

# Michael Schnrch

## List of Publications by Citations

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113  
ext. papers

3,511  
ext. citations

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5.38  
L-index

#	Paper	IF	Citations
95	A comprehensive overview of directing groups applied in metal-catalysed C-H functionalisation chemistry. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 6603-6743	58.5	855
94	Cross-Coupling Reactions on Azoles with Two and More Heteroatoms. <i>European Journal of Organic Chemistry</i> , <b>2006</b> , 2006, 3283-3307	3.2	252
93	Facile, solvent and ligand free iron catalyzed direct functionalization of N-protected tetrahydroisoquinolines and isochroman. <i>Chemical Communications</i> , <b>2010</b> , 46, 8836-8	5.8	152
92	Direct Functionalization of C-H Bonds by Iron, Nickel, and Cobalt Catalysis. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 9206-9232	4.8	136
91	Halogen dance reactions--a review. <i>Chemical Society Reviews</i> , <b>2007</b> , 36, 1046-57	58.5	135
90	Direct functionalization of (un)protected tetrahydroisoquinoline and isochroman under iron and copper catalysis: two metals, two mechanisms. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 8781-93	4.2	127
89	Tandem catalysis: from alkynoic acids and aryl iodides to 1,2,3-triazoles in one pot. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 2613-8	4.2	101
88	Recent Advances in Palladium-Catalyzed C(sp <sup>3</sup> )–H Activation for the Formation of Carbon–Carbon and Carbon–Heteroatom Bonds. <i>Synthesis</i> , <b>2014</b> , 46, 1421-1439	2.9	88
87	Ruthenium catalyzed decarbonylative arylation at sp <sup>3</sup> carbon centers in pyrrolidine and piperidine heterocycles. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11750-5	16.4	68
86	Ruthenium(0)-catalyzed sp <sup>3</sup> C-H bond arylation of benzylic amines using arylboronates. <i>Organic Letters</i> , <b>2012</b> , 14, 1930-3	6.2	62
85	Functionalization of Saturated and Unsaturated Heterocycles via Transition Metal Catalyzed C-H Activation Reactions. <i>Current Organic Chemistry</i> , <b>2011</b> , 15, 2694-2730	1.7	48
84	Single Operation Stereoselective Synthesis of Aerangis Lactones: Combining Continuous Flow Hydrogenation and Biocatalysts in a Chemoenzymatic Sequence. <i>ChemCatChem</i> , <b>2013</b> , 5, 724-727	5.2	47
83	Halogenated 2-Schlorobithiazoles via Pd-catalyzed cross-coupling reactions. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 3754-61	4.2	45
82	Mechanistic investigations and substrate scope evaluation of ruthenium-catalyzed direct sp <sup>3</sup> arylation of benzylic positions directed by 3-substituted pyridines. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 658-72	4.2	43
81	Direct Arylation of Benzo-furan and Other Benzo-Fused Heterocycles. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 8119-8125	3.2	39
80	Identification of novel positive allosteric modulators and null modulators at the GABA <sub>A</sub> receptor–H <sub>2</sub> O interface. <i>British Journal of Pharmacology</i> , <b>2013</b> , 169, 371-83	8.6	39
79	Selective Ru(0)-catalyzed deuteration of electron-rich and electron-poor nitrogen-containing heterocycles. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 4432-7	4.2	37

78	Ruthenium(II)-catalyzed sp <sup>3</sup> C-H bond arylation of benzylic amines using aryl halides. <i>Organic Letters</i> , <b>2012</b> , 14, 3792-5	6.2	35
77	Novel and efficient access to phenylamino-pyrimidine type protein kinase C inhibitors utilizing a Negishi cross-coupling strategy. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 5215-20	4.2	35
76	A facile and green synthetic route to boronic acid esters utilizing mechanochemistry. <i>Green Chemistry</i> , <b>2007</b> , 9, 139-145	10	29
75	Regioselective Syntheses of 2,3-Substituted Pyridines by Orthogonal Cross-Coupling Strategies. <i>European Journal of Organic Chemistry</i> , <b>2011</b> , 2011, 1972-1979	3.2	25
74	Synthesis of Pyridinyl-Pyrimidines via Pd-Catalyzed Cross-Coupling Reactions: A Comparison of Classical Thermal and Microwave Assisted Reaction Conditions. <i>Synlett</i> , <b>2003</b> , 2003, 1862-1864	2.2	25
73	Investigations of the halogen dance reaction on N-substituted 2-thiazolamines. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 567-74	4.2	23
72	Recent Progress on the Halogen Dance Reaction on Heterocycles. <i>Topics in Heterocyclic Chemistry</i> , <b>2011</b> , 185-218	0.2	21
71	Molecular tools for GABA receptors: High affinity ligands for $\alpha$ -containing subtypes. <i>Scientific Reports</i> , <b>2017</b> , 7, 5674	4.9	19
70	Quaternary Ammonium Salts as Alkylating Reagents in C-H Activation Chemistry. <i>Organic Letters</i> , <b>2017</b> , 19, 4287-4290	6.2	19
69	Metal assisted synthesis of mono and diamino substituted pyridines. <i>Tetrahedron</i> , <b>2011</b> , 67, 4169-4178	2.4	18
68	A guideline for the arylation of positions 4 and 5 of thiazole via Pd-catalyzed cross-coupling reactions. <i>Tetrahedron</i> , <b>2010</b> , 66, 8051-8059	2.4	18
67	Towards functional selectivity for $\alpha$ GABA receptors: a series of novel pyrazoloquinolinones. <i>British Journal of Pharmacology</i> , <b>2018</b> , 175, 419-428	8.6	18
66	Biocompatible metal-assisted C-C cross-coupling combined with biocatalytic chiral reductions in a concurrent tandem cascade. <i>Chemical Communications</i> , <b>2018</b> , 54, 12978-12981	5.8	18
65	Ligand-Assisted Iron Catalysis in the Direct Functionalization of C-H Bonds. <i>ChemCatChem</i> , <b>2014</b> , 6, 2194-2196	5.2	17
64	Aryl Bromides and Aryl Chlorides for the Direct Arylation of Benzylic Amines Mediated by Ruthenium(II). <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 2878-2890	3.2	17
63	Polyarylated Thiazoles via a Combined Halogen Dance Cross-Coupling Strategy. <i>European Journal of Organic Chemistry</i> , <b>2009</b> , 2009, 3228-3236	3.2	17
62	Synthesis of 5-arylated N-arylthiazole-2-amines as potential skeletal muscle cell differentiation promoters. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2011</b> , 21, 2149-54	2.9	17
61	Easy Access to Enantiopure (S)- and (R)-Aryl Alkyl Alcohols by a Combination of Gold(III)-Catalyzed Alkyne Hydration and Enzymatic Reduction. <i>ChemCatChem</i> , <b>2018</b> , 10, 920-924	5.2	16

60	Application of continuous flow and alternative energy devices for 5-hydroxymethylfurfural production. <i>Molecular Diversity</i> , <b>2011</b> , 15, 639-43	3.1	16
59	Arylation of Pyridines via Suzuki-Miyaura Cross-Coupling and Pyridine-Directed C-H Activation Using a Continuous-Flow Approach. <i>Synlett</i> , <b>2013</b> , 24, 2411-2418	2.2	15
58	Synthesis of analogs of the phenylamino-pyrimidine type protein kinase C inhibitor CGP 60474 utilizing a Negishi cross-coupling strategy. <i>Tetrahedron</i> , <b>2006</b> , 62, 2380-2387	2.4	15
57	A Systematic Study of Suzuki-Miyaura Cross-Coupling Reactions on Thiazoleboronic Esters in the 4- and 5-Position. <i>Synthesis</i> , <b>2010</b> , 2010, 837-843	2.9	14
56	Allosteric GABA Receptor Modulators-A Review on the Most Recent Heterocyclic Chemotypes and Their Synthetic Accessibility. <i>Molecules</i> , <b>2020</b> , 25,	4.8	13
55	Mechanistic and Kinetic Studies of the Direct Alkylation of Benzylic Amines: A Formal C(sp)-H Activation Proceeds Actually via a C(sp)-H Activation Pathway. <i>ACS Catalysis</i> , <b>2015</b> , 5, 587-595	13.1	13
54	First selective direct mono-arylation of piperidines using ruthenium-catalyzed C-H activation. <i>Monatshefte für Chemie</i> , <b>2013</b> , 144, 539-552	1.4	12
53	Palladium(II)-Catalyzed Regioselective Ortho Arylation of sp <sup>2</sup> C-H Bonds of N-Aryl-2-amino Pyridine Derivatives. <i>ChemCatChem</i> , <b>2012</b> , 4, 1345-1352	5.2	11
52	Selective Sequential Cross-Coupling Reactions on Imidazole towards Neurodazine and Analogues. <i>Synthesis</i> , <b>2013</b> , 45, 1387-1405	2.9	11
51	Toward the Recovery of Platinum Group Metals from a Spent Automotive Catalyst with Supported Ionic Liquid Phases. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 375-386	8.3	11
50	Improved simplicity and practicability in copper-catalyzed alkynylation of tetrahydroisoquinoline. <i>Monatshefte für Chemie</i> , <b>2017</b> , 148, 91-104	1.4	10
49	Linked magnolol dimer as a selective PPAR $\alpha$ agonist - Structure-based rational design, synthesis, and bioactivity evaluation. <i>Scientific Reports</i> , <b>2017</b> , 7, 13002	4.9	10
48	Photocatalytic deaminative benzylation and alkylation of tetrahydroisoquinolines with -alkylpyridinium salts. <i>Beilstein Journal of Organic Chemistry</i> , <b>2020</b> , 16, 809-817	2.5	10
47	Pd(0)-Catalyzed Cu(I)-Thiophene-2-carboxylate-mediated Cross-Coupling of Heteroaromatic Thioethers and Boronic Acids—First Liebeskind–Brogl Reaction in Water. <i>Journal of Heterocyclic Chemistry</i> , <b>2013</b> , 50, 1368-1373	1.9	9
46	Halogen Dance and Sequential Cross-Coupling on 2-Anilinothiazoles. <i>Letters in Organic Chemistry</i> , <b>2009</b> , 6, 171-174	0.6	9
45	Exploiting the C-H bond in metal catalyzed C-C bond forming reactions. <i>Arkivoc</i> , <b>2015</b> , 2015, 212-243	0.9	9
44	VUT-MK142 : a new cardiomyogenic small molecule promoting the differentiation of pre-cardiac mesoderm into cardiomyocytes. <i>MedChemComm</i> , <b>2013</b> , 4, 1189-1195	5	8
43	Targeting aphA : a new high-throughput screening assay identifies compounds that reduce prime virulence factors of <i>Vibrio cholerae</i> . <i>Journal of Medical Microbiology</i> , <b>2016</b> , 65, 678-687	3.2	8

42	Leoligin-inspired synthetic lignans with selectivity for cell-type and bioactivity relevant for cardiovascular disease. <i>Chemical Science</i> , <b>2019</b> , 10, 5815-5820	9.4	7
41	Metal-assisted synthesis of unsymmetrical magnolol and honokiol analogs and their biological assessment as GABAA receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2015</b> , 25, 400-3	2.9	7
40	Engineered Flumazenil Recognition Site Provides Mechanistic Insight Governing Benzodiazepine Modulation in GABA Receptors. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2040-2047	4.9	7
39	GABA 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> , <b>2020</b> , 21,	6.3	6
38	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> , <b>2017</b> , 426, 398-406		6
37	Investigations into the Kinetic Modeling of the Direct Alkylation of Benzylic Amines: Dissolution of K <sub>2</sub> CO <sub>3</sub> Is Responsible for the Observation of an Induction Period. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 8268-74	4.2	5
36	Counterion Enhanced Organocatalysis: A Novel Approach for the Asymmetric Transfer Hydrogenation of Enones. <i>ChemCatChem</i> , <b>2020</b> , 12, 3776-3782	5.2	5
35	Expansion of the Concept of Nonlinear Effects in Catalytic Reactions Beyond Asymmetric Catalysis. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 5637-42	4.8	5
34	Exploration of C-H and N-H-bond functionalization towards 1-(1,2-diarylindol-3-yl)tetrahydroisoquinolines. <i>Beilstein Journal of Organic Chemistry</i> , <b>2014</b> , 10, 2186-99	2.5	5
33	Small molecule cardiogenol C upregulates cardiac markers and induces cardiac functional properties in lineage-committed progenitor cells. <i>Cellular Physiology and Biochemistry</i> , <b>2014</b> , 33, 205-21	3.9	5
32	Studying competitive lithiations at alpha-, ortho-, and benzylic positions in various N-protected aniline derivatives. <i>Tetrahedron</i> , <b>2011</b> , 67, 2895-2904	2.4	5
31	Synthesis of novel 4-(2-amino-5-thiazolyl)-pyrimidine-2-amines as potential protein kinase inhibitors. <i>Monatshefte Für Chemie</i> , <b>2009</b> , 140, 423-430	1.4	5
30	Synthesis of potential fungicides based on N-(3-furanyl)pyrrolicarboxamides and N-(3-furanyl)pyrazolecarboxamides. <i>Monatshefte Für Chemie</i> , <b>2009</b> , 140, 1349-1359	1.4	5
29	One-pot synthesis of triazines as potential agents affecting cell differentiation. <i>Monatshefte Für Chemie</i> , <b>2018</b> , 149, 1257-1284	1.4	5
28	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> , <b>2019</b> , 17, 4024-4030	3.9	4
27	Investigation of the regioselectivity of the Hurd-Mori reaction for the formation of bicyclic 1,2,3-thiadiazoles. <i>Tetrahedron</i> , <b>2010</b> , 66, 5472-5478	2.4	4
26	Polysubstituted Thiazole Derivatives via the Halogen-Dance Reaction. <i>Synlett</i> , <b>2007</b> , 2007, 3016-3018	2.2	4
25	Counterion-Enhanced Pd/Enamine Catalysis: Direct Asymmetric Allylation of Aldehydes with Allylic Alcohols by Chiral Amines and Achiral or Racemic Phosphoric Acids. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 850-860	4.2	4

24	Magnolol dimer-derived fragments as PPAR $\beta$ -selective probes. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 7019-7028	3.9	4
23	SAR-Guided Scoring Function and Mutational Validation Reveal the Binding Mode of CGS-8216 at the $\alpha$ / $\beta$ - Benzodiazepine Site. <i>Journal of Chemical Information and Modeling</i> , <b>2018</b> , 58, 1682-1696	6.1	3
22	A Comparative Study on Stille Cross-Coupling Reactions of 2-Phenylthiazoles and 2-Phenyloxazoles. <i>Synthesis</i> , <b>2008</b> , 2008, 3099-3107	2.9	3
21	Synthesis and screening of 2,6-diamino-substituted purine derivatives as potential cardiomyogenesis inducing agents. <i>Arkivoc</i> , <b>2011</b> , 2011, 45-61	0.9	3
20	Synthesis of substituted thieno[2,3-d]isothiazoles as potential plant activators. <i>Arkivoc</i> , <b>2013</b> , 2013, 245-265	2.5	3
19	Carbamate-based P,O-ligands for asymmetric allylic alkylations. <i>Tetrahedron</i> , <b>2020</b> , 76, 131246	2.4	2
18	Design and Synthesis of a Compound Library Exploiting 5-Methoxyoleigin as Potential Cholesterol Efflux Promoter. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
17	Frontispiece: Direct Functionalization of C-H Bonds by Iron, Nickel, and Cobalt Catalysis. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23,	4.8	2
16	A Combined Deep Eutectic Solvent-Ionic Liquid Process for the Extraction and Separation of Platinum Group Metals (Pt, Pd, Rh). <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
15	Chiral Phosphoric Acids as Versatile Tools for Organocatalytic Asymmetric Transfer Hydrogenations. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 5367-5381	3.2	2
14	Benign recovery of platinum group metals from spent automotive catalysts using choline-based deep eutectic solvents. <i>Green Chemistry Letters and Reviews</i> , <b>2022</b> , 15, 404-414	4.7	2
13	Metal-Catalyzed Cross-Coupling Reactions in the Decoration of Pyridines. <i>Topics in Heterocyclic Chemistry</i> , <b>2015</b> , 1-60	0.2	1
12	Library synthesis of cardiomyogenesis inducing compounds using an efficient two-step-one-flow process. <i>Monatshefte Für Chemie</i> , <b>2016</b> , 147, 523-532	1.4	1
11	Variations on a scaffold - Novel GABA receptor modulators. <i>European Journal of Medicinal Chemistry</i> , <b>2019</b> , 180, 340-349	6.8	1
10	Synthesis of endo- and exo-N-Protected 5-Arylated 2-Aminothiazoles through Direct Arylation: An Efficient Route to Cell Differentiation Accelerators. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 4765-4771	3.2	1
9	Combined ionic liquid and supercritical carbon dioxide based dynamic extraction of six cannabinoids from L.. <i>Green Chemistry</i> , <b>2021</b> , 23, 10079-10089	10	1
8	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> , <b>2020</b> , 97, 200-206	2.4	1
7	Structural Features Defining NF- $\kappa$ B Inhibition by Lignan-Inspired Benzofurans and Benzothiophenes. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	1

6	Rhodium-catalyzed direct alkylation of benzylic amines using alkyl bromides. <i>Monatshefte für Chemie</i> , <b>2019</b> , 150, 127-138	1.4	1
5	Characterization of a Structural Leoligin Analog as Farnesoid X Receptor Agonist and Modulator of Cholesterol Transport. <i>Planta Medica</i> , <b>2020</b> , 86, 1097-1107	3.1	0
4	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> , <b>2020</b> , 1	1.4	0
3	Toluene and its Derivatives as Atom-Efficient Benzylating Agents for Secondary Amines. <i>Synlett</i> , <b>2019</b> , 30, 94-98	2.2	0
2	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> , <b>2018</b> , 81, 2419-2428	4.9	0
1	European Research in Focus: C <sub>H</sub> Activation in Organic Synthesis (CHAOS). <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 6032-6033	3.2	