

Markus R Heinrich

List of Publications by Year in descending order

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112
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docs citations

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times ranked

2628
citing authors

#	ARTICLE	IF	CITATIONS
1	Intermolecular Olefin Functionalisation Involving Aryl Radicals Generated from Arenediazonium Salts. <i>Chemistry - A European Journal</i> , 2009, 15, 820-833.	3.3	260
2	Intermolecular Radical Carboaminohydroxylation of Olefins with Aryl Diazonium Salts and TEMPO. <i>Organic Letters</i> , 2007, 9, 3833-3835.	4.6	107
3	Enhancing the Catalytic Activity of 4-(Dialkylamino)pyridines by Conformational Fixation. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4826-4828.	13.8	106
4	Synthesis of Amino- and Hydroxybiphenyls by Radical Chain Reaction of Arenediazonium Salts. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9130-9133.	13.8	105
5	Radical Arylation of Phenols, Phenyl Ethers, and Furans. <i>Chemistry - A European Journal</i> , 2010, 16, 2547-2556.	3.3	105
6	Recent Advances in Meerwein Arylation Chemistry. <i>Synthesis</i> , 2016, 48, 1597-1606.	2.3	91
7	Regioselective Radical Arylation of Anilines with Arylhydrazines. <i>Journal of Organic Chemistry</i> , 2012, 77, 10699-10706.	3.2	83
8	Oxidative Radical Arylation of Anilines with Arylhydrazines and Dioxygen from Air. <i>Journal of Organic Chemistry</i> , 2014, 79, 2314-2320.	3.2	81
9	Base-Induced Radical Carboamination of Nonactivated Alkenes with Aryldiazonium Salts. <i>Organic Letters</i> , 2015, 17, 6122-6125.	4.6	70
10	Thermally Induced Carbohydroxylation of Styrenes with Aryldiazonium Salts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8744-8747.	13.8	67
11	Allylation and Vinylation of Aryl Radicals Generated from Diazonium Salts. <i>Journal of Organic Chemistry</i> , 2007, 72, 9609-9616.	3.2	65
12	Reductive Carbodiazonylation of Nonactivated Olefins via Aryl Diazonium Salts. <i>Organic Letters</i> , 2006, 8, 3323-3325.	4.6	64
13	Structure-guided development of selective M3 muscarinic acetylcholine receptor antagonists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12046-12050.	7.1	64
14	The Gomberg-Bachmann Reaction for the Arylation of Anilines with Aryl Diazotates. <i>Chemistry - A European Journal</i> , 2012, 18, 11555-11559.	3.3	59
15	Radical Carbodiazonylation – A Convenient and Effective Method to Achieve Carboamination of Non-Activated Olefins. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 3179-3189.	2.4	57
16	Hydroxy- and Aminophenyl Radicals from Arenediazonium Salts. <i>Chemistry - A European Journal</i> , 2011, 17, 4104-4108.	3.3	55
17	Intermolecular Radical Carbofluorination of Non-activated Alkenes. <i>Chemistry - A European Journal</i> , 2014, 20, 15344-15348.	3.3	52
18	Total synthesis of the marine alkaloid halituloin. <i>Tetrahedron</i> , 2003, 59, 9239-9247.	1.9	47

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19	Nucleophilic Substitutions and Radical Reactions of Phenylazocarboxylates. <i>Journal of Organic Chemistry</i> , 2012, 77, 1520-1532.	3.2	47
20	4-Substituted <i>tert</i> -Butyl Phenylazocarboxylates as Synthetic Equivalents for the Phenyl Radical Cation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9769-9772.	13.8	45
21	Oxidative and Reductive Carbodiazonylation of Nonactivated Olefins. <i>Journal of Organic Chemistry</i> , 2007, 72, 476-484.	3.2	42
22	Recent developments in intermolecular radical arylations of arenes and heteroarenes. <i>Tetrahedron Letters</i> , 2016, 57, 4334-4340.	1.4	41
23	Visible-Light-Induced, Catalyst-Free Radical Arylations of Arenes and Heteroarenes with Aryldiazonium Salts. <i>Chemistry - A European Journal</i> , 2017, 23, 15312-15315.	3.3	41
24	Developing environmentally benign routes for semiconductor synthesis: improved approaches to the solution deposition of cadmium sulfide for solar cell applications. <i>Green Chemistry</i> , 2000, 2, 79-86.	9.0	35
25	Manganese(IV)-Mediated Hydroperoxyarylation of Alkenes with Aryl Hydrazines and Dioxygen from Air. <i>Chemistry - A European Journal</i> , 2014, 20, 6251-6255.	3.3	35
26	Twofold Carbon-Carbon Bond Formation by Intra- and Intermolecular Radical Reactions of Aryl Diazonium Salts. <i>Chemistry - A European Journal</i> , 2013, 19, 8411-8416.	3.3	34
27	Alanine-glyoxylate aminotransferase 2 (AGXT2) Polymorphisms Have Considerable Impact on Methylarginine and β -aminoisobutyrate Metabolism in Healthy Volunteers. <i>PLoS ONE</i> , 2014, 9, e88544.	2.5	33
28	Switching and Conformational Fixation of Amides Through Proximate Positive Charges. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10294-10298.	13.8	32
29	Generation and Intermolecular Capture of Cyclopropylacyl Radicals. <i>Organic Letters</i> , 2004, 6, 4969-4972.	4.6	31
30	Revision of the structure of haliclorensine to (S)-7-methyl-1,5-diazacyclotetradecane and confirmation of the new structure by synthesis. <i>Tetrahedron</i> , 2001, 57, 9973-9978.	1.9	30
31	A convergent approach to β -carbonyl vinyl boronates. <i>Chemical Communications</i> , 2005, , 3077.	4.1	30
32	Modern Developments in Aryl Radical Chemistry. <i>Topics in Current Chemistry</i> , 2011, 320, 33-59.	4.0	29
33	The Trapping of Phenyldiazones in Cycloaddition Reactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11361-11365.	13.8	29
34	Fast and Efficient ^{18}F -Labeling by [^{18}F]Fluorophenylazocarboxylic Esters. <i>Chemistry - A European Journal</i> , 2014, 20, 370-375.	3.3	29
35	Development of Flavonoid-Based Inverse Agonists of the Key Signaling Receptor US28 of Human Cytomegalovirus. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5019-5032.	6.4	28
36	Radical arylation of tyrosine and its application in the synthesis of a highly selective neurotensin receptor 2 ligand. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3746.	2.8	27

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37	Identification of novel allosteric modulators for the G-protein coupled US28 receptor of human cytomegalovirus. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5446-5450.	2.2	27
38	Synthesis and Biological Evaluation of Biphenyl Amides That Modulate the US28 Receptor. <i>ChemMedChem</i> , 2014, 9, 151-168.	3.2	27
39	A novel method for the synthesis of the ternary thin film semiconductor cadmium zinc sulfide from acidic chemical baths. <i>Journal of Materials Chemistry</i> , 2000, 10, 2439-2441.	6.7	23
40	Synthesis of (âˆ—)-(3S)-1-(3-aminopropyl)-3-methylazacyclodecane, the structure proposed for the marine alkaloid haliclorensins. <i>Tetrahedron Letters</i> , 2001, 42, 3287-3289.	1.4	23
41	Regioselective Radical Arylation of 3-Hydroxypyridines. <i>Journal of Organic Chemistry</i> , 2016, 81, 5752-5758.	3.2	23
42	Carbodiazenylation of Olefins by Radical Iodine Transfer and Addition to Arenediazonium Salts. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 4331-4334.	2.4	22
43	Radical Carbonitrosation and Recycling of the Waste Gas Nitrogen Monoxide. <i>Chemistry - A European Journal</i> , 2011, 17, 9306-9310.	3.3	22
44	Fixation and recycling of nitrogen monoxide through carbonitrosation reactions. <i>Green Chemistry</i> , 2014, 16, 2982-2987.	9.0	22
45	Radical Carbofluorination of Alkenes with Arylhydrazines and Selectfluor: Additives, Mechanistic Pathways, and Polar Effects. <i>Chemistry - A European Journal</i> , 2019, 25, 2786-2792.	3.3	22
46	Radical Arylation of Anilines and Pyrroles via Aryldiazotates. <i>Chemistry - A European Journal</i> , 2017, 23, 9647-9656.	3.3	21
47	How the Structural Elucidation of the Natural Product Stephanosporin Led to New Developments in Aryl Radical and Medicinal Chemistry. <i>Synlett</i> , 2015, 26, 580-603.	1.8	20
48	Thermisch induzierte Carbohydroxylierung von Styrolen mit Aryldiazoniumsalzen. <i>Angewandte Chemie</i> , 2016, 128, 8886-8889.	2.0	20
49	Hydrogen Peroxide Promoted Mizoroki-Heck Reactions of Phenyl diazenes with Acrylates, Acrylamides, and Styrenes. <i>Organic Letters</i> , 2016, 18, 1586-1589.	4.6	20
50	Synthesis of Spirocyclohexadienones through Radical Cascade Reactions Featuring 3-Fold Carbon-Carbon Bond Formation. <i>Organic Letters</i> , 2017, 19, 2222-2225.	4.6	19
51	Visible Light Promoted, Catalyst-Free Radical Carbohydroxylation and Carboetherification under Mild Biomimetic Conditions. <i>Chemistry - A European Journal</i> , 2021, 27, 2452-2462.	3.3	19
52	Hydroperoxides and aryl diazonium salts as reagents for the functionalization of non-activated olefins. <i>Tetrahedron Letters</i> , 2010, 51, 1758-1760.	1.4	18
53	Synthesis and Application of the First Radioligand Targeting the Allosteric Binding Pocket of Chemokine Receptor CXCR3. <i>ChemMedChem</i> , 2012, 7, 1481-1489.	3.2	18
54	Cycloaddition reactions of glycine imine anions to phenylazocarboxylic esters - a new access to 1,3,5-trisubstituted 1,2,4-triazoles. <i>Tetrahedron</i> , 2015, 71, 4282-4295.	1.9	18

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55	Strongly Directing Substituents in the Radical Arylation of Substituted Benzenes. <i>Journal of Organic Chemistry</i> , 2016, 81, 9785-9791.	3.2	18
56	Shifted Selectivity in Protonation Enables the Mild Deuteration of Arenes Through Catalytic Amounts of Bronsted Acids in Deuterated Methanol. <i>Journal of Organic Chemistry</i> , 2020, 85, 11856-11866.	3.2	18
57	Ligand-Biased and Probe-Dependent Modulation of Chemokine Receptor CXCR3 Signaling by Negative Allosteric Modulators. <i>ChemMedChem</i> , 2015, 10, 566-574.	3.2	17
58	Nitrogen Oxides and Nitric Acid Enable the Sustainable Hydroxylation and Nitrohydroxylation of Benzenes under Visible Light Irradiation. <i>Journal of Organic Chemistry</i> , 2018, 83, 431-436.	3.2	17
59	Synthesis of (S)-(+)-cericlamine through lipase-catalyzed aminolysis of azo acetates. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 3384.	2.8	16
60	Radiosynthesis and Validation of ¹⁸ F-FP-CMT, a Phenyltropane with Superior Properties for Imaging the Dopamine Transporter in Living Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1148-1156.	4.3	16
61	Zinc-Mediated Allylation and Benzoylation of Phenylazocarboxylic Esters. <i>Journal of Organic Chemistry</i> , 2015, 80, 10412-10420.	3.2	16
62	Denitrification Combined with Diazotization of Anilines and the Synthesis of 4- ² -Chlorobiphenyl-2,5-diamine and 1-Chloro-4-iodobenzene. <i>Organic Process Research and Development</i> , 2015, 19, 2075-2084.	2.7	16
63	Photochemical generation and trapping of radicals from bisphenyl carbodiazone. <i>Tetrahedron Letters</i> , 2006, 47, 2115-2118.	1.4	15
64	4-Biphenylalanine- and 3-Phenyltyrosine-Derived Hydroxamic Acids as Inhibitors of the JumonjiC-Domain-Containing Histone Demethylase KDM4A. <i>ChemMedChem</i> , 2016, 11, 2063-2083.	3.2	15
65	Microwave-Assisted Rapid One-Pot Synthesis of Fused and Non-Fused Indoles and 5-[¹⁸ F]Fluoroindoles from Phenylazocarboxylates. <i>Chemistry - A European Journal</i> , 2017, 23, 16174-16178.	3.3	15
66	Radiochemical ¹⁸ F-fluoroarylation of unsaturated ¹ -, ² - and ³ -amino acids, application to a radiolabelled analogue of baclofen. <i>Tetrahedron</i> , 2008, 64, 11846-11851.	1.9	14
67	Synthesis, biological evaluation and radiolabelling by ¹⁸ F-fluoroarylation of a dopamine D3-selective ligand as prospective imaging probe for PET. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6933-6937.	2.2	14
68	Chiral azo compounds: enantioselective synthesis and transformations into ² -amino alcohols and ¹ -amino acids with a quaternary stereocenter. <i>Tetrahedron Letters</i> , 2011, 52, 655-657.	1.4	14
69	Radical arylation of tyrosine residues in peptides. <i>Tetrahedron</i> , 2016, 72, 7888-7893.	1.9	14
70	A New Approach to the Stereoselective Carbodiazonylation of Olefins by Macrocyclization. <i>Synlett</i> , 2006, 2006, 3352-3354.	1.8	13
71	Synthesis of 2-fluorotetralones by oxidative radical cyclization of ¹ -fluoroacetophenones and olefins. <i>Tetrahedron Letters</i> , 2007, 48, 3895-3900.	1.4	13
72	[¹⁸ F]Fluorophenylazocarboxylates: Design and Synthesis of Potential Radioligands for Dopamine D3 and ¹ / ₄ -Opioid Receptor. <i>ACS Omega</i> , 2017, 2, 8649-8659.	3.5	13

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73	<i>In Situ</i> Conformational Fixation of the Amide Bond Enables General Access to Medium-Sized Lactams via Ring-Closing Metathesis. <i>Organic Letters</i> , 2018, 20, 7825-7829.	4.6	13
74	Selective Functionalization of Graphene at Defect-Activated Sites by Arylazocarboxylic <i>tert</i> -Butyl Esters. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3599-3603.	13.8	13
75	Generation and ring opening of aziridine N-carbonyl radicals. <i>Chemical Communications</i> , 2005, , 5928.	4.1	12
76	Synthesis and biological evaluation of 3-aryltyramines as fragments binding to BACE-1 and BACE-2. <i>Tetrahedron Letters</i> , 2012, 53, 2189-2194.	1.4	12
77	2,4-Diaminopyrimidines as dual ligands at the histamine H ₁ and H ₄ receptor—H ₁ /H ₄ -receptor selectivity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 292-300.	2.2	11
78	[¹⁸ F]Fluorine- ¹⁸ F-labeled Pharmaceuticals: Direct Aromatic Fluorination Compared to Multi-Step Strategies. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 576-590.	2.7	11
79	Effective syntheses of quinoline-7,8-diol, 5-amino-L-DOPA, and 3-(7,8-dihydroxyquinolin-5-yl)-L-alanine. <i>Tetrahedron</i> , 2003, 59, 9231-9237.	1.9	10
80	Nitrogen-Centered Radical Scavengers. <i>Synthesis</i> , 2011, 2011, 173-189.	2.3	10
81	Hydrogen Peroxide and Arenediazonium Salts as Reagents for a Radical Beckmann-Type Rearrangement. <i>Synthesis</i> , 2011, 2011, 1515-1525.	2.3	10
82	Studies on the synthesis and biosynthesis of the fungal alkaloid necatorone. <i>Tetrahedron Letters</i> , 2013, 54, 5445-5447.	1.4	10
83	Synthesis and evaluation of fluoro substituted pyridinylcarboxamides and their phenylazo analogues for potential dopamine D ₃ receptor PET imaging. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 5399-5403.	2.2	10
84	Sustainable Synthesis of Balsalazide and Sulfasalazine Based on Diazotization with Low Concentrations of Nitrogen Dioxide in Air. <i>Chemistry - A European Journal</i> , 2017, 23, 4042-4045.	3.3	10
85	Radical fluoroarylation in radiochemical synthesis. <i>Tetrahedron Letters</i> , 2008, 49, 1881-1883.	1.4	9
86	Oxidative Nitration of Styrenes for the Recycling of Low-Concentrated Nitrogen Dioxide in Air. <i>ChemSusChem</i> , 2015, 8, 3167-3175.	6.8	9
87	Benzyl Phenylsemicarbazides: A Chemistry-Driven Approach Leading to G Protein-Biased Dopamine D ₄ Receptor Agonists with High Subtype Selectivity. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9658-9679.	6.4	9
88	Aryl Radical Selectivity in Biphasic Systems. <i>Organic Letters</i> , 2020, 22, 479-482.	4.6	9
89	Current Advances in Meerwein-type Radical Alkene Functionalizations. <i>Synthesis</i> , 2022, 54, 1951-1963.	2.3	9
90	Synthesis of 7-arylquinolinones and 6-arylindoles from 3-aminobiphenyls through regioselective cyclization reactions. <i>Tetrahedron</i> , 2014, 70, 8114-8121.	1.9	8

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91	Molecular Mechanisms of Biased and Probe-Dependent Signaling at CXC-Motif Chemokine Receptor CXCR3 Induced by Negative Allosteric Modulators. <i>Molecular Pharmacology</i> , 2018, 93, 309-322.	2.3	8
92	Oxidative Formation of Disulfide Bonds by a Chemiluminescent 1,2-Dioxetane under Mild Conditions. <i>Journal of Organic Chemistry</i> , 2020, 85, 9331-9338.	3.2	8
93	Frozen aryldiazonium chlorides in radical reactions with alkenes and arenes. <i>Tetrahedron</i> , 2018, 74, 5289-5294.	1.9	6
94	Synthesis of dibenzo[c,e][1,2]diazocines—a new group of eight-membered cyclic azo compounds. <i>Tetrahedron Letters</i> , 2015, 56, 316-320.	1.4	5
95	Development of Photoactivatable Allosteric Modulators for the Chemokine Receptor CXCR3. <i>ChemMedChem</i> , 2016, 11, 575-584.	3.2	5
96	Regiospecific Introduction of Halogens on the 2-Aminobiphenyl Subunit Leading to Highly Potent and Selective M3 Muscarinic Acetylcholine Receptor Antagonists and Weak Inverse Agonists. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4349-4369.	6.4	5
97	Synthetic Route to Phenyl Diazenes and Pyridazinium Salts from Phenylazosulfonates. <i>Journal of Organic Chemistry</i> , 2021, 86, 6228-6238.	3.2	5
98	Enzymatic Kinetic Resolution and Racemization of 2-(Tetramethylpiperidine-1-oxyl)ethanols. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5585-5589.	2.4	4
99	Fluoro-substituted phenylazocarboxamides: Dopaminergic behavior and N-arylation properties for irreversible binding. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3938-3947.	3.0	4
100	Synthesis, Radiosynthesis and Biological Evaluation of Buprenorphine-Derived Phenylazocarboxamides as Novel μ -Opioid Receptor Ligands. <i>ChemMedChem</i> , 2020, 15, 1175-1186.	3.2	4
101	2-Fluoro-5-nitrophenyldiazonium: A Novel Sanger-Type Reagent for the Versatile Functionalization of Alcohols. <i>Chemistry - A European Journal</i> , 2021, 27, 5417-5421.	3.3	4
102	Synthesis of 2-(Chlorodifluoromethyl)indoles for Nucleophilic Halogen Exchange with [¹⁸ F]Fluoride. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 6258-6262.	2.4	4
103	pH-Dependent Conformational Switching of Amide Bonds—from Full <i>trans</i> to Full <i>cis</i> and Vice Versa. <i>Organic Letters</i> , 2022, 24, 3488-3492.	4.6	4
104	Synthesis of 6-Arylpyridin-3-ols by Oxidative Rearrangement of (5-Arylfurfuryl)amines. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3051-3055.	2.4	3
105	Selektive Funktionalisierung von Graphen an defektaktivierten Bereichen durch Arylazocarbonsäure- <i>tert</i> -butylester. <i>Angewandte Chemie</i> , 2019, 131, 3637-3641.	2.0	3
106	Sequential Cleavage of Lignin Systems by Nitrogen Monoxide and Hydrazine. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1485-1489.	4.3	3
107	Synthesis of Fmoc- and Boc-Protected (2S,5S)- and (2R,5R)-5-Aminomethylprolines. <i>Synthesis</i> , 2019, 51, 976-984.	2.3	2
108	Markus R. Heinrich. <i>Tetrahedron</i> , 2016, 72, 7656.	1.9	1

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109	New Approaches to Chemical Bath Deposition of Chalcogenides. Materials Research Society Symposia Proceedings, 1999, 606, 199.	0.1	0
110	A Convergent Approach to $\hat{1}^3$ -Carbonyl Vinyl Boronates.. ChemInform, 2005, 36, no.	0.0	0
111	Medication Safety in Intravenous Therapy: A Compatibility Study and Analysis of Reaction Products of Dihydralazine and Metamizole. Scientia Pharmaceutica, 2020, 88, 25.	2.0	0
112	Cleavage of Organosolv Lignin to Phenols Using Nitrogen Monoxide and Hydrazine. ACS Omega, 2021, 6, 19400-19408.	3.5	0