Milan Vrabel

List of Publications by Year
in descending order

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43 papers	1,229 citations	393982 19 h-index	360668 35 g-index
50 all docs	50 docs citations	50 times ranked	1241 citing authors

#	Article	IF	Citations
1	2.3 CuAAC in Protein Conjugation. , 2022, , .		0
2	Regio- and Diastereoselective 1,3-Dipolar Cycloadditions of 1,2,4-Triazin-1-ium Ylides: a Straightforward Synthetic Route to Polysubstituted Pyrrolo[2,1-f][1,2,4]triazines. ACS Omega, 2022, 7, 21233-21238.	1.6	4
3	Structurally Redesigned Bioorthogonal Reagents for Mitochondria-Specific Prodrug Activation. Jacs Au, 2021, 1, 23-30.	3.6	20
4	An Optimized Protocol for the Synthesis of Peptides Containing transâ€Cyclooctene and Bicyclononyne Dienophiles as Useful Multifunctional Bioorthogonal Probes. Chemistry - A European Journal, 2021, 27, 13632-13641.	1.7	9
5	4â€Sulfamoylphenylalkylamides as Inhibitors of Carbonic Anhydrases Expressed in Vibrio cholerae. ChemMedChem, 2021, 16, 3787-3794.	1.6	5
6	Transitionâ€Metalâ€Mediated versus Tetrazineâ€Triggered Bioorthogonal Release Reactions: Direct Comparison and Combinations Thereof. ChemPlusChem, 2020, 85, 1669-1675.	1.3	9
7	Genetic Code Expansion, Protein Expression, and Protein Functionalization in Bacillus subtilis. ACS Synthetic Biology, 2020, 9, 486-493.	1.9	12
8	A Systematic Study of Coumarinâ€“Tetrazine Lightâ€Up Probes for Bioorthogonal Fluorescence Imaging. Chemistry - A European Journal, 2020, 26, 9945-9953.	1.7	35
9	Synthesis of Base-Modified dNTPs Through Cross-Coupling Reactions and Their Polymerase Incorporation to DNA. Methods in Molecular Biology, 2019, 1973, 39-57.	0.4	1
10	Bioorthogonal Fluorescence Turnâ€On Labeling Based on Bicyclononyneâ^'Tetrazine Cycloaddition Reactions that Form Pyridazine Products. ChemPlusChem, 2019, 84, 493-497.	1.3	25
11	An Extended Approach for the Development of Fluorogenic transâ€Cyclooctyneâ€“Tetrazine Cycloadditions. ChemBioChem, 2019, 20, 886-890.	1.3	21
12	Probing the Scope of the Amidineâ€“1,2,3â€triazine Cycloaddition as a Prospective Click Ligation Method. European Journal of Organic Chemistry, 2018, 2018, 5081-5085.	1.2	11
13	Design and Synthesis of Azaâ€Bicyclononene Dienophiles for Rapid Fluorogenic Ligations. Chemistry - A European Journal, 2018, 24, 2426-2432.	1.7	22
14	Stepwise triple-click functionalization of synthetic peptides. Organic and Biomolecular Chemistry, 2018, 16, 5960-5964.	1.5	10
15	The discovery of pyridinium 1,2,4-triazines with enhanced performance in bioconjugation reactions. Chemical Science, 2017, 8, 3593-3598.	3.7	35
16	Mechanismâ€Based Fluorogenic transâ€Cyclooctyneâ€“Tetrazine Cycloaddition. Angewandte Chemie, 2017, 129, 1354-1357.	1.6	19
17	Mechanismâ€Based Fluorogenic transâ€Cyclooctyneâ€“Tetrazine Cycloaddition. Angewandte Chemie - International Edition, 2017, 56, 1334-1337.	7.2	57
18	Single-Step Formation of Pyrimido[4,5-d]pyridazines by a Pyrimidine-Tetrazine Tandem Reaction. Organic Letters, 2016, 18, 3594-3597.	2.4	12

#	Article	IF	Citations
19	M. Vrabel and T. Carell for Cycloadditions in Bioorthogonal Chemistry. Topics in Current Chemistry, 2016, 374, 15.	3.0	3
20	Genetically designed biomolecular capping system for mesoporous silica nanoparticles enables receptor-mediated cell uptake and controlled drug release. Nanoscale, 2016, 8, 8101-8110.	2.8	23
21	Bioorthogonal Chemistryâ€"Introduction and Overview. Topics in Current Chemistry, 2016, 374, 9.	3.0	36
22	Orchestrating the Biosynthesis of an Unnatural Pyrrolysine Amino Acid for Its Direct Incorporation into Proteins Inside Living Cells. Chemistry - A European Journal, 2015, 21, 7701-7704.	1.7	28
23	Synthesis and DNAâ€Damaging Properties of Cisplatinâ€Nâ€Mustard Conjugates. European Journal of Organic Chemistry, 2015, 2015, 2654-2660.	1.2	7
24	Azidopropylvinylsulfonamide as a New Bifunctional Click Reagent for Bioorthogonal Conjugations: Application for DNAâ€"Protein Crossâ€Linking. Chemistry - A European Journal, 2015, 21, 16091-16102.	1.7	20
25	Structural Basis for the Site-Specific Incorporation of Lysine Derivatives into Proteins. PLoS ONE, 2014, 9, e96198.	1.1	15
26	Sulfonyl azide-mediated norbornene aziridination for orthogonal peptide and protein labeling. Chemical Communications, 2014, 50, 12568-12571.	2.2	13
27	Norbornenes in Inverse Electronâ€Demand Dielsâ€"Alder Reactions. Chemistry - A European Journal, 2013, 19, 13309-13312.	1.7	61
28	Synthesis of Îµ-N-propionyl-, Îµ-N-butyryl-, and Îµ-N-crotonyl-lysine containing histone H3 using the pyrrolysine system. Chemical Communications, 2013, 49, 379-381.	2.2	79
29	Structural Insights into Incorporation of Norbornene Amino Acids for Click Modification of Proteins. ChemBioChem, 2013, 14, 2114-2118.	1.3	34
30	Structural basis for the site-specific chemical modification of proteins. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s325-s326.	0.3	0
31	A Genetically Encoded Norbornene Amino Acid for the Mild and Selective Modification of Proteins in a Copperâ€Free Click Reaction. Angewandte Chemie - International Edition, 2012, 51, 4466-4469.	7.2	143
32	Optimization of the posttranslational click modification of proteins. Collection of Czechoslovak Chemical Communications, 2011, 76, 1089-1101.	1.0	0
33	Crossâ€Coupling Modification of Nucleoside Triphosphates, PEX, and PCR Construction of Baseâ€Modified DNA. Current Protocols in Chemical Biology, 2010, 2, 1-14.	1.7	5
34	Baseâ€Modified DNA Labeled by [Ru(bpy)₃]²⁺ and [Os(bpy)₃]²⁺ Complexes: Construction by Polymerase Incorporation of Modified Nucleoside Triphosphates, Electrochemical and Luminescent Properties, and Applications. Chemistry - A European Journal, 2009, 15, 1144-1154.	1.7	96
35	Synthesis of Threefold Glycosylated Proteins using Click Chemistry and Genetically Encoded Unnatural Amino Acids. ChemBioChem, 2009, 10, 2858-2861.	1.3	52
36	Synthesis and photophysical properties of 7-deaza-2â€²-deoxyadenosines bearing bipyridine ligands and their Ru(ii)-complexes in position 7. Organic and Biomolecular Chemistry, 2008, 6, 2852.	1.5	40

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37	Novel base-functionalized DNA. Efficient methodology for construction and bioanalytical applications. Nucleic Acids Symposium Series, 2008, 52, 53-54.	0.3	0
38	Synthesis of modified nucleosides, nucleotides and oligonucleotides bearing metal complexes. , 2008, , .		0
39	Synthesis of 2â€²-deoxyadenosine nucleosides bearing bipyridine-type ligands and their Ru-complexes in position 8 through cross-coupling reactions. Organic and Biomolecular Chemistry, 2007, 5, 2849.	1.5	48
40	Ferrocenylethynyl Derivatives of Nucleoside Triphosphates: Synthesis, Incorporation, Electrochemistry, and Bioanalytical Applications. Chemistry - A European Journal, 2007, 13, 9527-9533.	1.7	117
41	Purines Bearing Phenanthroline or Bipyridine Ligands and Their RuII Complexes in Position 8 as Model Compounds for Electrochemical DNA Labeling â€“ Synthesis, Crystal Structure, Electrochemistry, Quantum Chemical Calculations, Cytostatic and Antiviral Activity. European Journal of Inorganic Chemistry, 2007, 2007, 1752-1769.	1.0	45
42	Aqueous-Phase Suzuki-Miyaura Cross-Coupling Reactions of Free Halopurine Bases. Synthesis, 2006, 2006, 3515-3526.	1.2	6
43	Synthesis of modified nucleosides and oligonucleotides bearing bipyridine or phenanthroline ligands. , 2005, , .		1