

# Raphael Franzini

## List of Publications by Year in descending order

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34  
papers

2,144  
citations

236833

25  
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345118

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g-index

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39  
docs citations

39  
times ranked

1719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Space of DNA-Encoded Libraries. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 6629-6644.	2.9	219
2	DNA-Encoded Chemical Libraries: Advancing beyond Conventional Small-Molecule Libraries. <i>Accounts of Chemical Research</i> , 2014, 47, 1247-1255.	7.6	203
3	Dual-display of small molecules enables the discovery of ligand pairs and facilitates affinity maturation. <i>Nature Chemistry</i> , 2015, 7, 241-249.	6.6	181
4	Efficient Nucleic Acid Detection by Templated Reductive Quencher Release. <i>Journal of the American Chemical Society</i> , 2009, 131, 16021-16023.	6.6	145
5	Bioorthogonal Removal of 3-Isocyanopropyl Groups Enables the Controlled Release of Fluorophores and Drugs in Vivo. <i>Journal of the American Chemical Society</i> , 2018, 140, 8410-8414.	6.6	103
6	Automated screening for small organic ligands using DNA-encoded chemical libraries. <i>Nature Protocols</i> , 2016, 11, 764-780.	5.5	94
7	Identification of Structure-Activity Relationships from Screening a Structurally Compact DNA-Encoded Chemical Library. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3927-3931.	7.2	86
8	A Focused DNA-Encoded Chemical Library for the Discovery of Inhibitors of NAD <sup>+</sup> -Dependent Enzymes. <i>Journal of the American Chemical Society</i> , 2019, 141, 5169-5181.	6.6	84
9	7- <i>Azidomethoxy</i> -Coumarins as Profluorophores for Templated Nucleic Acid Detection. <i>ChemBioChem</i> , 2008, 9, 2981-2988.	1.3	76
10	Achievements, Challenges, and Opportunities in DNA-Encoded Library Research: An Academic Point of View. <i>ChemBioChem</i> , 2017, 18, 829-836.	1.3	76
11	Pattern-Based Detection of Toxic Metals in Surface Water with DNA Polyfluorophores. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5361-5365.	7.2	68
12	Stable, Reactive, and Orthogonal Tetrazines: Dispersion Forces Promote the Cycloaddition with Isonitriles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9043-9048.	7.2	67
13	Mechanisms and Substituent Effects of Metal-Free Bioorthogonal Reactions. <i>Chemical Reviews</i> , 2021, 121, 6850-6914.	23.0	62
14	Dissociative Bioorthogonal Reactions. <i>ChemBioChem</i> , 2019, 20, 1615-1627.	1.3	61
15	Tankyrase 1 Inhibitors with Drug-like Properties Identified by Screening a DNA-Encoded Chemical Library. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5143-5149.	2.9	60
16	Systematic Evaluation and Optimization of Modification Reactions of Oligonucleotides with Amines and Carboxylic Acids for the Synthesis of DNA-Encoded Chemical Libraries. <i>Bioconjugate Chemistry</i> , 2014, 25, 1453-1461.	1.8	56
17	Rapid and efficient tetrazine-induced drug release from highly stable benzonorbornadiene derivatives. <i>Chemical Communications</i> , 2017, 53, 6271-6274.	2.2	55
18	Organometallic Activation of a Fluorogen for Templated Nucleic Acid Detection. <i>Organic Letters</i> , 2008, 10, 2935-2938.	2.4	47

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19	Two Successive Reactions on a DNA Template: A Strategy for Improving Background Fluorescence and Specificity in Nucleic Acid Detection. <i>Chemistry - A European Journal</i> , 2011, 17, 2168-2175.	1.7	44
20	Improved Templated Fluorogenic Probes Enhance the Analysis of Closely Related Pathogenic Bacteria by Microscopy and Flow Cytometry. <i>Bioconjugate Chemistry</i> , 2011, 22, 1869-1877.	1.8	41
21	Isonitrile-responsive and bioorthogonally removable tetrazine protecting groups. <i>Chemical Science</i> , 2020, 11, 169-179.	3.7	41
22	A DNA-Encoded Library of Chemical Compounds Based on Common Scaffolding Structures Reveals the Impact of Ligand Geometry on Protein Recognition. <i>ChemMedChem</i> , 2018, 13, 1303-1307.	1.6	37
23	Interrogating target-specificity by parallel screening of a DNA-encoded chemical library against closely related proteins. <i>Chemical Communications</i> , 2015, 51, 8014-8016.	2.2	32
24	Dissociative reactions of benzonorbornadienes with tetrazines: scope of leaving groups and mechanistic insights. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9855-9865.	1.5	28
25	Templated Chemistry for Sequence-Specific Fluorogenic Detection of Duplex DNA. <i>ChemBioChem</i> , 2010, 11, 2132-2137.	1.3	27
26	In Vitro Fluorogenic Real-Time Assay of the Repair of Oxidative DNA Damage. <i>ChemBioChem</i> , 2015, 16, 1637-1646.	1.3	26
27	“Cap-and-Catch” Purification for Enhancing the Quality of Libraries of DNA Conjugates. <i>ACS Combinatorial Science</i> , 2015, 17, 393-398.	3.8	25
28	Tuning Isonitrile/Tetrazine Chemistry for Accelerated Deprotection and Formation of Stable Conjugates. <i>Journal of Organic Chemistry</i> , 2019, 84, 15520-15529.	1.7	22
29	The Unique Bioorthogonal Chemistry of Isonitriles. <i>Synlett</i> , 2020, 31, 938-944.	1.0	18
30	Integrating DNA-encoded chemical libraries with virtual combinatorial library screening: Optimizing a PARP10 inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127464.	1.0	13
31	Stable, Reactive, and Orthogonal Tetrazines: Dispersion Forces Promote the Cycloaddition with Isonitriles. <i>Angewandte Chemie</i> , 2019, 131, 9141-9146.	1.6	12
32	Stability of Oligonucleotide-Small Molecule Conjugates to DNA-Deprotection Conditions. <i>Bioconjugate Chemistry</i> , 2017, 28, 1076-1083.	1.8	11
33	A Stable Precursor for Bioorthogonally Removable 3-Isocyanopropylloxycarbonyl (ICPrC) Protecting Groups. <i>Synlett</i> , 2020, 31, 1701-1706.	1.0	1
34	Stable, Reactive, and Orthogonal Tetrazines: Dispersion Forces Promote the Cycloaddition with Isonitriles ( <i>Angew. Chem.</i> 27/2019). <i>Angewandte Chemie</i> , 2019, 131, 9390-9390.	1.6	0