

# Vishal Rai

## List of Publications by Year in descending order

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32  
papers

1,914  
citations

430874

18  
h-index

414414

32  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein inspired chemically orthogonal imines for linchpin directed precise and modular labeling of lysine in proteins. <i>Chemical Communications</i> , 2022, 58, 1768-1771.	4.1	6
2	Chemical technologies for precise protein bioconjugation interfacing biology and medicine. <i>Chemical Communications</i> , 2021, 57, 7083-7095.	4.1	13
3	Linchpins empower promiscuous electrophiles to enable site-selective modification of histidine and aspartic acid in proteins. <i>Chemical Science</i> , 2021, 12, 6732-6736.	7.4	20
4	Reactivity and Selectivity Principles in Native Protein Bioconjugation. <i>Chemical Record</i> , 2021, 21, 1941-1956.	5.8	8
5	A single amino acid Gly-tag enables metal-free protein purification. <i>Chemical Science</i> , 2020, 11, 13137-13142.	7.4	10
6	Chemical methods for modification of proteins. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4669-4691.	2.8	47
7	Chemoselective and Site-Selective Lysine-Directed Lysine Modification Enables Single-Site Labeling of Native Proteins. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10332-10336.	13.8	49
8	Chemoselective and Site-Selective Lysine-Directed Lysine Modification Enables Single-Site Labeling of Native Proteins. <i>Angewandte Chemie</i> , 2020, 132, 10418-10422.	2.0	16
9	Sensitivity booster for mass detection enables unambiguous analysis of peptides, proteins, antibodies, and protein bioconjugates. <i>Chemical Communications</i> , 2019, 55, 9979-9982.	4.1	10
10	Chemical Methods for Selective Labeling of Proteins. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6749-6763.	2.4	41
11	Computationally designed antibody-drug conjugates self-assembled via affinity ligands. <i>Nature Biomedical Engineering</i> , 2019, 3, 917-929.	22.5	19
12	Single-site glycine-specific labeling of proteins. <i>Nature Communications</i> , 2019, 10, 2539.	12.8	61
13	Single-site labeling of histidine in proteins, on-demand reversibility, and traceless metal-free protein purification. <i>Chemical Communications</i> , 2019, 55, 1100-1103.	4.1	36
14	Aldehydes can switch the chemoselectivity of electrophiles in protein labeling. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 9377-9381.	2.8	14
15	Single-Site Labeling of Native Proteins Enabled by a Chemoselective and Site-Selective Chemical Technology. <i>Journal of the American Chemical Society</i> , 2018, 140, 15114-15123.	13.7	104
16	Single-site labeling of lysine in proteins through a metal-free multicomponent approach. <i>Chemical Communications</i> , 2018, 54, 7302-7305.	4.1	42
17	Site-Selective Labeling of Native Proteins by a Multicomponent Approach. <i>Chemistry - A European Journal</i> , 2017, 23, 3819-3823.	3.3	41
18	Chemoselective and site-selective peptide and native protein modification enabled by aldehyde auto-oxidation. <i>Chemical Communications</i> , 2017, 53, 959-962.	4.1	29

#	ARTICLE	IF	CITATIONS
19	Protein self-assembly induces promiscuous nucleophilic biocatalysis in Morita-Baylis-Hillman (MBH) reaction. <i>RSC Advances</i> , 2016, 6, 208-211.	3.6	13
20	Twisted amide electrophiles enable cyclic peptide sequencing. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7384-7388.	2.8	9
21	A phthalimidation protocol that follows protein defined parameters. <i>Chemical Communications</i> , 2015, 51, 473-476.	4.1	38
22	Small Heterocycles in Multicomponent Reactions. <i>Chemical Reviews</i> , 2014, 114, 8323-8359.	47.7	790
23	Bending Rigid Molecular Rods: Formation of Oligoproline Macrocycles. <i>Chemistry - A European Journal</i> , 2012, 18, 15612-15617.	3.3	24
24	Innentitelbild: Synchronized Synthesis of Peptide-Based Macrocycles by Digital Microfluidics ( <i>Angew.</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	2.8	0
25	Synchronized Synthesis of Peptide-Based Macrocycles by Digital Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8625-8629.	13.8	92
26	Inside Cover: Synchronized Synthesis of Peptide-Based Macrocycles by Digital Microfluidics ( <i>Angew.</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	13.8	0
27	Synthesis of peptide macrocycles using unprotected amino aldehydes. <i>Nature Protocols</i> , 2010, 5, 1813-1822.	12.0	46
28	Macrocyclization of Linear Peptides Enabled by Amphoteric Molecules. <i>Journal of the American Chemical Society</i> , 2010, 132, 2889-2891.	13.7	215
29	Effect of achiral and mixed chiral ligands on the asymmetric synthesis of $\hat{\text{I}}^3$ -nitrophosphonates via Michael addition. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 767-772.	1.8	13
30	Enantioselective conjugate addition of dialkyl phosphites to nitroalkenes. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2335-2338.	1.8	47
31	Cinchonine catalyzed diastereo- and enantioselective Michael addition of $\hat{\text{I}}^{\pm}$ -lithiated phosphonates to nitroalkenes. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 2719-2726.	1.8	16
32	A Theoretical Evaluation of the Michael-Acceptor Ability of Conjugated Nitroalkenes. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 4693-4703.	2.4	26