

Marcin KaÅ,ek

List of Publications by Year in descending order

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44
papers

1,730
citations

257450

24
h-index

276875

41
g-index

52
all docs

52
docs citations

52
times ranked

1808
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-Assisted Palladium-Catalyzed Cross-Coupling of Aryl and Vinyl Halides with H-Phosphonate Diesters. <i>Organic Letters</i> , 2008, 10, 4637-4640.	4.6	174
2	Preparation of Arylphosphonates by Palladium(0)-Catalyzed Cross-Coupling in the Presence of Acetate Additives: Synthetic and Mechanistic Studies. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 3207-3216.	4.3	147
3	Phosphine-Catalyzed Enantioselective Intramolecular [3+2] Annulations To Generate Fused Ring Systems. <i>Journal of the American Chemical Society</i> , 2015, 137, 4587-4591.	13.7	103
4	mRNA Decapping Is Promoted by an RNA-Binding Channel in Dcp2. <i>Molecular Cell</i> , 2008, 29, 324-336.	9.7	99
5	Pd(0)-Catalyzed Phosphorus-Carbon Bond Formation. Mechanistic and Synthetic Studies on the Role of the Palladium Sources and Anionic Additives. <i>Organometallics</i> , 2007, 26, 5840-5847.	2.3	82
6	Palladium-Catalyzed C-P Bond Formation: Mechanistic Studies on the Ligand Substitution and the Reductive Elimination. An Intramolecular Catalysis by the Acetate Group in Pd(II) Complexes. <i>Organometallics</i> , 2008, 27, 5876-5888.	2.3	79
7	Phosphine-Catalyzed Doubly Stereoconvergent β -Additions of Racemic Heterocycles to Racemic Allenolates: The Catalytic Enantioselective Synthesis of Protected β -Disubstituted β -Amino Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2015, 137, 9438-9442.	13.7	75
8	Differential Inhibition of mRNA Degradation Pathways by Novel Cap Analogs. <i>Journal of Biological Chemistry</i> , 2006, 281, 1857-1867.	3.4	73
9	Elucidation of Mechanisms and Selectivities of Metal-Catalyzed Reactions using Quantum Chemical Methodology. <i>Accounts of Chemical Research</i> , 2016, 49, 1006-1018.	15.6	73
10	Mechanism, reactivity, and selectivity of the iridium-catalyzed C(sp ³)-H borylation of chlorosilanes. <i>Chemical Science</i> , 2015, 6, 1735-1746.	7.4	63
11	Palladium-Catalyzed Propargylic Substitution with Phosphorus Nucleophiles: Efficient, Stereoselective Synthesis of Allenylphosphonates and Related Compounds. <i>Organic Letters</i> , 2010, 12, 4702-4704.	4.6	61
12	Effective Modulation of DNA Duplex Stability by Reversible Transition Metal Complex Formation in the Minor Groove. <i>Journal of the American Chemical Society</i> , 2007, 129, 9392-9400.	13.7	58
13	Enzymatically stable 5'-mRNA cap analogs: Synthesis and binding studies with human DcpS decapping enzyme. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 3223-3230.	3.0	51
14	Novel, Stereoselective and Stereospecific Synthesis of Allenylphosphonates and Related Compounds via Palladium-Catalyzed Propargylic Substitution. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 1741-1755.	4.3	47
15	Mechanism and Selectivity of Cooperatively Catalyzed Meyer-Schuster Rearrangement/Tsuji-Trost Allylic Substitution. Evaluation of Synergistic Catalysis by Means of Combined DFT and Kinetics Simulations. <i>Journal of the American Chemical Society</i> , 2017, 139, 10250-10266.	13.7	43
16	A direct method for the synthesis of nucleoside 5'-methylenebis(phosphonate)s from nucleosides. <i>Tetrahedron Letters</i> , 2005, 46, 2417-2421.	1.4	38
17	Efficient synthesis of mono- and diarylphosphinic acids: a microwave-assisted palladium-catalyzed cross-coupling of aryl halides with phosphinate. <i>Tetrahedron</i> , 2009, 65, 10406-10412.	1.9	35
18	Atom-Efficient Gold(I)-Chloride-Catalyzed Synthesis of β -Sulfonylated Carbonyl Compounds from Propargylic Alcohols and Aryl Thiols: Substrate Scope and Experimental and Theoretical Mechanistic Investigation. <i>Chemistry - A European Journal</i> , 2013, 19, 17939-17950.	3.3	33

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19	Iodine-promoted silylation of alcohols with silyl chlorides. Synthetic and mechanistic studies. <i>Tetrahedron</i> , 2008, 64, 8843-8850.	1.9	32
20	Preparation of benzylphosphonates via a palladium(0)-catalyzed cross-coupling of H-phosphonate diesters with benzyl halides. Synthetic and mechanistic studies. <i>New Journal of Chemistry</i> , 2010, 34, 967.	2.8	31
21	Organocatalytic Group Transfer Reactions with Hypervalent Iodine Reagents. <i>Synthesis</i> , 2019, 51, 359-370.	2.3	30
22	SYNTHESIS AND BIOCHEMICAL PROPERTIES OF NOVEL mRNA 5' CAP ANALOGS RESISTANT TO ENZYMATIC HYDROLYSIS. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 615-621.	1.1	28
23	N-Heterocyclic Carbene-Catalyzed Synthesis of Ynones via C-H Alkynylation of Aldehydes with Alkynyliodonium Salts Evidence for Alkynyl Transfer via Direct Substitution at Acetylenic Carbon. <i>ACS Catalysis</i> , 2020, 10, 831-841.	11.2	27
24	Combining Meyer-Schuster Rearrangement with Aldol and Mannich Reactions: Theoretical Study of the Intermediate Interception Strategy. <i>Journal of the American Chemical Society</i> , 2012, 134, 19159-19169.	13.7	26
25	Transition-Metal-Free Aryl-Aryl Cross-Coupling: C-H Arylation of 2-Naphthols with Diaryliodonium Salts. <i>Chemistry - A European Journal</i> , 2019, 25, 9619-9623.	3.3	25
26	N-Heterocyclic Carbene-Catalyzed Olefination of Aldehydes with Vinyliodonium Salts To Generate α,β -Unsaturated Ketones. <i>Organic Letters</i> , 2018, 20, 1906-1909.	4.6	23
27	Mechanism and Selectivity of Rhodium-Catalyzed 1:2 Coupling of Aldehydes and Allenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 7647-7659.	13.7	22
28	Caution in the Use of Nonlinear Effects as a Mechanistic Tool for Catalytic Enantioconvergent Reactions: Intrinsic Negative Nonlinear Effects in the Absence of Higher-Order Species. <i>Journal of the American Chemical Society</i> , 2017, 139, 4225-4229.	13.7	21
29	Mg ²⁺ -Dependent Methyl Transfer by a Knotted Protein: A Molecular Dynamics Simulation and Quantum Mechanics Study. <i>ACS Catalysis</i> , 2020, 10, 8058-8068.	11.2	15
30	Mechanism of Iodine(III)-Promoted Oxidative Dearomatizing Hydroxylation of Phenols: Evidence for a Radical Chain Pathway. <i>Chemistry - A European Journal</i> , 2020, 26, 11584-11592.	3.3	15
31	The Case for the Intermediacy of Monomeric Metaphosphate Analogues during Oxidation of H-Phosphonothioate, H-Phosphonodithioate, and H-Phosphonoselenoate Monoesters: Mechanistic and Synthetic Studies. <i>Journal of Organic Chemistry</i> , 2008, 73, 5029-5038.	3.2	13
32	Synthesis of Aryl Sulfides by Metal-Free Arylation of Thiols with Diaryliodonium Salts under Basic Conditions**. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	12
33	Identification of efficient and sequence specific bimolecular artificial ribonucleases by a combinatorial approach. <i>Chemical Communications</i> , 2008, , 762-764.	4.1	11
34	A New Reagent System for Efficient Silylation of Alcohols: Silyl Chloride-N-Methylimidazole-Iodine. <i>Synlett</i> , 2008, 2008, 37-40.	1.8	11
35	Mechanistic Insight into Enantioselective Palladium-Catalyzed Oxidative Carbocyclization-Borylation of Enallenes. <i>Chemistry - A European Journal</i> , 2018, 24, 2433-2439.	3.3	11
36	Computational Study of the Mechanism and Selectivity of Palladium-Catalyzed Propargylic Substitution with Phosphorus Nucleophiles. <i>Chemistry - A European Journal</i> , 2012, 18, 12424-12436.	3.3	10

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37	Interaction of human decapping scavenger with 5' mRNA cap analogues: structural requirements for catalytic activity. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 285217.	1.8	8
38	On the Sulfurization of <i>H</i> -Phosphonate Diesters and Phosphite Triesters Using Elemental Sulfur. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2009, 184, 908-916.	1.6	7
39	NOVEL DINUCLEOSIDE 5',5'-TRIPHOSPHATE CAP ANALOGUES. SYNTHESIS AND AFFINITY FOR MURINE TRANSLATION FACTOR eIF4E. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 629-633.	1.1	6
40	Synthesis of Pummerer's ketone and its analogs by iodosobenzene-promoted oxidative phenolic coupling. <i>Tetrahedron Letters</i> , 2020, 61, 152459.	1.4	6
41	Synthesis of nucleoside phosphorothio-, phosphorodithio- and phosphoroselenoate diesters via oxidative esterification of the corresponding H-phosphonate analogues. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 285-286.	0.3	2
42	Diazonium-Based Covalent Molecular Wiring of Single-Layer Graphene Leads to Enhanced Unidirectional Photocurrent Generation through the p-doping Effect. <i>Chemistry of Materials</i> , 2022, 34, 3744-3758.	6.7	2
43	³¹ P NMR and Computational Studies on Stereochemistry of Conversion of Phosphoramidate Diesters into the Corresponding Phosphotriesters. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2011, 30, 552-564.	1.1	1
44	Second generation of nucleotide analogues. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 0, 1-4.	1.6	0