

# 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  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of an in vitro biocatalytic cascade for the manufacture of islatravir. <i>Science</i> , 2019, 366, 1255-1259.	12.6	383
2	Photoexcitation of flavoenzymes enables a stereoselective radical cyclization. <i>Science</i> , 2019, 364, 1166-1169.	12.6	256
3	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
4	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
5	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
6	Ultrafast chiral separations for high throughput enantiopurity analysis. <i>Chemical Communications</i> , 2017, 53, 509-512.	4.1	117
7	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
8	Chiral Conjugated Corrals. <i>Journal of the American Chemical Society</i> , 2015, 137, 9982-9987.	13.7	104
9	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
10	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
11	Practical Synthesis of Enantiomerically Pure $\beta$ -Amino Acids via Proline-Catalyzed Diastereoselective Aminomethylation of Aldehydes. <i>Journal of the American Chemical Society</i> , 2007, 129, 6050-6055.	13.7	75
12	A Mechanically Controlled Indicator Displacement Assay. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9643-9646.	13.8	70
13	Biocatalytic oxidative cross-coupling reactions for biaryl bond formation. <i>Nature</i> , 2022, 603, 79-85.	27.8	67
14	Rhodium-Catalyzed Asymmetric Hydroamination of Allyl Amines. <i>Journal of the American Chemical Society</i> , 2019, 141, 739-742.	13.7	62
15	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
16	Homodecoupled $1,1\text{-}^1\text{H}$ and $1,1\text{-}^{13}\text{C}$ DEQUATE: Pivotal NMR Experiments for the Structure Revision of Cryptospirolepine. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10160-10164.	13.8	49
17	Enantio- and Chemoselective Differentiation of Protected $\beta$ -Amino Acids and $\beta$ -Homoamino Acids with a Single Copper(II) Host. <i>Chemistry - A European Journal</i> , 2012, 18, 8064-8069.	3.3	47
18	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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19	Câ€C Cleavage Approach to Câ€H Functionalization of Saturated Aza-Cycles. ACS Catalysis, 2020, 10, 2929-2941.	11.2	43
20	Discovery of selective, orally bioavailable, N-linked arylsulfonamide Na v 1.7 inhibitors with pain efficacy in mice. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2087-2093.	2.2	38
21	Stereodivergent, Chemoenzymatic Synthesis of Azaphilone Natural Products. Journal of the American Chemical Society, 2019, 141, 18551-18559.	13.7	37
22	Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments. ACS Sustainable Chemistry and Engineering, 2015, 3, 1000-1009.	6.7	33
23	Palladium-catalyzed enantioselective Heck alkenylation of trisubstituted allylic alkenols: a redox-relay strategy to construct vicinal stereocenters. Chemical Science, 2017, 8, 2277-2282.	7.4	33
24	Tricyclic 1,5-naphthyridinone oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents-SAR of left-hand-side moiety (Part-2). Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1831-1835.	2.2	32
25	Characterization and Synthesis of Eudistidine C, a Bioactive Marine Alkaloid with an Intriguing Molecular Scaffold. Journal of Organic Chemistry, 2016, 81, 10631-10640.	3.2	30
26	Manipulating Solid Forms of Contact Insecticides for Infectious Disease Prevention. Journal of the American Chemical Society, 2019, 141, 16858-16864.	13.7	26
27	Detection of dehalogenation impurities in organohalogenated pharmaceuticals by UHPLCâ€DADâ€HRESIMS. Journal of Pharmaceutical and Biomedical Analysis, 2014, 92, 1-5.	2.8	25
28	Antenna Biphenols: Development of Extended Wavelength Chiroptical Reporters. Journal of Organic Chemistry, 2016, 81, 1185-1191.	3.2	23
29	Beyond optical rotation: what's left is not always right in total synthesis. Chemical Science, 2018, 9, 415-424.	7.4	23
30	Chromatographic Separation and Assignment of Absolute Configuration of Hydroxywarfarin Isomers. Chirality, 2014, 26, 95-101.	2.6	22
31	Optical Chirality Sensing with a Stereodynamic Aluminum Biphenolate Probe. Journal of Organic Chemistry, 2019, 84, 4639-4645.	3.2	20
32	Direct regioisomer analysis of crude reaction mixtures <i>via</i> molecular rotational resonance (MRR) spectroscopy. Chemical Science, 2020, 11, 6332-6338.	7.4	18
33	Hydroxypyridyl Imines: Enhancing Chromatographic Separation and Stereochemical Analysis of Chiral Amines via Circular Dichroism. Journal of Organic Chemistry, 2016, 81, 8199-8205.	3.2	15
34	Peptide Oligomerization Memory Effects and Their Impact on the Physical Stability of the GLP-1 Agonist Liraglutide. Molecular Pharmaceutics, 2019, 16, 2153-2161.	4.6	10
35	Optimization of Novel Aza-benzimidazolone mGluR2 PAMs with Respect to LLE and PK Properties and Mitigation of CYP TDI. ACS Medicinal Chemistry Letters, 2016, 7, 312-317.	2.8	8
36	Absolute configuration assignment of (+)-â€fluralaner using vibrational circular dichroism. Chirality, 2017, 29, 854-864.	2.6	8

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37	Next-Generation TLC: A Quantitative Platform for Parallel Spotting and Imaging. <i>Journal of Organic Chemistry</i> , 2020, 85, 9447-9453.	3.2	7
38	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
39	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
40	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
41	Synthesis of a novel cyclopropyl phosphonate nucleotide as a phosphate mimic. <i>Chemical Communications</i> , 2021, 57, 6808-6811.	4.1	3
42	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
43	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