Raphael Franzini

List of Publications by Year
in descending order

34 papers	2,144 citations	236925 25 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	1719 citing authors

#	Article	IF	Citations
1	Mechanisms and Substituent Effects of Metal-Free Bioorthogonal Reactions. Chemical Reviews, 2021, 121, 6850-6914.	47.7	62
2	Isonitrile-responsive and bioorthogonally removable tetrazine protecting groups. Chemical Science, 2020, 11, 169-179.	7.4	41
3	A Stable Precursor for Bioorthogonally Removable 3-Isocyanopropyloxycarbonyl (ICPrc) Protecting Groups. Synlett, 2020, 31, 1701-1706.	1.8	1
4	Integrating DNA-encoded chemical libraries with virtual combinatorial library screening: Optimizing a PARP10 inhibitor. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127464.	2.2	13
5	The Unique Bioorthogonal Chemistry of Isonitriles. Synlett, 2020, 31, 938-944.	1.8	18
6	RÃ¼cktitelbild: Stable, Reactive, and Orthogonal Tetrazines: Dispersion Forces Promote the Cycloaddition with Isonitriles (Angew. Chem. 27/2019). Angewandte Chemie, 2019, 131, 9390-9390.	2.0	0
7	Tuning Isonitrile/Tetrazine Chemistry for Accelerated Deprotection and Formation of Stable Conjugates. Journal of Organic Chemistry, 2019, 84, 15520-15529.	3.2	22
8	Dissociative Bioorthogonal Reactions. ChemBioChem, 2019, 20, 1615-1627.	2.6	61
9	Stable, Reactive, and Orthogonal Tetrazines: Dispersion Forces Promote the Cycloaddition with Isonitriles. Angewandte Chemie, 2019, 131, 9141-9146.	2.0	12
10	Stable, Reactive, and Orthogonal Tetrazines: Dispersion Forces Promote the Cycloaddition with Isonitriles. Angewandte Chemie - International Edition, 2019, 58, 9043-9048.	13.8	67
11	A Focused DNA-Encoded Chemical Library for the Discovery of Inhibitors of NAD⁺-Dependent Enzymes. Journal of the American Chemical Society, 2019, 141, 5169-5181.	13.7	84
12	A DNAâ€Encoded Library of Chemical Compounds Based on Common Scaffolding Structures Reveals the Impact of Ligand Geometry on Protein Recognition. ChemMedChem, 2018, 13, 1303-1307.	3.2	37
13	Bioorthogonal Removal of 3-Isocyanopropyl Groups Enables the Controlled Release of Fluorophores and Drugs in Vivo. Journal of the American Chemical Society, 2018, 140, 8410-8414.	13.7	103
14	Stability of Oligonucleotideâ€“Small Molecule Conjugates to DNA-Deprotection Conditions. Bioconjugate Chemistry, 2017, 28, 1076-1083.	3.6	11
15	Rapid and efficient tetrazine-induced drug release from highly stable benzonorbornadiene derivatives. Chemical Communications, 2017, 53, 6271-6274.	4.1	55
16	Achievements, Challenges, and Opportunities in DNAâ€Encoded Library Research: An Academic Point of View. ChemBioChem, 2017, 18, 829-836.	2.6	76
17	Dissociative reactions of benzonorbornadienes with tetrazines: scope of leaving groups and mechanistic insights. Organic and Biomolecular Chemistry, 2017, 15, 9855-9865.	2.8	28
18	Automated screening for small organic ligands using DNA-encoded chemical libraries. Nature Protocols, 2016, 11, 764-780.	12.0	94

#	Article	IF	Citations
19	Chemical Space of DNA-Encoded Libraries. Journal of Medicinal Chemistry, 2016, 59, 6629-6644.	6.4	219
20	Identification of Structureâ€“Activity Relationships from Screening a Structurally Compact DNAâ€Encoded Chemical Library. Angewandte Chemie - International Edition, 2015, 54, 3927-3931.	13.8	86
21	In Vitro Fluorogenic Realâ€Time Assay of the Repair of Oxidative DNA Damage. ChemBioChem, 2015, 16, 1637-1646.	2.6	26
22	Interrogating target-specificity by parallel screening of a DNA-encoded chemical library against closely related proteins. Chemical Communications, 2015, 51, 8014-8016.	4.1	32
23	Tankyrase 1 Inhibitors with Drug-like Properties Identified by Screening a DNA-Encoded Chemical Library. Journal of Medicinal Chemistry, 2015, 58, 5143-5149.	6.4	60
24	Dual-display of small molecules enables the discovery of ligand pairs and facilitates affinity maturation. Nature Chemistry, 2015, 7, 241-249.	13.6	181
25	â€œCap-and-Catchâ€•Purification for Enhancing the Quality of Libraries of DNA Conjugates. ACS Combinatorial Science, 2015, 17, 393-398.	3.8	25
26	DNA-Encoded Chemical Libraries: Advancing beyond Conventional Small-Molecule Libraries. Accounts of Chemical Research, 2014, 47, 1247-1255.	15.6	203
27	Systematic Evaluation and Optimization of Modification Reactions of Oligonucleotides with Amines and Carboxylic Acids for the Synthesis of DNA-Encoded Chemical Libraries. Bioconjugate Chemistry, 2014, 25, 1453-1461.	3.6	56
28	Patternâ€Based Detection of Toxic Metals in Surface Water with DNA Polyfluorophores. Angewandte Chemie - International Edition, 2014, 53, 5361-5365.	13.8	68
29	Improved Templated Fluorogenic Probes Enhance the Analysis of Closely Related Pathogenic Bacteria by Microscopy and Flow Cytometry. Bioconjugate Chemistry, 2011, 22, 1869-1877.	3.6	41
30	Two Successive Reactions on a DNA Template: A Strategy for Improving Background Fluorescence and Specificity in Nucleic Acid Detection. Chemistry - A European Journal, 2011, 17, 2168-2175.	3.3	44
31	Templated Chemistry for Sequenceâ€Specific Fluorogenic Detection of Duplex DNA. ChemBioChem, 2010, 11, 2132-2137.	2.6	27
32	Efficient Nucleic Acid Detection by Templated Reductive Quencher Release. Journal of the American Chemical Society, 2009, 131, 16021-16023.	13.7	145
33	7â€Azidomethoxyâ€Coumarins as Profluorophores for Templated Nucleic Acid Detection. ChemBioChem, 2008, 9, 2981-2988.	2.6	76
34	Organometallic Activation of a Fluorogen for Templated Nucleic Acid Detection. Organic Letters, 2008, 10, 2935-2938.	4.6	47