

Helfried Neumann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4522228/publications.pdf>

Version: 2024-02-01

76
papers

10,047
citations

61977

43
h-index

64791

79
g-index

89
all docs

89
docs citations

89
times ranked

5500
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Cobalt-Catalysed Reductive Etherification Using Phosphine Oxide Promoters under Hydroformylation Conditions. <i>Chemistry - A European Journal</i> , 2022, 28, . | 3.3 | 1 |
| 2 | (<i>In situ</i>) spectroscopic studies on state-of-the-art Pd catalysts in solution for the alkoxy carbonylation of alkenes. <i>Catalysis Science and Technology</i> , 2022, 12, 3175-3189. | 4.1 | 5 |
| 3 | A general synthesis of aromatic amides <i>via</i> palladium-catalyzed direct aminocarbonylation of aryl chlorides. <i>Organic Chemistry Frontiers</i> , 2022, 9, 2491-2497. | 4.5 | 6 |
| 4 | Recent Developments for the Deuterium and Tritium Labeling of Organic Molecules. <i>Chemical Reviews</i> , 2022, 122, 6634-6718. | 47.7 | 186 |
| 5 | Efficient iron single-atom catalysts for selective ammoxidation of alcohols to nitriles. <i>Nature Communications</i> , 2022, 13, 1848. | 12.8 | 52 |
| 6 | Catalytic oxidative dehydrogenation of N-heterocycles with nitrogen/phosphorus co-doped porous carbon materials. <i>Chemical Science</i> , 2022, 13, 6865-6872. | 7.4 | 22 |
| 7 | Manganese-catalyzed selective C-H activation and deuteration by means of a catalytic transient directing group strategy. <i>Chemical Communications</i> , 2021, 57, 1137-1140. | 4.1 | 21 |
| 8 | Efficient methylation of anilines with methanol catalysed by cyclometalated ruthenium complexes. <i>Catalysis Science and Technology</i> , 2021, 11, 2512-2517. | 4.1 | 28 |
| 9 | A general strategy for the synthesis of β -trifluoromethyl- and β -perfluoroalkyl- γ -lactams via palladium-catalyzed carbonylation. <i>Chemical Science</i> , 2021, 12, 10467-10473. | 7.4 | 14 |
| 10 | Efficient Palladium-Catalyzed Carbonylation of 1,3-Dienes: Selective Synthesis of Adipates and Other Aliphatic Diesters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9527-9533. | 13.8 | 26 |
| 11 | Efficient Palladium-Catalyzed Carbonylation of 1,3-Dienes: Selective Synthesis of Adipates and Other Aliphatic Diesters. <i>Angewandte Chemie</i> , 2021, 133, 9613-9619. | 2.0 | 4 |
| 12 | Cobalt-Catalyzed Hydroformylation under Mild Conditions in the Presence of Phosphine Oxides. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5148-5154. | 6.7 | 27 |
| 13 | 3,3-Difluoroallyl ammonium salts: highly versatile, stable and selective gem-difluoroallylation reagents. <i>Nature Communications</i> , 2021, 12, 3257. | 12.8 | 29 |
| 14 | Ruthenium-Catalyzed Deuteration of Aromatic Carbonyl Compounds with a Catalytic Transient Directing Group. <i>Chemistry - A European Journal</i> , 2021, 27, 9720-9720. | 3.3 | 1 |
| 15 | Ruthenium-Catalyzed Deuteration of Aromatic Carbonyl Compounds with a Catalytic Transient Directing Group. <i>Chemistry - A European Journal</i> , 2021, 27, 9768-9773. | 3.3 | 15 |
| 16 | Versatile Fluorinated Building Blocks by Stereoselective (Per)fluoroalkenylation of Ketones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 70-81. | 2.4 | 8 |
| 17 | Palladium-catalyzed carbonylations of highly substituted olefins using CO-surrogates. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3681-3685. | 4.5 | 12 |
| 18 | Selective nickel-catalyzed fluoroalkylations of olefins. <i>Chemical Communications</i> , 2020, 56, 15157-15160. | 4.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Direct and Selective Synthesis of Adipic and Other Dicarboxylic Acids by Palladium-Catalyzed Carbonylation of Allylic Alcohols. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20394-20398. | 13.8 | 26 |
| 20 | Direct and Selective Synthesis of Adipic and Other Dicarboxylic Acids by Palladium-Catalyzed Carbonylation of Allylic Alcohols. <i>Angewandte Chemie</i> , 2020, 132, 20574-20578. | 2.0 | 8 |
| 21 | Efficient Palladium-Catalyzed Synthesis of 2-Aryl Propionic Acids. <i>Molecules</i> , 2020, 25, 3421. | 3.8 | 4 |
| 22 | The role of allyl ammonium salts in palladium-catalyzed cascade reactions towards the synthesis of spiro-fused heterocycles. <i>Nature Communications</i> , 2020, 11, 5383. | 12.8 | 25 |
| 23 | Ruthenium-Catalyzed Site-Selective Trifluoromethylations and (Per)Fluoroalkylations of Anilines and Indoles. <i>Chemistry - A European Journal</i> , 2020, 26, 6784-6788. | 3.3 | 15 |
| 24 | A general platinum-catalyzed alkoxy-carbonylation of olefins. <i>Chemical Communications</i> , 2020, 56, 5235-5238. | 4.1 | 27 |
| 25 | Synthesis of α,β -unsaturated carbonyl compounds by carbonylation reactions. <i>Chemical Society Reviews</i> , 2020, 49, 3187-3210. | 38.1 | 151 |
| 26 | Cyclometalated Ruthenium Pincer Complexes as Catalysts for the α -Alkylation of Ketones with Alcohols. <i>Chemistry - A European Journal</i> , 2020, 26, 6050-6055. | 3.3 | 21 |
| 27 | Towards a practical perfluoroalkylation of (hetero)arenes with perfluoroalkyl bromides using cobalt nanocatalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 1731-1738. | 4.1 | 10 |
| 28 | A general and practical Ni-catalyzed C-H perfluoroalkylation of (hetero)arenes. <i>Chemical Communications</i> , 2019, 55, 6723-6726. | 4.1 | 20 |
| 29 | Pd-catalyzed synthesis of α,β -unsaturated ketones by carbonylation of vinyl triflates and nonaflates. <i>Chemical Communications</i> , 2019, 55, 5938-5941. | 4.1 | 6 |
| 30 | Pd-Catalyzed Carbonylation of Vinyl Triflates To Afford α,β -Unsaturated Aldehydes, Esters, and Amides under Mild Conditions. <i>Organic Letters</i> , 2019, 21, 3528-3532. | 4.6 | 16 |
| 31 | Direct synthesis of adipic acid esters via palladium-catalyzed carbonylation of 1,3-dienes. <i>Science</i> , 2019, 366, 1514-1517. | 12.6 | 151 |
| 32 | A General, Activator-Free Palladium-Catalyzed Synthesis of Arylacetic and Benzoic Acids from Formic Acid. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6910-6914. | 13.8 | 33 |
| 33 | Cooperative catalytic methoxycarbonylation of alkenes: uncovering the role of palladium complexes with hemilabile ligands. <i>Chemical Science</i> , 2018, 9, 2510-2516. | 7.4 | 94 |
| 34 | Palladium-Catalyzed Selective Generation of CO from Formic Acid for Carbonylation of Alkenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 5217-5223. | 13.7 | 94 |
| 35 | Pd-Catalyzed Cyanation of (Hetero)Aryl Halides by Using Biphosphine Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 67-70. | 3.3 | 19 |
| 36 | Development of efficient palladium catalysts for alkoxy-carbonylation of alkenes. <i>Chemical Communications</i> , 2018, 54, 12238-12241. | 4.1 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Selective Palladium-Catalyzed Carbonylation of Alkynes: An Atom-Economic Synthesis of 1,4-Dicarboxylic Acid Diesters. <i>Journal of the American Chemical Society</i> , 2018, 140, 10282-10288. | 13.7 | 67 |
| 38 | Highly active and efficient catalysts for alkoxy-carbonylation of alkenes. <i>Nature Communications</i> , 2017, 8, 14117. | 12.8 | 143 |
| 39 | Efficient Palladium-Catalyzed Alkoxy-carbonylation of Bulk Industrial Olefins Using Ferrocenyl Phosphine Ligands. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5267-5271. | 13.8 | 73 |
| 40 | Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF ₃ Br. <i>Angewandte Chemie</i> , 2016, 128, 2832-2836. | 2.0 | 40 |
| 41 | The scope and mechanism of palladium-catalysed Markovnikov alkoxy-carbonylation of alkenes. <i>Nature Chemistry</i> , 2016, 8, 1159-1166. | 13.6 | 118 |
| 42 | Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF ₃ Br. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2782-2786. | 13.8 | 119 |
| 43 | Heterogeneous Platinum-Catalyzed C ₁ H Perfluoroalkylation of Arenes and Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4320-4324. | 13.8 | 80 |
| 44 | Pd/C as an efficient heterogeneous catalyst for carbonylative four-component synthesis of 4(3H)-quinazolinones. <i>Catalysis Science and Technology</i> , 2015, 5, 4474-4480. | 4.1 | 55 |
| 45 | Regioselective Ruthenium-Catalyzed Carbonylative Direct Arylation of Five-Membered and Condensed Heterocycles. <i>Chemistry - A European Journal</i> , 2014, 20, 3135-3141. | 3.3 | 33 |
| 46 | Ruthenium-Catalyzed Hydroarylation of Styrenes in Water through Directed C-H Bond Activation. <i>ChemCatChem</i> , 2014, 6, 1562-1566. | 3.7 | 15 |
| 47 | Palladium-Catalyzed Carbonylations of Aryl Bromides using Paraformaldehyde: Synthesis of Aldehydes and Esters. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10090-10094. | 13.8 | 133 |
| 48 | Transition-Metal-Catalyzed Carbonylation Reactions of Olefins and Alkynes: A Personal Account. <i>Accounts of Chemical Research</i> , 2014, 47, 1041-1053. | 15.6 | 453 |
| 49 | Copper-catalyzed trifluoromethylation of aryl- and vinylboronic acids with generation of CF ₃ -radicals. <i>Chemical Communications</i> , 2013, 49, 2628. | 4.1 | 170 |
| 50 | Palladium-Catalyzed Oxidative Carbonylation Reactions. <i>ChemSusChem</i> , 2013, 6, 229-241. | 6.8 | 301 |
| 51 | Ruthenium-Catalyzed Carbonylative C-C Coupling in Water by Directed C-H Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6293-6297. | 13.8 | 71 |
| 52 | Synthesis of Heterocycles via Palladium-Catalyzed Carbonylations. <i>Chemical Reviews</i> , 2013, 113, 1-35. | 47.7 | 1,105 |
| 53 | Ruthenium and Rhodium-Catalyzed Carbonylation Reactions. <i>ChemCatChem</i> , 2012, 4, 447-458. | 3.7 | 175 |
| 54 | Palladium-Catalyzed Carbonylative Heck Reaction of Aryl Bromides with Vinyl Ethers to α -Alkoxy Alkenones and Pyrazoles. <i>Chemistry - A European Journal</i> , 2012, 18, 4827-4831. | 3.3 | 54 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Palladium-catalyzed carbonylative coupling reactions between Ar-X and carbon nucleophiles. <i>Chemical Society Reviews</i> , 2011, 40, 4986. | 38.1 | 849 |
| 56 | Progress in Carbonylative Heck Reactions of Aryl Bromides: Catalysis and DFT Studies. <i>ChemCatChem</i> , 2011, 3, 726-733. | 3.7 | 65 |
| 57 | The Catalytic Amination of Alcohols. <i>ChemCatChem</i> , 2011, 3, 1853-1864. | 3.7 | 648 |
| 58 | Palladium-Catalyzed Carbonylative Suzuki Coupling of Benzyl Halides with Potassium Aryltrifluoroborates in Aqueous Media. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 788-792. | 4.3 | 63 |
| 59 | A General Palladium-Catalyzed Carbonylative Sonogashira Coupling of Aryl Triflates. <i>Chemistry - A European Journal</i> , 2011, 17, 106-110. | 3.3 | 100 |
| 60 | Development of a Second Generation Palladium Catalyst System for the Aminocarbonylation of Aryl Halides with CO and Ammonia. <i>Chemistry - an Asian Journal</i> , 2010, 5, 2168-2172. | 3.3 | 91 |
| 61 | Convenient Carbonylation of Aryl Bromides with Phenols to Form Aryl Esters by Applying a Palladium/Diadamantyl-n-butylphosphine Catalyst. <i>ChemCatChem</i> , 2010, 2, 509-513. | 3.7 | 72 |
| 62 | Selective Palladium-Catalyzed Aminocarbonylation of Aryl Halides with CO and Ammonia. <i>Chemistry - A European Journal</i> , 2010, 16, 9750-9753. | 3.3 | 159 |
| 63 | A General and Convenient Palladium-Catalyzed Carbonylative Sonogashira Coupling of Aryl Bromides. <i>Chemistry - A European Journal</i> , 2010, 16, 12104-12107. | 3.3 | 113 |
| 64 | Palladium-Catalyzed Coupling Reactions: Carbonylative Heck Reactions To Give Chalcones. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5284-5288. | 13.8 | 154 |
| 65 | Palladium-Catalyzed Carbonylative C-H Activation of Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7316-7319. | 13.8 | 165 |
| 66 | Palladium-catalyzed carbonylative coupling of benzyl chlorides with aryl boronic acids in aqueous media. <i>Tetrahedron Letters</i> , 2010, 51, 6146-6149. | 1.4 | 62 |
| 67 | Development of a General Palladium-Catalyzed Carbonylative Heck Reaction of Aryl Halides. <i>Journal of the American Chemical Society</i> , 2010, 132, 14596-14602. | 13.7 | 213 |
| 68 | Palladium-Catalyzed Carbonylation Reactions of Aryl Halides and Related Compounds. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4114-4133. | 13.8 | 1,275 |
| 69 | Palladium-Catalyzed Carbonylation Reactions of Alkenes and Alkynes. <i>ChemCatChem</i> , 2009, 1, 28-41. | 3.7 | 384 |
| 70 | Palladium Catalysts for the Formylation of Vinyl Triflates To Form α,β -Unsaturated Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4887-4891. | 13.8 | 50 |
| 71 | An Efficient and Practical Sequential One-Pot Synthesis of Suprofen, Ketoprofen and Other α -Arylpropionic Acids. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2437-2442. | 4.3 | 72 |
| 72 | Palladium/di-1-adamantyl-n-butylphosphine-catalyzed reductive carbonylation of aryl and vinyl halides. <i>Tetrahedron</i> , 2007, 63, 6252-6258. | 1.9 | 85 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | In Situ Generation of Chiral N-Dienyl Lactams in a Multicomponent Reaction: An Efficient and Highly Selective Way to Asymmetric Amidocyclohexenes. <i>Chemistry - an Asian Journal</i> , 2007, 2, 720-733. | 3.3 | 18 |
| 74 | A General and Efficient Method for the Formylation of Aryl and Heteroaryl Bromides. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 154-158. | 13.8 | 200 |
| 75 | Multicomponent Coupling Reactions for Organic Synthesis: Chemoselective Reactions with Amide-Aldehyde Mixtures. <i>Chemistry - A European Journal</i> , 2003, 9, 4286-4294. | 3.3 | 219 |
| 76 | Base-Mediated Remote Deuteration of <i>N</i> -Heteroarenes – Broad Scope and Mechanism. <i>European Journal of Organic Chemistry</i> , 0, , . | 2.4 | 4 |