

Michael SchnÃ¼rch

List of Publications by Year in descending order

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110
papers

3,923
citations

257101

24
h-index

133063

59
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113
all docs

113
docs citations

113
times ranked

4142
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive overview of directing groups applied in metal-catalysed C-H functionalisation chemistry. <i>Chemical Society Reviews</i> , 2018, 47, 6603-6743.	18.7	1,272
2	Cross-Coupling Reactions on Azoles with Two and More Heteroatoms. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3283-3307.	1.2	263
3	Direct Functionalization of C-H Bonds by Iron, Nickel, and Cobalt Catalysis. <i>Chemistry - A European Journal</i> , 2017, 23, 9206-9232.	1.7	177
4	Halogen dance reactions—A review. <i>Chemical Society Reviews</i> , 2007, 36, 1046-1057.	18.7	174
5	Facile, solvent and ligand free iron catalyzed direct functionalization of N-protected tetrahydroisoquinolines and isochroman. <i>Chemical Communications</i> , 2010, 46, 8836.	2.2	170
6	Direct Functionalization of (Un)protected Tetrahydroisoquinoline and Isochroman under Iron and Copper Catalysis: Two Metals, Two Mechanisms. <i>Journal of Organic Chemistry</i> , 2011, 76, 8781-8793.	1.7	136
7	Tandem Catalysis: From Alkynoic Acids and Aryl Iodides to 1,2,3-Triazoles in One Pot. <i>Journal of Organic Chemistry</i> , 2011, 76, 2613-2618.	1.7	108
8	Recent Advances in Palladium-Catalyzed C(sp ³)-H Activation for the Formation of Carbon-Carbon and Carbon-Heteroatom Bonds. <i>Synthesis</i> , 2014, 46, 1421-1439.	1.2	99
9	Ruthenium Catalyzed Decarbonylative Arylation at sp ³ Carbon Centers in Pyrrolidine and Piperidine Heterocycles. <i>Journal of the American Chemical Society</i> , 2007, 129, 11750-11755.	6.6	77
10	Ruthenium(0)-Catalyzed sp ³ C-H Bond Arylation of Benzylic Amines Using Arylboronates. <i>Organic Letters</i> , 2012, 14, 1930-1933.	2.4	73
11	Functionalization of Saturated and Unsaturated Heterocycles via Transition Metal Catalyzed C-H Activation Reactions. <i>Current Organic Chemistry</i> , 2011, 15, 2694-2730.	0.9	52
12	Single Operation Stereoselective Synthesis of <i>α</i> -Lactones: Combining Continuous Flow Hydrogenation and Biocatalysts in a Chemoenzymatic Sequence. <i>ChemCatChem</i> , 2013, 5, 724-727.	1.8	51
13	Halogenated 2-Chlorobithiazoles via Pd-Catalyzed Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2006, 71, 3754-3761.	1.7	50
14	Mechanistic Investigations and Substrate Scope Evaluation of Ruthenium-Catalyzed Direct sp ³ Arylation of Benzylic Positions Directed by 3-Substituted Pyridines. <i>Journal of Organic Chemistry</i> , 2013, 78, 658-672.	1.7	48
15	Identification of novel positive allosteric modulators and null modulators at the GABA _A receptor $\alpha 1-\beta 2$ interface. <i>British Journal of Pharmacology</i> , 2013, 169, 371-383.	2.7	47
16	Novel and Efficient Access to Phenylamino-pyrimidine Type Protein Kinase C Inhibitors Utilizing a Negishi Cross-Coupling Strategy. <i>Journal of Organic Chemistry</i> , 2005, 70, 5215-5220.	1.7	45
17	Direct Arylation of Benzo[b]furan and Other Benzo-fused Heterocycles. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 8119-8125.	1.2	45
18	Selective Ru(0)-Catalyzed Deuteration of Electron-Rich and Electron-Poor Nitrogen-Containing Heterocycles. <i>Journal of Organic Chemistry</i> , 2012, 77, 4432-4437.	1.7	44

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19	Ruthenium(II)-Catalyzed $\text{sp}^3\text{-C-H}$ Bond Arylation of Benzylic Amines Using Aryl Halides. <i>Organic Letters</i> , 2012, 14, 3792-3795.	2.4	42
20	A facile and green synthetic route to boronic acid esters utilizing mechanochemistry. <i>Green Chemistry</i> , 2007, 9, 139-145.	4.6	36
21	Toward the Recovery of Platinum Group Metals from a Spent Automotive Catalyst with Supported Ionic Liquid Phases. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 375-386.	3.2	31
22	Regioselective Syntheses of 2,3-Substituted Pyridines by Orthogonal Cross-Coupling Strategies. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 1972-1979.	1.2	29
23	Synthesis of Pyridinyl-Pyrimidines via Pd-Catalyzed Cross-Coupling Reactions: A Comparison of Classical Thermal and Microwave Assisted Reaction Conditions. <i>Synlett</i> , 2003, 2003, 1862-1864.	1.0	28
24	Investigations of the Halogen Dance Reaction on N-Substituted 2-Thiazolamines. <i>Journal of Organic Chemistry</i> , 2005, 70, 567-574.	1.7	28
25	Biocompatible metal-assisted C-C cross-coupling combined with biocatalytic chiral reductions in a concurrent tandem cascade. <i>Chemical Communications</i> , 2018, 54, 12978-12981.	2.2	26
26	Molecular tools for GABA _A receptors: High affinity ligands for $\alpha 1$ -containing subtypes. <i>Scientific Reports</i> , 2017, 7, 5674.	1.6	25
27	Towards functional selectivity for $\alpha 2$ GABA _A receptors: a series of novel pyrazoloquinolinones. <i>British Journal of Pharmacology</i> , 2018, 175, 419-428.	2.7	25
28	Aryl Bromides and Aryl Chlorides for the Direct Arylation of Benzylic Amines Mediated by Ruthenium(II). <i>European Journal of Organic Chemistry</i> , 2013, 2013, 2878-2890.	1.2	24
29	Quaternary Ammonium Salts as Alkylating Reagents in C-H Activation Chemistry. <i>Organic Letters</i> , 2017, 19, 4287-4290.	2.4	24
30	Recent Progress on the Halogen Dance Reaction on Heterocycles. <i>Topics in Heterocyclic Chemistry</i> , 2011, 185-218.	0.2	23
31	Easy Access to Enantiopure <i>S</i> - and <i>R</i> -Aryl Alkyl Alcohols by a Combination of Gold(III)-Catalyzed Alkyne Hydration and Enzymatic Reduction. <i>ChemCatChem</i> , 2018, 10, 920-924.	1.8	23
32	Allosteric GABA _A Receptor Modulators: A Review on the Most Recent Heterocyclic Chemotypes and Their Synthetic Accessibility. <i>Molecules</i> , 2020, 25, 999.	1.7	22
33	Synthesis of 5-arylated N-arylthiazole-2-amines as potential skeletal muscle cell differentiation promoters. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2149-2154.	1.0	21
34	Chiral Phosphoric Acids as Versatile Tools for Organocatalytic Asymmetric Transfer Hydrogenations. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5367-5381.	1.2	21
35	Polyarylated Thiazoles via a Combined Halogen Dance C-C Cross-Coupling Strategy. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3228-3236.	1.2	20
36	Metal assisted synthesis of mono and diamino substituted pyridines. <i>Tetrahedron</i> , 2011, 67, 4169-4178.	1.0	20

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37	A guideline for the arylation of positions 4 and 5 of thiazole via Pd-catalyzed cross-coupling reactions. <i>Tetrahedron</i> , 2010, 66, 8051-8059.	1.0	19
38	Synthesis of analogs of the phenylamino-pyrimidine type protein kinase C inhibitor CGP 60474 utilizing a Negishi cross-coupling strategy. <i>Tetrahedron</i> , 2006, 62, 2380-2387.	1.0	18
39	Arylation of Pyridines via Suzuki-Miyaura Cross-Coupling and Pyridine-Directed C-H Activation Using a Continuous-Flow Approach. <i>Synlett</i> , 2013, 24, 2411-2418.	1.0	18
40	Ligand-Assisted Iron Catalysis in the Direct Functionalization of C-H Bonds. <i>ChemCatChem</i> , 2014, 6, 2194-2196.	1.8	18
41	Application of continuous flow and alternative energy devices for 5-hydroxymethylfurfural production. <i>Molecular Diversity</i> , 2011, 15, 639-643.	2.1	17
42	Mechanistic and Kinetic Studies of the Direct Alkylation of Benzylic Amines: A Formal C(sp ³)-H Activation Proceeds Actually via a C(sp ²)-H Activation Pathway. <i>ACS Catalysis</i> , 2015, 5, 587-595.	5.5	17
43	First selective direct mono-arylation of piperidines using ruthenium-catalyzed C-H activation. <i>Monatshefte für Chemie</i> , 2013, 144, 539-552.	0.9	16
44	A Systematic Study of Suzuki-Miyaura Cross-Coupling Reactions on Thiazoleboronic Esters in the 4- and 5-Position. <i>Synthesis</i> , 2010, 2010, 837-843.	1.2	15
45	GABAA Receptor Ligands Often Interact with Binding Sites in the Transmembrane Domain and in the Extracellular Domain—Can the Promiscuity Code Be Cracked?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 334.	1.8	15
46	Photocatalytic deaminative benzylation and alkylation of tetrahydroisoquinolines with N-alkylpyridinium salts. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 809-817.	1.3	15
47	Palladium(II)-Catalyzed Regioselective <i>ortho</i> Arylation of sp ² C-H Bonds of <i>N</i> -Aryl-2-Amino Pyridine Derivatives. <i>ChemCatChem</i> , 2012, 4, 1345-1352.	1.8	14
48	Counterion-Enhanced Pd/Enamine Catalysis: Direct Asymmetric α -Alkylation of Aldehydes with Allylic Alcohols by Chiral Amines and Achiral or Racemic Phosphoric Acids. <i>Journal of Organic Chemistry</i> , 2021, 86, 850-860.	1.7	14
49	Benign recovery of platinum group metals from spent automotive catalysts using choline-based deep eutectic solvents. <i>Green Chemistry Letters and Reviews</i> , 2022, 15, 404-414.	2.1	14
50	Selective Sequential Cross-Coupling Reactions on Imidazole towards Neurodazine and Analogues. <i>Synthesis</i> , 2013, 45, 1387-1405.	1.2	13
51	Improved simplicity and practicability in copper-catalyzed alkynylation of tetrahydroisoquinoline. <i>Monatshefte für Chemie</i> , 2017, 148, 91-104.	0.9	13
52	Linked magnolol dimer as a selective PPAR β agonist — Structure-based rational design, synthesis, and bioactivity evaluation. <i>Scientific Reports</i> , 2017, 7, 13002.	1.6	13
53	Combined ionic liquid and supercritical carbon dioxide based dynamic extraction of six cannabinoids from <i>Cannabis sativa</i> L.. <i>Green Chemistry</i> , 2021, 23, 10079-10089.	4.6	13
54	Pd(0)-Catalyzed Cu(I)-Thiophene-2-carboxylate-mediated Cross-Coupling of Heteroaromatic Thioethers and Boronic Acids-First Liebeskind-Srogl Reaction in Water. <i>Journal of Heterocyclic Chemistry</i> , 2013, 50, 1368-1373.	1.4	11

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55	Leoligin-inspired synthetic lignans with selectivity for cell-type and bioactivity relevant for cardiovascular disease. <i>Chemical Science</i> , 2019, 10, 5815-5820.	3.7	11
56	Exploiting the C-H bond in metal catalyzed C-C bond forming reactions. <i>Arkivoc</i> , 2015, 2015, 212-243.	0.3	11
57	Liquid- and Solid-based Separations Employing Ionic Liquids for the Recovery of Platinum Group Metals Typically Encountered in Catalytic Converters: A Review. <i>ChemSusChem</i> , 2022, 15, .	3.6	11
58	Halogen Dance and Sequential Cross-Coupling on 2-Anilinothiazoles. <i>Letters in Organic Chemistry</i> , 2009, 6, 171-174.	0.2	10
59	Investigations of the generality of quaternary ammonium salts as alkylating agents in direct C-H alkylation reactions: solid alternatives for gaseous olefins. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4024-4030.	1.5	10
60	Counterion Enhanced Organocatalysis: A Novel Approach for the Asymmetric Transfer Hydrogenation of Enones. <i>ChemCatChem</i> , 2020, 12, 3776-3782.	1.8	10
61	Targeting <i>aphA</i> : a new high-throughput screening assay identifies compounds that reduce prime virulence factors of <i>Vibrio cholerae</i> . <i>Journal of Medical Microbiology</i> , 2016, 65, 678-687.	0.7	9
62	A Combined Deep Eutectic Solvent-Ionic Liquid Process for the Extraction and Separation of Platinum Group Metals (Pt, Pd, Rh). <i>Molecules</i> , 2021, 26, 7204.	1.7	9
63	VUT-MK142: a new cardiomyogenic small molecule promoting the differentiation of pre-cardiac mesoderm into cardiomyocytes. <i>MedChemComm</i> , 2013, 4, 1189.	3.5	8
64	Metal-assisted synthesis of unsymmetrical magnolol and honokiol analogs and their biological assessment as GABA _A receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 400-403.	1.0	8
65	Cu(I)-catalyzed one-pot decarboxylation-alkynylation reactions on 1,2,3,4-tetrahydroisoquinolines and one-pot synthesis of triazolyl-1,2,3,4-tetrahydroisoquinolines. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 398-406.	4.8	8
66	Engineered Flumazenil Recognition Site Provides Mechanistic Insight Governing Benzodiazepine Modulation in GABA _A Receptors. <i>ACS Chemical Biology</i> , 2018, 13, 2040-2047.	1.6	8
67	Selective α -Methylation of Aryl Ketones Using Quaternary Ammonium Salts as Solid Methylating Agents. <i>Journal of Organic Chemistry</i> , 2022, 87, 4305-4315.	1.7	8
68	Investigations into the Kinetic Modeling of the Direct Alkylation of Benzylic Amines: Dissolution of K ₂ CO ₃ Is Responsible for the Observation of an Induction Period. <i>Journal of Organic Chemistry</i> , 2015, 80, 8268-8274.	1.7	7
69	One-pot synthesis of triazines as potential agents affecting cell differentiation. <i>Monatshefte für Chemie</i> , 2018, 149, 1257-1284.	0.9	7
70	Studying competitive lithiations at alpha-, ortho-, and benzylic positions in various N-protected aniline derivatives. <i>Tetrahedron</i> , 2011, 67, 2895-2904.	1.0	6
71	Small Molecule Cardiogenol C Upregulates Cardiac Markers and Induces Cardiac Functional Properties in Lineage-Committed Progenitor Cells. <i>Cellular Physiology and Biochemistry</i> , 2014, 33, 205-221.	1.1	6
72	Exploration of C-H and N-H-bond functionalization towards 1-(1,2-diarylindol-3-yl)tetrahydroisoquinolines. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2186-2199.	1.3	6

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73	Synthesis of <i>endo</i> - and <i>exo</i> -N-Protected 5-Arylated 2-Aminothiazoles through Direct Arylation: An Efficient Route to Cell Differentiation Accelerators. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 4765-4771.	1.2	6
74	Magnolol dimer-derived fragments as PPAR β -selective probes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7019-7028.	1.5	6
75	Polysubstituted Thiazole Derivatives via the Halogen-Dance Reaction. <i>Synlett</i> , 2007, 2007, 3016-3018.	1.0	5
76	A Comparative Study on Stille Cross-Coupling Reactions of 2-Phenylthiazoles and 2-Phenyloxazoles. <i>Synthesis</i> , 2008, 2008, 3099-3107.	1.2	5
77	Synthesis of novel 4-(2-amino-5-thiazolyl)-pyrimidine-2-amines as potential protein kinase inhibitors. <i>Monatshefte für Chemie</i> , 2009, 140, 423-430.	0.9	5
78	Synthesis of potential fungicides based on N-(3-furanyl)pyrrolicarboxamides and N-(3-furanyl)pyrazolecarboxamides. <i>Monatshefte für Chemie</i> , 2009, 140, 1349-1359.	0.9	5
79	Investigation of the regioselectivity of the Hurd-Mori reaction for the formation of bicyclic 1,2,3-thiadiazoles. <i>Tetrahedron</i> , 2010, 66, 5472-5478.	1.0	5
80	Expansion of the Concept of Nonlinear Effects in Catalytic Reactions Beyond Asymmetric Catalysis. <i>Chemistry - A European Journal</i> , 2016, 22, 5637-5642.	1.7	5
81	SAR-Guided Scoring Function and Mutational Validation Reveal the Binding Mode of CGS-8216 at the α 1+ β 2 Benzodiazepine Site. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1682-1696.	2.5	5
82	Sterically Demanding Flexible Phosphoric Acids for Constructing Efficient and Multi-Purpose Asymmetric Organocatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	5
83	A new home for organic chemistry in Austria: the workgroup organic chemistry of the Austrian Chemical Society. <i>Monatshefte für Chemie</i> , 2017, 148, 1-1.	0.9	4
84	Variations on a scaffold - Novel GABAA receptor modulators. <i>European Journal of Medicinal Chemistry</i> , 2019, 180, 340-349.	2.6	4
85	Synthesis of a Diaryliodonium Salt and Its Use in the Direct Arylation of Indole: A Two-Step Experiment for the Organic Teaching Laboratory. <i>Journal of Chemical Education</i> , 2020, 97, 200-206.	1.1	4
86	Design and Synthesis of a Compound Library Exploiting 5-Methoxyleoligin as Potential Cholesterol Efflux Promoter. <i>Molecules</i> , 2020, 25, 662.	1.7	4
87	Synthesis of substituted thieno[2,3-d]isothiazoles as potential plant activators. <i>Arkivoc</i> , 2013, 2013, 245-265.	0.3	4
88	Carbamate-based P,O-ligands for asymmetric allylic alkylations. <i>Tetrahedron</i> , 2020, 76, 131246.	1.0	3
89	Synthesis and screening of 2,6-diamino-substituted purine derivatives as potential cardiomyogenesis inducing agents. <i>Arkivoc</i> , 2011, 2011, 45-61.	0.3	3
90	Frontispiece: Direct Functionalization of C-H Bonds by Iron, Nickel, and Cobalt Catalysis. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	2

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91	Toluene and its Derivatives as Atom-Efficient Benzylating Agents for Secondary Amines. <i>Synlett</i> , 2019, 30, 94-98.	1.0	2
92	Characterization of a Structural Leoligin Analog as Farnesoid X Receptor Agonist and Modulator of Cholesterol Transport. <i>Planta Medica</i> , 2020, 86, 1097-1107.	0.7	2
93	A silver-coated copper wire as inexpensive drug eluting stent model: determination of the relative releasing properties of leoligin and derivatives. <i>Monatshefte für Chemie</i> , 2020, , 1.	0.9	2
94	Investigation of Leoligin Derivatives as NF- κ B Inhibitory Agents. <i>Biomedicines</i> , 2022, 10, 62.	1.4	2
95	Comparing the Reactivity of the 4- and 5-Positions of 2-Phenylthiazoles in Stille Cross-Coupling Reactions. <i>Synlett</i> , 2007, 2007, 2975-2978.	1.0	1
96	Efforts to induce cardiac electrophysiological properties in skeletal myoblasts in vitro. <i>BMC Pharmacology</i> , 2008, 8, A41.	0.4	1
97	Metal-Catalyzed Cross-Coupling Reactions in the Decoration of Pyridines. <i>Topics in Heterocyclic Chemistry</i> , 2015, , 1-60.	0.2	1
98	Library synthesis of cardiomyogenesis inducing compounds using an efficient two-step-one-flow process. <i>Monatshefte für Chemie</i> , 2016, 147, 523-532.	0.9	1
99	Stereoselective Synthesis of the Isomers of Notoincisol A: Assignment of the Absolute Configuration of this Natural Product and Biological Evaluation. <i>Journal of Natural Products</i> , 2018, 81, 2419-2428.	1.5	1
100	Research from the EuCheMS Organic Division. <i>Monatshefte für Chemie</i> , 2019, 150, 1-1.	0.9	1
101	Rhodium-catalyzed direct alkylation of benzylic amines using alkyl bromides. <i>Monatshefte für Chemie</i> , 2019, 150, 127-138.	0.9	1
102	Structural Features Defining NF- κ B Inhibition by Lignan-Inspired Benzofurans and Benzothiophenes. <i>Biomolecules</i> , 2020, 10, 1131.	1.8	1
103	Sugar Alcohols and Synthetic Derivatives as Phase Change Materials. , 0, , .		1
104	Sterically Demanding Flexible Phosphoric Acids for Constructing Efficient and Multi-Purpose Asymmetric Organocatalysts. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
105	Selective and Facile Palladium-Catalyzed Amination of 2-Fluoro-4-iodopyridine in the 4-Position under Microwave Conditions. <i>Synlett</i> , 2010, 2010, 1505-1510.	1.0	0
106	4th Young Investigator Workshop. <i>Monatshefte für Chemie</i> , 2013, 144, 445-445.	0.9	0
107	Medicinal and bioorganic chemistry: an Austrian perspective of the chemistry-biology interface. <i>Monatshefte für Chemie</i> , 2016, 147, 477-477.	0.9	0
108	European Research in Focus: C-H Activation in Organic Synthesis (CHAOS). <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6032-6033.	1.2	0

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109	Selected papers on medicinal chemistry. Monatshefte für Chemie, 2018, 149, 1189-1189.	0.9	0
110	(Z)-4,6-Dichloro-N-(4-chlorophenyl)quinoline-3-carbimidoyl chloride. IUCrData, 2017, 2, .	0.1	0