

Benjamin H Rotstein

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2254493/publications.pdf>

Version: 2024-02-01

47
papers

2,240
citations

331259

21
h-index

223531

46
g-index

57
all docs

57
docs citations

57
times ranked

2456
citing authors

#	ARTICLE	IF	CITATIONS
1	Small Heterocycles in Multicomponent Reactions. <i>Chemical Reviews</i> , 2014, 114, 8323-8359.	23.0	790
2	Spirocyclic hypervalent iodine(III)-mediated radiofluorination of non-activated and hindered aromatics. <i>Nature Communications</i> , 2014, 5, 4365.	5.8	207
3	Mechanistic studies and radiofluorination of structurally diverse pharmaceuticals with spirocyclic iodonium ylides. <i>Chemical Science</i> , 2016, 7, 4407-4417.	3.7	104
4	¹¹ C=O bonds made easily for positron emission tomography radiopharmaceuticals. <i>Chemical Society Reviews</i> , 2016, 45, 4708-4726.	18.7	98
5	¹¹ C ₂ fixation: a renaissance in PET radiochemistry. <i>Chemical Communications</i> , 2013, 49, 5621.	2.2	92
6	Fast Carbon Isotope Exchange of Carboxylic Acids Enabled by Organic Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 2200-2206.	6.6	63
7	Ortho-stabilized ¹⁸ F-azido Click Agents and their Application in PET Imaging with Single-stranded DNA Aptamers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12777-12781.	7.2	62
8	Synthesis and Preclinical Evaluation of Sulfonamido-based [¹¹ C-Carbonyl]-Carbamates and Ureas for Imaging Monoacylglycerol Lipase. <i>Theranostics</i> , 2016, 6, 1145-1159.	4.6	50
9	Synthesis of peptide macrocycles using unprotected amino aldehydes. <i>Nature Protocols</i> , 2010, 5, 1813-1822.	5.5	46
10	Nuclear Imaging of the Cardiac Sympathetic Nervous System. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1036-1054.	2.3	40
11	Alternative approaches for PET radiotracer development in Alzheimer's disease: imaging beyond plaque. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 323-331.	0.5	39
12	Synthesis of [¹¹ C]Bexarotene by Cu-Mediated [¹¹ C]Carbon Dioxide Fixation and Preliminary PET Imaging. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 668-672.	1.3	39
13	PET and SPECT Tracers for Myocardial Perfusion Imaging. <i>Seminars in Nuclear Medicine</i> , 2020, 50, 208-218.	2.5	39
14	Solvatochromic Reagents for Multicomponent Reactions and their Utility in the Development of Cell-Permeable Macrocyclic Peptide Vectors. <i>Chemistry - A European Journal</i> , 2011, 17, 12257-12261.	1.7	37
15	Conformational Modulation of in Vitro Activity of Cyclic RGD Peptides via Aziridine Aldehyde-Driven Macrocyclization Chemistry. <i>Bioconjugate Chemistry</i> , 2012, 23, 1387-1395.	1.8	35
16	Thioester-isocyanides: versatile reagents for the synthesis of cycle-tail peptides. <i>Chemical Communications</i> , 2012, 48, 3775.	2.2	34
17	The histone H3.1 variant regulates TONSOKU-mediated DNA repair during replication. <i>Science</i> , 2022, 375, 1281-1286.	6.0	33
18	Rapid microfluidic flow hydrogenation for reduction or deprotection of ¹⁸ F-labeled compounds. <i>Chemical Communications</i> , 2013, 49, 8755.	2.2	30

#	ARTICLE	IF	CITATIONS
19	Facile ¹⁸ F labeling of non-activated arenes via a spirocyclic iodonium(III) ylide method and its application in the synthesis of the mGluR5 PET radiopharmaceutical [¹⁸ F]FPEB. <i>Nature Protocols</i> , 2019, 14, 1530-1545.	5.5	27
20	Innate Immune Nod1/RIP2 Signaling Is Essential for Cardiac Hypertrophy but Requires Mitochondrial Antiviral Signaling Protein for Signal Transductions and Energy Balance. <i>Circulation</i> , 2020, 142, 2240-2258.	1.6	26
21	Metal-free ¹⁸ F-labeling of aryl-CF ₂ H via nucleophilic radiofluorination and oxidative C-H activation. <i>Chemical Communications</i> , 2017, 53, 126-129.	2.2	24
22	PET Neuroimaging Studies of [¹⁸ F]CABS13 in a Double Transgenic Mouse Model of Alzheimer's Disease and Nonhuman Primates. <i>ACS Chemical Neuroscience</i> , 2015, 6, 535-541.	1.7	23
23	Comparison of Benzene, Nitrobenzene, and Dinitrobenzene 2-Arylsulfonylpyrroles. <i>Journal of Organic Chemistry</i> , 2007, 72, 7382-7385.	1.7	22
24	Shifting the Energy Landscape of Multicomponent Reactions Using Aziridine Aldehyde Dimers: A Mechanistic Study. <i>Journal of Organic Chemistry</i> , 2014, 79, 9465-9471.	1.7	22
25	Development of [¹⁸ F]Maleimide-Based Glycogen Synthase Kinase-3 ^β Ligands for Positron Emission Tomography Imaging. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 287-292.	1.3	22
26	Stereocontrolled Disruption of the Ugi Reaction toward the Production of Chiral Piperazinones: Substrate Scope and Process Development. <i>Journal of Organic Chemistry</i> , 2014, 79, 9948-9957.	1.7	21
27	The Future of Cardiac Molecular Imaging. <i>Seminars in Nuclear Medicine</i> , 2020, 50, 367-385.	2.5	19
28	PET Imaging of Fatty Acid Amide Hydrolase with [¹⁸ F]DOPP in Nonhuman Primates. <i>Molecular Pharmaceutics</i> , 2014, 11, 3832-3838.	2.3	18
29	Synthesis and Preliminary PET Imaging Studies of a FAAH Radiotracer ([¹¹ C]MPPO) Based on 1,4-Ketoheterocyclic Scaffold. <i>ACS Chemical Neuroscience</i> , 2016, 7, 109-118.	1.7	17
30	Regional Distribution of Fluorine-18-Flubrobenguane and Carbon-11-Hydroxyephedrine for Cardiac PET Imaging of Sympathetic Innervation. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1425-1436.	2.3	16
31	A low cost and open access system for rapid synthesis of large volumes of gold and silver nanoparticles. <i>Scientific Reports</i> , 2021, 11, 5420.	1.6	15
32	Combined Methylglyoxal Scavenger and Collagen Hydrogel Therapy Prevents Adverse Remodeling and Improves Cardiac Function Post-Myocardial Infarction. <i>Advanced Functional Materials</i> , 2022, 32, 2108630.	7.8	14
33	Interrupted aza-Wittig reactions using iminophosphoranes to synthesize ¹¹ C-carbonyls. <i>Chemical Communications</i> , 2021, 57, 5266-5269.	2.2	12
34	Aziridine-2-carboxaldehyde Dimers Undergo Homo-Ugi 4-Component-5-center Reactions. <i>Synthesis</i> , 2012, 44, 2851-2858.	1.2	11
35	Stereoselective ¹¹ C Labeling of a Native Tetrapeptide by Using Asymmetric Phase-Transfer Catalyzed Alkylation Reactions. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1019-1024.	1.2	11
36	Rhodium-Catalyzed Addition of Organozinc Iodides to Carbon-11 Isocyanates. <i>Organic Letters</i> , 2020, 22, 2746-2750.	2.4	9

#	ARTICLE	IF	CITATIONS
37	Fluorine-18-Labeled Fluorescent Dyes for Dual-Mode Molecular Imaging. <i>Molecules</i> , 2020, 25, 6042.	1.7	9
38	Preclinical PET Neuroimaging of [¹¹ C]Bexarotene. <i>Molecular Imaging</i> , 2016, 15, 153601211666305.	0.7	8
39	Riboflavin Surface Modification of Poly(vinyl chloride) for Light-Triggered Control of Bacterial Biofilm and Virus Inactivation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32251-32262.	4.0	8
40	Evaluation of Therapeutic Collagen-Based Biomaterials in the Infarcted Mouse Heart by Extracellular Matrix Targeted MALDI Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2746-2754.	1.2	8
41	First-in-human imaging and kinetic analysis of vesicular acetylcholine transporter density in the heart using [¹⁸ F]FEOBV PET. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 50-54.	1.4	5
42	Selective Imaging of Matrix Metalloproteinase-13 to Detect Extracellular Matrix Remodeling in Atherosclerotic Lesions. <i>Molecular Imaging and Biology</i> , 2021, , 1.	1.3	5
43	Nanoengineered Sprayable Therapy for Treating Myocardial Infarction. <i>ACS Nano</i> , 2022, 16, 3522-3537.	7.3	5
44	Cardiac Sympathetic Positron Emission Tomography Imaging with Meta-[¹⁸ F]Fluorobenzylguanidine is Sensitive to Uptake-1 in Rats. <i>ACS Chemical Neuroscience</i> , 2021, 12, 4350-4360.	1.7	3
45	Practical Radiosynthesis and Preclinical Neuroimaging of [¹¹ C]isradipine, a Calcium Channel Antagonist. <i>Molecules</i> , 2015, 20, 9550-9559.	1.7	2
46	Current and Future Cardiovascular PET Radiopharmaceuticals. <i>PET Clinics</i> , 2019, 14, 293-305.	1.5	2
47	Does quantification of [¹¹ C]meta-hydroxyephedrine and [¹³ N]ammonia kinetics improve risk stratification in ischemic cardiomyopathy. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 413-425.	1.4	1