Wadsworth-Emmons reactions. <i>Synthetic Communications</i> , 2017, 47, 1214-1224.	2.1	6
69	Optical resolution via complex formation with O,O'-dibenzoyltartaric acid. , 2004, , 73-101.		6
70	The role of binary phase diagrams in separation of stereoisomeric mixtures. <i>Journal of Thermal Analysis</i> , 1988, 33, 1241-1245.	0.6	5
71	Convenient methods for the synthesis of d4, d2 and d6 isotopomers of 4-(4-fluorobenzyl)piperidine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2005, 48, 421-427.	1.0	5
72	Advantages of Structural Similarities of the Reactants in Optical Resolution Processes. <i>Topics in Current Chemistry</i> , 2006, 269, 133-157.	4.0	5

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73	Solvent dependency though not solvate formation in the derivativeâ€“derivative resolution of N-formylphenylalanine. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 2531-2536.	1.8	5
74	Synthesis and optical resolution of 1â€“(3â€“carboxyâ€“1,1â€“2â€“biphenyl)â€“2â€“yl)â€“1H</i>â€“pyrroleâ€“2â€“carboxylic acid, <i>Chirality</i> , 2009, 21, 905-910.	2.8	5
75	A Convenient Procedure for the Synthesis of 2,2,2-Trifluoroethyl Methyl 2-Oxoalkylphosphonates. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2015, 190, 677-680.	1.6	5
76	Synthesis and Application of New, Optically Active Compounds as Catalysts and Ligands in Enantioselective Reactions. <i>Periodica Polytechnica: Chemical Engineering</i> , 2015, 59, 38-50.	1.1	5
77	Non-linear effects in the enantiomeric separation of mandelic acid using the mixtures of amphoteric resolving agents. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 721-731.	1.8	5
78	Copper-facilitated Suzuki-Miyaura coupling for the preparation of 1,3-dioxolane-protected 5-arylthiophene-2-carboxaldehydes. <i>Tetrahedron</i> , 2018, 74, 2002-2008.	1.9	5
79	Comparison of enantiomer separation by inclusion chromatography and by resolution via diastereoisomeric salt formation. <i>Reactive Polymers, Ion Exchangers, Sorbents</i> , 1987, 6, 197-202.	0.0	4
80	Unexpected substituent effect in the stereoselective synthesis of trifluoromethyl group containing cyclopropane lactones. <i>Journal of Fluorine Chemistry</i> , 2000, 103, 117-121.	1.7	4
81	Ring Transformation of Unsaturated <i>N</i>-Bridgehead Fused Pyrimidin-4(3<i>H</i>)-ones: Role of Repulsive Electrostatic Nonbonded Interaction. <i>Journal of Organic Chemistry</i> , 2011, 76, 696-699.	3.2	4
82	Regularities between Separations of Enantiomeric and Diastereoisomeric Mixtures. Prediction of the Efficiency of Diastereomeric/ Enantiomeric Separations on the Basis of Behaviour of Enantiomeric Mixtures. <i>Periodica Polytechnica: Chemical Engineering</i> , 2015, 59, 26-37.	1.1	4
83	Selecting Resolving Agents with Respect to Their Eutectic Compositions. <i>Chirality</i> , 2016, 28, 230-234.	2.6	4
84	The pH-dependency of Diastereomeric Salt Resolutions with Amphoteric Resolving Agents. <i>Journal of Chemical Research</i> , 2016, 40, 21-25.	1.3	4
85	Effect of Regioisomerism on the Efficiency of 1-Phenylpyrrole-Type Atropisomeric Amino Alcohol Ligands in Enantioselective Organometallic Reactions. <i>Synlett</i> , 2018, 29, 2171-2175.	1.8	4
86	Diastereoselective synthesis of cis-N-Boc-4-aminocyclohexanol with reductive ring opening method using continuous flow. <i>Journal of Flow Chemistry</i> , 2019, 9, 13-17.	1.9	4
87	Chemoselective Strategy for the Direct Formation of Tetrahydro-2,5-methanobenzo[<i>c</i>]azepines or Azetotetrahydroisoquinolines via Regio- and Stereoselective Reactions. <i>Journal of Organic Chemistry</i> , 2019, 84, 7100-7112.	3.2	4
88	A rational synthesis of trans-2-(3-phenylprop-1-yl)cyclohexylamino-2-oxazoline enantiomers. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 773-778.	1.8	2
89	Novel Methods for the Separation of Optical Isomers. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2008, , 295-315.	0.1	2
90	Synthesis and resolution of 4,4,6,6-tetramethyl-4H,6H-pyrrolo[1,2-a][4,1]benzoxazepine-1,10-dicarboxylic acid. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 2920-2924.	1.8	2

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91	Enzyme-catalyzed kinetic resolution of N-Boc-trans-3-hydroxy-4-phenylpyrrolidine. <i>Open Chemistry</i> , 2014, 12, 25-32.	1.9	2
92	Racemization-free synthesis of atropisomeric 1-phenylpyrrole based diamines using diphenylphosphoryl azide. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 738-745.	1.8	2
93	An aspect of selecting resolving agents: The role of differences in molecule length in diastereomeric salt resolutions. <i>Separation Science and Technology</i> , 2016, 51, 727-732.	2.5	2
94	Continuous Synthesis and Purification by Coupling a Multistep Flow Reaction with Centrifugal Partition Chromatography. <i>Angewandte Chemie</i> , 2017, 129, 8868-8871.	2.0	2
95	Effect of molecular structure on stereoselectivity during the hydrolysis of diastereoisomeric permethrinic acid esters. <i>Journal of Molecular Structure</i> , 1987, 161, 111-123.	3.6	1
96	Structure determination and molecular modelling of an unexpected side product of a cyclopropane lactone formation process. <i>Journal of Molecular Structure</i> , 2004, 691, 259-264.	3.6	1
97	Mechanistic Study on the Acylation of Bis(2,2,2-Trifluoroethyl) Methylphosphonate by Carboxylic Esters. <i>ChemistrySelect</i> , 2017, 2, 7723-7734.	1.5	1
98	A Green Process for the Preparation of Bis(2,2,2-trifluoroethyl) Methylphosphonate. <i>Organic Process Research and Development</i> , 2017, 21, 1985-1989.	2.7	1
99	Multistep batch-flow hybrid synthesis of a terbinafine precursor. <i>Journal of Flow Chemistry</i> , 2022, 12, 51-57.	1.9	1
100	Enhancement of Benzylic Basicity by a Fluorine Substituent at the para-Position: A Case of Lone Pair/Lone Pair Repulsion. <i>Chemistry - A European Journal</i> , 2000, 6, 771-777.	3.3	1
101	Evidence of Polymorphism in the Case of a Substituted Imidazo-Thiazol. <i>Molecular Crystals and Liquid Crystals</i> , 1988, 156, 193-203.	0.9	1
102	Role of the Second Order Interactions in the Separation of Stereoisomeric Mixtures. <i>Molecular Crystals and Liquid Crystals</i> , 1988, 156, 205-213.	0.9	1
103	Diastereoselective Synthesis of Novel Optically Active Five Membered O- and N-heterocyclic Compounds. <i>Letters in Organic Chemistry</i> , 2012, 9, 81-88.	0.5	1
104	Synthesis of (S)-(+)-2-(N-benzylamino)butan-1-ol from its Schiff Base by Catalytic Hydrogenation over Palladium. <i>Current Green Chemistry</i> , 2015, 2, 312-318.	1.1	1
105	Evidence of Polymorphism in the Case of a Substituted Imidazo-Thiazol. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1988, 156, 193-203.	0.3	0
106	Combined Directed ortho Metalationâ€”Intramolecular Friedelâ€”Crafts Connections. Regiospecific Route to 1-Substituted Fluoren-9-ones.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
107	A Facile Synthesis of 3-(Substituted benzyl)piperidines.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
108	Convenient, Benign and Scalable Synthesis of 2- and 4-Substituted Benzylpiperidines.. <i>ChemInform</i> , 2004, 35, no.	0.0	0

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109	Synthesis of new, optically active 1-(substituted aryl)pyrrole derivatives via atropisomerism directed diastereoselective metalation. <i>Arkivoc</i> , 2015, 2015, 80-96.	0.5	0
110	A Novel One-pot Benzimidazole Ring Formation via a Continuous Flow Selective Reductive Cyclization Method. <i>Current Organic Chemistry</i> , 2018, 22, 1940-1944.	1.6	0
111	The structural aspects of resolution with tartaric acid. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1984, 40, C81-C81.	0.3	0