

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	A Genetically Encoded Norbornene Amino Acid for the Mild and Selective Modification of Proteins in a Copper-Free Click Reaction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4466-4469.	7.2	143
2	Ferrocenylethynyl Derivatives of Nucleoside Triphosphates: Synthesis, Incorporation, Electrochemistry, and Bioanalytical Applications. <i>Chemistry - A European Journal</i> , 2007, 13, 9527-9533.	1.7	117
3	Base-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. <i>Chemistry - A European Journal</i> , 2009, 15, 1144-1154.	1.7	96
4	Synthesis of Îµ-N-propionyl-, Îµ-N-buteryl-, and Îµ-N-crotonyl-lysine containing histone H3 using the pyrrolysine system. <i>Chemical Communications</i> , 2013, 49, 379-381.	2.2	79
5	Norbornenes in Inverse Electron-Demand Diels-Alder Reactions. <i>Chemistry - A European Journal</i> , 2013, 19, 13309-13312.	1.7	61
6	Mechanism-Based Fluorogenic <i>trans</i> -Cyclooctene-Tetrazine Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1334-1337.	7.2	57
7	Synthesis of Threefold Glycosylated Proteins using Click Chemistry and Genetically Encoded Unnatural Amino Acids. <i>ChemBioChem</i> , 2009, 10, 2858-2861.	1.3	52
8	Synthesis of 2-deoxyadenosine nucleosides bearing bipyridine-type ligands and their Ru-complexes in position 8 through cross-coupling reactions. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2849.	1.5	48
9	Purines Bearing Phenanthroline or Bipyridine Ligands and Their Rull Complexes in Position 8 as Model Compounds for Electrochemical DNA Labeling - Synthesis, Crystal Structure, Electrochemistry, Quantum Chemical Calculations, Cytostatic and Antiviral Activity. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1752-1769.	1.0	45
10	Synthesis and photophysical properties of 7-deaza-2-deoxyadenosines bearing bipyridine ligands and their Ru(ii)-complexes in position 7. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2852.	1.5	40
11	Bioorthogonal Chemistry - Introduction and Overview. <i>Topics in Current Chemistry</i> , 2016, 374, 9.	3.0	36
12	The discovery of pyridinium 1,2,4-triazines with enhanced performance in bioconjugation reactions. <i>Chemical Science</i> , 2017, 8, 3593-3598.	3.7	35
13	A Systematic Study of Coumarin-Tetrazine Light-Up Probes for Bioorthogonal Fluorescence Imaging. <i>Chemistry - A European Journal</i> , 2020, 26, 9945-9953.	1.7	35
14	Structural Insights into Incorporation of Norbornene Amino Acids for Click Modification of Proteins. <i>ChemBioChem</i> , 2013, 14, 2114-2118.	1.3	34
15	Orchestrating the Biosynthesis of an Unnatural Pyrrolysine Amino Acid for Its Direct Incorporation into Proteins Inside Living Cells. <i>Chemistry - A European Journal</i> , 2015, 21, 7701-7704.	1.7	28
16	Bioorthogonal Fluorescence Turn-On Labeling Based on Bicyclononyne-Tetrazine Cycloaddition Reactions that Form Pyridazine Products. <i>ChemPlusChem</i> , 2019, 84, 493-497.	1.3	25
17	Genetically designed biomolecular capping system for mesoporous silica nanoparticles enables receptor-mediated cell uptake and controlled drug release. <i>Nanoscale</i> , 2016, 8, 8101-8110.	2.8	23
18	Design and Synthesis of Aza-Bicyclononyne Dienophiles for Rapid Fluorogenic Ligations. <i>Chemistry - A European Journal</i> , 2018, 24, 2426-2432.	1.7	22

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19	An Extended Approach for the Development of Fluorogenic <i>trans</i> -Cyclooctene-Tetrazine Cycloadditions. <i>ChemBioChem</i> , 2019, 20, 886-890.	1.3	21
20	Azidopropylvinylsulfonamide as a New Bifunctional Click Reagent for Bioorthogonal Conjugations: Application for DNA-Protein Cross-Linking. <i>Chemistry - A European Journal</i> , 2015, 21, 16091-16102.	1.7	20
21	Structurally Redesigned Bioorthogonal Reagents for Mitochondria-Specific Prodrug Activation. <i>Jacs Au</i> , 2021, 1, 23-30.	3.6	20
22	Mechanism-Based Fluorogenic <i>trans</i> -Cyclooctene-Tetrazine Cycloaddition. <i>Angewandte Chemie</i> , 2017, 129, 1354-1357.	1.6	19
23	Structural Basis for the Site-Specific Incorporation of Lysine Derivatives into Proteins. <i>PLoS ONE</i> , 2014, 9, e96198.	1.1	15
24	Sulfonyl azide-mediated norbornene aziridination for orthogonal peptide and protein labeling. <i>Chemical Communications</i> , 2014, 50, 12568-12571.	2.2	13
25	Single-Step Formation of Pyrimido[4,5- <i>d</i>]pyridazines by a Pyrimidine-Tetrazine Tandem Reaction. <i>Organic Letters</i> , 2016, 18, 3594-3597.	2.4	12
26	Genetic Code Expansion, Protein Expression, and Protein Functionalization in <i>Bacillus subtilis</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 486-493.	1.9	12
27	Probing the Scope of the Amidine-1,2,3-triazine Cycloaddition as a Prospective Click Ligation Method. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5081-5085.	1.2	11
28	Stepwise triple-click functionalization of synthetic peptides. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5960-5964.	1.5	10
29	Transition-Metal-Mediated versus Tetrazine-Triggered Bioorthogonal Release Reactions: Direct Comparison and Combinations Thereof. <i>ChemPlusChem</i> , 2020, 85, 1669-1675.	1.3	9
30	An Optimized Protocol for the Synthesis of Peptides Containing <i>trans</i> -Cyclooctene and Bicyclononyne Dienophiles as Useful Multifunctional Bioorthogonal Probes. <i>Chemistry - A European Journal</i> , 2021, 27, 13632-13641.	1.7	9
31	Synthesis and DNA-Damaging Properties of Cisplatin-N-Mustard Conjugates. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 2654-2660.	1.2	7
32	Aqueous-Phase Suzuki-Miyaura Cross-Coupling Reactions of Free Halopurine Bases. <i>Synthesis</i> , 2006, 2006, 3515-3526.	1.2	6
33	4-Sulfamoylphenylalkylamides as Inhibitors of Carbonic Anhydrases Expressed in <i>Vibrio cholerae</i> . <i>ChemMedChem</i> , 2021, 16, 3787-3794.	1.6	5
34	Cross-Coupling Modification of Nucleoside Triphosphates, PEX, and PCR Construction of Base-Modified DNA. <i>Current Protocols in Chemical Biology</i> , 2010, 2, 1-14.	1.7	5
35	Regio- and Diastereoselective 1,3-Dipolar Cycloadditions of 1,2,4-Triazin-1-ium Ylides: a Straightforward Synthetic Route to Polysubstituted Pyrrolo[2,1- <i>f</i>][1,2,4]triazines. <i>ACS Omega</i> , 2022, 7, 21233-21238.	1.6	4
36	M. Vrabel and T. Carell for Cycloadditions in Bioorthogonal Chemistry. <i>Topics in Current Chemistry</i> , 2016, 374, 15.	3.0	3

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37	Synthesis of Base-Modified dNTPs Through Cross-Coupling Reactions and Their Polymerase Incorporation to DNA. <i>Methods in Molecular Biology</i> , 2019, 1973, 39-57.	0.4	1
38	Synthesis of modified nucleosides and oligonucleotides bearing bipyridine or phenanthroline ligands. , 2005, , .		1
39	Novel base-functionalized DNA. Efficient methodology for construction and bioanalytical applications. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 53-54.	0.3	0
40	Optimization of the posttranslational click modification of proteins. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 1089-1101.	1.0	0
41	Structural basis for the site-specific chemical modification of proteins. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s325-s326.	0.3	0
42	Synthesis of modified nucleosides, nucleotides and oligonucleotides bearing metal complexes. , 2008, , .		0
43	2.3 CuAAC in Protein Conjugation. , 2022, , .		0