

Leo A Joyce

List of Publications by Year in descending order

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43
papers

2,541
citations

218677

26
h-index

233421

45
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47
all docs

47
docs citations

47
times ranked

3261
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocatalytic oxidative cross-coupling reactions for biaryl bond formation. <i>Nature</i> , 2022, 603, 79-85.	27.8	67
2	A chiroptical approach for the absolute stereochemical determination of <i>P</i> -stereogenic centers. <i>Chemical Science</i> , 2021, 12, 1750-1755.	7.4	3
3	Synthesis of a novel cyclopropyl phosphonate nucleotide as a phosphate mimic. <i>Chemical Communications</i> , 2021, 57, 6808-6811.	4.1	3
4	Combination of HDX-MS and in silico modeling to study enzymatic reactivity and stereo-selectivity at different solvent conditions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 182, 113141.	2.8	5
5	Next-Generation TLC: A Quantitative Platform for Parallel Spotting and Imaging. <i>Journal of Organic Chemistry</i> , 2020, 85, 9447-9453.	3.2	7
6	Direct regioisomer analysis of crude reaction mixtures via molecular rotational resonance (MRR) spectroscopy. <i>Chemical Science</i> , 2020, 11, 6332-6338.	7.4	18
7	The Structural Origins of Intense Circular Dichroism in a Wagging Helicene Nanoribbon. <i>Journal of the American Chemical Society</i> , 2020, 142, 7066-7074.	13.7	62
8	C–C Cleavage Approach to C–H Functionalization of Saturated Aza-Cycles. <i>ACS Catalysis</i> , 2020, 10, 2929-2941.	11.2	43
9	Optical Chirality Sensing with a Stereodynamic Aluminum Biphenolate Probe. <i>Journal of Organic Chemistry</i> , 2019, 84, 4639-4645.	3.2	20
10	Manipulating Solid Forms of Contact Insecticides for Infectious Disease Prevention. <i>Journal of the American Chemical Society</i> , 2019, 141, 16858-16864.	13.7	26
11	Stereodivergent, Chemoenzymatic Synthesis of Azaphilone Natural Products. <i>Journal of the American Chemical Society</i> , 2019, 141, 18551-18559.	13.7	37
12	Photoexcitation of flavoenzymes enables a stereoselective radical cyclization. <i>Science</i> , 2019, 364, 1166-1169.	12.6	256
13	Peptide Oligomerization Memory Effects and Their Impact on the Physical Stability of the GLP-1 Agonist Liraglutide. <i>Molecular Pharmaceutics</i> , 2019, 16, 2153-2161.	4.6	10
14	Design of an in vitro biocatalytic cascade for the manufacture of islatravir. <i>Science</i> , 2019, 366, 1255-1259.	12.6	383
15	Rhodium-Catalyzed Asymmetric Hydroamination of Allyl Amines. <i>Journal of the American Chemical Society</i> , 2019, 141, 739-742.	13.7	62
16	Identification of ortho-Substituted Benzoic Acid/Ester Derivatives via the Gas-Phase Neighboring Group Participation Effect in (+)-ESI High Resolution Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 694-703.	2.8	1
17	Beyond optical rotation: what's left is not always right in total synthesis. <i>Chemical Science</i> , 2018, 9, 415-424.	7.4	23
18	Optical Analysis of Reaction Yield and Enantiomeric Excess: A New Paradigm Ready for Prime Time. <i>Journal of the American Chemical Society</i> , 2018, 140, 10385-10401.	13.7	127

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19	Discovery of selective, orally bioavailable, N-linked arylsulfonamide Na v 1.7 inhibitors with pain efficacy in mice. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2087-2093.	2.2	38
20	Palladium-catalyzed enantioselective Heck alkenylation of trisubstituted allylic alkenols: a redox-relay strategy to construct vicinal stereocenters. <i>Chemical Science</i> , 2017, 8, 2277-2282.	7.4	33
21	Absolute configuration assignment of (+)-fluralaner using vibrational circular dichroism. <i>Chirality</i> , 2017, 29, 854-864.	2.6	8
22	Oxyfunctionalization of the Remote C-H Bonds of Aliphatic Amines by Decatungstate Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15274-15278.	13.8	109
23	Parameterization of Acyclic Diaminocarbene Ligands Applied to a Gold(I)-Catalyzed Enantioselective Tandem Rearrangement/Cyclization. <i>Journal of the American Chemical Society</i> , 2017, 139, 12943-12946.	13.7	82
24	Ultrafast chiral separations for high throughput enantiopurity analysis. <i>Chemical Communications</i> , 2017, 53, 509-512.	4.1	117
25	Use of hydrostatic pressure for modulation of protein chemical modification and enzymatic selectivity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4448-4455.	2.8	5
26	Hydroxypyridyl Imines: Enhancing Chromatographic Separation and Stereochemical Analysis of Chiral Amines via Circular Dichroism. <i>Journal of Organic Chemistry</i> , 2016, 81, 8199-8205.	3.2	15
27	Characterization and Synthesis of Eudistidine C, a Bioactive Marine Alkaloid with an Intriguing Molecular Scaffold. <i>Journal of Organic Chemistry</i> , 2016, 81, 10631-10640.	3.2	30
28	Optimization of Novel Aza-benzimidazolone mGluR2 PAMs with Respect to LLE and PK Properties and Mitigation of CYP TDI. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 312-317.	2.8	8
29	Antenna Biphenols: Development of Extended Wavelength Chiroptical Reporters. <i>Journal of Organic Chemistry</i> , 2016, 81, 1185-1191.	3.2	23
30	Homodecoupled 1,1- and 1,1-DEQUATE: Pivotal NMR Experiments for the Structure Revision of Cryptospirolepine. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10160-10164.	13.8	49
31	Chiral Conjugated Corrals. <i>Journal of the American Chemical Society</i> , 2015, 137, 9982-9987.	13.7	104
32	Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1000-1009.	6.7	33
33	Tricyclic 1,5-naphthyridinone oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents-SAR of left-hand-side moiety (Part-2). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1831-1835.	2.2	32
34	Response to Comment on "Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments". <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1897-1897.	6.7	0
35	Detection of dehalogenation impurities in organohalogenated pharmaceuticals by UHPLC-DAD-HRESIMS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 92, 1-5.	2.8	25
36	Imine-based chiroptical sensing for analysis of chiral amines: from method design to synthetic application. <i>Chemical Science</i> , 2014, 5, 2855-2861.	7.4	46

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37	Chromatographic Separation and Assignment of Absolute Configuration of Hydroxywarfarin Isomers. <i>Chirality</i> , 2014, 26, 95-101.	2.6	22
38	A Mechanically Controlled Indicator Displacement Assay. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9643-9646.	13.8	70
39	Enantioselective and Chemoselective Differentiation of Protected α -Amino Acids and β -Homoamino Acids with a Single Copper(II) Host. <i>Chemistry - A European Journal</i> , 2012, 18, 8064-8069.	3.3	47
40	A Simple Method for the Determination of Enantiomeric Excess and Identity of Chiral Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2011, 133, 13746-13752.	13.7	148
41	The uses of supramolecular chemistry in synthetic methodology development: examples of anion and neutral molecular recognition. <i>Chemical Society Reviews</i> , 2010, 39, 3621.	38.1	124
42	Pattern-Based Recognition for the Rapid Determination of Identity, Concentration, and Enantiomeric Excess of Subtly Different Threo Diols. <i>Journal of the American Chemical Society</i> , 2009, 131, 13125-13131.	13.7	88
43	Practical Synthesis of Enantiomerically Pure β -Amino Acids via Proline-Catalyzed Diastereoselective Aminomethylation of Aldehydes. <i>Journal of the American Chemical Society</i> , 2007, 129, 6050-6055.	13.7	75