

# Vadim Anatolievich Soloshonok

## List of Publications by Citations

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#	Paper	IF	Citations
313	Fluorine in pharmaceutical industry: fluorine-containing drugs introduced to the market in the last decade (2001-2011). <i>Chemical Reviews</i> , <b>2014</b> , 114, 2432-506	68.1	2974
312	Next Generation of Fluorine-Containing Pharmaceuticals, Compounds Currently in Phase II-III Clinical Trials of Major Pharmaceutical Companies: New Structural Trends and Therapeutic Areas. <i>Chemical Reviews</i> , <b>2016</b> , 116, 422-518	68.1	1457
311	Modern Approaches for Asymmetric Construction of Carbon-Fluorine Quaternary Stereogenic Centers: Synthetic Challenges and Pharmaceutical Needs. <i>Chemical Reviews</i> , <b>2018</b> , 118, 3887-3964	68.1	316
310	Recent advances in the trifluoromethylation methodology and new CF <sub>3</sub> -containing drugs. <i>Journal of Fluorine Chemistry</i> , <b>2014</b> , 167, 37-54	2.1	308
309	Fluorine-Containing Drugs Approved by the FDA in 2018. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11797-8181	2.13	13
308	Remarkable amplification of the self-disproportionation of enantiomers on achiral-phase chromatography columns. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 766-9	16.4	190
307	Phenomenon of optical self-purification of chiral non-racemic compounds. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12112-3	16.4	164
306	Recent Advances in the Asymmetric Synthesis of $\alpha$ -(Trifluoromethyl)-Containing $\beta$ -Amino Acids. <i>Synthesis</i> , <b>2012</b> , 44, 1591-1602	2.9	149
305	Asymmetric synthesis of fluorine-containing amines, amino alcohols, and $\beta$ -amino acids mediated by chiral sulfinyl group. <i>Journal of Fluorine Chemistry</i> , <b>2010</b> , 131, 127-139	2.1	141
304	Chiral sulfoxides: advances in asymmetric synthesis and problems with the accurate determination of the stereochemical outcome. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 1307-1350	58.5	134
303	Recent advances in the synthesis of fluorinated aminophosphonates and aminophosphonic acids. <i>RSC Advances</i> , <b>2013</b> , 3, 6693	3.7	130
302	Self-disproportionation of enantiomers via achiral chromatography: a warning and an extra dimension in optical purifications. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4180-8	58.5	130
301	Asymmetric synthesis of $\beta$ -amino acids via homologation of Ni(II) complexes of glycine Schiff bases; Part 1: alkyl halide alkylations. <i>Amino Acids</i> , <b>2013</b> , 45, 691-718	3.5	126
300	Asymmetric synthesis of $\beta$ -amino acids via homologation of Ni(II) complexes of glycine Schiff bases. Part 2: aldol, Mannich addition reactions, deracemization and (S) to (R) interconversion of $\beta$ -amino acids. <i>Amino Acids</i> , <b>2013</b> , 45, 1017-33	3.5	115
299	Synthesis of fluorine-containing $\beta$ -amino acids in enantiomerically pure form via homologation of Ni(II) complexes of glycine and alanine Schiff bases. <i>Journal of Fluorine Chemistry</i> , <b>2013</b> , 155, 21-38	2.1	107
298	Practical synthesis of fluorine-containing $\beta$ - and $\gamma$ -amino acids: recipes from Kiev, Ukraine. <i>Future Medicinal Chemistry</i> , <b>2009</b> , 1, 793-819	4.1	104
297	Practical Methods for the Synthesis of Symmetrically $\beta$ -Disubstituted $\beta$ -Amino Acids. <i>Synthesis</i> , <b>2010</b> , 2010, 2319-2344	2.9	103

- 296 Asymmetric synthesis of  $\alpha$ -amino acids via homologation of Ni(II) complexes of glycine Schiff bases. Part 3: Michael addition reactions and miscellaneous transformations. *Amino Acids*, **2014**, 46, 2047-73 3.5 98
- 295 Asymmetric synthesis of novel highly sterically constrained (2S,3S)-3-methyl-3-trifluoromethyl- and (2S,3S,4R)-3-trifluoromethyl-4-methylpyroglutamic acids. *Tetrahedron*, **1999**, 55, 12045-12058 2.4 95
- 294 Self-disproportionation of enantiomers of (R)-ethyl 3-(3,5-dinitrobenzamido)-4,4,4-trifluorobutanoate on achiral silica gel stationary phase. *Journal of Fluorine Chemistry*, **2006**, 127, 597-603 2.1 93
- 293 Assembly of Fluorinated Quaternary Stereogenic Centers through Catalytic Enantioselective Detrfluoroacetylative Aldol Reactions. *Angewandte Chemie - International Edition*, **2015**, 54, 6019-23 16.4 91
- 292 General method for the synthesis of enantiomerically pure  $\beta$ -hydroxy- $\alpha$ -amino acids, containing fluorine atoms in the side chains. Case of stereochemical distinction between methyl and trifluoromethyl groups. X-Ray crystal and molecular structure of the nickel(II) complex of (2S,3S)-2-(trifluoromethyl)threonine. *Journal of the Chemical Society Perkin Transactions 1*, **1993**, 3143-3155 91
- 291 Asymmetric catalysis of the Friedel-Crafts reaction with fluoral by chiral binaphthol-derived titanium catalysts through asymmetric activation. *Journal of Organic Chemistry*, **2000**, 65, 1597-9 4.2 90
- 290 Asymmetric aldol reactions of chiral Ni(II)-complex of glycine with aliphatic aldehydes. Stereodivergent synthesis of syn-(2S)- and syn-(2R)- $\alpha$ -alkylserines. *Tetrahedron: Asymmetry*, **1995**, 6, 1741-1756 90
- 289 Biocatalytic approach to enantiomerically pure  $\alpha$ -amino acids. *Tetrahedron: Asymmetry*, **1995**, 6, 1601-1610 88
- 288 Applications of fluorine-containing amino acids for drug design. *European Journal of Medicinal Chemistry*, **2020**, 186, 111826 6.8 88
- 287 Organic base-catalyzed stereodivergent synthesis of (R)- and (S)-3-amino-4,4,4-trifluorobutanoic acids. *Chemical Communications*, **2012**, 48, 4124-6 5.8 87
- 286 Rational application of self-disproportionation of enantiomers via sublimation: a novel methodological dimension for enantiomeric purifications. *Tetrahedron: Asymmetry*, **2010**, 21, 1396-1400 86
- 285 Resolution/deracemization of chiral  $\alpha$ -amino acids using resolving reagents with flexible stereogenic centers. *Journal of the American Chemical Society*, **2009**, 131, 7208-9 16.4 85
- 284 Biomimetic Transamination: A Metal-Free Alternative to the Reductive Amination. Application for Generalized Preparation of Fluorine-Containing Amines and Amino Acids. *Current Organic Synthesis*, **2011**, 8, 281-294 1.9 84
- 283 Large-scale asymmetric synthesis of novel sterically constrained 2,6-dimethyl- and 2,6-trimethyltyrosine and -phenylalanine derivatives via alkylation of chiral equivalents of nucleophilic glycine and alanine. *Tetrahedron*, **2001**, 57, 6375-6382 2.4 83
- 282 Asymmetric aldol reactions of trifluoromethyl ketones with a chiral Ni(II) complex of glycine: Stereocontrolling effect of the trifluoromethyl group. *Tetrahedron*, **1996**, 52, 12433-12442 2.4 83
- 281 Asymmetric synthesis of phosphorus analogues of dicarboxylic  $\alpha$ -amino acids. *Journal of the Chemical Society Perkin Transactions 1*, **1992**, 1525-1529 83
- 280 Highly diastereoselective aza-aldol reactions of a chiral Ni(II) complex of glycine with imines. An efficient asymmetric approach to 3-perfluoroalkyl-2,3-diamino acids. *Tetrahedron Letters*, **1997**, 38, 4671-4674 82
- 279 Highly Diastereoselective Michael Addition Reactions between Nucleophilic Glycine Equivalents and  $\alpha$ -substituted- $\alpha$ -Unsaturated Carboxylic acid Derivatives: A General Approach to the Stereochemically Defined and Sterically Constrained  $\alpha$ -Amino Acids. *Current Organic Chemistry*, **2002**, 6, 341-364 1.7 82

278	Biomimetic Reductive Amination of Fluoro Aldehydes and Ketones via [1,3]-Proton Shift Reaction.(1) Scope and Limitations. <i>Journal of Organic Chemistry</i> , <b>1996</b> , 61, 6563-6569	4.2	82
277	Chemical kinetic resolution of unprotected $\beta$ -substituted $\beta$ -amino acids using recyclable chiral ligands. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7883-6	16.4	81
276	Improved synthesis of proline-derived Ni(II) complexes of glycine: versatile chiral equivalents of nucleophilic glycine for general asymmetric synthesis of alpha-amino acids. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 7104-7	4.2	80
275	Catalytic asymmetric synthesis of $\beta$ -fluoroalkyl- $\beta$ -amino acids via biomimetic [1,3]-proton shift reaction. <i>Tetrahedron Letters</i> , <b>1994</b> , 35, 5063-5064	2	80
274	Highly diastereoselective aldol reaction of fluoroalkyl aryl ketones with methyl isocyanoacetate catalyzed by silver(I)/triethylamine. <i>Tetrahedron Letters</i> , <b>1994</b> , 35, 1055-1058	2	80
273	Asymmetric synthesis of phosphonotrifluoroalanine and its derivatives using N-tert-butanesulfinyl imine derived from fluoral. <i>Tetrahedron Letters</i> , <b>2012</b> , 53, 539-542	2	79
272	Self-Disproportionation of Enantiomers via Sublimation; New and Truly Green Dimension in Optical Purification. <i>Current Organic Synthesis</i> , <b>2011</b> , 8, 310-317	1.9	79
271	Stereochemically defined C-substituted glutamic acids and their derivatives. 1. An efficient asymmetric synthesis of (2S,3S)-3-methyl- and -3-trifluoromethylpyroglutamic acids. <i>Tetrahedron</i> , <b>1999</b> , 55, 12031-12044	2.4	79
270	Next generation organofluorine containing blockbuster drugs. <i>Journal of Fluorine Chemistry</i> , <b>2020</b> , 239, 109639	2.1	78
269	Michael addition reactions between chiral equivalents of a nucleophilic glycine and (S)- or (R)-3-[(E)-enoyl]-4-phenyl-1,3-oxazolidin-2-ones as a general method for efficient preparation of beta-substituted pyroglutamic acids. Case of topographically controlled stereoselectivity. <i>Journal of Fluorine Chemistry</i> , <b>2007</b> , 127, 1520-1523	16.4	77
268	Convenient asymmetric synthesis of beta-substituted alpha,alpha-difluoro-beta-amino acids via Reformatsky reaction between Davis' N-sulfinylimines and ethyl bromodifluoroacetate. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 7448-54	4.2	77
267	Asymmetric synthesis of alpha,beta-dialkyl-alpha-phenylalanines via direct alkylation of a chiral alanine derivative with racemic alpha-alkylbenzyl bromides. A case of high enantiomer differentiation at room temperature. <i>Organic Letters</i> , <b>2001</b> , 3, 341-3	6.2	77
266	Transamination of fluorinated $\beta$ -keto carboxylic esters. A biomimetic approach to $\beta$ -polyfluoroalkyl- $\beta$ -amino acids.. <i>Tetrahedron Letters</i> , <b>1993</b> , 34, 3621-3624	2	77
265	An efficient and operationally convenient general synthesis of tertiary amines by direct alkylation of secondary amines with alkyl halides in the presence of Huenig's base. <i>Arkivoc</i> , <b>2005</b> , 2005, 287-292	0.9	77
264	Biomimetic transamination of $\beta$ -keto perfluorocarboxylic esters. An efficient preparative synthesis of $\beta$ -trifluoroalanine. <i>Tetrahedron</i> , <b>1997</b> , 53, 8307-8314	2.4	76
263	Design, synthesis, and evaluation of a new generation of modular nucleophilic glycine equivalents for the efficient synthesis of sterically constrained alpha-amino acids. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 8572-8	4.2	76
262	Operationally convenient asymmetric synthesis of (S)- and (R)-3-amino-4,4,4-trifluorobutanoic acid: Part II. Enantioselective biomimetic transamination of 4,4,4-trifluoro-3-oxo-N-[(R)-1-phenylethyl]butanamide. <i>Journal of Fluorine Chemistry</i> , <b>2006</b> , 127, 930-935	2.1	76
261	Highly diastereoselective asymmetric aldol reactions of chiral Ni(II)-complex of glycine with alkyl trifluoromethyl ketones. <i>Tetrahedron: Asymmetry</i> , <b>1996</b> , 7, 1547-1550		76

260	Fluorine-containing drugs approved by the FDA in 2019. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2401-2413	8.1	75
259	Biomimetic Transamination of $\alpha$ -Alkyl $\beta$ -Keto Carboxylic Esters. Chemoenzymatic Approach to the Stereochemically Defined $\alpha$ -Alkyl $\beta$ -Fluoroalkyl $\beta$ -Amino Acids. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 1878-1884	4.2	75
258	Stereoselective Additions of $\beta$ -Lithiated Alkyl-p-tolylsulfoxides to N-PMP(fluoroalkyl)aldimines. An Efficient Approach to Enantiomerically Pure Fluoro Amino Compounds. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 3424-3425	4.2	74
257	Convenient, large-scale asymmetric synthesis of $\beta$ -aryl-substituted $\beta$ -difluoro- $\beta$ -amino acids. <i>Tetrahedron Letters</i> , <b>2002</b> , 43, 5445-5448	2	74
256	Convenient, asymmetric synthesis of enantiomerically pure 2,6?-dimethyltyrosine (DMT) via alkylation of chiral equivalent of nucleophilic glycine. <i>Tetrahedron: Asymmetry</i> , <b>2000</b> , 11, 2917-2925		74
255	Biomimetic base-catalyzed [1,3]-proton shift reaction. A practical synthesis of $\beta$ -fluoroalkyl- $\beta$ -amino acids. <i>Tetrahedron</i> , <b>1996</b> , 52, 6953-6964	2.4	74
254	Gold(I)-catalyzed asymmetric aldol reactions of fluorinated benzaldehydes with an $\beta$ -socyanoacetamide. <i>Tetrahedron: Asymmetry</i> , <b>1994</b> , 5, 1091-1094		74
253	Chemo-enzymatic approach to the synthesis of each of the four isomers of $\alpha$ -alkyl- $\beta$ -fluoroalkyl-substituted $\beta$ -amino acids. <i>Tetrahedron: Asymmetry</i> , <b>1994</b> , 5, 1225-1228		74
252	Efficient asymmetric synthesis of trifluoromethylated $\beta$ -aminophosphonates and their incorporation into dipeptides. <i>Chemical Communications</i> , <b>2012</b> , 48, 11519-21	5.8	73
251	Optical purifications via self-disproportionation of enantiomers by achiral chromatography: case study of a series of $\beta$ -CF <sub>3</sub> -containing secondary alcohols. <i>Chirality</i> , <b>2013</b> , 25, 365-8	2.1	73
250	(S)- or (R)-3-(E-enoyl)-4-phenyl-1,3-oxazolidin-2-ones: ideal Michael acceptors to afford a virtually complete control of simple and face diastereoselectivity in addition reactions with glycine derivatives. <i>Organic Letters</i> , <b>2000</b> , 2, 747-50	6.2	73
249	The effect of substituents on the feasibility of azomethine-azomethine isomerization: New synthetic opportunities for biomimetic transamination. <i>Tetrahedron</i> , <b>1996</b> , 52, 14701-14712	2.4	73
248	Enantioselective Biomimetic Transamination of $\beta$ -Keto Carboxylic Acid Derivatives. An Efficient Asymmetric Synthesis of $\beta$ -(Fluoroalkyl) $\beta$ -Amino Acids. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 7538-7539	4.2	72
247	Virtually complete control of simple and face diastereoselectivity in the Michael addition reactions between achiral equivalents of a nucleophilic glycine and (S)- or (R)-3-(E-enoyl)-4-phenyl-1,3-oxazolidin-2-ones: practical method for preparation of $\beta$ -substituted pyroglutamic acids and prolines. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 4984-96	4.2	72
246	Stereoselective synthesis of conformationally constrained reverse turn dipeptide mimetics. <i>Tetrahedron Letters</i> , <b>2001</b> , 42, 145-148	2	72
245	Efficient asymmetric synthesis of novel 4-substituted and configurationally stable analogues of thalidomide. <i>Organic Letters</i> , <b>2006</b> , 8, 5625-8	6.2	71
244	Application of modular nucleophilic glycine equivalents for truly practical asymmetric synthesis of $\beta$ -substituted pyroglutamic acids. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 1107-1110	2	71
243	Rational design of highly diastereoselective, organic base-catalyzed, room-temperature Michael addition reactions. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 6688-96	4.2	71

- 242 Chemical dynamic kinetic resolution and S/R interconversion of unprotected  $\alpha$ -amino acids. *Angewandte Chemie - International Edition*, **2014**, 53, 12214-7 16.4 70
- 241 Transition Metal/Base-Catalyzed Aldol Reactions of Isocyanoacetic Acid Derivatives with Prochiral Ketones, a Straightforward Approach to Stereochemically Defined  $\alpha,\alpha$ -Disubstituted- $\beta$ -Hydroxy- $\alpha$ -Amino Acids.1 Scope and Limitations. *Journal of Organic Chemistry*, **1997**, 62, 3476-3479 4.2 70
- 240 Chiral sulfoxide controlled asymmetric additions to C=N double bond. An efficient approach to stereochemically defined  $\beta$ -fluoroalkyl amino compounds. *Tetrahedron*, **1998**, 54, 12789-12806 2.4 70
- 239 Biocatalytic resolution of  $\beta$ -fluoroalkyl- $\alpha$ -amino acids. *Tetrahedron: Asymmetry*, **1994**, 5, 1119-1126 69
- 238 Toward design of a practical methodology for stereocontrolled synthesis of  $\beta$ -constrained pyroglutamic acids and related compounds. Virtually complete control of simple diastereoselectivity in the Michael addition reactions of glycine Ni(II) complexes with N-(enoyl)oxazolidinones. *Tetrahedron Letters*, **2000**, 41, 135-139 2 67
- 237 Gold(I)-catalyzed asymmetric aldol reaction of methyl isocyanoacetate with fluorinated benzaldehydes. *Tetrahedron Letters*, **1994**, 35, 2713-2716 2 67
- 236 Self-Disproportionation of Enantiomers of Chiral, Non-Racemic Fluoroorganic Compounds: Role of Fluorine as Enabling Element. *Synthesis*, **2013**, 45, 141-152 2.9 66
- 235 Gold(I)-catalyzed asymmetric aldol reactions of isocyanoacetic acid derivatives with fluoroaryl aldehydes. *Tetrahedron*, **1996**, 52, 245-254 2.4 66
- 234 The self-disproportionation of enantiomers (SDE): a menace or an opportunity?. *Chemical Science*, **2018**, 9, 1718-1739 9.4 65
- 233 Efficient synthesis of serically constrained symmetrically  $\alpha,\alpha$ -disubstituted  $\alpha$ -amino acids under operationally convenient conditions. *Journal of Organic Chemistry*, **2003**, 68, 6208-14 4.2 65
- 232 An efficient asymmetric synthesis of (2S,3S)-3-trifluoromethylpyroglutamic acid. *Tetrahedron Letters*, **1997**, 38, 4903-4904 2 63
- 231 A Practical Asymmetric Synthesis of Enantiomerically Pure 3-Substituted Pyroglutamic Acids and Related Compounds. *Angewandte Chemie - International Edition*, **2000**, 39, 2172-2175 16.4 63
- 230 Michael addition reactions between chiral Ni(II) complex of glycine and 3-(trans-enoyl)oxazolidin-2-ones. A case of electron donor-acceptor attractive interaction-controlled face diastereoselectivity. *Journal of Organic Chemistry*, **2001**, 66, 1339-50 4.2 61
- 229 Synthesis of optically pure (R)- and (S)- $\beta$ -trifluoromethyl-alanine. *Tetrahedron: Asymmetry*, **1994**, 5, 2009-2018 60
- 228 Tailor-Made  $\alpha$ -Amino Acids in the Pharmaceutical Industry: Synthetic Approaches to (1R,2S)-1-Amino-2-vinylcyclopropane-1-carboxylic Acid (Vinyl-ACCA). *European Journal of Organic Chemistry*, **2016**, 2016, 2757-2774 3.2 59
- 227 Asymmetric Michael addition reactions of chiral Ni(II)-complex of glycine with (N-trans-enoyl)oxazolidines: improved reactivity and stereochemical outcome. *Tetrahedron: Asymmetry*, **1999**, 10, 4265-4269 59
- 226 Recent approaches for asymmetric synthesis of  $\alpha$ -amino acids via homologation of Ni(II) complexes. *Amino Acids*, **2017**, 49, 1487-1520 3.5 57
- 225 Recyclable Ligands for the Non-Enzymatic Dynamic Kinetic Resolution of Challenging  $\alpha$ -Amino Acids. *Angewandte Chemie - International Edition*, **2015**, 54, 12918-22 16.4 57

224	Recent Progress in the in situ Detrifluoroacetylative Generation of Fluoro Enolates and Their Reactions with Electrophiles. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 6401-6412	3.2	57
223	Self-disproportionation of enantiomers of isopropyl 3,3,3-(trifluoro)lactate via sublimation: Sublimation rates vs. enantiomeric composition. <i>Journal of Fluorine Chemistry</i> , <b>2010</b> , 131, 535-539	2.1	56
222	Convenient, Large-Scale Asymmetric Synthesis of Enantiomerically Pure trans-Cinnamylglycine and $\beta$ -Alanine. <i>Tetrahedron</i> , <b>2000</b> , 56, 2577-2582	2.4	56
221	Efficient synthesis of 2-aminoindane-2-carboxylic acid via dialkylation of nucleophilic glycine equivalent. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 4973-6	4.2	55
220	New fluorinated chiral synthons. <i>Tetrahedron: Asymmetry</i> , <b>1994</b> , 5, 987-1004		55
219	A Novel Approach to the Synthesis of Symmetric Optically Active 2,5-Dioxopiperazines. <i>Synthesis</i> , <b>1992</b> , 1992, 449-451	2.9	55
218	Generalized access to fluorinated $\beta$ keto amino compounds through asymmetric additions of $\beta$ difluoroenolates to CF <sub>3</sub> -sulfinylimine. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 7836-43	3.9	54
217	Self-disproportionation of enantiomers of 3,3,3-trifluorolactic acid amides via sublimation. <i>Journal of Fluorine Chemistry</i> , <b>2010</b> , 131, 266-269	2.1	52
216	Operationally convenient asymmetric synthesis of (S)- and (R)-3-amino-4,4,4-trifluorobutanoic acid. <i>Journal of Fluorine Chemistry</i> , <b>2006</b> , 127, 924-929	2.1	52
215	Detrifluoroacetylative in Situ Generation of Free 3-Fluoroindolin-2-one-Derived Tertiary Enolates: Design, Synthesis, and Assessment of Reactivity toward Asymmetric Mannich Reactions. <i>Organic Letters</i> , <b>2016</b> , 18, 3270-3	6.2	51
214	Asymmetric synthesis of sterically and electronically demanding linear $\beta$ trifluoromethyl containing amino acids via alkylation of chiral equivalents of nucleophilic glycine and alanine. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 684-7	4.2	51
213	Asymmetric synthesis of quaternary $\beta$ fluoro- $\beta$ keto-amines via detrifluoroacetylative Mannich reactions. <i>Chemical Communications</i> , <b>2015</b> , 51, 9149-52	5.8	50
212	Tailor-Made Amino Acids and Fluorinated Motifs as Prominent Traits in Modern Pharmaceuticals. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 11349-11390	4.8	50
211	Self-disproportionation of enantiomers of non-racemic chiral amine derivatives through achiral chromatography. <i>Tetrahedron</i> , <b>2012</b> , 68, 4013-4017	2.4	50
210	Asymmetric synthesis of enantiomerically pure 4-aminoglutamic acids via methylenedimerization of chiral glycine equivalents with dichloromethane under operationally convenient conditions. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 9159-9162	2	50
209	A unique case of face diastereoselectivity in the Michael addition reactions between Ni(II)-complexes of glycine and chiral 3-(E-enoyl)-1,3-oxazolidin-2-ones. <i>Tetrahedron Letters</i> , <b>2000</b> , 41, 9645-9649	2	49
208	Chemical Aspects of Human and Environmental Overload with Fluorine. <i>Chemical Reviews</i> , <b>2021</b> , 121, 4678-4742	68.1	49
207	Asymmetric Mannich reactions of imidazo[2,1-b]thiazole-derived nucleophiles with (S(S))-N-tert-butanesulfinyl (3,3,3)-trifluoroacetaldimine. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 8018-21	3.9	48

- 206 LDA-promoted asymmetric synthesis of  $\alpha$ -trifluoromethyl- $\beta$ -amino indanone derivatives with virtually complete stereochemical outcome. *RSC Advances*, **2014**, 4, 4763-4768 3.7 47
- 205 N-tert-Butylsulfinyl-3,3,3-trifluoroacetalimine: Versatile Reagent for Asymmetric Synthesis of Trifluoromethyl-Containing Amines and Amino Acids of Pharmaceutical Importance. *European Journal of Organic Chemistry*, **2016**, 2016, 5917-5932 3.2 45
- 204 Efficient asymmetric synthesis of the functionalized pyroglutamate core unit common to oxazolomycin and neooxazolomycin using Michael reaction of nucleophilic glycine Schiff base with  $\alpha,\alpha$ -disubstituted acrylate. *Tetrahedron: Asymmetry*, **2008**, 19, 2789-2795 45
- 203 Chemical approach for interconversion of (S)- and (R)- $\beta$ -amino acids. *Organic and Biomolecular Chemistry*, **2013**, 11, 4503-7 3.9 44
- 202 Catalytic asymmetric synthesis of  $\alpha$ -(trifluoromethyl)benzylamine via cinchonidine derived base-catalyzed biomimetic 1,3-proton shift reaction. *Journal of Fluorine Chemistry*, **2007**, 128, 170-173 2.1 44
- 201 Chemical deracemization and (S) to (R) interconversion of some fluorine-containing  $\beta$ -amino acids. *Journal of Fluorine Chemistry*, **2013**, 152, 114-118 2.1 43
- 200 Asymmetric Carbon-Carbon Bond Formation under Solventless Conditions in Ball Mills. *ChemCatChem*, **2015**, 7, 1265-1269 5.2 42
- 199 A comprehensive examination of the self-disproportionation of enantiomers (SDE) of chiral amides via achiral, laboratory-routine, gravity-driven column chromatography. *RSC Advances*, **2015**, 5, 2988-2993<sup>3-7</sup> 42
- 198 Operationally convenient method for preparation of sulfonamides containing  $\alpha,\alpha$ -difluoro- $\beta$ -amino carbonyl moiety. *Tetrahedron Letters*, **2014**, 55, 5908-5910 2 42
- 197 Chirality-dependent sublimation of  $\alpha$ -(trifluoromethyl)-lactic acid: Relative vapor pressures of racemic, eutectic, and enantiomerically pure forms, and vibrational spectroscopy of isolated (S,S) and (S,R) dimers. *Journal of Fluorine Chemistry*, **2010**, 131, 495-504 2.1 42
- 196 Synthesis of (2S,3S)- $\alpha$ -(trifluoromethyl)- $\beta$ -diamino acid by Mannich addition of glycine Schiff base Ni(II) complexes to N-tert-butylsulfinyl-3,3,3-trifluoroacetalimine. *Journal of Fluorine Chemistry*, **2015**, 171, 67-72 2.1 41
- 195 Self-disproportionation of enantiomers of  $\alpha$ -trifluoromethyl lactic acid amides via sublimation. *Journal of Fluorine Chemistry*, **2010**, 131, 540-544 2.1 41
- 194 An Enzymatic Entry to Enantiopure  $\beta$ -Amino Acids. *Synlett*, **1993**, 1993, 339-341 2.2 41
- 193 Ridge-tile-like chiral topology: synthesis, resolution, and complete chiroptical characterization of enantiomers of edge-sharing binuclear square planar complexes of Ni(II) bearing achiral ligands. *Journal of the American Chemical Society*, **2010**, 132, 10477-83 16.4 39
- 192 Concise and scalable asymmetric synthesis of 5-(1-amino-2,2,2-trifluoroethyl)thiazolo[3,2-b][1,2,4]triazoles. *Organic and Biomolecular Chemistry*, **2014**, 12, 2108-13 3.9 38
- 191 New Generation of Modular Nucleophilic Glycine Equivalents for the General Synthesis of  $\beta$ -Amino Acids. *Synlett*, **2009**, 2009, 704-715 2.2 38
- 190 Efficient, practical synthesis of symmetrically  $\alpha,\alpha$ -disubstituted  $\beta$ -amino acids. *Tetrahedron Letters*, **2003**, 44, 1063-1066 2 37
- 189 Synthesis of trifluoromethyl-containing vicinal diamines by asymmetric decarboxylative mannich addition reactions. *Journal of Organic Chemistry*, **2015**, 80, 3187-94 4.2 36



188	Asymmetric Mannich reaction between (S)-N-(tert-butanesulfinyl)-3,3,3-trifluoroacetalimine and malonic acid derivatives. Stereodivergent synthesis of (R)- and (S)-3-amino-4,4,4-trifluorobutanoic acids. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 1454-62	3.9	36
187	Asymmetric Synthesis of $\beta$ -Amino Acids under Operationally Convenient Conditions. <i>Advanced Synthesis and Catalysis</i> , <b>2014</b> , 356, 2203-2208	5.6	36
186	Synthesis of Fluorinated $\beta$ -Amino Acids. <i>Synthesis</i> , <b>2011</b> , 2011, 3045-3079	2.9	35
185	Asymmetric synthesis of fluorine- and phosphorus-containing analogues of aminoacids. <i>Russian Chemical Reviews</i> , <b>1993</b> , 62, 261-278	6.8	35
184	Asymmetric Synthesis of Organoelement Analogues of Natural Products; Part 12: General Method for the Asymmetric Synthesis of Fluorine-Containing Phenylalanines and $\beta$ -Methyl(phenyl)alanines via Alkylation of the Chiral Nickel(II) Schiff's Base Complexes of Glycine and Alanine. <i>Synthesis</i> , <b>1993</b> , 1993, 117-120	2.9	35
183	Concise Asymmetric Synthesis of $\beta$ -Trifluoromethylated $\beta$ -Diamino Esters through Addition Reactions of Glycine Esters to CF <sub>3</sub> -Sulfinylimine. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 1443-1451 <sup>34</sup>	2.2	34
182	Terminology Related to the Phenomenon $\beta$ -Self-Disproportionation of Enantiomers (SDE). <i>Helvetica Chimica Acta</i> , <b>2014</b> , 97, 1583-1589	2	34
181	A question of policy: should tests for the self-disproportionation of enantiomers (SDE) be mandatory for reports involving scalemates?. <i>Tetrahedron: Asymmetry</i> , <b>2017</b> , 28, 1430-1434		34
180	Design, synthesis, and characterization of binuclear Ni(II) complexes with inherent helical chirality. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 2426-7	16.4	34
179	New generation of nucleophilic glycine equivalents. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 941-944	2	34
178	Unconventional preparation of racemic crystals of isopropyl 3,3,3-trifluoro-2-hydroxypropanoate and their unusual crystallographic structure: the ultimate preference for homochiral intermolecular interactions. <i>Chemical Communications</i> , <b>2013</b> , 49, 373-5	5.8	33
177	Advanced asymmetric synthesis of (1R,2S)-1-amino-2-vinylcyclopropanecarboxylic acid by alkylation/cyclization of newly designed axially chiral Ni(II) complex of glycine Schiff base. <i>Amino Acids</i> , <b>2016</b> , 48, 973-986	3.5	32
176	NH-type of chiral Ni(II) complexes of glycine Schiff base: design, structural evaluation, reactivity and synthetic applications. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 1278-91	3.9	32
175	New asymmetric approach to $\beta$ -trifluoromethyl isoserines. <i>RSC Advances</i> , <b>2013</b> , 3, 6479	3.7	32
174	Remarkable Amplification of the Self-Disproportionation of Enantiomers on Achiral-Phase Chromatography Columns. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 780-783	3.6	31
173	Analysis of crystallographic structures of Ni(ii) complexes of $\beta$ -amino acid Schiff bases: elucidation of the substituent effect on stereochemical preferences. <i>Dalton Transactions</i> , <b>2017</b> , 46, 4191-4198	4.3	30
172	Chemical Dynamic Thermodynamic Resolution and S/R Interconversion of Unprotected Unnatural Tailor-made $\beta$ -Amino Acids. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 9817-30	4.2	30
171	Asymmetric Friedel-Crafts reactions of N-tert-butylsulfinyl-3,3,3-trifluoroacetaldimines: general access to enantiomerically pure indoles containing a 1-amino-2,2,2-trifluoroethyl group. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 7677-81	4.2	30

- 170 Small-Molecule Therapeutics for Ebola Virus (EBOV) Disease Treatment. *European Journal of Organic Chemistry*, **2016**, 2016, 8-16 3.2 30
- 169 Synthesis of bis- $\alpha$ -amino acids through diastereoselective bis-alkylations of chiral Ni(II)-complexes of glycine. *Organic and Biomolecular Chemistry*, **2013**, 11, 4508-15 3.9 29
- 168 Scale-up Synthesis of (R)- and (S)-N-(2-Benzoyl-4-chlorophenyl)-1-(3,4-dichlorobenzyl)pyrrolidine-2-carboxamide Hydrochloride, A Versatile Reagent for the Preparation of Tailor-Made  $\alpha$ - and  $\beta$ -Amino Acids in an Enantiomerically Pure Form. *Organic Process Research and Development*, **2017**, 21, 732-739 3.9 28
- 167 Asymmetric synthesis of  $\alpha$ -(1-oxoisindolin-3-yl)glycine: synthetic and mechanistic challenges. *Chemical Communications*, **2015**, 51, 1624-6 5.8 28
- 166 Asymmetric Synthesis of Tailor-Made Amino Acids Using Chiral Ni(II) Complexes of Schiff Bases. An Update of the Recent Literature. *Molecules*, **2020**, 25, 4.8 28
- 165 Palladium-Catalyzed Asymmetric Allylic Alkylations of Colby Pro-Enolates with MBH Carbonates: Enantioselective Access to Quaternary C-F Oxindoles. *Chemistry - A European Journal*, **2018**, 24, 8994-8998 4.8 28
- 164 The self-disproportionation of the enantiomers (SDE) of methyl n-pentyl sulfoxide via achiral, gravity-driven column chromatography: a case study. *Organic and Biomolecular Chemistry*, **2014**, 12, 4738-4746 3.9 28
- 163 Synthesis of  $\alpha$ -difluoro- $\beta$ -amino carbonyl-containing sulfonamides and related compounds. *Journal of Fluorine Chemistry*, **2015**, 172, 13-21 2.1 28
- 162 Highly Stereoselective aza-Baylis-Hillman Reactions of CF<sub>3</sub>-Sulfinylimines: Straightforward Access to  $\alpha$ -Methylene  $\beta$ -CF<sub>3</sub>  $\beta$ -Amino Acids. *European Journal of Organic Chemistry*, **2014**, 2014, 3072-3075 3.2 27
- 161 Purely Chemical Approach for Preparation of d- $\beta$ -Amino Acids via (S)-to-(R)-Interconversion of Unprotected Tailor-Made  $\beta$ -Amino Acids. *Journal of Organic Chemistry*, **2016**, 81, 3501-8 4.2 27
- 160 The self-disproportionation of enantiomers (SDE) of amino acids and their derivatives. *Amino Acids*, **2019**, 51, 865-889 3.5 26
- 159 Asymmetric synthesis of (1R,2S)-1-amino-2-vinylcyclopropanecarboxylic acid by sequential SN2/N<sup>2</sup> dialkylation of (R)-N-(benzyl)proline-derived glycine Schiff base Ni(II) complex. *RSC Advances*, **2015**, 5, 1051-1058 3.7 25
- 158 Asymmetric Synthesis of Cyclic Fluorinated Amino Acids. *European Journal of Organic Chemistry*, **2018**, 2018, 3688-3692 3.2 25
- 157 Remarkable magnitude of the self-disproportionation of enantiomers (SDE) via achiral chromatography: application to the practical-scale enantiopurification of  $\beta$ -amino acid esters. *Amino Acids*, **2016**, 48, 605-13 3.5 25
- 156 Operationally convenient, efficient asymmetric synthesis of enantiomerically pure 4-aminoglutamic acids via methylene dimerization of chiral glycine equivalents with dichloromethane. *Tetrahedron*, **2006**, 62, 6412-6419 2.4 25
- 155  $\beta$ -Amino Acids in Natural Products **2005**, 19-91 25
- 154 Catalytic cascade aldol-cyclization of tertiary ketone enolates for enantioselective synthesis of keto-esters with a C-F quaternary stereogenic center. *Organic and Biomolecular Chemistry*, **2016**, 14, 7293-303 3.9 25
- 153 Introducing a new radical trifluoromethylation reagent. *Chemical Communications*, **2015**, 51, 5967-70 5.8 24

152	Development of Hamari Ligands for Practical Asymmetric Synthesis of Tailor-Made Amino Acids. <i>ACS Omega</i> , <b>2019</b> , 4, 18942-18947	3.9	24
151	Enantiomeric Enrichments via the Self-Disproportionation of Enantiomers (SDE) by Achiral, Gravity-Driven Column Chromatography: a Case Study Using N-(1-Phenylethyl)acetamide for Optimizing the Enantiomerically Pure Yield and Magnitude of the SDE. <i>Helvetica Chimica Acta</i> , <b>2015</b> , 98, 1147-1159	2	24
150	Alkylations of Chiral Nickel(II) Complexes of Glycine under Phase-Transfer Conditions. <i>Helvetica Chimica Acta</i> , <b>2012</b> , 95, 2672-2679	2	24
149	Organocatalytic Enantioselective Nucleophilic Alkynylation of Allyl Fluorides Affording Chiral Skipped Ene-yne. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6744-8	16.4	24
148	Expedient Asymmetric Synthesis of (S)-2-Amino-4,4,4-trifluorobutanoic Acid via Alkylation of Chiral Nucleophilic Glycine Equivalent. <i>Organic Process Research and Development</i> , <b>2019</b> , 23, 629-634	3.9	24
147	Convenient Asymmetric Synthesis of Fmoc-(S)-6,6,6-Trifluoro-Norleucine. <i>Symmetry</i> , <b>2019</b> , 11, 578	2.7	23
146	The Second-generation of Highly Potent Hepatitis C Virus (HCV) NS3/4A Protease Inhibitors: Evolutionary Design Based on Tailor-made Amino Acids, Synthesis and Major Features of Bio-activity. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 4493-4554	3.3	23
145	New Chiral Reagent for Installation of Pharmacophoric (S)- or (R)-2-(Alkoxyphosphono)-1-amino-2,2-difluoroethyl Groups. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 7036-40	4.8	23
144	Asymmetric synthesis of CB quaternary $\alpha$ -fluoro- $\beta$ -amino-indolin-2-ones via Mannich addition reactions; facets of reactivity, structural generality and stereochemical outcome. <i>RSC Advances</i> , <b>2017</b> , 7, 5679-5683	3.7	22
143	Catalytic asymmetric aldol addition reactions of 3-fluoro-indolinone derived enolates. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 311-315	3.9	22
142	Large-Scale Asymmetric Synthesis of Fmoc-( $\alpha$ )-2-Amino-6,6,6-Trifluorohexanoic Acid. <i>ChemistryOpen</i> , <b>2019</b> , 8, 701-704	2.3	22
141	Practical Method for Preparation of ( $\alpha$ )-2-Amino-5,5,5-trifluoropentanoic Acid via Dynamic Kinetic Resolution. <i>ACS Omega</i> , <b>2019</b> , 4, 11844-11851	3.9	22
140	Assembly of Fluorinated Quaternary Stereogenic Centers through Catalytic Enantioselective Detrifuoroacetylative Aldol Reactions. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6117-6121	3.6	22
139	First principle lattice energy calculations for enantiopure and racemic crystals of $\alpha$ -(trifluoromethyl)lactic acid: Is self-disproportionation of enantiomers controlled by thermodynamic stability of crystals?. <i>Journal of Fluorine Chemistry</i> , <b>2010</b> , 131, 461-466	2.1	22
138	Mannich-Type Addition Reactions between Lithium Derivatives of Benzo[d]thiazoles and N-tert-Butylsulfinyl-3,3,3-trifluoroacetalimine: Convenient Generalized Synthesis of Bis(benzothiazole)s. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 2429-2433	3.2	21
137	Convenient synthesis of fluoroalkyl $\beta$ -amino phosphonates. <i>Journal of Fluorine Chemistry</i> , <b>2011</b> , 132, 834-837	2.1	21
136	Design and synthesis of molecules with switchable chirality via formation and cleavage of metal-ligand coordination bonds. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3512-3	16.4	21
135	Chemistry of detrifuoroacetylative in situ generated fluoro-enolates. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 762-775	3.9	20

- 134 Chiral initiator-induces self-disproportionation of enantiomers via achiral chromatography: application to enantiomer separation of racemate. *Tetrahedron Letters*, **2013**, 54, 5220-5223 2 20
- 133 Asymmetric Synthesis of (2S,3S)- and (2R,3R)- $\alpha$ -Dialkyl- $\beta$ -Amino Acids via Alkylation of Chiral Nickel(II) Complexes of Aliphatic  $\beta$ -Amino Acids with Racemic  $\alpha$ -Alkylbenzyl Bromides. *Synthesis*, **2008**, 2008, 2594-2602 2.9 20
- 132 Cyclic tailor-made amino acids in the design of modern pharmaceuticals. *European Journal of Medicinal Chemistry*, **2020**, 208, 112736 6.8 20
- 131 Detrfluoroacetylative generation and chemistry of fluorine containing tertiary enolates. *Journal of Fluorine Chemistry*, **2017**, 198, 2-9 2.1 19
- 130 Asymmetric synthesis of  $\beta$ -deuterated  $\beta$ -amino acids. *Organic and Biomolecular Chemistry*, **2017**, 15, 6978-6983 3.9 19
- 129 Chemical Kinetic Resolution of Unprotected  $\beta$ -Substituted  $\beta$ -Amino Acids Using Recyclable Chiral Ligands. *Angewandte Chemie*, **2014**, 126, 8017-8020 3.6 19
- 128 Development and Evaluation of Different Methods for Preparation of Fluorine-Containing (R)- and (S)-N-tert-Butanesulfinylaldimines. *ChemistrySelect*, **2016**, 1, 4435-4439 1.8 19
- 127 Ni-catalyzed asymmetric decarboxylative Mannich reaction for the synthesis of  $\beta$ -trifluoromethyl- $\beta$ -amino ketones. *RSC Advances*, **2015**, 5, 26811-26814 3.7 18
- 126 Chemical Dynamic Kinetic Resolution and S/R Interconversion of Unprotected  $\beta$ -Amino Acids. *Angewandte Chemie*, **2014**, 126, 12410-12413 3.6 18
- 125 Asymmetric Synthesis of Aromatic and Heteroaromatic  $\beta$ -Amino Acids Using a Recyclable Axially Chiral Ligand. *European Journal of Organic Chemistry*, **2016**, 2016, 999-1006 3.2 18
- 124 Asymmetric Synthesis of Quaternary  $\beta$ -Perfluorophenyl- $\beta$ -amino-indolin-2-ones. *European Journal of Organic Chemistry*, **2017**, 2017, 1540-1546 3.2 17
- 123 Catalytic Enantioselective Michael Addition Reactions of Tertiary Enolates Generated by Detrfluoroacetylation. *Chemistry - A European Journal*, **2017**, 23, 11221-11225 4.8 17
- 122 Self-disproportionation of Enantiomers of Enantiomerically Enriched Compounds. *Topics in Current Chemistry*, **2013**, 341, 301-39 17
- 121 Catalytic Enantioselective Cyano-Trifluoromethylation of Styrenes. *ChemistrySelect*, **2017**, 2, 1129-1132 1.8 16
- 120 Concise asymmetric synthesis of configurationally stable 4-trifluoromethyl thalidomide. *Future Medicinal Chemistry*, **2009**, 1, 897-908 4.1 16
- 119 Tailor-made amino acid-derived pharmaceuticals approved by the FDA in 2019. *Amino Acids*, **2020**, 52, 1227-1261 3.5 16
- 118 Self-disproportionation of enantiomers via achiral gravity-driven column chromatography: A case study of N-acyl- $\beta$ -phenylethylamines. *Journal of Chromatography A*, **2016**, 1467, 270-278 4.5 16
- 117 Large-Scale Synthesis of the Glycine Schiff Base Ni(II) Complex Derived from (S)- and (R)-N-(2-Benzoyl-4-chlorophenyl)-1-[(3,4-dichlorophenyl)methyl]-2-pyrrolidinecarboxamide. *Organic Process Research and Development*, **2020**, 24, 294-300 3.9 15

116	Self-disproportionation of Enantiomers (SDE) of Chiral Nonracemic Amides via Achiral Chromatography. <i>Israel Journal of Chemistry</i> , <b>2016</b> , 56, 977-989	3.4	15
115	Second-order asymmetric transformation and its application for the practical synthesis of $\alpha$ -amino acids. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 4968-4972	3.9	15
114	Chemoselective S2' Allylations of Detrifluoroacetylately In Situ Generated 3-Fluoroindolin-2-one-Derived Tertiary Enolates with Morita-Baylis-Hillman Carbonates. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 13663-13670	4.2	15
113	Theoretical investigations into the enantiomeric and racemic forms of $\alpha$ -(trifluoromethyl)lactic acid. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 811-7	3.6	15
112	Recent progress in the application of fluorinated chiral sulfinimine reagents. <i>Journal of Fluorine Chemistry</i> , <b>2018</b> , 216, 57-70	2.1	15
111	Synthesis of chiral (tetrazolyl)methyl-containing acrylates via silicon-induced organocatalytic kinetic resolution of Morita-Baylis-Hillman fluorides. <i>Chemical Communications</i> , <b>2017</b> , 53, 1128-1131	5.8	14
110	The self-disproportionation of enantiomers (SDE): The effect of scaling down, potential problems versus prospective applications, possible new occurrences, and unrealized opportunities?. <i>Electrophoresis</i> , <b>2019</b> , 40, 1869-1880	3.6	14
109	Asymmetric Synthesis of 4,4-(Difluoro)glutamic Acid via Chiral Ni(II)-Complexes of Dehydroalanine Schiff Bases. Effect of the Chiral Ligands Structure on the Stereochemical Outcome. <i>ChemistryOpen</i> , <b>2020</b> , 9, 93-96	2.3	14
108	Biological evaluation of both enantiomers of fluoro-thalidomide using human myeloma cell line H929 and others. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182152	3.7	14
107	Self-disproportionation of enantiomers (SDE) of chiral sulfur-containing compounds via achiral chromatography. <i>Arkivoc</i> , <b>2017</b> , 2017, 557-578	0.9	14
106	Recyclable Ligands for the Non-Enzymatic Dynamic Kinetic Resolution of Challenging $\alpha$ -Amino Acids. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13110-13114	3.6	14
105	Fluorine-containing pharmaceuticals approved by the FDA in 2020: Synthesis and biological activity. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	14
104	Diastereoselective $\alpha$ -Alkylation of Metallo Enamines Generated from N-C Axially Chiral Mebroqualone Derivatives. <i>Organic Letters</i> , <b>2017</b> , 19, 2650-2653	6.2	13
103	Diastereoselective Regiodivergent Mannich Versus Tandem Mannich-Cyclization Reactions. <i>Advanced Synthesis and Catalysis</i> , <b>2017</b> , 359, 4267-4273	5.6	13
102	Asymmetric Synthesis of (2S,3S)- $\alpha$ -(1-Oxoisoindolin-3-yl)glycines under Low-Basicity "Kinetic" Control. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 11275-80	4.2	13
101	Chiral additive induced self-disproportionation of enantiomers under MPLC conditions: preparation of enantiomerically pure samples of 1-(aryl)ethylamines from racemates. <i>Tetrahedron: Asymmetry</i> , <b>2016</b> , 27, 317-321		13
100	General asymmetric synthesis of 2,2,2-trifluoro-1-(1H-indol-3- and -2-yl)ethanamines. <i>Journal of Fluorine Chemistry</i> , <b>2015</b> , 170, 57-65	2.1	13
99	Design and Synthesis of a New Generation of $\alpha$ -H $\beta$ Ni(II) Complexes of Glycine Schiff Bases and their Unprecedented C-H vs. N-H Chemoselectivity in Alkyl Halide Alkylations and Michael Addition Reactions. <i>Synlett</i> , <b>2006</b> , 2006, 0533-0538	2.2	13

98	The unusual action of (R,S)-2-hydroxy-2-trifluoromethyl-trans-n-octadec-4-enoic acid on 5-lipoxygenase from potato tubers. <i>FEBS Journal</i> , <b>1991</b> , 199, 153-5		13
97	Tandem Alkylation-Second-Order Asymmetric Transformation Protocol for the Preparation of Phenylalanine-Type Tailor-Made $\beta$ -Amino Acids. <i>ACS Omega</i> , <b>2018</b> , 3, 9729-9737	3.9	12
96	Synthesis and stereochemical assignments of diastereomeric Ni(II) complexes of glycine Schiff base with (R)-2-(N-{2-[N-alkyl-N-(1-phenylethyl)amino]acetyl}amino)benzophenone; a case of configurationally stable stereogenic nitrogen. <i>Beilstein Journal of Organic Chemistry</i> , <b>2014</b> , 10, 442-8	2.5	12
95	Possible Case of Halogen Bond-Driven Self-Disproportionation of Enantiomers (SDE) via Achiral Chromatography. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14631-14638	4.8	12
94	Self-Disproportionation of Enantiomers (SDE) via achiral gravity-driven column chromatography of N-fluoroacyl-1-phenylethylamines. <i>Journal of Fluorine Chemistry</i> , <b>2017</b> , 196, 37-43	2.1	12
93	Detrfluoroacetylative in Situ Generated Cyclic Fluorinated Enolates for the Preparation of Compounds Featuring a C-F Stereogenic Center. <i>ACS Omega</i> , <b>2019</b> , 4, 19505-19512	3.9	12
92	Operationally Convenient and Scalable Asymmetric Synthesis of (2S)- and (2R)- $\beta$ -(Methyl)cysteine Derivatives through Alkylation of Chiral Alanine Schiff Base Ni(II) Complexes. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 1931-1939	3.2	11
91	Configurationally Stable (S)- and (R)- $\beta$ -Methylproline-Derived Ligands for the Direct Chemical Resolution of Free Unprotected $\beta$ -Amino Acids. <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 1821-1832	3.2	11
90	Design and synthesis of (S)- and (R)- $\beta$ -(phenyl)ethylamine-derived NH-type ligands and their application for the chemical resolution of $\beta$ -amino acids. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 6239-49	3.9	11
89	Inexpensive chemical method for preparation of enantiomerically pure phenylalanine. <i>Amino Acids</i> , <b>2014</b> , 46, 945-52	3.5	11
88	Detrfluoroacetylative cascade reactions of bicyclic fluoro-enolates with ortho-phthalaldehyde: Aspects of reactivity, diastereo- and enantioselectivity. <i>Journal of Fluorine Chemistry</i> , <b>2017</b> , 196, 14-23	2.1	10
87	The self-disproportionation of enantiomers (SDE) via column chromatography of $\beta$ -amino- $\beta$ -difluorophosphonic acid derivatives. <i>Amino Acids</i> , <b>2019</b> , 51, 1377-1385	3.5	10
86	Synthesis of Ahod Moiety of Ralstonin A Using Amino Acid Schiff Base Ni(II)-Complex Chemistry. <i>Helvetica Chimica Acta</i> , <b>2020</b> , 103, e2000077	2	10
85	The self-disproportionation of enantiomers (SDE) of $\beta$ -amino acid derivatives: facets of steric and electronic properties. <i>Amino Acids</i> , <b>2019</b> , 51, 283-294	3.5	10
84	Asymmetric Vinylogous Mannich-Type Addition of $\beta$ -Dicyanoalkenes to $\beta$ -Fluoroalkyl Sulfinyl Imines. <i>Advanced Synthesis and Catalysis</i> , <b>2018</b> , 360, 366-373	5.6	10
83	Tailor-made amino acids in the design of small-molecule blockbuster drugs. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 220, 113448	6.8	10
82	Solvent-free, uncatalyzed asymmetric "ene" reactions of N-tert-butylsulfinyl-3,3,3-trifluoroacetaldimines: a general approach to enantiomerically pure $\beta$ -(trifluoromethyl)tryptamines. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 3930-3937	3.9	9
81	$\beta$ -Amino- $\beta$ -difluoro- $\beta$ -phosphonoglutamic Acid Derivatives: An Unexplored, Multifaceted Structural Type of Tailor-Made $\beta$ -Amino Acids. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 3451-3456	2.2	9

80	Perfluoro-3-ethyl-2,4-dimethyl-3-pentyl persistent radical: A new reagent for direct, metal-free radical trifluoromethylation and polymer initiation. <i>Journal of Fluorine Chemistry</i> , <b>2019</b> , 227, 109370	2.1	9
79	Chiral N(H)-tBu and N(H)-Ad NiII Complexes of Glycine Schiff Bases: Deduction of a Mode of Kinetic Diastereoselectivity. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 4309-4314	3.2	9
78	Generalized Approach to Asymmetric Synthesis of $\beta$ -Substituted $\alpha$ -Amino Acids Bearing CHF <sub>2</sub> , CBrF <sub>2</sub> , and CClF <sub>2</sub> Groups. <i>Asian Journal of Organic Chemistry</i> , <b>2015</b> , 4, 1020-1024	3	9
77	First Experimental Evidence of an Intramolecular H Bond between Aliphatic Cl and Aromatic C $\equiv$ N. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 33-36	3.5	9
76	Large Scale Synthesis of Chiral (3Z,5Z)-2,7-Dihydro-1H-azepine-Derived Hamari Ligand for General Asymmetric Synthesis of Tailor-Made Amino Acids. <i>Organic Process Research and Development</i> , <b>2019</b> , 23, 619-628	3.9	9
75	Mannich-type addition of 1,3-dicarbonyl compounds to chiral tert-butanesulfinyltrifluoroacetaldimines. Mechanistic aspects and chiroptical studies. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 8742-8750	3.9	9
74	Mediator and Additive Free Trifluoromethyl-Fluorination of Terminal Alkenes by Persistent Perfluoroalkyl Radical. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 4417-4421	3.2	8
73	Asymmetric synthesis of $\alpha$ -trifluoromethyl- $\beta$ -amino acids, including highly sterically constrained $\beta$ -dialkyl derivatives. <i>Tetrahedron</i> , <b>2015</b> , 71, 9550-9556	2.4	8
72	Unusual reactivity of fluoro-enolates with dialkyl azodicarboxylates: Synthesis of isatin-hydrazones. <i>Journal of Fluorine Chemistry</i> , <b>2017</b> , 203, 99-103	2.1	8
71	Preparative Method for Asymmetric Synthesis of (S)-2-Amino-4,4,4-trifluorobutanoic Acid. <i>Molecules</i> , <b>2019</b> , 24,	4.8	8
70	Kitamura Electrophilic Fluorination Using HF as a Source of Fluorine. <i>Molecules</i> , <b>2020</b> , 25,	4.8	7
69	Which Stereoinductor Is Better for Asymmetric Functionalization of $\beta$ -Amino Acids in a Nickel(II) Coordination Environment? Experimental and DFT Considerations. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 7074-7082	4.8	7
68	Michael addition reactions of chiral glycine Schiff base Ni (II)-complex with 1-(1-phenylsulfonyl)benzene. <i>Chirality</i> , <b>2020</b> , 32, 885-893	2.1	7
67	Synthesis of polysubstituted $\beta$ -amino cyclohexane carboxylic acids via Diels-Alder reaction using Ni(II)-complex stabilized $\beta$ -alanine derived dienes. <i>Amino Acids</i> , <b>2013</b> , 44, 791-6	3.5	7
66	Asymmetric Synthesis of $\beta$ -Substituted- $\beta$ -Amino Phosphonates and Phosphinates and $\beta$ -Amino Sulfur Analogs <b>2005</b> , 277-318		7
65	Recent Advances in the Synthesis of $\beta$ -Hydroxy- $\beta$ -Amino Acids and Their Use in the SAR Studies of Taxane Anticancer Agents <b>2005</b> , 447-476		7
64	Preparation of Enantiopure $\beta$ -Amino Acids by Homologation of $\beta$ -Amino Acids <b>2005</b> , 93-106		7
63	Recommended Tests for the Self-Disproportionation of Enantiomers (SDE) to Ensure Accurate Reporting of the Stereochemical Outcome of Enantioselective Reactions. <i>Molecules</i> , <b>2021</b> , 26,	4.8	7

62	Asymmetric synthesis of (2S,3S)-3-Me-glutamine and (R)-allo-threonine derivatives proper for solid-phase peptide coupling. <i>Amino Acids</i> , <b>2019</b> , 51, 419-432	3.5	7
61	Asymmetric synthesis of the two enantiomers of $\beta$ -phosphorus-containing $\alpha$ -amino acids via hydrophosphinylation and hydrophosphonylation of chiral Ni(II)-complexes. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 2190-2195	5.2	7
60	Convenient synthesis of racemic 4,4-difluoro glutamic acid derivatives via Michael-type additions of Ni(II)-complex of dehydroalanine Schiff bases. <i>Journal of Fluorine Chemistry</i> , <b>2019</b> , 227, 109376	2.1	6
59	Optical Resolution of Rimantadine. <i>Molecules</i> , <b>2019</b> , 24,	4.8	6
58	Asymmetric Synthesis of Fluorinated Monoterpenic Alkaloid Derivatives from Chiral Fluoroalkyl Aldimines via the Pauson-Khand Reaction. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 1378-1384	5.6	6
57	Asymmetric Catalysis in Enantioselective Synthesis of $\beta$ -Amino Acids <b>2005</b> , 107-115		6
56	Using Constrained $\beta$ -Amino Acid Residues to Control $\beta$ -Peptide Shape and Function <b>2005</b> , 527-591		6
55	Recent Developments in the Asymmetric Detrifluoroacetylative Reactions of in situ Generated Mono-Fluorinated Enolates. <i>Current Organic Chemistry</i> , <b>2020</b> , 24, 2181-2191	1.7	6
54	Organocatalytic Enantioselective Nucleophilic Alkynylation of Allyl Fluorides Affording Chiral Skipped Ene-yne. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 6856-6860	3.6	6
53	Catalytic enantioselective Michael addition reactions between in situ detrifluoroacetylative generated 3-fluorooxindole-derived enolates and 1-(1-(phenylsulfonyl)vinylsulfonyl)benzene. <i>Journal of Fluorine Chemistry</i> , <b>2019</b> , 219, 32-38	2.1	6
52	Asymmetric Synthesis of Phosphonic Analogs of $\beta$ -Amino Acids <b>2005</b> , 261-276		5
51	Synthesis of $\beta$ -Amino Acids and Their Derivatives from $\beta$ -Lactams: Update <b>2005</b> , 477-495		5
50	Catalytic Enantioselective Mannich Reactions <b>2005</b> , 139-157		5
49	Asymmetric synthesis of (S)- $\beta$ -octylglycine via alkylation of Ni(II) complex of chiral glycine Schiff base. <i>Chirality</i> , <b>2020</b> , 32, 1354-1360	2.1	5
48	Asymmetric synthesis of (S)-3-methyleneglutamic acid and its N-Fmoc derivative via Michael addition-elimination reaction of chiral glycine Ni (II) complex with enol tosylates. <i>Chirality</i> , <b>2021</b> , 33, 115-123	2.1	5
47	Asymmetric Vinylogous Mukaiyama-Mannich Reactions of Heterocyclic Siloxy Dienes with Ellman's Fluorinated Aldimines. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 3860-3867	5.6	4
46	Effect of substituents on the configurational stability of the stereogenic nitrogen in metal(II) complexes of $\beta$ -amino acid Schiff bases. <i>Chirality</i> , <b>2019</b> , 31, 401-409	2.1	4
45	Asymmetric synthesis of amino-benzothiazol derivatives by additions of 2-lithiated benzothiazoles to (S)-N-t-butylsulfinyl-ketimines. <i>RSC Advances</i> , <b>2015</b> , 5, 3491-3497	3.7	4



44	The Ruthenium-Catalyzed Domino Cross Enyne Metathesis/Ring-Closing Metathesis in the Synthesis of Enantioenriched Nitrogen-Containing Heterocycles. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 4193-4207	3.2	4
43	Solvent-triggered stereoselectivity of cyclopropanation of amino acids in the Ni(II) chiral coordination environment. <i>Dalton Transactions</i> , <b>2020</b> , 49, 8636-8644	4.3	4
42	Axially chiral Ni(II) complexes of amino acids: Separation of enantiomers and kinetics of racemization. <i>Chirality</i> , <b>2018</b> , 30, 498-508	2.1	4
41	Design and synthesis of quasi-diastereomeric molecules with unchanging central, regenerating axial and switchable helical chirality via cleavage and formation of Ni(II)-O and Ni(II)-N coordination bonds. <i>Beilstein Journal of Organic Chemistry</i> , <b>2012</b> , 8, 1920-8	2.5	4
40	Reply to the Comment on Theoretical investigations into the enantiomeric and racemic forms of (trifluoromethyl)lactic acid by M. A. Suhm and M. Albrecht, <i>Phys. Chem. Chem. Phys.</i> , 2011, 13, DOI: 10.1039/c0cp02455d. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 4161	3.6	4
39	Enantioselective Synthesis of Amino Acids via Stereoselective Hydrogenation of Aminoacrylic Acid Derivatives <b>2005</b> , 159-179		4
38	Advances in the Development of Trifluoromethoxylation Reagents. <i>Symmetry</i> , <b>2021</b> , 13, 2380	2.7	4
37	Potentially Mistaking Enantiomers for Different Compounds Due to the Self-Induced Diastereomeric Anisochronism (SIDA) Phenomenon. <i>Symmetry</i> , <b>2020</b> , 12, 1106	2.7	4
36	Asymmetric Synthesis of N-Fmoc-(S)-7-aza-tryptophan via Alkylation of Chiral Nucleophilic Glycine Equivalent. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 2962-2965	3.2	4
35	Chromatographic approach to study the configurational stability of Ni(II) complexes of amino-acid Schiff bases possessing stereogenic nitrogen. <i>Chirality</i> , <b>2019</b> , 31, 328-335	2.1	3
34	Chirality-dependent halogen bonds in axially chiral quinazolin-4-one derivatives bearing ortho-halophenyl groups. <i>CrystEngComm</i> , <b>2019</b> , 21, 3385-3389	3.3	3
33	Enantioselective Synthesis of Conformationally Constrained Amino Acids <b>2005</b> , 117-138		3
32	New pharmaceuticals approved by FDA in 2020: Small-molecule drugs derived from amino acids and related compounds. <i>Chirality</i> , <b>2021</b> , 34, 86	2.1	3
31	Electrochemical Approaches for Preparation of Tailor-Made Amino Acids. <i>Chinese Journal of Organic Chemistry</i> , <b>2021</b> , 41, 3034	3	3
30	Internal chirality descriptors iR and iS and ire and isi. A proposed notation to extend the usefulness of the R/S system by retaining the sense of stereochemistry in cases of ligand ranking changes. <i>Chirality</i> , <b>2018</b> , 30, 1054-1066	2.1	3
29	Design, Synthesis, and Evaluation of N-(tert-Butyl)-Alanine-Derived Chiral Ligands [Aspects of Reactivity and Diastereoselectivity in the Reactions with Amino Acids. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 3211-3221	3.2	2
28	Electrophilic fluorination using PhIO/HF <sub>3</sub> THF reagent. <i>Journal of Fluorine Chemistry</i> , <b>2020</b> , 240, 109670	2.1	2
27	Asymmetric Mannich reactions of (S)-butylsulfinyl-3,3,3-trifluoroacetaldimines with yne nucleophiles. <i>Beilstein Journal of Organic Chemistry</i> , <b>2020</b> , 16, 2671-2678	2.5	2

26	Flurbiprofen: A Study of the Behavior of the Scalemate by Chromatography, Sublimation, and NMR. <i>Symmetry</i> , <b>2021</b> , 13, 543	2.7	2
25	Stereoselective arylthiolation of dehydroalanine in the NiII coordination environment: the stereoinductor of choice. <i>Mendeleev Communications</i> , <b>2021</b> , 31, 337-340	1.9	2
24	Frontispiece: Fluorine-Containing Drugs Approved by the FDA in 2018. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25,	4.8	1
23	Organocatalytic Approaches to Enantioenriched $\alpha$ -Amino Acids <b>2005</b> , 195-213		1
22	Structural Types of Relevant $\alpha$ -Amino Acid Targets <b>2005</b> , 1-17		1
21	Recent Advances on the Halo- and Cyano-Trifluoromethylation of Alkenes and Alkynes. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
20	Tailor-Made Amino Acids in Pharmaceutical Industry: Synthetic Approaches to Aza-Tryptophan Derivatives.. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 17510-17528	4.8	1
19	Frontispiece: Tailor-Made Amino Acids and Fluorinated Motifs as Prominent Traits in Modern Pharmaceuticals. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26,	4.8	1
18	Asymmetric Synthesis of $\beta$ -Difluorinated $\alpha$ -Amino Sulfones through Detrifluoroacetylative Mannich Reactions. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 3035-3038	3.2	1
17	Synthesis of Isothiazoles through $\gamma$ -Propargylsulfanylamine: TFA-Promoted Sulfinyl Group-Involved Intramolecular Cyclization. <i>Organic Letters</i> , <b>2021</b> , 23, 6941-6945	6.2	1
16	Successful trifluoromethoxy-containing pharmaceuticals and agrochemicals. <i>Journal of Fluorine Chemistry</i> , <b>2022</b> , 257-258, 109978	2.1	1
15	Stereoselective Synthesis of Fluorine-Containing $\alpha$ -Amino Acids <b>2005</b> , 319-350		0
14	Preparation of Enantiopure $\alpha$ -Amino Acids via Enantioselective Conjugate Addition <b>2005</b> , 377-395		0
13	Enantioselective Synthesis of $\alpha$ -Amino Acids via Conjugate Addition to $\beta$ -Unsaturated Carbonyl Compounds <b>2005</b> , 351-376		0
12	Multiple-Component Condensation Methods for Preparation of Combinatorial Libraries of $\alpha$ -Amino Carbonyl Derivatives <b>2005</b> , 497-525		0
11	Enantioselective Synthesis of Novel $\alpha$ -Amino Acids <b>2005</b> , 241-260		0
10	Asymmetric Synthesis of $\alpha$ -Amino Acids by Enolate Additions to tert-Butanesulfinyl Imines <b>2005</b> , 181-194		0
9	Asymmetric Synthesis of Cyclic $\alpha$ -Amino Acids via Cycloaddition Reactions <b>2005</b> , 215-240		0

- 8 Stereoselective Synthesis of  $\beta$ -Amino Acids via Radical Reactions **2005**, 415-446 0
- 7  $\alpha$ -Amino Acids with Proteinogenic Side Chains and Corresponding Peptides: Synthesis, Secondary Structure, and Biological Activity **2005**, 593-617 0
- 6 Biocatalytic Entry to Enantiomerically Pure  $\beta$ -Amino Acids **2005**, 397-414 0
- 5 Aldol Addition-Cyclization Reaction Cascade on a Platform of Chiral Ni(II) Complex of Glycine Schiff Base. *Ukrainica Bioorganica Acta*, **2021**, 16, 3-9 0.3
- 4 Stereoselective arylthiolation of dehydroalanine in the Ni(II) coordination environment: the stereoinductor of choice. *Mendeleev Communications*, **2021**, 31, 337-340 1.9
- 3 Fluorine-Containing Pharmaceuticals and the Phenomenon of the Self-Disproportionation of Enantiomers **2019**, 321-355
- 2 The Self-Disproportionation of Enantiomers (SDE): Fluorine as an SDE-Phoric Substituent **2021**, 281-306
- 1 Comparative study of different chiral ligands for dynamic kinetic resolution of amino acids. *Chirality*, **2021**, 33, 685-702 2.1