

Oliver Trapp

List of Publications by Year in descending order

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187
papers

5,649
citations

66343

42
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118850

62
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225
all docs

225
docs citations

225
times ranked

4696
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of enantiomerization barriers by dynamic and stopped-flow chromatographic methods. <i>Chirality</i> , 2001, 13, 403-414.	2.6	208
2	Unified Equation for Access to Rate Constants of First-Order Reactions in Dynamic and On-Column Reaction Chromatography. <i>Analytical Chemistry</i> , 2006, 78, 189-198.	6.5	153
3	Stereointegrity of Tröger's Base: Gas-Chromatographic Determination of the Enantiomerization Barrier. <i>Journal of the American Chemical Society</i> , 2000, 122, 1424-1430.	13.7	128
4	Surface Patterning via Thiol-Ene Click Chemistry: An Extremely Fast and Versatile Approach to Superhydrophilic/Superhydrophobic Micropatterns. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400269.	3.7	127
5	Imaging the Absolute Configuration of a Chiral Epoxide in the Gas Phase. <i>Science</i> , 2013, 342, 1084-1086.	12.6	118
6	Direct Asymmetric Ruthenium-Catalyzed Reductive Amination of Alkyl Aryl Ketones with Ammonia and Hydrogen. <i>Journal of the American Chemical Society</i> , 2018, 140, 355-361.	13.7	118
7	Quasi-Homogeneous Methanol Synthesis Over Highly Active Copper Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7978-7981.	13.8	117
8	High-Throughput Screening of Catalysts by Combining Reaction and Analysis. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7307-7310.	13.8	115
9	ChromWin – A computer program for the determination of enantiomerization barriers in dynamic chromatography. <i>Computers & Chemistry</i> , 2001, 25, 187-195.	1.2	89
10	Direct Synthesis of Primary Amines via Ruthenium-Catalysed Amination of Ketones with Ammonia and Hydrogen. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 358-363.	4.3	87
11	Reactive Superhydrophobic Surface and Its Photoinduced Disulfide-ene and Thiol-ene (Bio)functionalization. <i>Nano Letters</i> , 2015, 15, 675-681.	9.1	86
12	Fast and precise access to enantiomerization rate constants in dynamic chromatography. <i>Chirality</i> , 2006, 18, 489-497.	2.6	80
13	Gas chromatographic high-throughput screening techniques in catalysis. <i>Journal of Chromatography A</i> , 2008, 1184, 160-190.	3.7	78
14	Approximation function for the direct calculation of rate constants and Gibbs activation energies of enantiomerization of racemic mixtures from chromatographic parameters in dynamic chromatography. <i>Journal of Chromatography A</i> , 2001, 911, 167-175.	3.7	77
15	Selectivity issues in targeted metabolomics: Separation of phosphorylated carbohydrate isomers by mixed-mode hydrophilic interaction/weak anion exchange chromatography. <i>Journal of Separation Science</i> , 2010, 33, 3273-3282.	2.5	76
16	Temperature-Controlled Bidirectional Enantioselectivity in a Dynamic Catalyst for Asymmetric Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3580-3586.	13.8	75
17	Dynamic Micellar Electrokinetic Chromatography. Determination of the Enantiomerization Barriers of Oxazepam, Temazepam, and Lorazepam. <i>Analytical Chemistry</i> , 2000, 72, 2758-2764.	6.5	73
18	A novel software tool for high throughput measurements of interconversion barriers: DCXplorer. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 875, 42-47.	2.3	70

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19	Discrimination of Organic Acids Using a Three Molecule Array Based upon Cruciform Fluorophores. <i>Journal of the American Chemical Society</i> , 2011, 133, 7716-7718.	13.7	70
20	Boosting the Throughput of Separation Techniques by "Multiplexing". <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5609-5613.	13.8	68
21	Direct Prebiotic Pathway to DNA Nucleosides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9944-9947.	13.8	68
22	Enantioselective stopped-flow multidimensional gas chromatography. <i>Journal of Chromatography A</i> , 2000, 892, 487-498.	3.7	66
23	Novel direct access to enantiomerization barriers from peak profiles in enantioselective dynamic chromatography: Enantiomerization of dialkyl-1,3-allenedicarboxylates. <i>Chirality</i> , 2002, 14, 465-470.	2.6	64
24	Stereoisomeric Separation of Flavanones and Flavanone-7-O-glycosides by Capillary Electrophoresis and Determination of Interconversion Barriers. <i>Analytical Chemistry</i> , 2006, 78, 3424-3433.	6.5	64
25	High-Throughput Kinetic Study of Hydrogenation over Palladium Nanoparticles: Combination of Reaction and Analysis. <i>Chemistry - A European Journal</i> , 2008, 14, 4657-4666.	3.3	64
26	Distinguishing Alternative Reaction Pathways by Single-Molecule Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6322-6325.	13.8	62
27	UV-Induced Tetrazole-Thiol Reaction for Polymer Conjugation and Surface Functionalization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8732-8735.	13.8	58
28	Selective Ruthenium-Catalyzed Transformation of Carbon Dioxide: An Alternative Approach toward Formaldehyde. <i>Journal of the American Chemical Society</i> , 2019, 141, 334-341.	13.7	57
29	Effects of the Stationary Phase and the Solvent on the Stereodynamics of biphep Ligands Quantified by Dynamic Three-Column HPLC. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2985-2988.	13.8	55
30	Breakage of cephalomedullary nailing in operative treatment of trochanteric and subtrochanteric femoral fractures. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2015, 135, 179-185.	2.4	55
31	By-design enantioselective self-amplification based on non-covalent product-catalyst interactions. <i>Nature Chemistry</i> , 2017, 9, 179-187.	13.6	53
32	Six-Membered, Chiral NHCs Derived from Camphor: Structure-Reactivity Relationship in Asymmetric Oxindole Synthesis. <i>Organometallics</i> , 2012, 31, 1127-1132.	2.3	52
33	Synthesis of Adipic Acid, 1,6-Hexanediamine, and 1,6-Hexanediol via Double-Selective Hydroformylation of 1,3-Butadiene. <i>ACS Catalysis</i> , 2016, 6, 2802-2810.	11.2	52
34	Synthesis, NMR Spectroscopic Characterization and Polysiloxane-Based Immobilization of the Three Regioisomeric Mono-octenylpermethyl- β -cyclodextrins and Their Application in Enantioselective GC. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 3273-3287.	2.4	51
35	New Chiral and Flexible Metal-Organic Framework with a Bifunctional Spiro Linker and Zn_4O -Nodes. <i>Inorganic Chemistry</i> , 2010, 49, 4440-4446.	4.0	51
36	The Control of the Nitrogen Inversion in Alkyl-Substituted Diaziridines. <i>Chemistry - A European Journal</i> , 2004, 10, 951-957.	3.3	46

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37	Mineral-mediated carbohydrate synthesis by mechanical forces in a primordial geochemical setting. <i>Communications Chemistry</i> , 2020, 3, .	4.5	46
38	Probing the Stereointegrity of Tröger's Base – A Dynamic Electrokinetic Chromatographic Study. <i>Chemistry - A European Journal</i> , 2002, 8, 3629.	3.3	45
39	Palladium- and Nickel- Catalyzed Synthesis of Sodium Acrylate from Ethylene, CO ₂ , and Phenolate Bases: Optimization of the Catalytic System for a Potential Process. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7122-7130.	2.4	45
40	Continuous Two-Channel Time-of-Flight Mass Spectrometric Detection of Electrosprayed Ions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6541-6544.	13.8	44
41	Pronounced Steric Hindrance for Nitrogen Inversion in 1,3,4-Oxadiazolidines. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2938-2940.	13.8	43
42	Determination of the enantiomerization barrier of thalidomide by dynamic capillary electrokinetic chromatography. <i>Electrophoresis</i> , 2001, 22, 3185-3190.	2.4	42
43	The unified equation for the evaluation of first order reactions in dynamic electrophoresis. <i>Electrophoresis</i> , 2006, 27, 534-541.	2.4	40
44	Enhanced Activity and Recyclability of Palladium Complexes in the Catalytic Synthesis of Sodium Acrylate from Carbon Dioxide and Ethylene. <i>ChemCatChem</i> , 2017, 9, 2269-2274.	3.7	40
45	Determination of Interconversion Barriers by Dynamic Gas Chromatography: Epimerization of Chalcogran. <i>Chemistry - A European Journal</i> , 2001, 7, 1495-1502.	3.3	39
46	Aldehyde Cruciforms: Dosimeters for Primary and Secondary Amines. <i>Chemistry - A European Journal</i> , 2011, 17, 13720-13725.	3.3	39
47	Integration of Catalysis and Analysis is the Key: Rapid and Precise Investigation of the Catalytic Asymmetric Costi – Claisen Rearrangement. <i>Journal of the American Chemical Society</i> , 2011, 133, 16444-16450.	13.7	38
48	Selector-Induced Dynamic Deracemization of a Selectand-Modified Tropos BIPHEPO-Ligand: Application in the Organocatalyzed Asymmetric Double-Aldol Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8756-8760.	13.8	38
49	Attracting Enantiomers: Chiral Analytes That Are Simultaneously Shift Reagents Allow Rapid Screening of Enantiomeric Ratios by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2017, 23, 5414-5418.	3.3	38
50	Time-resolved cryogenic modulation reveals isomer interconversion profiles in dynamic chromatography. <i>Journal of Chromatography A</i> , 2001, 919, 115-126.	3.7	36
51	Investigation of the stereodynamics of molecules and catalyzed reactions by CE. <i>Electrophoresis</i> , 2010, 31, 786-813.	2.4	36
52	Interconversion of Stereochemically Labile Enantiomers (Enantiomerization). <i>Topics in Current Chemistry</i> , 2013, 341, 231-269.	4.0	36
53	Synthesis of acrylates from olefins and CO ₂ using sodium alkoxides as bases. <i>Catalysis Today</i> , 2017, 281, 379-386.	4.4	36
54	In Situ Mass Spectrometric and Kinetic Investigations of Soai's Asymmetric Autocatalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 15871-15880.	3.3	36

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55	Synthesis of Naphthylpyridines from Unsymmetrical Naphthylheptadiynes and the Configurational Stability of the Biaryl Axis. <i>Journal of Organic Chemistry</i> , 2016, 81, 3087-3102.	3.2	34
56	Development of an advanced derivatization protocol for the unambiguous identification of monosaccharides in complex mixtures by gas and liquid chromatography. <i>Journal of Chromatography A</i> , 2018, 1568, 160-167.	3.7	33
57	Inducing Enantioselectivity in a Dynamic Catalyst by Supramolecular Interlocking. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6306-6310.	13.8	33
58	Electroosmotic flow in a poly(dimethylsiloxane) channel does not depend on percent curing agent. <i>Electrophoresis</i> , 2004, 25, 1120-1124.	2.4	32
59	Chiral stationary phases and applications in gas chromatography. <i>Chirality</i> , 2022, 34, 732-759.	2.6	32
60	Enantiomerization of an inherently chiral resorcarene derivative: determination of the interconversion barrier by computer simulation of the dynamic HPLC experiment. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 1395-1398.	1.8	31
61	Stereodynamics of tetramezine. <i>Chirality</i> , 2011, 23, 113-117.	2.6	31
62	Determination of the cis-trans isomerization barrier of several L-peptidyl-L-proline dipeptides by dynamic capillary electrophoresis and computer simulation. <i>Electrophoresis</i> , 2001, 22, 2409-2415.	2.4	30
63	The unified equation for the evaluation of degenerated first-order reactions in dynamic electrophoresis. <i>Electrophoresis</i> , 2006, 27, 2999-3006.	2.4	30
64	Nonlinear effects in enantioselective chromatography: prediction of unusual elution profiles of enantiomers in non-racemic mixtures on an achiral stationary phase doped with small amounts of a chiral selector. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 1334-1340.	1.8	30
65	5,5'-Diamino-BIPHEP ligands bearing small selector units for non-covalent binding of chiral analytes in solution. <i>Chemical Communications</i> , 2015, 51, 15665-15668.	4.1	30
66	Prebiotic Nucleoside Synthesis: The Selectivity of Simplicity. <i>Chemistry - A European Journal</i> , 2020, 26, 14776-14790.	3.3	30
67	Digital photography for the analysis of fluorescence responses. <i>Chemical Science</i> , 2013, 4, 273-281.	7.4	29
68	Direct UV-Induced Functionalization of Surface Hydroxy Groups by Thiol-OI Chemistry. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3835-3839.	13.8	29
69	Prebiotic Sugar Formation Under Nonaqueous Conditions and Mechanochemical Acceleration. <i>Life</i> , 2019, 9, 52.	2.4	29
70	Triphos derivatives and diphosphines as ligands in the ruthenium-catalysed alcohol amination with NH_3 . <i>Dalton Transactions</i> , 2016, 45, 6856-6865.	3.3	28
71	Direct calculation and computer simulation of the enantiomerization barrier of oxazepam in dynamic HPLC experiments—a comparative study. <i>Journal of Proteomics</i> , 2002, 54, 301-313.	2.4	27
72	Accessing reaction rate constants in on-column reaction chromatography: an extended unified equation for reaction educts and products with different response factors. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1673-1679.	3.7	27

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73	Synthesis of Industrially Relevant Carbamates towards Isocyanates using Carbon Dioxide and Organotin(IV) Alkoxides. <i>ChemSusChem</i> , 2016, 9, 1586-1590.	6.8	27
74	A dynamic molecular probe to investigate catalytic effects and Joule heating in enantioselective MEKC. <i>Electrophoresis</i> , 2007, 28, 691-696.	2.4	26
75	Modular Palladium Bipyrazoles for the Isomerization of Allylbenzenes – Mechanistic Considerations and Insights into Catalyst Design and Activity, Role of Solvent, and Additive Effects. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 1466-1480.	4.3	25
76	A Combined Experimental and Theoretical Study on the Stereodynamics of Monoaza[5]helicenes: Solvent-Induced Increase of the Enantiomerization Barrier in 1-Aza[5]helicene. <i>Chemistry - A European Journal</i> , 2015, 21, 13919-13924.	3.3	25
77	Synthesis of Mono- and Dinuclear Vanadium Complexes and Their Reactivity toward Dehydroperoxidation of Alkyl Hydroperoxides. <i>Inorganic Chemistry</i> , 2017, 56, 1319-1332.	4.0	25
78	Application of Hetero-Triphos Ligands in the Selective Ruthenium-Catalyzed Transformation of Carbon Dioxide to the Formaldehyde Oxidation State. <i>Organometallics</i> , 2019, 38, 1809-1814.	2.3	25
79	Simulation of Elution Profiles for Two-Dimensional Dynamic Gas Chromatographic Experiments. <i>Analytical Chemistry</i> , 2003, 75, 4452-4461.	6.5	24
80	The Stereodynamics of 5,5-Disubstituted BIPHEPs. <i>Chirality</i> , 2013, 25, 126-132.	2.6	24
81	Stereointegrity of thalidomide: gas-chromatographic determination of the enantiomerization barrier. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 27, 497-505.	2.8	23
82	Interconverting Conformations of Variants of the Human Amyloidogenic Protein β 2-Microglobulin Quantitatively Characterized by Dynamic Capillary Electrophoresis and Computer Simulation. <i>Analytical Chemistry</i> , 2006, 78, 3667-3673.	6.5	23
83	Application of cinchona-sulfonate-based chiral zwitterionic ion exchangers for the separation of proline-containing dipeptide rotamers and determination of on-column isomerization parameters from dynamic elution profiles. <i>Analytica Chimica Acta</i> , 2013, 795, 88-98.	5.4	23
84	Molecular interconversion behaviour in comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2004, 1033, 135-143.	3.7	22
85	Catalysts by the meter: rapid screening approach of N-heterocyclic carbeneligand based catalysts. <i>Chemical Communications</i> , 2011, 47, 391-393.	4.1	22
86	Identifying high-performance catalytic conditions for carbon dioxide reduction to dimethoxymethane by multivariate modelling. <i>Chemical Science</i> , 2019, 10, 10466-10474.	7.4	22
87	Determination of the cis-trans isomerization barrier of enalaprilat by dynamic capillary electrophoresis and computer simulation. <i>Electrophoresis</i> , 2004, 25, 318-323.	2.4	21
88	A soft on-column metal coating procedure for robust sheathless electrospray emitters used in capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2005, 26, 1358-1365.	2.4	21
89	Integration of reaction and separation in a micro-capillary column reactor – Palladium nanoparticle catalyzed C–C bond forming reactions. <i>Chemical Engineering Science</i> , 2010, 65, 2410-2416.	3.8	21
90	Schreibersite: an effective catalyst in the formose reaction network. <i>New Journal of Physics</i> , 2018, 20, 055003.	2.9	21

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91	The stereodynamics of 1,2-dipropyldiaziridines. <i>Chirality</i> , 2010, 22, 284-291.	2.6	20
92	Chiral 1-alkoxyaziridines: resolution, nitrogen inversion, structure and diastereomeric transformations. <i>Mendeleev Communications</i> , 2002, 12, 137-140.	1.6	19
93	Peak Height Precision in Hadamard Transform Time-of-Flight Mass Spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1117-1130.	2.8	19
94	Direct calculation of interconversion barriers in dynamic chromatography and electrophoresis: Isomerization of captopril. <i>Electrophoresis</i> , 2005, 26, 487-493.	2.4	19
95	Investigation of modulation parameters in multiplexing gas chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 6640-6645.	3.7	19
96	Oxidations with bonded salen-catalysts in microcapillaries. <i>Chemical Engineering Science</i> , 2012, 83, 171-179.	3.8	19
97	Determination of enantiomerization barrier of thioridazine by dynamic capillary electrophoresis using sulfated cyclodextrins as chiral selectors. <i>Electrophoresis</i> , 2009, 30, 3071-3078.	2.4	18
98	An Immobilised Grubbs 2 nd Generation Catalyst for Application in Flow-Through Devices. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 2081-2087.	4.3	18
99	Dynamic Exchange of Substituents in a Prebiotic Organocatalyst: Initial Steps towards an Evolutionary System. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202112563.	13.8	18
100	Coulomb Explosion Imaged Cryptochiral (1 <i>R</i> ,2 <i>R</i>)-3-Deuteriooxirane: Unambiguous Access to the Absolute Configuration of (+)-Glyceraldehyde. <i>Chemistry - A European Journal</i> , 2014, 20, 5555-5558.	3.3	17
101	Development of a Straightforward and Robust Technique to Implement Hadamard Encoded Multiplexing to High-Performance Liquid Chromatography. <i>Analytical Chemistry</i> , 2014, 86, 10828-10833.	6.5	17
102	Direct Prebiotic Pathway to DNA Nucleosides. <i>Angewandte Chemie</i> , 2019, 131, 10049-10052.	2.0	17
103	Straightforward Synthesis of Poly(dimethylsiloxane) Phases with Immobilized (1 <i>R</i> ,2 <i>R</i>)-3-(Perfluoroalkanoyl)camphorate Metal Complexes and Their Application in Enantioselective Complexation Gas Chromatography. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 3929-3945.	2.4	16
104	Evaluation and Prediction of Stereoisomerizations in Comprehensive Two-Dimensional Chromatography. <i>Journal of Chemical Information and Computer Sciences</i> , 2004, 44, 1671-1679.	2.8	15
105	Integration of on-column catalysis and EKC analysis: Investigation of enantioselective sulfoxidations. <i>Electrophoresis</i> , 2012, 33, 1060-1067.	2.4	15
106	Supramolecular chirality transfer in a stereodynamic catalysts. <i>Chirality</i> , 2018, 30, 1150-1160.	2.6	15
107	Prebiotically Plausible Organocatalysts Enabling a Selective Photoredox α -Alkylation of Aldehydes on the Early Earth. <i>Chemistry - A European Journal</i> , 2020, 26, 10702-10706.	3.3	15
108	Implementation of Hadamard encoding for rapid multisample analysis in liquid chromatography. <i>Journal of Separation Science</i> , 2015, 38, 3839-3844.	2.5	14

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109	Comprehensive study on critical micellar concentrations of SDS in acetonitrile/water solvents. <i>Electrophoresis</i> , 2016, 37, 1287-1295.	2.4	14
110	A robust sheath-flow CE-MS interface for hyphenation with Orbitrap MS. <i>Electrophoresis</i> , 2020, 41, 1280-1286.	2.4	14
111	Synthesis, complete characterization, and enantioselective electrokinetic separation of functionalized ruthenium complex enantiomers. <i>Chirality</i> , 2004, 16, 363-368.	2.6	13
112	Investigation of the enantiomerization barriers of the phthalimidone derivatives EM12 and lenalidomide by dynamic electrokinetic chromatography. <i>Electrophoresis</i> , 2015, 36, 796-804.	2.4	13
113	Evolution of imaging in surgical fracture management. <i>Injury</i> , 2020, 51, S51-S56.	1.7	13
114	Chromatographically separable rotamers of an unhindered amide. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 701-706.	2.2	12
115	Synthesis of carbamates from carbon dioxide promoted by organostannanes and alkoxy silanes. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3733.	3.5	12
116	Stereodynamics of Small 1,2-Dialkyldiaziridines. <i>Chirality</i> , 2013, 25, 224-229.	2.6	11
117	Hyphenation of Hadamard Encoded Multiplexing Liquid Chromatography and Circular Dichroism Detection to Improve the Signal-to-Noise Ratio in Chiral Analysis. <i>Analytical Chemistry</i> , 2015, 87, 11932-11934.	6.5	11
118	Improving the signal-to-noise ratio in gel permeation chromatography by Hadamard encoding. <i>Journal of Chromatography A</i> , 2016, 1448, 93-97.	3.7	11
119	Ruthenium Nanoparticles in High-Throughput Studies of Chemoselective Carbonyl Hydrogenation Reactions. <i>ChemCatChem</i> , 2016, 8, 571-576.	3.7	11
120	Investigation of Straightforward, Photoinduced Alkylations of Electron-Rich Heterocompounds with Electron-Deficient Alkyl Bromides in the Sole Presence of 2,6-Lutidine. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6192-6198.	2.4	11
121	From amino acid mixtures to peptides in liquid sulphur dioxide on early Earth. <i>Nature Communications</i> , 2021, 12, 7182.	12.8	11
122	Sensing on a Molecular Level – Chemistry at the Interface of Information Technology. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8158-8160.	13.8	10
123	Integrating reaction and analysis: investigation of higher-order reactions by cryogenic trapping. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1837-1842.	2.2	10
124	Chiral 1,2-Dialkenyl Diaziridines: Synthesis, Enantioselective Separation, and Nitrogen Inversion Barriers. <i>Chirality</i> , 2015, 27, 156-162.	2.6	10
125	Design and synthesis of a stereodynamic catalyst with reversal of selectivity by enantioselective self-inhibition. <i>Chirality</i> , 2019, 31, 1028-1042.	2.6	10
126	From stereodynamics to high-throughput screening of catalysed reactions. <i>Chemical Communications</i> , 2014, 50, 14301-14309.	4.1	9

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127	Onâ€Column Reaction Setâ€Up for Highâ€Throughput Screenings and Mechanistic Investigations. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3513-3520.	4.3	9
128	Investigation of Strain-Promoted Azideâ€Alkyne Cycloadditions in Aqueous Solutions by Capillary Electrophoresis. <i>Journal of Organic Chemistry</i> , 2018, 83, 604-613.	3.2	9
129	Supramolecular Interlocked Biphenyl Ligands for Enantioselective Ti-Catalyzed Alkylation of Aromatic Aldehydes. <i>Organometallics</i> , 2019, 38, 3955-3960.	2.3	9
130	Efficient Amplification in Soai's Asymmetric Autocatalysis by a Transient Stereodynamic Catalyst. <i>Frontiers in Chemistry</i> , 2020, 8, 615800.	3.6	9
131	Asymmetric Induction and Amplification in Stereodynamic Catalytic Systems by Noncovalent Interactions. <i>Synlett</i> , 2021, 32, 971-980.	1.8	9
132	Investigation of the stereodynamics of trisâ€(â€±â€)-diimineâ€transition metal complexes by enantioselective dynamic MEKC. <i>Electrophoresis</i> , 2009, 30, 329-336.	2.4	8
133	Chromatographic peak deconvolution of constitutional isomers by multiple-reaction-monitoring mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 1010-1016.	3.7	8
134	Stereochemistry of 2,6â€Diaminoadamantane Salts: Transannular Interactions. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 3500-3506.	2.4	8
135	Highâ€Throughput Multiplexing Gas Chromatography. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1044-1051.	0.8	8
136	Tautomerizationâ€Mediated Molecular Switching Between Sixâ€and Sevenâ€Membered Rings Stabilized by Hydrogen Bonding. <i>Chemistry - A European Journal</i> , 2015, 21, 8939-8945.	3.3	8
137	Rotational Barriers of Substituted BIPHEP Ligands: A Comparative Experimental and Theoretical Study. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 5123-5126.	2.4	8
138	A stereodynamic phosphoramidite ligand derived from 3,3â€functionalized orthoâ€biphenol and its rhodium(I) complex. <i>Chirality</i> , 2016, 28, 744-748.	2.6	8
139	Temperature-Controlled Bidirectional Enantioselectivity in Asymmetric Hydrogenation Reactions Utilizing Stereodynamic Iridium Complexes. <i>Synthesis</i> , 2017, 49, 3485-3494.	2.3	8
140	Online High Throughput Measurements for Fast Catalytic Reactions Using Time-Division Multiplexing Gas Chromatography. <i>Analytical Chemistry</i> , 2018, 90, 9256-9263.	6.5	8
141	Inducing Enantioselectivity in a Dynamic Catalyst by Supramolecular Interlocking. <i>Angewandte Chemie</i> , 2019, 131, 6372-6376.	2.0	8
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