

# CITATION REPORT

List of articles citing

The medicinal chemists toolbox: an analysis of reactions used in the pursuit of drug candidates

DOI: 10.1021/jm200187y

Journal of Medicinal Chemistry, 2011, 54, 3451-79.

**Source:** <https://exaly.com/paper-pdf/51247875/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1738	Use of an Iridium-Catalyzed Redox-Neutral Alcohol-Amine Coupling on Kilogram Scale for the Synthesis of a GlyT1 Inhibitor. <b>2011</b> , 15, 1052-1062		83
1737	Palladium-catalyzed asymmetric allylic alkylations of polynitrogen-containing aromatic heterocycles. <b>2011</b> , 133, 12439-41		100
1736	Development of a Mild and Robust Method for Palladium Catalyzed Cyanation on Large Scale. <b>2011</b> , 125-134		
1735	Guest Editorial for Asymmetric Synthesis on Large Scale Special Issue. <b>2011</b> , 15, 1088-1088		3
1734	Pyridine synthesis from oximes and alkynes via rhodium(III) catalysis: Cp* and Cp(t) provide complementary selectivity. <b>2011</b> , 47, 11846-8		334
1733	Improving drug candidates by design: a focus on physicochemical properties as a means of improving compound disposition and safety. <b>2011</b> , 24, 1420-56		371
1732	Expanded substrate scope and improved reactivity of ether-forming cross-coupling reactions of organotrifluoroborates and acetals. <b>2011</b> , 133, 14082-9		83
1731	A collection of robust organic synthesis reactions for in silico molecule design. <b>2011</b> , 51, 3093-8		69
1730	Minisci reactions: Versatile CH-functionalizations for medicinal chemists. <b>2011</b> , 2, 1135		398
1729	General and scalable amide bond formation with epimerization-prone substrates using T3P and pyridine. <b>2011</b> , 13, 5048-51		120
1728	The influence of the 'organizational factor' on compound quality in drug discovery. <b>2011</b> , 10, 749-65		132
1727	Rethinking amide bond synthesis. <b>2011</b> , 480, 471-9		1298
1726	ChemInform Abstract: The Medicinal Chemist's Toolbox: An Analysis of Reactions Used in the Pursuit of Drug Candidates. <b>2011</b> , 42, no-no		
1725	Drug discovery applications for KNIME: an open source data mining platform. <b>2012</b> , 12, 1965-79		68
1724	Polymer-supported stereoselective synthesis of benzimidazolinopiperazinones. <b>2012</b> , 77, 5687-95		24
1723	Highly reactive, single-component nickel catalyst precursor for Suzuki-Miyaura cross-coupling of heteroaryl boronic acids with heteroaryl halides. <b>2012</b> , 51, 12837-41		134
1722	Introduction: Drug Discovery in Difficult Times. <b>2012</b> , 1-9		

1721	Highly Reactive, Single-Component Nickel Catalyst Precursor for SuzukiMiyaura Cross-Coupling of Heteroaryl Boronic Acids with Heteroaryl Halides. <b>2012</b> , 124, 13009-13013	26
1720	One-pot C-N/C-C cross-coupling of methyliminodiacetic acid boronyl arenes enabled by protective enolization. <b>2012</b> , 14, 5578-81	27
1719	Optimized scale up of 3-pyrimidinylpyrazolo[1,5-a]pyridine via Suzuki coupling; a general method of accessing a range of 3-(hetero)arylpyrazolo[1,5-a]pyridines. <b>2012</b> , 68, 5434-5444	15
1718	Copper-catalyzed oxidative amidation of aldehydes with amine salts: synthesis of primary, secondary, and tertiary amides. <b>2012</b> , 77, 8007-15	195
1717	Palladium-catalyzed alkyne insertion/Suzuki reaction of alkyl iodides. <b>2012</b> , 134, 15297-300	64
1716	Probing the bioactivity-relevant chemical space of robust reactions and common molecular building blocks. <b>2012</b> , 52, 1167-78	36
1715	Pd(OAc) <sub>2</sub> -catalyzed alkoxylation of aryl nitriles via sp <sup>2</sup> C-H bond activation using cyano as the directing group. <b>2012</b> , 77, 8362-6	115
1714	Direct amidation of carboxylic acids catalyzed by ortho-iodo arylboronic acids: catalyst optimization, scope, and preliminary mechanistic study supporting a peculiar halogen acceleration effect. <b>2012</b> , 77, 8386-400	155
1713	Going further than Lipinski's rule in drug design. <b>2012</b> , 7, 99-107	91
1712	Palladium-catalyzed ortho-alkoxylation of anilides via C-H activation. <b>2012</b> , 77, 9504-9	119
1711	Eine einfache Synthese von sterisch gehinderten und elektronenarmen, sekundären Amiden aus Isocyanaten. <b>2012</b> , 124, 9307-9310	21
1710	Facile synthesis of sterically hindered and electron-deficient secondary amides from isocyanates. <b>2012</b> , 51, 9173-5	79
1709	Room-Temperature SuzukiMiyaura Coupling of Heteroaryl Chlorides and Tosylates. <b>2012</b> , 2012, 6248-6259	85
1708	Diaryl ether derivatives as anticancer agents – a review. <b>2012</b> , 3, 1356	45
1707	The impact of click chemistry in medicinal chemistry. <b>2012</b> , 7, 489-501	171
1706	New chemical and chemo-enzymatic routes for the synthesis of (R)- and (S)-enciprazine. <b>2012</b> , 23, 1272-1278	7
1705	Direct oxidative amidation of aromatic aldehydes using aqueous hydrogen peroxide in continuous flow microreactor systems. <b>2012</b> , 14, 1471	67
1704	Assembly of four diverse heterocyclic libraries enabled by Prins cyclization, Au-catalyzed enyne cycloisomerization, and automated amide synthesis. <b>2012</b> , 77, 7435-70	20

1703	Introduction. <b>2012</b> , 1-21	1
1702	Catalytic procedures for multicomponent synthesis of imidazoles: selectivity control during the competitive formation of tri- and tetrasubstituted imidazoles. <b>2012</b> , 14, 2038	77
1701	Finding the sweet spot: the role of nature and nurture in medicinal chemistry. <b>2012</b> , 11, 355-65	295
1700	Replacing conventional carbon nucleophiles with electrophiles: nickel-catalyzed reductive alkylation of aryl bromides and chlorides. <b>2012</b> , 134, 6146-59	257
1699	Structural enrichment of HTS compounds from available commercial libraries. <b>2012</b> , 3, 571	12
1698	Efficient alkyl ether synthesis via palladium-catalyzed, picolinamide-directed alkoxylation of unactivated C(sp <sup>3</sup> )-H and C(sp <sup>2</sup> )-H bonds at remote positions. <b>2012</b> , 134, 7313-6	291
1697	Towards the systematic exploration of chemical space. <b>2012</b> , 10, 17-28	54
1696	Lessons from natural products chemistry can offer novel approaches for synthetic chemistry in drug discovery. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 7003-9	8.3 39
1695	Abstracts of the 20th International Isotope Society (UK group) Symposium: Synthesis & Applications of Labelled Compounds 2011. <b>2012</b> , 55, 125-134	
1694	Ligated Regioselective PdII Catalysis to Access $\alpha$ -Aryl-Bearing Aldehydes, Ketones, and $\alpha$ -Keto Esters. <b>2012</b> , 2012, 4694-4698	24
1693	A one-pot double C-H activation palladium catalyzed route to a unique class of highly functionalized thienoisquinolines. <b>2012</b> , 14, 2738-41	17
1692	A Mild and Versatile Method for the Synthesis of Alkyl Ethers from Methoxymethyl Ethers and Application to the Preparation of Sterically Crowded Ethers. <b>2012</b> , 354, 1861-1866	7
1691	Leitstruktur-orientierte Synthese: eine Alternative für die Synthesechemie. <b>2012</b> , 124, 1140-1149	67
1690	Amide-Forming Ligation of Acyltrifluoroborates and Hydroxylamines in Water. <b>2012</b> , 124, 5781-5784	51
1689	Amide-forming ligation of acyltrifluoroborates and hydroxylamines in water. <b>2012</b> , 51, 5683-6	116
1688	Application of Barluenga Boronic Coupling (BBC) to the parallel synthesis of drug-like and drug fragment-like molecules. <b>2012</b> , 7, 233-6	30
1687	Mining electronic laboratory notebooks: analysis, retrosynthesis, and reaction based enumeration. <b>2012</b> , 52, 1745-56	58
1686	Treatment of Halogen Bonding in the OPLS-AA Force Field; Application to Potent Anti-HIV Agents. <b>2012</b> , 8, 3895-3801	206

- 1685 Studies on the coupling of substituted 2-amino-1,3-oxazoles with chloro-heterocycles. **2012**, 53, 3038-3043 8
- 1684 Lead-oriented synthesis: a new opportunity for synthetic chemistry. **2012**, 51, 1114-22 295
- 1683 Enantioconvergent cross-couplings of racemic alkylmetal reagents with unactivated secondary alkyl electrophiles: catalytic asymmetric Negishi alkylations of N-Boc-pyrrolidine. **2013**, 135, 10946-9 140
- 1682 Supported protic acid-catalyzed synthesis of 2,3-disubstituted thiazolidin-4-ones: enhancement of the catalytic potential of protic acid by adsorption on solid supports. **2013**, 15, 2872 81
- 1681 Development of a solvent selection guide for aldehyde-based direct reductive amination processes. **2013**, 15, 1159 44
- 1680 Suzuki-Miyaura cross-coupling of unprotected, nitrogen-rich heterocycles: substrate scope and mechanistic investigation. **2013**, 135, 12877-85 175
- 1679 Solid-supported ortho-iodoarylboronic acid catalyst for direct amidation of carboxylic acids. **2013**, 54, 4475-4478 20
- 1678 Pd(II)-catalyzed alkoxylation of unactivated C(sp<sup>3</sup>) and C(sp<sup>2</sup>) bonds using a removable directing group: efficient synthesis of alkyl ethers. **2013**, 4, 4187 253
- 1677 Direct N-cyclopropylation of secondary acyclic amides promoted by copper. **2013**, 49, 7412-4 28
- 1676 Surfactant micelles as microreactors for the synthesis of quinoxalines in water: scope and limitations of surfactant catalysis. **2013**, 3, 15157 50
- 1675 A powerful hydrogen-bond-donating organocatalyst for the enantioselective intramolecular oxa-Michael reaction of  $\alpha$ -unsaturated amides and esters. **2013**, 52, 11114-8 88
- 1674 A versatile approach to Ullmann C-N couplings at room temperature: new families of nucleophiles and electrophiles for photoinduced, copper-catalyzed processes. **2013**, 135, 13107-12 145
- 1673 Mechanism and selectivity in nickel-catalyzed cross-electrophile coupling of aryl halides with alkyl halides. **2013**, 135, 16192-7 412
- 1672 A practical synthesis of (1S,4S)-2,5-diazabicyclo[2.2.1]heptane. **2013**, 54, 5345-5347 8
- 1671 Palladium-catalyzed direct ortho alkoxylation of aromatic azo compounds with alcohols. **2013**, 78, 10002-7 82
- 1670 Palladium catalyzed cyclizations of oxime esters with 1,2-disubstituted alkenes: synthesis of dihydropyrroles. **2013**, 15, 4616-9 74
- 1669 Palladium-catalyzed intramolecular iodine-transfer reactions in the presence of  $\beta$ -hydrogen atoms. **2013**, 52, 14214-8 63
- 1668 Isothiourea-mediated one-pot synthesis of functionalized pyridines. **2013**, 52, 11642-6 93

1667	β-Methoxymethyl ketones via aldol reaction. <b>2013</b> , 69, 9663-9674	1
1666	Click chemistry in peptide-based drug design. <b>2013</b> , 18, 9797-817	126
1665	Metal-free synthesis of aryl ethers in water. <b>2013</b> , 15, 6070-3	89
1664	A catalytic and tert-butoxide ion-mediated amidation of aldehydes with para-nitro azides. <b>2013</b> , 49, 2759-61	15
1663	An efficient palladium-catalyzed C-H alkoxylation of unactivated methylene and methyl groups with cyclic hypervalent iodine (i(3+)) oxidants. <b>2013</b> , 52, 13606-10	97
1662	Iron/tetramethylethylenediamine-catalyzed ambient-temperature coupling of alkyl Grignard reagents and aryl chlorides. <b>2013</b> , 78, 9517-21	30
1661	Development of a Sustainable Catalytic Ester Amidation Process. <b>2013</b> , 1, 1339-1344	32
1660	Design, Synthesis, and Application of a Trifluoromethylated Phenylalanine Analogue as a Label to Study Peptides by Solid-State 19F NMR Spectroscopy. <b>2013</b> , 125, 6632-6635	7
1659	Efficient activity of magnesium/aluminium hydrotalcite in the synthesis of amides. <b>2013</b> , 3, 23046	12
1658	Activation of dinitrogen-derived hafnium nitrides for nucleophilic N-C bond formation with a terminal isocyanate. <b>2013</b> , 52, 12965-9	21
1657	A conceptual framework for analysing and planning synthetic approaches to diverse lead-like scaffolds. <b>2013</b> , 49, 2383-93	45
1656	Ir(I)-catalyzed enantioselective decarboxylative allylic etherification: a general method for the asymmetric synthesis of aryl allyl ethers. <b>2013</b> , 15, 512-5	22
1655	Rh(III)-catalyzed regioselective synthesis of pyridines from alkenes and α,β-unsaturated oxime esters. <b>2013</b> , 135, 66-9	286
1654	Evaluation of alternative solvents in common amide coupling reactions: replacement of dichloromethane and N,N-dimethylformamide. <b>2013</b> , 15, 596	93
1653	Toward rational design of organic dye sensitized solar cells (DSSCs): an application to the TA-St-CA dye. <b>2013</b> , 40, 64-71	41
1652	Metal impurities cause false positives in high-throughput screening campaigns. <b>2013</b> , 4, 197-200	68
1651	Synthesis of 1,2,3,4-tetrahydroisoquinolines by microreactor-mediated thermal isomerization of laterally lithiated arylaziridines. <b>2013</b> , 19, 1872-6	43
1650	Multicomponent reactions - opportunities for the pharmaceutical industry. <b>2013</b> , 10, e15-20	103

- 1649 All-water one-pot diverse synthesis of 1,2-disubstituted benzimidazoles: hydrogen bond driven synergistic electrophile-nucleophile dual activation by water. **2013**, 15, 798 92
- 1648 Industrielle Anwendungen der Diels-Alder-Reaktion. **2013**, 125, 3912-3955 46
- 1647 Exploring Virtual Scaffold Spaces. **2013**, 83-104
- 1646 Polymer-supported stereoselective synthesis of tetrahydro-2H-oxazolo[3,2-a]pyrazin-5(3H)-ones from N-(2-oxo-ethyl)-derivatized dipeptides via eastbound iminiums. **2013**, 15, 162-7 17
- 1645 Phthalide: a direct building-block towards P,O and P,N hemilabile ligands. Application in the palladium-catalysed Suzuki-Miyaura cross-coupling of aryl chlorides. **2013**, 11, 2404-7 7
- 1644 1-Amino-4,4-difluorocyclohexanecarboxylic acid as a promising building block for drug discovery: design, synthesis and characterization. **2013**, 69, 4066-4075 8
- 1643 Unstabilized azomethine ylides for the stereoselective synthesis of substituted piperidines, tropanes, and azabicyclo[3.1.0] systems. **2013**, 135, 2478-81 41
- 1642 L-proline: an efficient catalyst for transamidation of carboxamides with amines. **2013**, 15, 1496-9 122
- 1641 Selective copper catalysed aromatic N-arylation in water. **2013**, 15, 336-340 63
- 1640 Expanding medicinal chemistry space. **2013**, 18, 298-304 61
- 1639 Escape from Flatland 2: complexity and promiscuity. **2013**, 4, 515 519
- 1638 Industrial applications of the Diels-Alder reaction. **2013**, 52, 3822-63 170
- 1637 Synthesis of 2- and 3-trifluoromethylmorpholines: useful building blocks for drug discovery. **2013**, 69, 3796-3804 20
- 1636 Copper-catalyzed formal C-N bond cleavage of aromatic methylamines: assembly of pyridine derivatives. **2013**, 78, 3774-82 83
- 1635 Synthesis and Characterization of  $\alpha$ -Trifluoromethyl-Substituted Pyrrolidines. **2013**, 2013, 3086-3093 19
- 1634 Iron-catalyzed cross-coupling reactions of alkyl Grignards with aryl sulfamates and tosylates. **2013**, 15, 96-9 81
- 1633 Sustainable practices in medicinal chemistry: current state and future directions. *Journal of Medicinal Chemistry*, **2013**, 56, 6007-21 8.3 136
- 1632 Chiral separation of amides using supercritical fluid chromatography. **2013**, 1293, 150-8 11

1631	Emerging strategies for the total synthesis of inorganic nanostructures. <b>2013</b> , 52, 6154-78		170
1630	Organobase-catalyzed amidation of esters with amino alcohols. <b>2013</b> , 15, 2506-9		38
1629	Design, synthesis, and application of a trifluoromethylated phenylalanine analogue as a label to study peptides by solid-state <sup>19</sup> F NMR spectroscopy. <b>2013</b> , 52, 6504-7		21
1628	Malonic Ester Amide Synthesis: An Efficient Methodology for Synthesis of Amides. <b>2013</b> , 43, 2508-2516		4
1627	Amination of heteroaryl chlorides: palladium catalysis or S <sub>N</sub> Ar in green solvents?. <b>2013</b> , 6, 1455-60		32
1626	Amide Formation Using In Situ Activation of Carboxylic Acids with [Et <sub>2</sub> NSF <sub>2</sub> ]BF <sub>4</sub> . <b>2013</b> , 2013, 4325-4331		12
1625	Catalytic Conversion of Nitriles into Secondary- and Tertiary Amides. <b>2013</b> , 5, 435-438		12
1624	Development of GSK's reagent guides embedding sustainability into reagent selection. <b>2013</b> , 15, 1542		71
1623	CROSS: an efficient workflow for reaction-driven rescaffolding and side-chain optimization using robust chemical reactions and available reagents. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 4656-70	8.3	7
1622	Synthesis and Structure Analysis of 4-Benzyl-1-[(2E)-3-(3-Bromo-4-Hydroxy-5-Methoxyphenyl)Prop-2-Enoyl]Piperazine Hydrochloride. <b>2013</b> , 37, 391-393		
1621	Direct Amide Formation from N-Arylglycine Ethyl Esters and Carboxylic Acids Catalysed by Phenylboronic Acid. <b>2013</b> , 37, 460-463		1
1620	Rhodium-Catalyzed Boron Arylation of 1,2-Azaborines. <b>2013</b> , 125, 9486-9489		16
1619	A Powerful Hydrogen-Bond-Donating Organocatalyst for the Enantioselective Intramolecular Oxa-Michael Reaction of $\beta$ -Unsaturated Amides and Esters. <b>2013</b> , 125, 11320-11324		27
1618	Chemoselective CaO-mediated acylation of alcohols and amines in 2-methyltetrahydrofuran. <b>2013</b> , 6, 905-10		16
1617	Isothiourea-Mediated One-Pot Synthesis of Functionalized Pyridines. <b>2013</b> , 125, 11856-11860		32
1616	Neue Strategien zur Totalsynthese von anorganischen Nanostrukturen. <b>2013</b> , 125, 6270-6297		11
1615	An Efficient Palladium-Catalyzed C-H Alkoxylation of Unactivated Methylene and Methyl Groups with Cyclic Hypervalent Iodine (I <sup>3+</sup> ) Oxidants. <b>2013</b> , 125, 13851-13855		22
1614	Rhodium-catalyzed boron arylation of 1,2-azaborines. <b>2013</b> , 52, 9316-9		46

1613	Palladium-Catalyzed Intramolecular Iodine-Transfer Reactions in the Presence of $\beta$ -Hydrogen Atoms. <b>2013</b> , 125, 14464-14468	29
1612	Activation of Dinitrogen-Derived Hafnium Nitrides for Nucleophilic N $\rightarrow$ C Bond Formation with a Terminal Isocyanate. <b>2013</b> , 125, 13203-13207	11
1611	Radioactive Iodine. <b>2014</b> , 603-624	
1610	Practical and Highly Selective C $\rightarrow$ H Functionalization of Structurally Diverse Ethers. <b>2014</b> , 126, 14065-14069	19
1609	Nickel-catalyzed cross-electrophile coupling of 2-chloropyridines with alkyl bromides. <b>2014</b> , 25, 233-238	36
1608	Synthesis of di-, tri-, and tetrasubstituted pyridines from (phenylthio)carboxylic acids and 2-[aryl(tosylimino)methyl]acrylates. <b>2014</b> , 16, 6496-9	37
1607	Step-economy etherification of acylated alcohols. <b>2014</b> , 55, 6836-6838	2
1606	Ruthenium-catalyzed ortho-C-H halogenations of benzamides. <b>2014</b> , 50, 1083-5	101
1605	Metal-free synthesis of ortho-CHO diaryl ethers by a three-component sequential coupling. <b>2014</b> , 16, 6408-11	31
1604	Towards the realisation of lead-oriented synthesis. <b>2014</b> , 19, 813-9	39
1603	Dendritic inhibition in the hippocampus supports fear learning. <b>2014</b> , 343, 857-63	298
1602	Development of a practical and sustainable strategy for the synthesis of ST1535 by an iron-catalyzed Kumada cross-coupling reaction. <b>2014</b> , 55, 1376-1378	17
1601	Trifluoroacetic acid in 2,2,2-trifluoroethanol facilitates S(N)Ar reactions of heterocycles with arylamines. <b>2014</b> , 20, 2311-7	26
1600	Impact of stereospecific intramolecular hydrogen bonding on cell permeability and physicochemical properties. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 2746-54	8.3 66
1599	Lanthanum(III) triflate catalyzed direct amidation of esters. <b>2014</b> , 16, 2018-21	110
1598	Efficient palladium-catalyzed aminocarbonylation of aryl iodides using palladium nanoparticles dispersed on siliceous mesocellular foam. <b>2014</b> , 20, 5885-9	29
1597	One-Pot Tandem Palladium-Catalyzed Decarboxylative Cross-Coupling and C $\rightarrow$ H Activation Route to Thienoisquinolines. <b>2014</b> , 356, 1725-1730	12
1596	Synthesis of sterically hindered N-acylated amino acids from N-carboxyanhydrides. <b>2014</b> , 16, 1526-9	25

1595	Regio- and stereoselective 1,2-dihydropyridine alkylation/addition sequence for the synthesis of piperidines with quaternary centers. <b>2014</b> , 53, 3877-80	51
1594	Copper powder-catalyzed N-arylation of imidazoles in water using 2-(hydrazinecarbonyl)pyridine N-oxides as the new ligands. <b>2014</b> , 55, 3249-3251	26
1593	Imidazolidinium ferrate complexes: Synthesis and catalytic properties. <b>2014</b> , 17, 541-548	3
1592	Rhodium-catalyzed intermolecular C-H silylation of arenes with high steric regiocontrol. <b>2014</b> , 343, 853-7	347
1591	In silico design of bio-based commodity chemicals: application to itaconic acid based solvents. <b>2014</b> , 16, 146-160	32
1590	Photoinduced, copper-catalyzed alkylation of amides with unactivated secondary alkyl halides at room temperature. <b>2014</b> , 136, 2162-7	162
1589	ZINClick: a database of 16 million novel, patentable, and readily synthesizable 1,4-disubstituted triazoles. <b>2014</b> , 54, 396-406	17
1588	Rings in drugs. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 5845-59	8.3 1190
1587	Catalytic amide formation from non-activated carboxylic acids and amines. <b>2014</b> , 43, 2714-42	382
1586	The Literature of Heterocyclic Chemistry, Part XII, 2010-2011. <b>2014</b> , 147-274	16
1585	Data-driven medicinal chemistry in the era of big data. <b>2014</b> , 19, 859-68	101
1584	Intramolecular photoassisted cycloadditions of azaxylenes and postphotochemical capstone modifications via Suzuki coupling provide access to complex polyheterocyclic biaryls. <b>2014</b> , 79, 1235-46	26
1583	Formation and thermodynamic stability of novel methylvinyl derivatives of PtIV as possible intermediates for Csp <sup>3</sup> Csp <sup>2</sup> cross-coupling. <b>2014</b> , 752, 91-99	4
1582	Synthesis of $\beta$ -substituted vinylsulfonium salts and their application as annulation reagents in the formation of epoxide- and cyclopropane-fused heterocycles. <b>2014</b> , 79, 10226-39	32
1581	One-pot synthesis of tri- and tetrasubstituted pyridines by sequential ring-opening/cyclization/oxidation of N-arylmethyl 3-aziridinylpropiolate esters. <b>2014</b> , 53, 14550-4	17
1580	Advancing the Drug Discovery and Development Process. <b>2014</b> , 126, 9280-9292	16
1579	Palladium-Catalyzed 2H-1,2,3-Triazole-Directed Oxidative Alkoxylation of Arenes with Alcohols. <b>2014</b> , 32, 974-980	17
1578	Pyridine synthesis by [4 + 2] cycloadditions of 1-azadienes: hetero-Diels Alder and transition metal-catalysed approaches. <b>2014</b> , 1, 1010-1015	55

1577	Chemoenzymatic synthesis of $\beta$ -glycosides and xylobiosides from lignocellulosic biomass. <b>2014</b> , 4, 9330	8
1576	Directed functionalization of 1,2-dihydropyridines: stereoselective synthesis of 2,6-disubstituted piperidines. <b>2014</b> , 50, 6883-5	21
1575	Non-Directed Allylic C-H Acetoxylation in the Presence of Lewis Basic Heterocycles. <b>2014</b> , 5, 2352-2361	63
1574	Synthesis of amides through an oxidative amidation of tetrazoles with aldehydes under transition-metal-free conditions. <b>2014</b> , 4, 54539-54546	8
1573	The influence of ionic liquids on the Knoevenagel condensation of 1H-pyrrole-2-carbaldehyde with phenyl acetonitriles $\beta$ -cytotoxic 3-substituted-(1H-pyrrol-2-yl)acrylonitriles. <b>2014</b> , 4, 19806	7
1572	Amidation of esters with amino alcohols using organobase catalysis. <b>2014</b> , 79, 9347-54	24
1571	Zinc-mediated one-pot tandem reaction of nitriles with propargyl bromides: an access to 3-alkynylpyridines. <b>2014</b> , 79, 10611-8	9
1570	Two- and three-dimensional rings in drugs. <b>2014</b> , 83, 450-61	142
1569	Mechanistic insights into L-proline-catalyzed transamidation of carboxamide with benzylamine from density functional theory calculations. <b>2014</b> , 4, 30108-30117	9
1568	Enzyme-controlled nitrogen-atom transfer enables regiodivergent C-H amination. <b>2014</b> , 136, 15505-8	122
1567	An efficient synthesis of amides from alcohols and azides catalyzed by a bifunctional catalyst Au/DNA under mild conditions. <b>2014</b> , 16, 2443	24
1566	Phenazinium salt-catalyzed aerobic oxidative amidation of aromatic aldehydes. <b>2014</b> , 16, 5812-5	80
1565	Practical and highly selective C-H functionalization of structurally diverse ethers. <b>2014</b> , 53, 13845-9	75
1564	Iron-catalyzed C(sp <sup>2</sup> )-H alkylation of carboxamides with primary electrophiles. <b>2014</b> , 53, 11065-9	114
1563	Amine $\beta$ -heteroarylation photoredox catalysis: a homolytic aromatic substitution pathway. <b>2014</b> , 5, 4173-4178	131
1562	9.07 High-Throughput Purification in Support of Pharmaceutical Discovery. <b>2014</b> , 160-180	2
1561	Replacing a stoichiometric silver oxidant with air: ligated Pd(II)-catalysis to $\beta$ -aryl carbonyl derivatives with improved chemoselectivity. <b>2014</b> , 16, 2788-2797	17
1560	Sustainable Approaches Towards the Synthesis of Quinoxalines. <b>2014</b> , 37-67	

1559	Mild Pd-catalyzed aminocarbonylation of (hetero)aryl bromides with a palladacycle precatalyst. <b>2014</b> , 16, 4296-9	109
1558	6.11 N-Acylation Reactions of Amines. <b>2014</b> , 427-478	6
1557	Efficient discovery of bioactive scaffolds by activity-directed synthesis. <b>2014</b> , 6, 872-6	39
1556	The effects of CO <sub>2</sub> pressure and pH on the Suzuki coupling of basic nitrogen containing substrates. <b>2014</b> , 12, 7598-602	7
1555	A novel and efficient amidation of 2-aminothiazole. <b>2014</b> , 55, 6582-6584	3
1554	Domino reactions involving the branched C-N and C-C cleavage of enamines toward pyridines synthesis. <b>2014</b> , 79, 9872-7	41
1553	Iridium-Catalyzed C-H Borylation of Heterocycles Using an Overlooked 1,10-Phenanthroline Ligand: Reinventing the Catalytic Activity by Understanding the Solvent-Assisted Neutral to Cationic Switch. <b>2014</b> , 33, 3514-3522	30
1552	Polymer-supported stereoselective synthesis of tetrahydrobenzopyrazino-thiadiazinone dioxides via N-sulfonyl iminiums. <b>2014</b> , 16, 293-302	15
1551	Iodine(III)-mediated C-H alkoxylation of aniline derivatives with alcohols under metal-free conditions. <b>2014</b> , 79, 8768-73	16
1550	Rapid Construction of (-)-Paroxetine and (-)-Femoxetine via $\alpha$ -Heterocyclic Carbene Catalyzed Homoenolate Addition to Nitroalkenes. <b>2014</b> , 3, 442-444	19
1549	Suzuki-Miyaura cross-coupling reactions of unprotected haloimidazoles. <b>2014</b> , 79, 8871-6	38
1548	Palladium-catalyzed direct C(sp <sup>2</sup> )-H alkoxylation of 2-aryloxy pyridines using 2-pyridyloxyl as the directing group. <b>2014</b> , 79, 8457-61	51
1547	Iron-Catalyzed C(sp <sup>2</sup> )-H Alkylation of Carboxamides with Primary Electrophiles. <b>2014</b> , 126, 11245-11249	32
1546	Palladium-catalyzed N-nitroso-directed C-H alkoxylation of arenes and subsequent formation of 2-alkoxy-N-alkylarylamines. <b>2014</b> , 79, 9888-93	55
1545	Off-rate screening (ORS) by surface plasmon resonance. An efficient method to kinetically sample hit to lead chemical space from unpurified reaction products. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 2845-50	8.3 39
1544	Convergent Synthesis of Diverse Tetrahydropyridines via Rh(I)-Catalyzed C-H Functionalization Sequences. <b>2014</b> , 18, 1097-1104	74
1543	Are 1,4- and 1,5-disubstituted 1,2,3-triazoles good pharmacophoric groups?. <b>2014</b> , 9, 2497-508	104
1542	Copper catalyzed Heck-like cyclizations of oxime esters. <b>2014</b> , 5, 2416-2421	130

1541	Advancing the drug discovery and development process. <b>2014</b> , 53, 9128-40	53
1540	Combining Metabolic Pathway Design and Retrosynthetic Planning for the Design of a Novel Semisynthetic Manufacturing Scheme for Paclitaxel. <b>2014</b> , 18, 816-826	4
1539	Regio- and stereoselective synthesis of ferrocene-containing $\alpha$ -iodoallylic esters and ethers from the iodofunctionalization of ferrocenylallene with carboxylic acids, phenols, and alcohols. <b>2014</b> , 79, 5503-10	5
1538	Balancing novelty with confined chemical space in modern drug discovery. <b>2014</b> , 9, 151-65	37
1537	N-Arylalkylbenzo[d]thiazole-2-carboxamides as anti-mycobacterial agents: design, new methods of synthesis and biological evaluation. <b>2014</b> , 5, 1489-1495	36
1536	Oxidative amidation of aromatic aldehydes with amine hydrochloride salts catalyzed by silica-coated magnetic carbon nanotubes (MagCNTs@SiO <sub>2</sub> )-immobilized imineCu(I). <b>2014</b> , 28, 101-108	33
1535	Molar Efficiency: A Useful Metric To Gauge Relative Reaction Efficiency in Discovery Medicinal Chemistry. <b>2014</b> , 2, 523-532	24
1534	Triarylbi-muthanes as Threefold Aryl-Transfer Reagents in Regioselective Cross-Coupling Reactions with Bromopyridines and Quinolines. <b>2014</b> , 2014, 5214-5228	26
1533	Application of cooperative iron/copper catalysis to a palladium-free borylation of aryl bromides with pinacolborane. <b>2014</b> , 16, 2366-9	45
1532	Cooperative catalysis by palladium-nickel binary nanocluster for Suzuki-Miyaura reaction of ortho-heterocycle-tethered sterically hindered aryl bromides. <b>2014</b> , 16, 2334-7	38
1531	Highly functionalized pyridines synthesis from N-sulfonyl ketimines and alkynes using the N-S bond as an internal oxidant. <b>2014</b> , 16, 1684-7	72
1530	Physicochemical descriptors of aromatic character and their use in drug discovery. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 7206-15	8.3 58
1529	Biosynthetics: Charting the Future Role of Biocatalysis and Metabolic Engineering in Drug Discovery. <b>2014</b> , 53, 18597-18610	3
1528	A general Suzuki cross-coupling reaction of heteroaromatics catalyzed by nanopalladium on amino-functionalized siliceous mesocellular foam. <b>2014</b> , 79, 3946-54	29
1527	Palladium-catalyzed ortho-alkoxylation of 2-aryl-1,2,3-triazoles. <b>2014</b> , 79, 6105-12	85
1526	Rh(III)-catalyzed decarboxylative coupling of acrylic acids with unsaturated oxime esters: carboxylic acids serve as traceless activators. <b>2014</b> , 136, 2735-8	237
1525	Ruthenium-catalyzed cyclization of ketoxime acetates with DMF for synthesis of symmetrical pyridines. <b>2014</b> , 16, 3082-5	123
1524	Selective Kumada biaryl cross-coupling reaction enabled by an iron(III) alkoxide-N-heterocyclic carbene catalyst system. <b>2014</b> , 50, 8424-7	45

1523	Benzoic Acid-Catalyzed Transamidation Reactions of Carboxamides, Phthalimide, Ureas and Thioamide with Amines. <b>2014</b> , 356, 2429-2436	61
1522	Bis-cyclometalated complexes of Pd(II) and Pd(IV) from iminophosphoranes: Synthesis, structure and reactivity. <b>2014</b> , 767, 27-34	6
1521	7. Experimental procedures for conducting organic reactions in continuous flow. <b>2014</b> , 191-250	
1520	Regio- and Stereoselective 1,2-Dihydropyridine Alkylation/Addition Sequence for the Synthesis of Piperidines with Quaternary Centers. <b>2014</b> , 126, 3958-3961	6
1519	One-Pot Synthesis of Tri- and Tetrasubstituted Pyridines by Sequential Ring-Opening/Cyclization/Oxidation of N-Arylmethyl 3-Aziridinylpropiolate Esters. <b>2014</b> , 126, 14778-14782	
1518	Azaphilic versus Carbophilic Coupling at C=N Bonds: Key Steps in Titanium-Assisted Multicomponent Reactions. <b>2015</b> , 21, 18730-8	7
1517	Activity-Directed Synthesis with Intermolecular Reactions: Development of a Fragment into a Range of Androgen Receptor Agonists. <b>2015</b> , 127, 13742-13748	7
1516	Activity-Directed Synthesis with Intermolecular Reactions: Development of a Fragment into a Range of Androgen Receptor Agonists. <b>2015</b> , 54, 13538-44	22
1515	Introduction. <b>2015</b> , 1-9	1
1514	QSAR and Molecular Modeling Approaches for Prediction of Drug Metabolism. <b>2015</b> , 1-28	1
1513	Enantioselective $\alpha$ -Alkylation of Aldehydes by Photoredox Organocatalysis: Rapid Access to Pharmacophore Fragments from $\alpha$ -Cyanoaldehydes. <b>2015</b> , 127, 9804-9808	24
1512	Dialkyl Ether Formation by Nickel-Catalyzed Cross-Coupling of Acetals and Aryl Iodides. <b>2015</b> , 127, 10014-10018	8
1511	Synthesis of Nature-Inspired Medium-Sized Fused Heterocycles from Amino Acids. <b>2015</b> , 21, 13112-9	16
1510	Di-tert-butyl Peroxide (DTBP)-Mediated Oxidative Cross- Coupling of Isochroman and Indole Derivatives. <b>2015</b> , 357, 2105-2110	45
1509	Synthesis of Polysubstituted Imidazoles and Pyridines via Samarium(III) Triflate-Catalyzed [2+2+1] and [4+2] Annulations of Unactivated Aromatic Alkenes with Azides. <b>2015</b> , 357, 3229-3241	17
1508	Dialkyl Ether Formation by Nickel-Catalyzed Cross-Coupling of Acetals and Aryl Iodides. <b>2015</b> , 54, 9876-80	103
1507	Cumyl Hydroperoxide-Promoted Oxidative Amidation of 2-Oxoaldehydes with Amines under Metal-Free Conditions for the Synthesis of Unsymmetrical Oxamides. <b>2015</b> , 4, 890-893	3
1506	Tandem Chemoselective Suzuki-Miyaura Cross-Coupling Enabled by Nucleophile Speciation Control. <b>2015</b> , 54, 9976-9	43

1505	Computational Investigation on the Mechanism of Amide Bond Formation by using Phosphine-Based Redox Catalysis. <b>2015</b> , 7, 2309-2312	4
1504	Efficient Synthesis of Amides and Esters from Alcohols under Aerobic Ambient Conditions Catalyzed by a Au/Mesoporous Al <sub>2</sub> O <sub>3</sub> Nanocatalyst. <b>2015</b> , 8, 1916-25	29
1503	Catalytic Synthesis of N-Unprotected Piperazines, Morpholines, and Thiomorpholines from Aldehydes and SnAP Reagents. <b>2015</b> , 54, 10884-8	53
1502	Selective Monoarylation of Primary Amines Using the Pd-PEPPSI-IPentCl Precatalyst. <b>2015</b> , 127, 9643-9647	23
1501	Tandem Chemoselective Suzuki-Miyaura Cross-Coupling Enabled by Nucleophile Speciation Control. <b>2015</b> , 127, 10114-10117	12
1500	Enantioselective $\alpha$ -Alkylation of Aldehydes by Photoredox Organocatalysis: Rapid Access to Pharmacophore Fragments from $\alpha$ -Cyanoaldehydes. <b>2015</b> , 54, 9668-72	119
1499	Amidation of Carboxylic Acids with Amines by Nb <sub>2</sub> O <sub>5</sub> as a Reusable Lewis Acid Catalyst. <b>2015</b> , 7, 3555-3561	31
1498	A Heterogeneous Niobium(V) Oxide Catalyst for the Direct Amidation of Esters. <b>2015</b> , 7, 2705-2710	29
1497	Catalytic Synthesis of N-Unprotected Piperazines, Morpholines, and Thiomorpholines from Aldehydes and SnAP Reagents. <b>2015</b> , 127, 11034-11038	11
1496	Selective Monoarylation of Primary Amines Using the Pd-PEPPSI-IPent(Cl) Precatalyst. <b>2015</b> , 54, 9507-11	73
1495	Comparison of the catalytic activity for the Suzuki-Miyaura reaction of (( $\eta$ -5)-Cp)Pd(IPr)Cl with (( $\eta$ -3)-cinnamyl)Pd(IPr)(Cl) and (( $\eta$ -3)-1-t-Bu-indenyl)Pd(IPr)(Cl). <b>2015</b> , 11, 2476-86	8
1494	Microwave-Assisted Synthesis of a MK2 Inhibitor by Suzuki-Miyaura Coupling for Study in Werner Syndrome Cells. <b>2015</b> , 8, 257-76	7
1493	A Role for Fragment-Based Drug Design in Developing Novel Lead Compounds for Central Nervous System Targets. <b>2015</b> , 6, 197	19
1492	Copper-mediated synthesis of N-alkenyl- $\beta$ -unsaturated nitrones and their conversion to tri- and tetrasubstituted pyridines. <b>2015</b> , 11, 2097-104	26
1491	. <b>2015</b> ,	5
1490	A multigram-scale lower E-factor procedure for MIBA-catalyzed direct amidation and its application to the coupling of alpha and beta aminoacids. <b>2015</b> , 17, 4016-4028	39
1489	Mechanism and Stereoselectivity of Directed C(sp <sup>3</sup> ) $\beta$ Activation and Arylation Catalyzed by Pd(II) with Pyridine Ligand and Trifluoroacetate: A Computational Study. <b>2015</b> , 5, 3648-3661	25
1488	Organic chemistry. Practical olefin hydroamination with nitroarenes. <b>2015</b> , 348, 886-91	299

1487	Organic chemistry. Streamlining amine synthesis. <b>2015</b> , 348, 863-4	21
1486	Copper-Mediated Aryloxylation and Vinyloxylation of $\text{C}(\text{sp}^3)\text{-H}$ Bond of Propionamides with Organosilanes. <b>2015</b> , 17, 2768-71	33
1485	Synthesis of Polysubstituted Pyridines via a One-Pot Metal-Free Strategy. <b>2015</b> , 17, 5974-7	56
1484	Anionic phenoxy-amido rare-earth complexes as efficient catalysts for amidation of aldehydes with amines. <b>2015</b> , 5, 94768-94775	19
1483	1,3-Dipolar cycloaddition of 3-alkylsulfanyl-2-arylo-3-(tert-cycloalkylamino)acrylonitriles with N-methyl- and N-phenylmaleimides. <b>2015</b> , 71, 1438-1447	6
1482	Pd-catalysed ortho-alkoxylation of benzamides N-protected with an iminophosphorane functionality. <b>2015</b> , 39, 3077-3083	10
1481	Copper catalysed amidation of aryl halides through chelation assistance. <b>2015</b> , 51, 4834-7	14
1480	Mechanistic Considerations in the Synthesis of 2-Aryl-Indole Analogues under Bischler-Mohlau Conditions. <b>2015</b> , 56, 3624-3629	2
1479	Aqueous biphasic treatment of some nitrocompounds with hydrogen in the presence of a biogenerated Pd-polysaccharide. <b>2015</b> , 32, 313-7	5
1478	Single-electron transmetalation: an enabling technology for secondary alkylboron cross-coupling. <b>2015</b> , 137, 2195-8	251
1477	Synthesis of functionalized 1,2-dihydropyridines bearing quaternary carbon centers via an organocatalytic allylic alkylation. <b>2015</b> , 56, 937-940	6
1476	Development of a novel fingerprint for chemical reactions and its application to large-scale reaction classification and similarity. <b>2015</b> , 55, 39-53	69
1475	Lipase-catalyzed green synthesis of enantiopure atenolol. <b>2015</b> , 5, 15850-15860	32
1474	Imidazolium salt-supported Mukaiyama reagent: an efficient condensation reagent for amide bond formation. <b>2015</b> , 5, 13797-13804	13
1473	Generation and Trapping of Ketenes in Flow. <b>2015</b> , 2015, 1491-1499	21
1472	A simple iridacycle catalyst for efficient transfer hydrogenation of N-heterocycles in water. <b>2015</b> , 21, 5370-9	59
1471	Reductive Cyclization and Petasis-Like Reaction for the Synthesis of Functionalized $\beta$ -Lactams. <b>2015</b> , 2015, 2346-2350	10
1470	Synthesis of Condensed Heterocycles by the Gould-Jacobs Reaction in a Novel Three-Mode Pyrolysis Reactor. <b>2015</b> , 19, 399-409	17

1469	DNA Compatible Multistep Synthesis and Applications to DNA Encoded Libraries. <b>2015</b> , 26, 1623-32	134
1468	Domino Hydrogenation-Reductive Amination of Phenols, a Simple Process To Access Substituted Cyclohexylamines. <b>2015</b> , 17, 3990-3	41
1467	Copper(I)-catalyzed amidation reaction of organoboronic esters and isocyanates. <b>2015</b> , 17, 5140-5143	13
1466	Copper-catalyzed C-N bond cross-coupling of aryl halides and amines in water in the presence of ligand derived from oxalyl dihydrazide: scope and limitation. <b>2015</b> , 71, 7931-7937	12
1465	Nickel-Catalyzed Asymmetric Reductive Cross-Coupling between Heteroaryl Iodides and $\beta$ -Chloronitriles. <b>2015</b> , 137, 10480-3	154
1464	Compound Properties and their Influence on Drug Quality. <b>2015</b> , 379-393	5
1463	An extremely highly recoverable clay-supported Pd nanoparticle catalyst for solvent-free Heck-Mizoroki reactions. <b>2015</b> , 5, 59983-59990	24
1462	Expedient Access to 2,3-Dihydropyridines from Unsaturated Oximes by Rh(III)-Catalyzed C-H Activation. <b>2015</b> , 137, 8892-5	89
1461	Ruthenium-Catalyzed Formal Dehydrative [4 + 2] Cycloaddition of Enamides and Alkynes for the Synthesis of Highly Substituted Pyridines: Reaction Development and Mechanistic Study. <b>2015</b> , 137, 9489-96	140
1460	Microwave-promoted direct amidation of unactivated esters catalyzed by heteropolyanion-based ionic liquids under solvent-free conditions. <b>2015</b> , 56, 4527-4531	19
1459	Regio- and Diastereoselective Synthesis of Highly Substituted, Oxygenated Piperidines from Tetrahydropyridines. <b>2015</b> , 80, 6660-8	15
1458	Synthesis of N-Sulfonylamidated and Amidated Azobenzenes under Rhodium Catalysis. <b>2015</b> , 80, 8026-35	29
1457	Synthesis of Enantiopure 3-Hydroxypiperidines from Sulfinyl Dienyl Amines by Diastereoselective Intramolecular Cyclization and [2,3]-Sigmatropic Rearrangement. <b>2015</b> , 80, 7674-92	11
1456	Pharmaceuticals that contain polycyclic hydrocarbon scaffolds. <b>2015</b> , 44, 7737-63	127
1455	MOARF, an Integrated Workflow for Multiobjective Optimization: Implementation, Synthesis, and Biological Evaluation. <b>2015</b> , 55, 1169-80	24
1454	Palladium-Catalyzed Arylation of Fluoroalkylamines. <b>2015</b> , 137, 8460-8	88
1453	Hydroamination of terminal alkynes with secondary amines catalyzed by copper: regioselective access to amines. <b>2015</b> , 51, 11210-2	25
1452	Highly chemo- and regioselective allylic substitution with tautomerizable heteroarenes. <b>2015</b> , 17, 4300-4306	23

1451	Design, synthesis, and protein crystallography of biaryltriazoles as potent tautomerase inhibitors of macrophage migration inhibitory factor. <b>2015</b> , 137, 2996-3003	51
1450	Copper-catalysed cross-coupling: an untapped potential. <b>2015</b> , 13, 4816-27	123
1449	The Stille Reaction, 38 Years Later. <b>2015</b> , 5, 3040-3053	245
1448	Palladium-catalyzed oxygenation of C(sp <sup>2</sup> ) <sub>H</sub> and C(sp <sup>3</sup> ) <sub>H</sub> bonds under the assistance of oxalyl amide. <b>2015</b> , 5, 28430-28434	24
1447	Rhodium catalyzed one-step hydroamidation of cyclopentadiene and dicyclopentadiene. <b>2015</b> , 5, 2783-2787	13
1446	Facile synthesis and biological evaluation of assorted indolyl-3-amides and esters from a single, stable carbonyl nitrile intermediate. <b>2015</b> , 56, 1860-1864	8
1445	Convenient synthesis of 2,3-disubstituted quinazolin-4(3H)-ones and 2-styryl-3-substituted quinazolin-4(3H)-ones: applications towards the synthesis of drugs. <b>2015</b> , 5, 30819-30825	54
1444	Design of a Versatile and Improved Precatalyst Scaffold for Palladium-Catalyzed Cross-Coupling: (B-1-tBu-indenyl) <sub>2</sub> (ECI) <sub>2</sub> Pd <sub>2</sub> . <b>2015</b> , 5, 3680-3688	101
1443	Refining the chemical toolbox to be fit for educational and practical purpose for drug discovery in the 21st Century. <b>2015</b> , 20, 1018-26	21
1442	Catalytic amidation of unactivated ester derivatives mediated by trifluoroethanol. <b>2015</b> , 51, 9495-8	41
1441	FeCl <sub>3</sub> -catalyzed selective acylation of amines with 1,3-diketones via C=O bond cleavage. <b>2015</b> , 56, 3093-3096	28
1440	Direct amidation of carboxylic acids with amines under microwave irradiation using silica gel as a solid support. <b>2015</b> , 17, 3157-3163	52
1439	Copper-Catalyzed Oxidative C-H Amination of Tetrahydrofuran with Indole/Carbazole Derivatives. <b>2015</b> , 80, 11193-9	48
1438	Photoinduced Cycloadditions in the Diversity-Oriented Synthesis Toolbox: Increasing Complexity with Straightforward Postphotochemical Modifications. <b>2015</b> , 68, 1672-1681	12
1437	A two-step continuous flow synthesis of amides from alcohol using a metal-free catalyst. <b>2015</b> , 5, 95014-95019	9
1436	Hydrogen peroxide-promoted metal free oxidative amidation of 2-oxoaldehydes: a facile access to unsymmetrical oxamides. <b>2015</b> , 71, 6928-6934	8
1435	Rhodium-catalysed asymmetric allylic arylation of racemic halides with arylboronic acids. <b>2015</b> , 7, 935-9	61
1434	Palladium-Catalyzed Desulfitative Oxidative Coupling between Arenesulfinic Acid Salts and Allylic Alcohols: A Strategy for the Selective Construction of $\alpha$ -Aryl Ketones and Aldehydes. <b>2015</b> , 80, 8903-9	26

1433	Cu-Catalyzed Three-Component Cascade Annulation Reaction: An Entry to Functionalized Pyridines. <b>2015</b> , 80, 8763-71	82
1432	Pd(OAc) <sub>2</sub> -catalysed regioselective alkoxylation of aryl (1-carbolin-1-yl)methanones via 1-carbolin directed ortho-C(sp <sup>2</sup> )-H activation of an aryl ring. <b>2015</b> , 13, 10376-85	21
1431	Multimetallic catalysed cross-coupling of aryl bromides with aryl triflates. <b>2015</b> , 524, 454-7	172
1430	SCUBIDOO: A Large yet Screenable and Easily Searchable Database of Computationally Created Chemical Compounds Optimized toward High Likelihood of Synthetic Tractability. <b>2015</b> , 55, 1824-35	55
1429	Nucleophilic Aromatic Substitution (S <sub>N</sub> Ar) as an Approach to Challenging Carbohydrate-Aryl Ethers. <b>2015</b> , 17, 4846-9	42
1428	Ligand-Promoted Pd-Catalyzed Oxime Ether Directed C-H Hydroxylation of Arenes. <b>2015</b> , 5, 6148-6152	82
1427	Polyethylene Glycol as a Recyclable Reaction Medium for Gold-Catalysed Direct Oxidative Amide Synthesis from Aldehydes and Amines. <b>2015</b> , 39, 654-656	6
1426	Direct Amidation of N-Boc- and N-Cbz-Protected Amines via Rhodium-Catalyzed Coupling of Arylboroxines and Carbamates. <b>2015</b> , 17, 6054-7	10
1425	In(OTf) <sub>3</sub> -catalyzed synthesis of 2-styryl quinolines: scope and limitations of metal Lewis acids for tandem Friedländer annulation-Knoevenagel condensation. <b>2015</b> , 5, 2920-2927	28
1424	Peptide synthesis beyond DMF: THF and ACN as excellent and friendlier alternatives. <b>2015</b> , 13, 2393-8	49
1423	Oxidative activation of dihydropyridine amides to reactive acyl donors. <b>2015</b> , 13, 185-98	8
1422	Organic chemistry. Nanomole-scale high-throughput chemistry for the synthesis of complex molecules. <b>2015</b> , 347, 49-53	332
1421	Cross-coupling study of iodo/chloropyridines and 2-chloroquinoline with atom-economic triarylbi-muth reagents under Pd-catalysis. <b>2015</b> , 71, 338-349	12
1420	Palladium catalyzed Csp <sup>2</sup> -H activation for direct aryl hydroxylation: the unprecedented role of 1,4-dioxane as a source of hydroxyl radicals. <b>2015</b> , 51, 191-4	84
1419	Synthesis of isomeric (3,3,3-trifluoropropyl)anilines. <b>2015</b> , 171, 174-176	1
1418	Designing novel building blocks is an overlooked strategy to improve compound quality. <b>2015</b> , 20, 11-7	141
1417	Brønsted Acid-Catalyzed Direct Substitution of 2-Ethoxytetrahydrofuran with Trifluoroborate Salts. <b>2016</b> , 6, 94	4
1416	Organocatalysis: Fundamentals and Comparisons to Metal and Enzyme Catalysis. <b>2016</b> , 6, 128	19

1415	Recent Advances in Recoverable Systems for the Copper-Catalyzed Azide-Alkyne Cycloaddition Reaction (CuAAC). <b>2016</b> , 21,	64
1414	Scope and limitations of a DMF bio-alternative within Sonogashira cross-coupling and Cacchi-type annulation. <b>2016</b> , 12, 2005-2011	55
1413	Flow Chemistry on Multigram Scale: Continuous Synthesis of Boronic Acids within 1 s. <b>2016</b> , 18, 3630-3	33
1412	Photocatalytic Aminodecarboxylation of Carboxylic Acids. <b>2016</b> , 2016, 3331-3334	29
1411	One for Many: A Universal Reagent for Acylation Processes. <b>2016</b> , 358, 1725-1730	17
1410	Nickel-Catalyzed Allylic Alkylation with Diarylmethane Pronucleophiles: Reaction Development and Mechanistic Insights. <b>2016</b> , 128, 1082-1086	19
1409	Nucleophilic Reactivity of a Nitride-Bridged Diuranium(IV) Complex: CO <sub>2</sub> and CS <sub>2</sub> Functionalization. <b>2016</b> , 55, 4074-8	41
1408	Stereoselective Ag-Catalyzed 1,3-Dipolar Cycloaddition of Activated Trifluoromethyl-Substituted Azomethine Ylides. <b>2016</b> , 22, 4952-9	44
1407	Chemoenzymatic Route for the Synthesis of (S)-Moprolol, a Potential $\beta$ -Blocker. <b>2016</b> , 28, 313-8	5
1406	An Improved System for the Aqueous Lipshutz-Negishi Cross-Coupling of Alkyl Halides with Aryl Electrophiles. <b>2016</b> , 55, 1849-53	63
1405	Synthesis of 2,4,6-Trisubstituted Pyridines by Oxidative Eosin Y Photoredox Catalysis. <b>2016</b> , 81, 7121-6	59
1404	Toward Customized Tetrahydropyran Derivatives through Regioselective $\beta$ -lithiation and Functionalization of 2-Phenyltetrahydropyran. <b>2016</b> , 2016, 3157-3161	9
1403	Nickel-Catalyzed Allylic Alkylation with Diarylmethane Pronucleophiles: Reaction Development and Mechanistic Insights. <b>2016</b> , 55, 1070-4	52
1402	Dienamine Activation of Diazoenals: Application to the Direct Synthesis of Functionalized 1,4-Oxazines. <b>2016</b> , 55, 7831-5	28
1401	Insights into the Cascade Reaction of CO and Heteroallenes Mediated by Dinitrogen Hafnocene Complexes: The Indirect Effect of Nitride's Nucleophilicity. <b>2016</b> , 22, 4743-7	1
1400	Stable and Reusable Binaphthyl-Supported Palladium Catalyst for Aminocarbonylation of Aryl Iodides. <b>2016</b> , 358, 314-320	27
1399	Insight into Transmetalation Enables Cobalt-Catalyzed Suzuki-Miyaura Cross Coupling. <b>2016</b> , 2, 935-942	56
1398	Multistep Reaction Based De Novo Drug Design: Generating Synthetically Feasible Design Ideas. <b>2016</b> , 56, 605-20	11

1397	Big Data from Pharmaceutical Patents: A Computational Analysis of Medicinal Chemists' Bread and Butter. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 4385-402	8.3	202
1396	Cobalt-Catalyzed Borylation of Aryl Halides and Pseudohalides. <b>2016</b> , 35, 1559-1564		31
1395	High-Temperature Boc Deprotection in Flow and Its Application in Multistep Reaction Sequences. <b>2016</b> , 18, 1732-5		33
1394	From Aryl Iodides to 1,3-Dipoles: Design and Mechanism of a Palladium Catalyzed Multicomponent Synthesis of Pyrroles. <b>2016</b> , 138, 7315-24		55
1393	Opportunity Knocks: Organic Chemistry for Fragment-Based Drug Discovery (FBDD). <b>2016</b> , 55, 488-92		122
1392	Ligand-Free Copper-Manganese Spinel Oxide-Catalyzed Tandem One-Pot C <sub>sp</sub> Amidation and N-Arylation of Benzylamines: A Facile Access to 2-Arylquinazolin-4(3H)-ones. <b>2016</b> , 358, 3027-3033		21
1391	Synthesis of 4-(trifluoromethyl)pyrrolidines Containing Sulfonyl, Iminosulfonyl, Sulfamide, or Phosphonyl Substituent. <b>2016</b> , 52, 503-506		8
1390	Unusual Amino Acids in Medicinal Chemistry. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 10807-10836	8.3	239
1389	Hydrogen Bonding of 1,2-Azaborines in the Binding Cavity of T4 Lysozyme Mutants: Structures and Thermodynamics. <b>2016</b> , 138, 12021-4		49
1388	Titanium-Promoted Cross-Coupling for the Selective Synthesis of Polysubstituted, Conjugated Amides. <b>2016</b> , 18, 5090-5093		4
1387	Applications of Palladium-Catalyzed C-N Cross-Coupling Reactions. <b>2016</b> , 116, 12564-12649		1375
1386	Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Amides via Site-Selective N <sub>sp</sub> Bond Cleavage by Cooperative Catalysis. <b>2016</b> , 6, 7335-7339		122
1385	One-pot synthesis of 2,4,6-triarylpyridines from $\alpha$ -nitrostyrenes, substituted salicylic aldehydes and ammonium acetate. <b>2016</b> , 6, 95957-95964		17
1384	A catalyst- and solvent-free thermal multicomponent approach for the construction of diverse and polysubstituted 2-aminopyridines and their antibacterial activity. <b>2016</b> , 14, 10285-10297		7
1383	Nonclassical Routes for Amide Bond Formation. <b>2016</b> , 116, 12029-12122		458
1382	Complementary asymmetric routes to fused tricyclic (R)-2,3,4,4a,5,6-hexahydro-1H-pyrazino[1,2-a]quinolines and (R)-1,2,3,4,5,5a,6,7-octahydro-[1,4]diazepino[1,2-a]quinolines. <b>2016</b> , 57, 4730-4733		5
1381	New ligands for nickel catalysis from diverse pharmaceutical heterocycle libraries. <b>2016</b> , 8, 1126-1130		110
1380	A facile hybrid 'flow and batch' access to substituted 3,4-dihydro-2H-benzo[b][1,4]oxazinones. <b>2016</b> , 14, 8732-8742		3

- 1379 DMAP-promoted in situ activation of bromoacetic acid as a 2-carbon synthon for facile synthesis of pyridines and fused pyridin-2-ones. **2016**, 72, 6510-6517 10
- 1378 Palladium-Catalyzed Cross Coupling of Secondary and Tertiary Alkyl Bromides with a Nitrogen Nucleophile. **2016**, 2, 647-652 75
- 1377 Biaryl Phosphine Based Pd(II) Amido Complexes: The Effect of Ligand Structure on Reductive Elimination. **2016**, 138, 12486-93 68
- 1376 Ruthenium(0)-Catalyzed C-H Arylation of Aromatic Imines under Neutral Conditions: Access to Biaryl Aldehydes. **2016**, 18, 4186-9 43
- 1375 Iron-Catalyzed Oxyfunctionalization of Aliphatic Amines at Remote Benzylic C-H Sites. **2016**, 18, 4258-61 43
- 1374 Copper-mediated etherification of arenes with alkoxy silanes directed by an (2-aminophenyl)pyrazole group. **2016**, 6, 79361-79365 18
- 1373 Continuous SuzukiMiyaura reactions with novel CeSnPd oxides and integrated crystallization as continuous downstream protocol. **2016**, 6, 244-251 12
- 1372 tert-Butoxide mediated cascade desulfonylation/arylation/hydrolysis of cyclic sulfonylimines using diaryliodonium salts: synthesis of diaryl ether derivatives bearing a 2-aldehyde group. **2016**, 6, 89234-89237 6
- 1371 Copper-catalyzed one-pot oxidative amidation of alcohol to amide via C-H activation. **2016**, 6, 89413-89416 14
- 1370 Fused Ring Molecular Scaffold with 3D Architecture for Constrained Peptidomimetics: Polymer-Supported Stereoselective Synthesis of Tetrahydrobenzo[e]pyrazino[2,1-c][1,2,4]thiadiazinone 6,6-dioxide via N-Acyl Iminiums. **2016**, 18, 655-659 8
- 1369 Nazarov Cyclization/Internal Redox Cyclization Sequence for the Synthesis of N-Heterocyclic Bridged Ring Systems. **2016**, 18, 4896-4899 17
- 1368 Direct oxidative amination of aromatic aldehydes with amines in a continuous flow system using a metal-free catalyst. **2016**, 6, 72121-72126 5
- 1367 Selective Synthesis of Six Products from a Single Indolyl  $\beta$ -Diazocarbonyl Precursor. **2016**, 55, 9671-5 46
- 1366 Computer-aided discovery of anti-HIV agents. **2016**, 24, 4768-4778 48
- 1365 Transition-Metal-Free Regioselective Alkylation of Pyridine N-Oxides Using 1,1-Diborylalkanes as Alkylating Reagents. **2016**, 55, 9690-4 141
- 1364 Selective Synthesis of Six Products from a Single Indolyl  $\beta$ -Diazocarbonyl Precursor. **2016**, 128, 9823-9827 11
- 1363 Isocyanates and isothiocyanates as versatile platforms for accessing (thio)amide-type compounds. **2016**, 14, 7848-54 39
- 1362 The ways and means of fragment-based drug design. **2016**, 167, 28-37 45

1361	Synthesis and cytotoxic activity of novel A-ring cleaved ursolic acid derivatives in human non-small cell lung cancer cells. <b>2016</b> , 123, 317-331	27
1360	One-Pot Synthesis of Hantzsch Pyridines via NH <sub>4</sub> I Promoted Condensation of 1,3-Dicarbonyl Compounds with DMSO and NH <sub>4</sub> OAc. <b>2016</b> , 34, 887-894	7
1359	Transition-Metal-Free Regioselective Alkylation of Pyridine N-Oxides Using 1,1-Diborylalkanes as Alkylating Reagents. <b>2016</b> , 128, 9842-9846	57
1358	Quality guidelines for oral drug candidates: dose, solubility and lipophilicity. <b>2016</b> , 21, 1719-1727	55
1357	Alkenyl Arenes as Dipolarophiles in Catalytic Asymmetric 1,3-Dipolar Cycloaddition Reactions of Azomethine Ylides. <b>2016</b> , 128, 15560-15564	17
1356	A general catalytic C-H carbonylation of aliphatic amines to lactams. <b>2016</b> , 354, 851-857	155
1355	Improving photosynthesis and crop productivity by accelerating recovery from photoprotection. <b>2016</b> , 354, 857-861	628
1354	Alkenyl Arenes as Dipolarophiles in Catalytic Asymmetric 1,3-Dipolar Cycloaddition Reactions of Azomethine Ylides. <b>2016</b> , 55, 15334-15338	62
1353	Microwave-assisted heteropolyanion-based ionic liquid promoted sustainable protocol to N-heteroaryl amides via N-directing dual catalyzed oxidative amidation of aldehydes. <b>2016</b> , 6, 107699-107707	11
1352	Pd-Catalyzed Site-Selective p-Hydroxyphenyloxylation of Benzylic C(sp)-H Bonds with 1,4-Benzoquinone. <b>2016</b> , 18, 6002-6005	16
1351	Challenging nickel-catalysed amine arylations enabled by tailored ancillary ligand design. <b>2016</b> , 7, 11073	102
1350	Practical carbon-carbon bond formation from olefins through nickel-catalyzed reductive olefin hydrocarbonation. <b>2016</b> , 7, 11129	149
1349	Metal-free annulation/aerobic oxidative dehydrogenation of cyclohexanones with o-acylanilines: efficient syntheses of acridines. <b>2016</b> , 18, 6241-6245	23
1348	d-Glucose: An Efficient Reducing Agent for a Copper(II)-Mediated Arylation of Primary Amines in Water. <b>2016</b> , 9, 3244-3249	23
1347	A Solvent-Free Base Liberation of a Tertiary Aminoalkyl Halide by Flow Chemistry. <b>2016</b> , 20, 2043-2049	1
1346	Macrolactam analogues of macrolide natural products. <b>2016</b> , 14, 11301-11316	7
1345	Synthesis of Polyfunctional Pyridines via Copper-Catalyzed Oxidative Coupling Reactions. <b>2016</b> , 81, 11671-11678	38
1344	Design, development of new synthetic methodology, and biological evaluation of substituted quinolines as new anti-tubercular leads. <b>2016</b> , 26, 5960-5966	31

1343	Nickel-Catalyzed Diaryl Ketone Synthesis by N-C Cleavage: Direct Negishi Cross-Coupling of Primary Amides by Site-Selective N,N-Di-Boc Activation. <b>2016</b> , 18, 5872-5875	88
1342	Amine synthesis via iron-catalysed reductive coupling of nitroarenes with alkyl halides. <b>2016</b> , 7, 12494	88
1341	A highly efficient metal-free approach to meta- and multiple-substituted phenols via a simple oxidation of cyclohexenones. <b>2016</b> , 18, 6462-6467	44
1340	Pd-Catalyzed Suzuki-Miyaura and Hiyama-Denmark Couplings of Aryl Sulfamates. <b>2016</b> , 18, 5784-5787	21
1339	DFT analysis of the electronic structure of Fe(IV) species active in nitrene transfer catalysis: influence of the coordination sphere. <b>2016</b> , 22, 278	9
1338	Dienamine Activation of Diazoenals: Application to the Direct Synthesis of Functionalized 1,4-Oxazines. <b>2016</b> , 128, 7962-7966	9
1337	Metal-Free C(sp <sup>3</sup> )-O Bond Formation through Radical Translocation: A Mild, Efficient, and Practical Approach to $\alpha$ -Alkoxybenzamides. <b>2016</b> , 5, 192-195	5
1336	Nucleophilic Reactivity of a Nitride-Bridged Diuranium(IV) Complex: CO <sub>2</sub> and CS <sub>2</sub> Functionalization. <b>2016</b> , 128, 4142-4146	5
1335	1,2-Thiazines: One-Pot Syntheses Utilizing Mono and Diaza Analogs of Sulfones. <b>2016</b> , 22, 6783-6	24
1334	(11)C[double bond, length as m-dash]O bonds made easily for positron emission tomography radiopharmaceuticals. <b>2016</b> , 45, 4708-26	81
1333	The Proximal Lilly Collection: Mapping, Exploring and Exploiting Feasible Chemical Space. <b>2016</b> , 56, 1253-66	45
1332	Modern advances in heterocyclic chemistry in drug discovery. <b>2016</b> , 14, 6611-37	349
1331	Computation Sheds Insight into Iron Porphyrin Carbenes' Electronic Structure, Formation, and N-H Insertion Reactivity. <b>2016</b> , 138, 9597-610	76
1330	BODIPY catalyzed amide synthesis promoted by BHT and air under visible light. <b>2016</b> , 14, 7028-37	45
1329	A decade update on solvent and catalyst-free neat organic reactions: a step forward towards sustainability. <b>2016</b> , 18, 4475-4525	141
1328	Isocyanide and Meldrum's acid-based multicomponent reactions in diversity-oriented synthesis: from a serendipitous discovery towards valuable synthetic approaches. <b>2016</b> , 6, 58142-58159	33
1327	An efficient etherification of Ginkgol biloba extracts with fewer side effects in a micro-flow system. <b>2016</b> , 27, 1644-1648	1
1326	Enantioselective synthesis of 1,2,5,6-tetrahydropyridines (THPs) via proline-catalyzed direct Mannich-cyclization/domino oxidation-reduction sequence: application for medically important N-heterocycles. <b>2016</b> , 6, 60422-60432	11

1325	X-ray diffraction data of 4-phenyl-6-(trifluoromethyl)-3,4-dihydroquinolin-2(1H)-one and its synthetic precursor N-[4-(trifluoromethyl)phenyl]cinnamamide. <b>2016</b> , 31, 233-239		
1324	AlBN-promoted amidation of anilines with 1, 3-diketones via oxidative cleavage of C=C bond under aerobic conditions. <b>2016</b> , 72, 4889-4894		16
1323	An Improved System for the Aqueous Lipshutz-Negishi Cross-Coupling of Alkyl Halides with Aryl Electrophiles. <b>2016</b> , 128, 1881-1885		17
1322	The Intersection of Structural and Chemical Biology - An Essential Synergy. <b>2016</b> , 23, 173-182		14
1321	Metal-Free Assembly of Polysubstituted Pyridines from Oximes and Acroleins. <b>2016</b> , 81, 1499-505		68
1320	HOTf-catalyzed sustainable one-pot synthesis of benzene and pyridine derivatives under solvent-free conditions. <b>2016</b> , 18, 2313-2316		47
1319	Directing group assisted -hydroxylation by C-H activation. <b>2016</b> , 7, 3147-3153		107
1318	Characterization of Iron-Imido Species Relevant for N-Group Transfer Chemistry. <b>2016</b> , 138, 1983-93		126
1317	Analysis of Past and Present Synthetic Methodologies on Medicinal Chemistry: Where Have All the New Reactions Gone?. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 4443-58	8.3	726
1316	Evolution of C-H Bond Functionalization from Methane to Methodology. <b>2016</b> , 138, 2-24		510
1315	Large-Scale Applications of Amide Coupling Reagents for the Synthesis of Pharmaceuticals. <b>2016</b> , 20, 140-177		368
1314	Novel triazole hybrids of myrrhanone C, a natural polypodane triterpene: Synthesis, cytotoxic activity and cell based studies. <b>2016</b> , 114, 293-307		27
1313	Organische Chemie f#252;die fragmentbasierte Wirkstoffentwicklung (FBDD). <b>2016</b> , 128, 498-503		31
1312	Towards a general ruthenium-catalyzed hydrogenation of secondary and tertiary amides to amines. <b>2016</b> , 7, 3432-3442		87
1311	Palladium-catalyzed Suzuki-Miyaura coupling of amides by carbon-nitrogen cleavage: general strategy for amide N-C bond activation. <b>2016</b> , 14, 5690-707		117
1310	Molecular inflation, attrition and the rule of five. <b>2016</b> , 101, 22-33		116
1309	Improving Drug Design: An Update on Recent Applications of Efficiency Metrics, Strategies for Replacing Problematic Elements, and Compounds in Nontraditional Drug Space. <b>2016</b> , 29, 564-616		112
1308	[bmlm]OH-catalyzed amidation of azides and aldehydes: an efficient route to amides. <b>2016</b> , 18, 2604-2608		10

- 1307 Visible-light photocatalytic  $\alpha$ -amino C(sp<sup>3</sup>) $\beta$  activation through radical translocation: a novel and metal-free approach to  $\alpha$ -alkoxybenzamides. **2016**, 57, 1600-1604 19
- 1306 Stuck in a rut with old chemistry. **2016**, 21, 701-3 8
- 1305 Ethylene glycol, an efficient and recoverable medium for copper-catalyzed N-arylation of diazoles under microwave irradiation. **2016**, 46, 249-256 5
- 1304 A poised fragment library enables rapid synthetic expansion yielding the first reported inhibitors of Phip(2), an atypical bromodomain. **2016**, 7, 2322-2330 71
- 1303 CuCl/TBHP catalyzed synthesis of amides from aldehydes and amines in water. **2016**, 57, 633-636 8
- 1302 Metal-Free CH-CH-Type Cross-Coupling of Arenes and Alkynes Directed by a Multifunctional Sulfoxide Group. **2016**, 138, 790-3 89
- 1301 Direct oxidative amidation of aldehydes with amines catalyzed by heteropolyanion-based ionic liquids under solvent-free conditions via a dual-catalysis process. **2016**, 14, 1784-93 20
- 1300 Spotting and designing promiscuous ligands for drug discovery. **2016**, 52, 1135-8 27
- 1299 Dichotomous mechanistic behavior in Narasaka-Heck cyclizations: electron rich Pd-catalysts generate iminyl radicals. **2016**, 7, 1508-1513 57
- 1298 A protocol for amide bond formation with electron deficient amines and sterically hindered substrates. **2016**, 14, 430-433 51
- 1297 Sulfoxide-directed metal-free cross-couplings in the expedient synthesis of benzothiophene-based components of materials. **2016**, 7, 1281-1285 63
- 1296 The synthesis of sterically hindered amines by a direct reductive amination of ketones. **2016**, 52, 1397-400 20
- 1295 Reductive amination of furfural to furfurylamine using aqueous ammonia solution and molecular hydrogen: an environmentally friendly approach. **2016**, 18, 487-496 142
- 1294 C60-catalyzed direct C $\beta$  arylation of benzene with aryl iodides in air. **2016**, 72, 2719-2724 5
- 1293 Stereospecific Intramolecular Arylation of 2- and 3-Pyridyl Substituted Alkylamines via Configurationally Stable  $\beta$ -Pyridyl Organolithiums. **2017**, 19, 472-475 12
- 1292 Improved and General Manganese-Catalyzed N-Methylation of Aromatic Amines Using Methanol. **2017**, 23, 5410-5413 147
- 1291 Iron-Catalyzed Isopropylation of Electron-Deficient Aryl and Heteroaryl Chlorides. **2017**, 359, 1007-1017 11
- 1290 Chemoselective Acylation of Primary Amines and Amides with Potassium Acyltrifluoroborates under Acidic Conditions. **2017**, 139, 1826-1829 66

1289	Synthesis of tetrasubstituted symmetrical pyridines by iron-catalyzed cyclization of ketoxime acetates. <b>2017</b> , 4, 597-602		31
1288	Palladium-Catalyzed Enantioselective C-H Activation of Aliphatic Amines Using Chiral Anionic BINOL-Phosphoric Acid Ligands. <b>2017</b> , 139, 1412-1415		117
1287	Unique physicochemical and catalytic properties dictated by the BNO ring system. <b>2017</b> , 9, 571-577		110
1286	Benzyltriboronates: Building Blocks for Diastereoselective Carbon-Carbon Bond Formation. <b>2017</b> , 139, 2589-2592		76
1285	C=C Bond Activation by Nickel/Palladium Hetero-Bimetallic Nanoparticles for Suzuki-Miyaura Reaction of Bioactive Heterocycle-Tethered Sterically Hindered Aryl Carbonates. <b>2017</b> , 7, 2452-2457		21
1284	A Merged Aldol Condensation, Alkene Isomerization, Cycloaddition/Cycloreversion Sequence Employing Oxazinone Intermediates for the Synthesis of Substituted Pyridines. <b>2017</b> , 28, 1170-1172		3
1283	Acid-catalyzed tandem reaction for the synthesis of pyridine derivatives via C=C/C(sp <sup>3</sup> )-N bond cleavage of enones and primary amines. <b>2017</b> , 7, 13123-13129		15
1282	Theoretical prediction on the synthesis of 2,3-dihydropyridines through Co(III)-catalysed reaction of unsaturated oximes with alkenes. <b>2017</b> , 117, e25353		1
1281	Illuminating amination. <b>2017</b> , 355, 690-691		1
1280	Microscale High-Throughput Experimentation as an Enabling Technology in Drug Discovery: Application in the Discovery of (Piperidinyl)pyridinyl-1H-benzimidazole Diacylglycerol Acyltransferase 1 Inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 3594-3605	8,3	48
1279	Theoretical prediction of the synthesis of 2,3-dihydropyridines through Ir(III)-catalysed reaction of unsaturated oximes with alkenes. <b>2017</b> , 7, 5649-5659		
1278	Copper Catalyzed C-N Cross-Coupling Reaction of Aryl Boronic Acids at Room Temperature through Chelation Assistance. <b>2017</b> , 82, 2764-2771		30
1277	A Method for Identifying and Developing Functional Group Tolerant Catalytic Reactions: Application to the Buchwald-Hartwig Amination. <b>2017</b> , 82, 3741-3750		23
1276	Medicinal Chemistry Profiling of Monocyclic 1,2-Azaborines. <b>2017</b> , 12, 358-361		62
1275	Organocatalysis in Inert C-H Bond Functionalization. <b>2017</b> , 117, 9433-9520		403
1274	Lewis acidity quantification and catalytic activity of Ti, Zr and Al-supported mesoporous silica. <b>2017</b> , 46, 3864-3876		27
1273	One-pot facile synthesis of polysubstituted pyridines via tandem reaction of the Blaise reaction intermediates and 3-formylchromones. <b>2017</b> , 58, 1258-1261		5
1272	Copper-Mediated Late-Stage Functionalization of Heterocycle-Containing Molecules. <b>2017</b> , 129, 5401-5405		11

1271	Copper-Mediated Late-Stage Functionalization of Heterocycle-Containing Molecules. <b>2017</b> , 56, 5317-5321	68
1270	Redox Self-Adaptation of a Nitrene Transfer Catalyst to the Substrate Needs. <b>2017</b> , 129, 4369-4373	3
1269	Pd(0)-Catalysed asymmetric reductive Heck-type cyclization of (Z)-1-iodo-1,6-dienes and enantioselective synthesis of quaternary tetrahydropyridines. <b>2017</b> , 15, 4803-4806	17
1268	Control of Vicinal Stereocenters through Nickel-Catalyzed Alkyl-Alkyl Cross-Coupling. <b>2017</b> , 56, 5821-5824	45
1267	Control of Vicinal Stereocenters through Nickel-Catalyzed Alkyl-Alkyl Cross-Coupling. <b>2017</b> , 129, 5915-5918	16
1266	Diastereoselective Synthesis of Symmetrical and Unsymmetrical Tetrahydropyridines Catalyzed by Bi(III) Immobilized on Triazine Dendrimer Stabilized Magnetic Nanoparticles. <b>2017</b> , 19, 356-364	16
1265	Combined Di-tert-butyl Peroxide and Inorganic Base Promoted $\alpha$ -Alkylation of Ethers with Arenesulfonylindoles. <b>2017</b> , 82, 5441-5448	4
1264	Ni-Catalyzed Reductive Cross-Coupling of Amides with Aryl Iodide Electrophiles via C-N Bond Activation. <b>2017</b> , 19, 2536-2539	80
1263	Stereoselective strategies for the construction of polysubstituted piperidinic compounds and their applications in natural products synthesis. <b>2017</b> , 4, 1655-1704	22
1262	Copper-catalyzed one-pot oxidative amidation between methylarenes and amines. <b>2017</b> , 7, 22797-22801	9
1261	A Metal-Free Based New Approach to 2,4-Disubstituted Pyridines via One-Pot Sequential Reaction of Cyclic Sulfamidate Imines with $\alpha$ -Substituted Acroleins. <b>2017</b> , 2, 3423-3427	14
1260	Water as a Hydroxy Source in a Rh(III)-Catalyzed Directed C-H Hydroxylation of 2-Arylpyridines. <b>2017</b> , 6, 907-912	9
1259	Acylboranes: synthetic strategies and applications. <b>2017</b> , 15, 1738-1752	47
1258	Transition metal-free Suzuki type cross-coupling reaction for the synthesis of dissymmetric ketones. <b>2017</b> , 58, 3201-3204	2
1257	Methods Utilizing First-Row Transition Metals in Natural Product Total Synthesis. <b>2017</b> , 117, 11680-11752	125
1256	Ausgewählte Kupfer-katalysierte Reaktionen für die Bildung von C-N-, C-O-, C-S- und C-C-Bindungen. <b>2017</b> , 129, 16352-16397	69
1255	Selected Copper-Based Reactions for C-N, C-O, C-S, and C-C Bond Formation. <b>2017</b> , 56, 16136-16179	347
1254	Phosphonium Salts as Pseudohalides: Regioselective Nickel-Catalyzed Cross-Coupling of Complex Pyridines and Diazines. <b>2017</b> , 56, 9833-9836	51

- 1253 Suzuki-Miyaura Cross-Coupling of N-Acylpyrroles and Pyrazoles: Planar, Electronically Activated Amides in Catalytic N-C Cleavage. **2017**, 19, 3596-3599 77
- 1252 Development of Robust, Scalable Catalytic Processes through Fundamental Understanding of Reaction Mechanisms. **2017**, 60, 620-630 6
- 1251 Direct N-acylation of sulfoximines with carboxylic acids catalyzed by the BNO heterocycle. **2017**, 53, 7447-7450 15
- 1250 A segmented flow platform for on-demand medicinal chemistry and compound synthesis in oscillating droplets. **2017**, 53, 6649-6652 53
- 1249 Derisking the Cu-Mediated F-Fluorination of Heterocyclic Positron Emission Tomography Radioligands. **2017**, 139, 8267-8276 113
- 1248 Organocatalytic Redox Deracemization of Cyclic Benzylic Ethers Enabled by An Acetal Pool Strategy. **2017**, 129, 5198-5202 11
- 1247 Copper-Catalyzed Cross-Dehydrogenative N-Coupling of NH-1,2,3-Triazoles with N,N-Dialkylamides: N-Amidoalkylation of NH-1,2,3-Triazoles. **2017**, 82, 6163-6171 29
- 1246 The Hitchhiker's Guide to Flow Chemistry ||. **2017**, 117, 11796-11893 933
- 1245 Decarbonylative Cyanation of Amides by Palladium Catalysis. **2017**, 19, 3095-3098 78
- 1244 Highly Regioselective Organocatalytic S<sub>N</sub>Ar Amination of 2,4-Dichloropyrimidine and Related Heteroaryl Chlorides. **2017**, 2017, 3222-3228 7
- 1243 Asymmetric Suzuki-Miyaura coupling of heterocycles via Rhodium-catalysed allylic arylation of racemates. **2017**, 8, 15762 72
- 1242 Base-promoted, deborylative secondary alkylation of N-heteroaromatic N-oxides with internal gem-bis[(pinacolato)boryl]alkanes: a facile derivatization of 2,2'-bipyridyl analogues. **2017**, 53, 7573-7576 52
- 1241 Amine Activation: N-Arylamino Acid Amide Synthesis from Isothioureas and Amino Acids. **2017**, 359, 2481-2498 12
- 1240 Sulfur-Fluoride Exchange (SuFEx)-Mediated Synthesis of Sterically Hindered and Electron-Deficient Secondary and Tertiary Amides via Acyl Fluoride Intermediates. **2017**, 23, 9990-9995 30
- 1239 Embarking on a Chemical Space Odyssey. *Journal of Medicinal Chemistry*, **2017**, 60, 3591-3593 8.3 10
- 1238 Direct C<sup>β</sup>heteroarylation of structurally diverse ethers a mild  $\alpha$ -hydroxysuccinimide mediated cross-dehydrogenative coupling reaction. **2017**, 8, 4044-4050 62
- 1237 An Unconventional Reaction of 2,2-Diazido Acylacetates with Amines. **2017**, 2017, 1526-1539 17
- 1236 Direct amidation of esters with nitroarenes. **2017**, 8, 14878 80

1235	Amidation of unactivated ester derivatives mediated by trifluoroethanol. <b>2017</b> , 15, 3507-3518	24
1234	Copper-Catalyzed [2+2+2] Modular Synthesis of Multisubstituted Pyridines: Alkenylation of Nitriles with Vinyliodonium Salts. <b>2017</b> , 129, 4902-4906	17
1233	Copper-Catalyzed [2+2+2] Modular Synthesis of Multisubstituted Pyridines: Alkenylation of Nitriles with Vinyliodonium Salts. <b>2017</b> , 56, 4824-4828	62
1232	Sequential One-Pot Synthesis of Dipeptides through the Transient Formation of CDI-N-Protected $\beta$ -Aminoesters. <b>2017</b> , 359, 1963-1968	12
1231	Organocatalytic Redox Deracemization of Cyclic Benzylic Ethers Enabled by An Acetal Pool Strategy. <b>2017</b> , 56, 5116-5120	35
1230	Cleavage of 1,3-dicarbonyls through oxidative amidation. <b>2017</b> , 15, 3184-3187	20
1229	Redox Self-Adaptation of a Nitrene Transfer Catalyst to the Substrate Needs. <b>2017</b> , 56, 4305-4309	17
1228	Enantioselective construction of quaternary tetrahydropyridines by palladium-catalyzed vinylborylation of alkenes. <b>2017</b> , 53, 4270-4273	30
1227	Synthesis of meta-Functionalized Pyridines by Selective Dehydrogenative Heterocondensation of $\beta$ - and $\beta$ -Amino Alcohols. <b>2017</b> , 56, 371-374	63
1226	Mechanochemical Synthesis of Dipeptides Using Mg-Al Hydrotalcite as Activating Agent under Solvent-Free Reaction Conditions. <b>2017</b> , 2017, 687-694	29
1225	Synthesis of Trisubstituted Pyridines via Chemoselective Suzuki-Miyaura Coupling of 3,5- and 4,6-Dibromo-2-tosyloxy pyridines. <b>2017</b> , 359, 107-119	6
1224	Selective Oxygen-Assisted Reactions of Alcohols and Amines Catalyzed by Metallic Gold: Paradigms for the Design of Catalytic Processes. <b>2017</b> , 7, 965-985	45
1223	Stereoselective Synthesis of Benzo[e][1,4]oxazino[4,3-a][1,4]diazepine-6,12-diones with Two Diversity Positions. <b>2017</b> , 19, 770-774	11
1222	Diphenylsilane as a coupling reagent for amide bond formation. <b>2017</b> , 19, 5060-5064	36
1221	Csp <sup>3</sup> N bond formation in aminothiophenes by 1,1-dibromo isocyanide: the unexpected 1,5-binucleophilicity of substrates. <b>2017</b> , 14, 2607-2614	
1220	Asymmetric cross-coupling of alkyl, alkenyl and (hetero)aryl nucleophiles with racemic allyl halides. <b>2017</b> , 53, 12499-12511	26
1219	Synthesis and Demonstration of the Biological Relevance of sp <sup>2</sup> -rich Scaffolds Distantly Related to Natural Product Frameworks. <b>2017</b> , 23, 15227-15232	38
1218	Formation of amides: one-pot condensation of carboxylic acids and amines mediated by TiCl <sub>4</sub> . <b>2017</b> , 11, 87	18

1217	Oxyfunctionalization of the Remote C-H Bonds of Aliphatic Amines by Decatungstate Photocatalysis. <b>2017</b> , 56, 15274-15278	77
1216	Oxyfunctionalization of the Remote C-H Bonds of Aliphatic Amines by Decatungstate Photocatalysis. <b>2017</b> , 129, 15476-15480	20
1215	Synthesis of Disubstituted Pyrazino-Oxazine Derivatives with Controlled Stereochemistry. <b>2017</b> , 2017, 7034-7039	8
1214	Selective Pd-catalyzed hydrogenation of 3,3-diphenylallyl alcohol: Efficient synthesis of 3,3-diarylpropylamine drugs diisopromine and feniprane. <b>2017</b> , 102, 53-56	1
1213	Multistep Flow Synthesis of Diazepam Guided by Droplet-Accelerated Reaction Screening with Mechanistic Insights from Rapid Mass Spectrometry Analysis. <b>2017</b> , 21, 1566-1570	20
1212	N-Methylamino Pyrimidyl Amides (MAPA): Highly Reactive, Electronically-Activated Amides in Catalytic N-C(O) Cleavage. <b>2017</b> , 19, 4656-4659	52
1211	Nickel-Catalyzed Reductive Transamidation of Secondary Amides with Nitroarenes. <b>2017</b> , 7, 7092-7096	69
1210	Site-Selective C-H/C-N Activation by Cooperative Catalysis: Primary Amides as Arylating Reagents in Directed C-H Arylation. <b>2017</b> , 7, 7251-7256	63
1209	Pd-PEPPSI: a general Pd-NHC precatalyst for Buchwald-Hartwig cross-coupling of esters and amides (transamidation) under the same reaction conditions. <b>2017</b> , 53, 10584-10587	112
1208	Rational design of Fe catalysts for olefin aziridination through DFT-based mechanistic analysis. <b>2017</b> , 7, 4388-4400	14
1207	An Aminocatalyzed Michael Addition/Iron-Mediated Decarboxylative Cyclization Sequence for the Preparation of 2,3,4,6-Tetrasubstituted Pyridines: Scope and Mechanistic Insights. <b>2017</b> , 82, 10319-10330	20
1206	Metal- and Solvent-Free Approach to Diversely Substituted Picolinates via Domino Reaction of Cyclic Sulfamidate Imines with $\alpha,\beta$ -Unsaturated $\beta$ -Ketocarboxyls. <b>2017</b> , 82, 10928-10938	18
1205	MOF-derived cobalt nanoparticles catalyze a general synthesis of amines. <b>2017</b> , 358, 326-332	416
1204	Efficient Heterogeneous Gold(I)-Catalyzed Direct C(sp <sup>2</sup> )-C(sp) Bond Functionalization of Arylalkynes through a Nitrogenation Process to Amides. <b>2017</b> , 359, 3968-3976	22
1203	NMI/MsCl-Mediated Amide Bond Formation of Aminopyrazines and Aryl/Heteroaryl Carboxylic Acids: Synthesis of Biologically Relevant Pyrazine Carboxamides. <b>2017</b> , 2, 7706-7710	6
1202	Synthesis of a Class of Fused $\beta$ -Sultone Heterocycles via DBU-Catalyzed Direct Annulative SuFEx Click of Ethenesulfonyl Fluorides and Pyrazolones or 1,3-Dicarbonyl Compounds. <b>2017</b> , 359, 3254-3260	25
1201	Ligand-Assisted Heteroaryl C(sp <sup>2</sup> )-C Bond Activation by a Cationic Ruthenium(II) Complex for Alkenylation of Heteroarenes with Alkynes Directed by Biorelevant Heterocycles. <b>2017</b> , 9, 4191-4198	7
1200	Tandem deprotection/coupling for peptide synthesis in water at room temperature. <b>2017</b> , 19, 4263-4267	35

- 1199 Copper-Catalyzed Oxidative Coupling of  $\alpha$ -Keto Esters with N-Methylamides for the Synthesis of Symmetrical 2,3,5,6-Tetrasubstituted Pyridines. **2017**, 82, 8628-8633 19
- 1198 Selective reductive amination of aldehydes from nitro compounds catalyzed by molybdenum sulfide clusters. **2017**, 19, 3764-3768 29
- 1197 Selective Palladium(II)-Catalyzed Carbonylation of Methylene  $\alpha$ -C-H Bonds in Aliphatic Amines. **2017**, 129, 12120-12124 13
- 1196 Manganese-Catalyzed Cross-Coupling of Aryl Halides and Grignard Reagents by a Radical Mechanism. **2017**, 2017, 4758-4764 9
- 1195 Selective Palladium(II)-Catalyzed Carbonylation of Methylene  $\alpha$ -C-H Bonds in Aliphatic Amines. **2017**, 56, 11958-11962 64
- 1194 An Efficient and Environmentally Benign Bentonite-Gold Nanohybrid-Catalyzed Oxidative Cross-Coupling of Ketones with Benzylic Primary Alcohols. **2017**, 6, 1486-1491 5
- 1193 Site-Selective Copper-Catalyzed Amination and Azidation of Arenes and Heteroarenes via Deprotonative Zincation. **2017**, 139, 11622-11628 56
- 1192 Suzuki-Miyaura cross-coupling of amides and esters at room temperature: correlation with barriers to rotation around C-N and C-O bonds. **2017**, 8, 6525-6530 117
- 1191 Cu<sub>2</sub>O/Cs<sub>2</sub>CO<sub>3</sub>/DMF: An efficient catalytic system for N-arylation of imidazole with aryl halides under ligand-free conditions. **2017**, 47, 1797-1803 6
- 1190 Synthese meta-funktionalisierter Pyridine über selektive dehydrierende Heterokondensation von  $\alpha$ - und  $\beta$ -Aminoalkoholen. **2017**, 129, 377-381 14
- 1189 Phosphonium Salts as Pseudohalides: Regioselective Nickel-Catalyzed Cross-Coupling of Complex Pyridines and Diazines. **2017**, 129, 9965-9968 12
- 1188 Metal-Free Aerobic Oxidative C-C Bond Cleavage between the Carbonyl Carbon and the  $\beta$ -Carbon of  $\beta$ -Azido Ketones: A Novel Synthesis of N-Alkylated Benzamides. **2017**, 6, 1498-1504 8
- 1187 Competing Pathways in O-Arylations with Diaryliodonium Salts: Mechanistic Insights. **2017**, 23, 13249-13258 42
- 1186 Visible Light Organic Photoredox-Catalyzed C-H Alkoxylation of Imidazopyridine with Alcohol. **2017**, 82, 13722-13727 56
- 1185 A Multicomponent Route to Functionalized Amides and Oxazolidinones. **2017**, 19, 6736-6739 5
- 1184 Design of a Photoredox Catalyst that Enables the Direct Synthesis of Carbamate-Protected Primary Amines via Photoinduced, Copper-Catalyzed N-Alkylation Reactions of Unactivated Secondary Halides. **2017**, 139, 18101-18106 87
- 1183 General Method for the Suzuki-Miyaura Cross-Coupling of Primary Amide-Derived Electrophiles Enabled by [Pd(NHC)(cin)Cl] at Room Temperature. **2017**, 19, 6510-6513 52
- 1182 Teaching Old Compounds New Tricks: DDQ-Photocatalyzed C-H Amination of Arenes with Carbamates, Urea, and N-Heterocycles. **2017**, 23, 18161-18165 65

1181	Recent developments in transition-metal photoredox-catalysed reactions of carbonyl derivatives. <b>2017</b> , 53, 13093-13112	92
1180	Synthesis, computational, and spectroscopic analysis of tunable highly fluorescent BN-1,2-azaborine derivatives containing the N-BOH moiety. <b>2017</b> , 15, 10172-10183	6
1179	Ligand- and Solvent-Tuned Chemoselective Carbonylation of Bromoaryl Triflates. <b>2017</b> , 23, 13369-13378	24
1178	Ecocatalyzed Suzuki cross coupling of heteroaryl compounds. <b>2017</b> , 19, 4093-4103	29
1177	Reductive amination catalyzed by iridium complexes using carbon monoxide as a reducing agent. <b>2017</b> , 15, 6384-6387	18
1176	Theoretical insights into C≡ bond formation through isonitrile insertion into a Cp*Ti complex. <b>2017</b> , 7, 34816-34829	2
1175	Copper-Catalyzed Direct Acyloxylation of C(sp)-H Bonds in Aromatic Amides. <b>2017</b> , 19, 3636-3639	39
1174	Industrial medicinal chemistry insights: neuroscience hit generation at Janssen. <b>2017</b> , 22, 1478-1488	4
1173	A palladium-catalyzed synthesis of (hetero)aryl-substituted imidazoles from aryl halides, imines and carbon monoxide. <b>2017</b> , 8, 1002-1007	31
1172	Theoretical Insights into the Synthesis of 2,3-Dihydropyridines from Unsaturated Oximes by RhIII-Catalyzed C≡ Activation [A DFT Study. <b>2017</b> , 2017, 397-408	1
1171	Aromatic Chlorosulfonylation by Photoredox Catalysis. <b>2017</b> , 10, 151-155	24
1170	Twisted Amides: From Obscurity to Broadly Useful Transition-Metal-Catalyzed Reactions by N-C Amide Bond Activation. <b>2017</b> , 23, 7157-7173	226
1169	Site-selective Suzuki-Miyaura coupling of heteroaryl halides - understanding the trends for pharmaceutically important classes. <b>2017</b> , 8, 40-62	98
1168	Palladium-Catalyzed Ortho-Alkoxylation of N-Benzoyl [Amino Acid Derivatives at Room Temperature. <b>2017</b> , 82, 126-134	24
1167	Recent Advances of Oxidative Radical Cross-Coupling Reactions: Direct C(sp <sup>3</sup> )-C Bond Functionalization of Ethers and Alcohols. <b>2017</b> , 359, 2-25	114
1166	Separation of structurally related primary aliphatic amines using hydrophilic interaction chromatography with fluorescence detection after postcolumn derivatization with o-phthaldialdehyde/mercaptoethanol. <b>2017</b> , 40, 4689-4699	6
1165	Fragment-Based Lead Discovery. <b>2017</b> , 371-439	9
1164	New chemical and chemo-enzymatic synthesis of (R,S)-, (R)-, and (S)-esmolol. <b>2017</b> , 10, S3603-S3613	4

1163	Transition-metal-catalyzed synthesis of phenols and aryl thiols. <b>2017</b> , 13, 589-611	24
1162	Drug discovery. <b>2017</b> , 281-420	1
1161	Single Crystal X-ray Study of 6-Phenyl-4-(p-tolyl)pyridin-2(1H)-one. <b>2017</b> , 62, 1144-1147	
1160	Fragment-Based Drug Design: Strategic Advances and Lessons Learned. <b>2017</b> , 212-232	5
1159	Synthesis, antimycobacterial evaluation, and QSAR analysis of meso-dihydroguaiaretic acid derivatives. <b>2018</b> , 27, 1026-1042	2
1158	Sulfinate-Salt-Mediated Radical Relay Cyclization of Cyclic Ethers with 2-Alkynylbenzotrioles toward 3-Alkylated 1-Indenones. <b>2018</b> , 13, 1157-1164	14
1157	Efficient access to chiral benzo[c]chromenes via asymmetric transfer hydrogenation of ketals. <b>2018</b> , 5, 1280-1283	9
1156	Eisenkatalysierte Kreuzkupplungen in der Synthese von Pharmazeutika: Streben nach Nachhaltigkeit. <b>2018</b> , 130, 11284-11297	48
1155	Palladium-Catalyzed C-O Cross-Coupling of Primary Alcohols. <b>2018</b> , 20, 1580-1583	56
1154	The Curtius rearrangement: mechanistic insight and recent applications in natural product syntheses. <b>2018</b> , 16, 2006-2027	49
1153	Contra-Thermodynamic, Photocatalytic E-Z Isomerization of Styrenyl Boron Species: Vectors to Facilitate Exploration of Two-Dimensional Chemical Space. <b>2018</b> , 130, 3222-3226	29
1152	Direct amidation of non-activated phenylacetic acid and benzylamine derivatives catalysed by NiCl <sub>2</sub> . <b>2018</b> , 5, 171870	5
1151	Nickel Dual Photoredox Catalysis for the Synthesis of Aryl Amines. <b>2018</b> , 37, 1468-1472	22
1150	Ni/Ti Dual Catalytic Cross-Coupling of Nitriles and Organobromides To Access Ketones. <b>2018</b> , 8, 4539-4544	16
1149	Mechanistic Study of Suzuki-Miyaura Cross-Coupling Reactions of Amides Mediated by [Pd(NHC)(allyl)Cl] Precatalysts. <b>2018</b> , 10, 3096-3106	58
1148	Forging Amides Through Metal-Catalyzed C-N Coupling with Isocyanates. <b>2018</b> , 2018, 3051-3064	29
1147	Redox deracemization of 1,3,4,9-tetrahydropyrano[3,4-b]indoles. <b>2018</b> , 54, 4445-4448	8
1146	Cyrene as a bio-based solvent for HATU mediated amide coupling. <b>2018</b> , 16, 2851-2854	33

1145	Mesoporous silica nanoparticles in an efficient solvent-free transamidation of carboxamides with amines: an exhibition of a green recyclable nanocatalyst. <b>2018</b> , 20, 1	2
1144	Eisenkatalysierte C-O/C-O-Bindungsmetathese von aliphatischen Ethern. <b>2018</b> , 130, 7057-7061	5
1143	Photoredox-catalyzed Direct Reductive Amination of Aldehydes without an External Hydrogen/Hydride Source. <b>2018</b> , 20, 2680-2684	23
1142	N-Acyl-glutarimides: Resonance and Proton Affinities of Rotationally-Inverted Twisted Amides Relevant to N-C(O) Cross-Coupling. <b>2018</b> , 20, 1342-1345	53
1141	Iron-Catalyzed Cross-Couplings in the Synthesis of Pharmaceuticals: In Pursuit of Sustainability. <b>2018</b> , 57, 11116-11128	153
1140	A combined experimental and computational study of 3-bromo-5-(2,5-difluorophenyl) pyridine and 3,5-bis(naphthalen-1-yl)pyridine: Insight into the synthesis, spectroscopic, single crystal XRD, electronic, nonlinear optical and biological properties. <b>2018</b> , 1160, 129-141	43
1139	Atropisomerism in medicinal chemistry: challenges and opportunities. <b>2018</b> , 10, 409-422	104
1138	Copper-Catalyzed Cyclization of Ketoxime Carboxylates and N-Aryl Glycine Esters for the Synthesis of Pyridines. <b>2018</b> , 7, 692-696	8
1137	Cobalt-Catalyzed Remote C-4 Functionalization of 8-Aminoquinoline Amides with Ethers via C-H Activation under Visible-Light Irradiation. Access to $\beta$ -Heteroarylated Ether Derivatives. <b>2018</b> , 20, 1011-1014	25
1136	Contra-Thermodynamic, Photocatalytic E-Z Isomerization of Styrenyl Boron Species: Vectors to Facilitate Exploration of Two-Dimensional Chemical Space. <b>2018</b> , 57, 3168-3172	79
1135	Auxiliary-directed etherification of sp <sup>3</sup> C-H bonds under heterogeneous metal-organic framework catalysis: synthesis of ethenzamide.. <b>2018</b> , 8, 2829-2836	5
1134	Catalytic Oligopeptide Synthesis. <b>2018</b> , 20, 612-615	33
1133	Ni-Catalyzed Carbon-Carbon Bond-Forming Reductive Amination. <b>2018</b> , 140, 2292-2300	55
1132	I <sub>2</sub> -Triggered Reductive Generation of N-Centered Iminyl Radicals: An Isatin-to-Quinoline Strategy for the Introduction of Primary Amides. <b>2018</b> , 360, 1364-1369	40
1131	C-H to C-N Cross-Coupling of Sulfonamides with Olefins. <b>2018</b> , 140, 3202-3205	52
1130	N-Acyl-Glutarimides: Privileged Scaffolds in Amide N-C Bond Cross-Coupling. <b>2018</b> , 2018, 2352-2365	99
1129	Transamidation of N-acyl-glutarimides with amines. <b>2018</b> , 16, 1322-1329	44
1128	Fluoride-Catalyzed Esterification of Amides. <b>2018</b> , 24, 3444-3447	49

1127	Binding-Site Compatible Fragment Growing Applied to the Design of $\beta$ -Adrenergic Receptor Ligands. <i>Journal of Medicinal Chemistry</i> , <b>2018</b> , 61, 1118-1129	8.3	28
1126	A platform for automated nanomole-scale reaction screening and micromole-scale synthesis in flow. <b>2018</b> , 359, 429-434		166
1125	N-Arylated Sulfoximines as Cross-Coupling Building Blocks. <b>2018</b> , 360, 1088-1093		10
1124	Optimization of Amidation Reactions Using Predictive Tools for the Replacement of Regulated Solvents with Safer Biobased Alternatives. <b>2018</b> , 6, 1550-1554		8
1123	On-demand synthesis of organozinc halides under continuous flow conditions. <b>2018</b> , 13, 324-334		32
1122	A C=O $\cdots$ Isothiuronium Interaction Dictates Enantiodiscrimination in Acylative Kinetic Resolutions of Tertiary Heterocyclic Alcohols. <b>2018</b> , 57, 3200-3206		77
1121	A C=O $\cdots$ Isothiuronium Interaction Dictates Enantiodiscrimination in Acylative Kinetic Resolutions of Tertiary Heterocyclic Alcohols. <b>2018</b> , 130, 3254-3260		38
1120	Redesign of a Grignard-Based Active Pharmaceutical Ingredient (API) Batch Synthesis to a Flow Process for the Preparation of Melitracen HCl. <b>2018</b> , 22, 228-235		13
1119	High throughput reaction screening using desorption electrospray ionization mass spectrometry. <b>2018</b> , 9, 1647-1653		80
1118	A PEG/copper(i) halide cluster as an eco-friendly catalytic system for C-N bond formation. <b>2018</b> , 47, 7463-7470		8
1117	Brønsted Acidic Ionic Liquid-Promoted Amidation of Quinoline N-Oxides with Nitriles. <b>2018</b> , 6, 7989-7994		80
1116	Manganese-catalysed benzylic C(sp)-H amination for late-stage functionalization. <b>2018</b> , 10, 583-591		154
1115	Overcoming solid handling issues in continuous flow substitution reactions through ionic liquid formation. <b>2018</b> , 20, 1748-1753		13
1114	Iron-Catalyzed Ring-Closing C-O/C-O Metathesis of Aliphatic Ethers. <b>2018</b> , 57, 6940-6944		21
1113	Elucidating the Role of the Boronic Esters in the Suzuki-Miyaura Reaction: Structural, Kinetic, and Computational Investigations. <b>2018</b> , 140, 4401-4416		72
1112	Theoretical insights on the C-C bond reductive elimination from Co(III) center. <b>2018</b> , 1130, 140-147		4
1111	Big Data in Drug Discovery. <b>2018</b> , 57, 277-356		25
1110	Organic synthesis provides opportunities to transform drug discovery. <b>2018</b> , 10, 383-394		601

1109	Synthetic and Therapeutic Applications of Ammonia-lyases and Aminomutases. <b>2018</b> , 118, 73-118	97
1108	Cu-Catalyzed Three-Component Carboamination of Alkenes. <b>2018</b> , 140, 58-61	93
1107	Mercaptoaryl-Oxazoline Complexes of Palladium and Their High Activities as Catalysts for Suzuki-Miyaura Coupling Reactions in Water. <b>2018</b> , 2018, 568-575	7
1106	Diethylzinc-Mediated Metalloamination-Alkylation of $\alpha$ , $\beta$ -Dimethylhydrazinoalkenes. Catalysis of C-Zn Alkylation Using Simple Cu(I) Salts. <b>2018</b> , 29, 181-184	1
1105	Stable and reusable nanoscale Fe <sub>2</sub> O <sub>3</sub> -catalyzed aerobic oxidation process for the selective synthesis of nitriles and primary amides. <b>2018</b> , 20, 266-273	33
1104	Cheminformatics in the Service of GPCR Drug Discovery. <b>2018</b> , 1705, 395-411	1
1103	Tetrahydrobenzo[c]thieno[2,1-e]isothiazole 4-Oxides: Three-Dimensional Heterocycles as Cross-Coupling Building Blocks. <b>2018</b> , 20, 116-118	25
1102	Transition-Metal-Free Regioselective Alkylation of Quinoline N-Oxides via Oxidative Alkyl Migration and C-I Bond Cleavage of tert-/sec-Alcohols. <b>2018</b> , 360, 905-910	36
1101	Reversible Twisting of Primary Amides via Ground State N-C(O) Destabilization: Highly Twisted Rotationally Inverted Acyclic Amides. <b>2018</b> , 140, 727-734	119
1100	Automating drug discovery. <b>2018</b> , 17, 97-113	275
1099	Library-to-Library Synthesis of Highly Substituted $\beta$ -Aminomethyl Tetrazoles via Ugi Reaction. <b>2018</b> , 20, 70-74	13
1098	Amide synthesis nickel-catalysed reductive aminocarbonylation of aryl halides with nitroarenes. <b>2018</b> , 9, 655-659	63
1097	Copper-amino group complexes supported on silica-coated magnetite nanoparticles: efficient catalyst for oxidative amidation of methyl arenes. <b>2018</b> , 42, 3900-3908	14
1096	Palladium-Catalyzed ortho-Alkoxylation of Tertiary Benzamides: H <sub>2</sub> SO <sub>4</sub> as an Effective Additive. <b>2018</b> , 7, 107-110	4
1095	Expedient Synthesis of N-Methyl- and N-Alkylamines by Reductive Amination using Reusable Cobalt Oxide Nanoparticles. <b>2018</b> , 10, 1235-1240	22
1094	Early transition metal-catalyzed C-H alkylation: hydroaminoalkylation for C-C bond formation in the synthesis of selectively substituted amines. <b>2018</b> , 54, 12543-12560	58
1093	Synthesis of 3,6-diaryl-1-pyrazolo[3,4-]pyridines one-pot sequential Suzuki-Miyaura coupling.. <b>2018</b> , 8, 34883-34894	5
1092	Decarbonylative cross-coupling of amides. <b>2018</b> , 16, 7998-8010	101

1091	Nickel/Briphos-Catalyzed Direct Transamidation of Unactivated Secondary Amides Using Trimethylsilyl Chloride. <b>2018</b> , 20, 7563-7566	28
1090	An expedient and rapid green chemical synthesis of N-chloroacetanilides and amides using acid chlorides under metal-free neutral conditions. <b>2018</b> , 11, 552-558	3
1089	A Highly Efficient Copper-Catalyzed C(sp <sup>2</sup> )-Alkoxylation of the Benzamide Enabled by A Bidendate Directing Group. <b>2018</b> , 8, 171	3
1088	Palladium-Catalyzed Ligand-Free Suzuki-Miyaura Reaction of Aryl Fluorosulfates and Various Arylboron Compounds. <b>2018</b> , 3, 12287-12290	5
1087	A simple and mild Suzuki reaction protocol using triethylamine as base and solvent. <b>2018</b> , 48, 3123-3132	4
1086	Heterobiaryl synthesis by contractive C-C coupling via P(V) intermediates. <b>2018</b> , 362, 799-804	86
1085	Process Development of a Suzuki Reaction Used in the Manufacture of Lanabecestat. <b>2018</b> , 22, 1801-1808	13
1084	Metal-Free Visible-Light-Induced C <sub>H</sub> /C <sub>H</sub> Cross-Dehydrogenative-Coupling of Quinoxalin-2(H)-ones with Simple Ethers. <b>2018</b> , 6, 17252-17257	113
1083	A facile tandem decyanation/cyanation reaction of $\beta$ -aminonitriles toward cyano-substituted amides. <b>2018</b> , 16, 8481-8485	4
1082	Characterization of a Putrescine Transaminase From and its Application to the Synthesis of Benzylamine Derivatives. <b>2018</b> , 6, 205	6
1081	Key Green Chemistry research areas from a pharmaceutical manufacturers perspective revisited. <b>2018</b> , 20, 5082-5103	225
1080	Phosphine-Promoted Amide Bond Formation Reactions from Carboxylic Acids and Tetraalkylthiuram Disulfides. <b>2018</b> , 3, 13038-13041	6
1079	A calix[4]arene based boronic acid catalyst for amide bond formation: proof of principle study. <b>2018</b> , 2018, 221-229	0
1078	Simple ruthenium-catalyzed reductive amination enables the synthesis of a broad range of primary amines. <b>2018</b> , 9, 4123	83
1077	Well-Defined Palladium(II)-NHC Precatalysts for Cross-Coupling Reactions of Amides and Esters by Selective N-C/O-C Cleavage. <b>2018</b> , 51, 2589-2599	226
1076	Design of a Selective Ring-Closing Enyne Metathesis-Reduction for the Generation of Different Synthetic Scaffolds. <b>2018</b> , 83, 12798-12805	6
1075	Intermolecular Allylic C <sub>H</sub> Etherification of Internal Olefins. <b>2018</b> , 130, 15127-15131	9
1074	Reductive Elimination to Form C(sp <sup>3</sup> )-C Bonds from Palladium(II) Primary Alkyl Complexes. <b>2018</b> , 37, 3243-3247	7

1073	Intermolecular Allylic C-H Etherification of Internal Olefins. <b>2018</b> , 57, 14911-14915	31
1072	Multicomponent synthesis of tertiary alkylamines by photocatalytic olefin-hydroaminoalkylation. <b>2018</b> , 561, 522-527	130
1071	Redox-Activated Amines in C(sp <sup>3</sup> )–C(sp) and C(sp <sup>3</sup> )–C(sp <sup>2</sup> ) Bond Formation Enabled by Metal-Free Photoredox Catalysis. <b>2018</b> , 8, 11362-11367	92
1070	Photochemical In-Flow Synthesis of 2,4-Methanopyrrolidines: Pyrrolidine Analogues with Improved Water Solubility and Reduced Lipophilicity. <b>2018</b> , 83, 14350-14361	34
1069	Artificial Intelligence in Drug Design-The Storm Before the Calm?. <b>2018</b> , 9, 1150-1152	28
1068	Nickel-Catalyzed Oxidative Decarboxylative Annulation for the Synthesis of Heterocycle-Containing Phenanthridinones. <b>2018</b> , 20, 7216-7219	18
1067	General Strategy for Improving the Quantum Efficiency of Photoredox Hydroamidation Catalysis. <b>2018</b> , 140, 14926-14937	39
1066	Hit-to-Lead: Hit Validation and Assessment. <b>2018</b> , 610, 265-309	8
1065	A Practical and General Amidation Method from Isocyanates Enabled by Flow Technology. <b>2018</b> , 130, 12302-12306	3
1064	Triphenyl borate catalyzed synthesis of amides from carboxylic acids and amines. <b>2018</b> , 74, 6954-6958	8
1063	Application of a novel, efficient and recyclable photo redox catalyst (ZnAl layered double hydroxide/eosin) for the synthesis of substituted pyridine derivatives under visible light irradiation. <b>2018</b> , 32, e4585	5
1062	Mechanistic Insight Enables Practical, Scalable, Room Temperature Chan–Am N-Arylation of N-Aryl Sulfonamides. <b>2018</b> , 8, 9560-9566	31
1061	Direct Transamidation Reactions: Mechanism and Recent Advances. <b>2018</b> , 23,	35
1060	Evaluating the Impact of a Decade of Funding from the Green Chemistry Institute Pharmaceutical Roundtable. <b>2018</b> , 22, 1344-1359	23
1059	Cobalt-based nanoparticles prepared from MOF-carbon templates as efficient hydrogenation catalysts. <b>2018</b> , 9, 8553-8560	51
1058	Toward the Design of Molecular Chameleons: Flexible Shielding of an Amide Bond Enhances Macrocyclic Cell Permeability. <b>2018</b> , 20, 5737-5742	13
1057	The Important Role of the Byproduct Triphenylphosphine Oxide in the Magnesium(II)-Catalyzed Enantioselective Reaction of Hemiacetals and Phosphorus Ylides. <b>2018</b> , 130, 9226-9230	6
1056	Intramolecular Transamidation of Secondary Amides via Visible-Light-Induced Tandem Reaction. <b>2018</b> , 20, 5618-5621	18

1055	One-pot transition-metal free transamidation to sterically hindered amides. <b>2018</b> , 5, 2950-2954	35
1054	Facile direct synthesis of amides from trichloroethyl esters using catalytic DBU. <b>2018</b> , 96, 1135-1141	1
1053	Catalytic Isohyptic-Redox Sequences for the Rapid Generation of C-Containing Heterocycles. <b>2018</b> , 24, 17201-17204	6
1052	Magnetic Nanoparticle Anchored Deep Eutectic Solvents as a Catalyst for the Etherification and Amination of Naphthols. <b>2018</b> , 360, 4372-4380	6
1051	Metallaphotoredox-Mediated C-H Hydroxylation of Arenes under Aerobic Conditions. <b>2018</b> , 20, 5533-5536	26
1050	Transition-Metal-Free Esterification of Amides via Selective N-C Cleavage under Mild Conditions. <b>2018</b> , 20, 5622-5625	54
1049	Applications of Carboxylic Acids in Organic Synthesis, Nanotechnology and Polymers. <b>2018</b> ,	2
1048	B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> -catalyzed oxidative deamination/cyclization cascade reaction of benzylamines and ketones for the synthesis of 2,4,6-triarylpyridines. <b>2018</b> , 59, 3678-3682	11
1047	Crystal Structure of Ethyl 2,4-Dimethyl-1-phenyl-6-thioxo-1,6-dihydropyrimidine-5-carboxylate: The Product from the Reaction of Ethyl 3-Aminocrotonate, Phenylisothiocyanate and Acetic Anhydride. <b>2018</b> , 48, 91-95	2
1046	Recent advances in chemoselective acylation of amines. <b>2018</b> , 59, 2615-2621	20
1045	Facile and Efficient Synthesis of 3-Pyrimidinyl Oxindoles by Phase-Transfer-Catalyzed Regioselective Nucleophilic Aromatic Substitution. <b>2018</b> , 2018, 4256-4264	2
1044	Remote sp <sup>3</sup> C-H Amination of Alkenes with Nitroarenes. <b>2018</b> , 4, 1645-1657	100
1043	Manganese-Mediated Reductive Transamidation of Tertiary Amides with Nitroarenes. <b>2018</b> , 140, 6789-6792	66
1042	Maßgeschneiderte terminale Kupfernitrene für katalytische C-H-Aminierungen. <b>2018</b> , 130, 9294-9299	6
1041	Highly Discriminative and Chemoselective Deprotection/Transformations of Acetals with the Combination of Trialkylsilyl Triflate/2,4,6-Collidine. <b>2018</b> , 83, 6432-6443	3
1040	Efficient copper-catalyzed amination of DNA-conjugated aryl iodides under mild aqueous conditions. <b>2018</b> , 9, 1188-1193	41
1039	Nickel-catalyzed C-H bond Alkoxylation of Amides with Alcohols. <b>2018</b> , 7, 1368-1371	11
1038	The Important Role of the Byproduct Triphenylphosphine Oxide in the Magnesium(II)-Catalyzed Enantioselective Reaction of Hemiacetals and Phosphorus Ylides. <b>2018</b> , 57, 9088-9092	29

- 1037 Ruthenium(II)-Catalyzed Positional Selective C-H Oxygenation of N-Aryl-2-pyrimidines. **2018**, 83, 6444-6453 19
- 1036 A versatile biosynthetic approach to amide bond formation. **2018**, 20, 3426-3431 36
- 1035 Regiospecific N-Arylation of Aliphatic Amines under Mild and Metal-Free Reaction Conditions. **2018**, 130, 11597-11601 13
- 1034 Regiospecific N-Arylation of Aliphatic Amines under Mild and Metal-Free Reaction Conditions. **2018**, 57, 11427-11431 37
- 1033 Switchable Selectivity in the Pd-Catalyzed Alkylative Cross-Coupling of Esters. **2018**, 20, 4094-4098 48
- 1032 Cyclometallated ruthenium catalyst enables late-stage directed arylation of pharmaceuticals. **2018**, 10, 724-731 79
- 1031 Chemoselective reduction of aldehydes and ketones by potassium diisobutyl-t-butoxy aluminum hydride (PDBBA). **2018**, 74, 4236-4241 4
- 1030 Orthogonal reactivity of Ni(I)/Pd(0) dual catalysts for Ullmann C-C cross-coupling: theoretical insight. **2018**, 54, 7959-7962 8
- 1029 Three-Dimensional Heterocycles by Iron-Catalyzed Ring-Closing Sulfoxide Imidation. **2018**, 130, 12229-12232 9
- 1028 Cu-Catalyzed switchable synthesis of functionalized pyridines and pyrroles. **2018**, 54, 9446-9449 16
- 1027 Reductive C2-Alkylation of Pyridine and Quinoline N-Oxides Using Wittig Reagents. **2018**, 57, 12737-12740 59
- 1026 Selective Fluorination of 4-Substituted 2-Aminopyridines and Pyridin-2(1 H)-ones in Aqueous Solution. **2018**, 20, 4858-4861 15
- 1025 Aromatic Rings Commonly Used in Medicinal Chemistry: Force Fields Comparison and Interactions With Water Toward the Design of New Chemical Entities. **2018**, 9, 395 23
- 1024 Three-Dimensional Heterocycles by Iron-Catalyzed Ring-Closing Sulfoxide Imidation. **2018**, 57, 12053-12056 36
- 1023 Recent advances towards sulfur (VI) fluoride exchange (SuFEx) click chemistry. **2018**, 213, 87-112 58
- 1022 Iron-Catalyzed Aerobic Oxidative Cleavage and Construction of C-N Bonds: A Facile Method for Synthesis of 2,4,6-Trisubstituted Pyridines. **2018**, 7, 1872-1881 16
- 1021 Streamlining bioactive molecular discovery through integration and automation. **2018**, 2, 174-183 18
- 1020 Ruthenium nanoparticle catalyzed selective reductive amination of imine with aldehyde to access tertiary amines. **2018**, 54, 9214-9217 9

1019	Cobalt(ii)-catalyzed regioselective C-H halogenation of anilides. <b>2018</b> , 16, 5433-5440	11
1018	A Visible Light-Mediated Regioselective Halogenation of Anilides and Quinolines by Using a Heterogeneous Cu-MnO Catalyst. <b>2018</b> , 2018, 4748-4753	17
1017	A Practical and General Amidation Method from Isocyanates Enabled by Flow Technology. <b>2018</b> , 57, 12126-12130	10
1016	Diboron-Catalyzed Dehydrative Amidation of Aromatic Carboxylic Acids with Amines. <b>2018</b> , 20, 4397-4400	51
1015	A portal to a class of novel sultone-functionalized pyridines via an annulative SuFEx process employing earth abundant nickel catalysts. <b>2018</b> , 54, 9011-9014	23
1014	Radical-mediated direct C-H amination of arenes with secondary amines. <b>2018</b> , 9, 6647-6652	20
1013	Silyl-mediated photoredox-catalyzed Giese reaction: addition of non-activated alkyl bromides. <b>2018</b> , 9, 6639-6646	39
1012	Pd(ii)-Catalyzed aerobic 1,2-difunctionalization of conjugated dienes: efficient synthesis of morpholines and 2-morpholones. <b>2018</b> , 16, 5618-5625	20
1011	Continuous Flow for the Photochemical C-H Amination of Arenes. <b>2018</b> , 2, 851-854	7
1010	Metal-Free Selective C2-H Amidation of 8-Amidoquinolines by Using Isocyanide as the Source of Amide. <b>2018</b> , 3, 5194-5197	2
1009	Designed To React: Terminal Copper Nitrenes and Their Application in Catalytic C-H Aminations. <b>2018</b> , 57, 9154-9159	21
1008	Cu-Catalyzed Asymmetric [3 + 2] Cycloaddition of Azomethine Ylides with Cyclobutenones. <b>2018</b> , 20, 3179-3182	26
1007	Translation of innovative chemistry into screening libraries: an exemplar partnership from the European Lead Factory. <b>2018</b> , 23, 1578-1583	11
1006	Chelation-Assisted C-N Cross-Coupling between Picolinamides and Aryl Boronic Acids under Nickel Catalysis. <b>2018</b> , 7, 2053-2056	4
1005	Selective ruthenium-catalyzed double reductive aminations using hydrosilane to access tertiary amines and piperidine derivatives. <b>2018</b> , 59, 3467-3472	6
1004	Reductive C2-Alkylation of Pyridine and Quinoline N-Oxides Using Wittig Reagents. <b>2018</b> , 130, 12919-12922	9
1003	TsOH/HO-mediated N-amidation of quinoline N-oxides: facile and regioselective synthesis of N-(quinolin-2-yl)amides. <b>2018</b> , 16, 6202-6205	17
1002	Acyl and Decarbonylative Suzuki Coupling of N-Acetyl Amides: Electronic Tuning of Twisted, Acyclic Amides in Catalytic Carbon-Nitrogen Bond Cleavage. <b>2018</b> , 8, 9131-9139	70

1001	Expanding the medicinal chemistry synthetic toolbox. <b>2018</b> , 17, 709-727	223
1000	Chloroform as a carbon monoxide source in palladium-catalyzed synthesis of 2-amidoimidazo[1,2-a]pyridines. <b>2018</b> , 16, 6430-6437	18
999	Nucleophilic amination of methoxypyridines by a sodium hydride-iodide composite. <b>2018</b> , 54, 10324-10327	23
998	Convenient metal-free direct oxidative amidation of aldehyde using dibromoisocyanuric acid under mild conditions. <b>2018</b> , 59, 3541-3546	7
997	Palladium-Catalyzed Asymmetric C(sp <sup>3</sup> )-H Alkylation of 2-Alkylpyridines. <b>2018</b> , 57, 9465-9469	38
996	Palladium-Catalyzed Asymmetric C(sp <sup>3</sup> )-H Alkylation of 2-Alkylpyridines. <b>2018</b> , 130, 9609-9613	16
995	Aqueous Suzuki-Miyaura Reaction with 0.6 Equiv. of Base: Green and Efficient Access to Biaryls and Unsymmetrical Terphenyls. <b>2018</b> , 3, 6022-6027	5
994	Pyrimidine as an Aryl C-H Activating Group. <b>2018</b> , 20, 3745-3748	9
993	Choosing the Right Coupling Reagent for Peptides: A Twenty-Five-Year Journey. <b>2018</b> , 22, 760-772	69
992	Copper(II)-Catalyzed Selective Para Amination of Arylamine with Pyrazole by C-H Functionalization. <b>2018</b> , 10, 3675-3679	34
991	High Throughput Experimentation and Continuous Flow Validation of Suzuki-Miyaura Cross-Coupling Reactions. <b>2018</b> , 24, 9546-9554	14
990	Electrochemical Cobalt-Catalyzed C-H Activation. <b>2018</b> , 24, 16209-16217	94
989	Accelerated tert-butyloxycarbonyl deprotection of amines in microdroplets produced by a pneumatic spray. <b>2018</b> , 430, 98-103	8
988	Bisphosphines: A Prominent Ancillary Ligand Class for Application in Nickel-Catalyzed C-H Cross-Coupling. <b>2018</b> , 8, 7228-7250	76
987	Transition Metal-Catalyzed C-H Bond Functionalizations by Use of Sulfur-Containing Directing Groups. <b>2019</b> , 361, 26-38	47
986	Leveraging Atropisomerism to Obtain a Selective Inhibitor of RET Kinase with Secondary Activities toward EGFR Mutants. <b>2019</b> , 14, 1930-1939	7
985	A metal-free approach for the synthesis of amides/esters with pyridinium salts of phenacyl bromides via oxidative C-C bond cleavage. <b>2019</b> , 15, 1864-1871	6
984	Photocatalytic Reductive Formation of Tertiary Ethers from Ketals. <b>2019</b> , 21, 6668-6673	16

983	Cyclic enaminone as new chemotype for selective cyclooxygenase-2 inhibitory, anti-inflammatory, and analgesic activities. <b>2019</b> , 182, 111601	9
982	Cesium Carbonate Catalyzed Esterification of $\alpha$ -Benzyl-Boc-amides under Ambient Conditions. <b>2019</b> , 21, 6888-6892	17
981	Reaction-Based Enumeration, Active Learning, and Free Energy Calculations To Rapidly Explore Synthetically Tractable Chemical Space and Optimize Potency of Cyclin-Dependent Kinase 2 Inhibitors. <b>2019</b> , 59, 3782-3793	33
980	Synthesis and Cytotoxicity of N-(3,4-Dimethoxyphenyl)Ethylamides of N-Benzoyl- $\alpha$ -Amino Acids. <b>2019</b> , 55, 700-704	1
979	Metal-Free Transamidation of Secondary Amides by N-C Cleavage. <b>2019</b> , 84, 12091-12100	36
978	Photochemically-Mediated, Nickel-Catalyzed Synthesis of $\alpha$ -(Hetero)aryl Sulfamate Esters. <b>2019</b> , 21, 7049-7054	10
977	Single-Electron-Transfer-Induced C(sp)-N Couplings via C-C Bond Cleavage of Cycloketoxime Esters. <b>2019</b> , 84, 10145-10159	20
976	Tandem Oxidative Cyclocondensation towards 2,3-Disubstituted Quinazolinones in the Presence of [Bmim][BF <sub>4</sub> ] and Iodine. <b>2019</b> , 2019, 5887-5893	10
975	Ruthenium(0)-Catalyzed Cross-Coupling of Anilines with Organoboranes by Selective Carbon-Nitrogen Cleavage. <b>2019</b> , 9, 8171-8177	22
974	Rhodium-Catalyzed Synthesis of Amides from Functionalized Blocked Isocyanates. <b>2019</b> , 9, 8104-8109	6
973	LiCl-Accelerated Multimetallic Cross-Coupling of Aryl Chlorides with Aryl Triflates. <b>2019</b> , 141, 10978-10983	80
972	Ruthenium(0)-sequential catalysis for the synthesis of sterically hindered amines by C-H arylation/hydrosilylation. <b>2019</b> , 55, 9003-9006	12
971	Cu-Catalyzed Couplings of Heteroaryl Primary Amines and (Hetero)aryl Bromides with 6-Hydroxypicolinamide Ligands. <b>2019</b> , 23, 1538-1551	16
970	High-Throughput Discovery and Evaluation of a General Catalytic Method for $\alpha$ -Arylation of Weakly Nucleophilic Sulfonamides. <b>2019</b> , 21, 8981-8986	11
969	Visible-Light-Induced Alkoxylation of Quinoxalin-2(1H)-ones with Alcohols for the Synthesis of Heteroaryl Ethers. <b>2019</b> , 361, 5363-5370	32
968	2-Methyltetrahydrofuran (2-MeTHF): A Green Solvent for Pd/C-Catalyzed Amide and Ester Suzuki-Miyaura Cross-Coupling by Ni/O <sub>2</sub> Cleavage. <b>2019</b> , 361, 5654-5660	24
967	Elaborating Complex Heteroaryl-Containing Cycles via Enantioselective Palladium-Catalyzed Cycloadditions. <b>2019</b> , 131, 15298-15302	3
966	Site-Selective C-H Oxygenation via Aryl Sulfonium Salts. <b>2019</b> , 58, 16161-16166	57

965	Cu-Mediated Amination of (Hetero)Aryl C-H bonds with NH Azaheterocycles. <b>2019</b> , 58, 18141-18145	19
964	High Throughput Experimentation Using DESI-MS to Guide Continuous-Flow Synthesis. <b>2019</b> , 9, 14745	18
963	Elaborating Complex Heteroaryl-Containing Cycles via Enantioselective Palladium-Catalyzed Cycloadditions. <b>2019</b> , 58, 15154-15158	19
962	Direct Amidation of Carboxylic Acids with Nitroarenes. <b>2019</b> , 84, 13922-13934	11
961	An approach for constructing the S-box using the CML system. <b>2019</b> , 1303, 012090	2
960	Palladium-Catalyzed Amination of Aryl Halides. <b>2019</b> , 853-958	6
959	Geometric E-Z Isomerisation of Alkenyl Silanes by Selective Energy Transfer Catalysis: Stereodivergent Synthesis of Triarylethylenes via a Formal anti-Metallometallation. <b>2019</b> , 58, 18619-18626	34
958	Light Processing Enables Efficient Carbon-Based, All-Inorganic Planar CsPbI <sub>3</sub> Solar Cells with High Photovoltages. <b>2019</b> , 11, 2997-3005	81
957	Diffusion-Enhanced Amide Bond Formation on a Solid Support. <b>2019</b> , 23, 2733-2739	6
956	Copper-Catalyzed, N-Directed Csp-H Trifluoromethylthiolation (-SCF) and Trifluoromethylselenation (-SeCF). <b>2019</b> , 141, 18405-18410	56
955	Nickel-Catalyzed Domino Heck-Type Reactions Using Methyl Esters as Cross-Coupling Electrophiles. <b>2019</b> , 131, 18327-18332	8
954	Synthesis of Phenolic Compounds via Palladium Catalyzed C-H Functionalization of Arenes. <b>2019</b> , 14, 4534-4548	12
953	Mutagenic Impurities in 1-Hydroxybenzotriazole (HOBt). <b>2019</b> , 23, 2562-2566	3
952	Deoxofluorination of Aliphatic Carboxylic Acids: A Route to Trifluoromethyl-Substituted Derivatives. <b>2019</b> , 84, 16105-16115	12
951	A Pd-Catalyzed Three-Component Reaction and Hydrogenation Strategy to Prepare 2-Functionalized Cyclic Ethers Involving a Radical Initiating C(sp <sup>3</sup> )-H Activation. <b>2019</b> , 8, 2196-2200	4
950	Visible-Light-Initiated Cross-Dehydrogenative Coupling of Quinoxalin-2(1H)-ones and Simple Amides with Air as an Oxidant. <b>2019</b> , 7, 19993-19999	42
949	Ligand-Controlled Regiodivergent Hydroalkylation of Pyrrolines. <b>2019</b> , 131, 18690-18694	17
948	N-Arylation of Fluoroalkylamine and Trifluoroacetamide through Cu Catalysis. <b>2019</b> , 4, 12124-12127	

947	Commercial Pd/C-Catalyzed $\alpha$ -Methylation of Nitroarenes and Amines Using Methanol as Both C1 and H Source. <b>2019</b> , 84, 15389-15398	38
946	Site-Selective C-H Oxygenation via Aryl Sulfonium Salts. <b>2019</b> , 131, 16307-16312	15
945	Geometric E-Z Isomerisation of Alkenyl Silanes by Selective Energy Transfer Catalysis: Stereodivergent Synthesis of Triarylethylenes via a Formal anti-Metallometallation. <b>2019</b> , 131, 18792-18799	9
944	Cu-Mediated Amination of (Hetero)Aryl C-H bonds with NH Azaheterocycles. <b>2019</b> , 131, 18309-18313	4
943	Nickel-Catalyzed Domino Heck-Type Reactions Using Methyl Esters as Cross-Coupling Electrophiles. <b>2019</b> , 58, 18159-18164	29
942	Ligand-Controlled Regiodivergent Hydroalkylation of Pyrrolines. <b>2019</b> , 58, 18519-18523	48
941	One-Pot Synthesis of Symmetrical Tertiary and Secondary Amines from Carbonyl Compounds, Ammonium Carbonate and Carbon Monoxide as a Reductant. <b>2019</b> , 2019, 6557-6560	3
940	Reductive Amination in the Synthesis of Pharmaceuticals. <b>2019</b> , 119, 11857-11911	178
939	Pd-Catalyzed Cross-Coupling Reactions Promoted by Biaryl Phosphorinane Ligands. <b>2019</b> , 9, 11691-11708	29
938	Continuous flow solvent free organic synthesis involving solids (reactants/products) using a screw reactor. <b>2019</b> , 21, 5639-5646	22
937	Unified synthesis of diverse building blocks for application in the discovery of bioactive small molecules. <b>2019</b> , 75, 130513	2
936	Synthetic organic chemistry driven by artificial intelligence. <b>2019</b> , 3, 589-604	86
935	Copper-Catalyzed Three-Component Reaction of Alkynes, TMSN, and Ethers: Regiocontrollable Synthesis of N- and N-Oxyalkylated 1,2,3-Triazoles. <b>2019</b> , 21, 7218-7222	20
934	Visible-light-initiated manganese-catalyzed Giese addition of unactivated alkyl iodides to electron-poor olefins. <b>2019</b> , 55, 11707-11710	24
933	Expedient access to saturated nitrogen heterocycles by photoredox cyclization of imino-tethered dihydropyridines. <b>2019</b> , 10, 9591-9596	12
932	Catalytic Enantioselective Synthesis of Cyclobutenes from Alkynes and Alkenyl Derivatives. <b>2019</b> , 141, 15367-15377	44
931	Palladium-catalyzed decarbonylative Suzuki-Miyaura cross-coupling of amides by carbon-nitrogen bond activation. <b>2019</b> , 10, 9865-9871	49
930	Hindered dialkyl ether synthesis with electrogenerated carbocations. <b>2019</b> , 573, 398-402	136

929	Three-component difluoroalkylamination of alkenes mediated by photoredox and iron cooperative catalysis. <b>2019</b> , 17, 8541-8545	11
928	Visible-Light-Induced Copper-Catalyzed Intermolecular Markovnikov Hydroamination of Alkenes. <b>2019</b> , 21, 7873-7877	17
927	Stereochemical diversity in pyrrolidine synthesis by catalytic asymmetric 1,3-dipolar cycloaddition of azomethine ylides. <b>2019</b> , 55, 11979-11991	62
926	Development and Application of a Data-Driven Reaction Classification Model: Comparison of an Electronic Lab Notebook and Medicinal Chemistry Literature. <b>2019</b> , 59, 4167-4187	15
925	A family of radical halogenases for the engineering of amino-acid-based products. <b>2019</b> , 15, 1009-1016	47
924	Biaryl synthesis with arenediazonium salts: cross-coupling, CH-arylation and annulation reactions. <b>2019</b> , 48, 1150-1193	108
923	Oxalic Diamides and tert-Butoxide: Two Types of Ligands Enabling Practical Access to Alkyl Aryl Ethers via Cu-Catalyzed Coupling Reaction. <b>2019</b> , 141, 3541-3549	71
922	Nickel-Catalyzed Addition of Aryl Bromides to Aldehydes To Form Hindered Secondary Alcohols. <b>2019</b> , 141, 1823-1827	27
921	Manganese-mediated reductive amidation of esters with nitroarenes. <b>2019</b> , 6, 756-761	17
920	Urea-2,2-dihydroperoxypropane as a Novel and High Oxygen Content Alternative to Dihydroperoxypropane in Several Oxidation Reactions. <b>2019</b> , 4, 1576-1585	0
919	NiCl <sub>2</sub> -catalyzed radical cross decarboxylative coupling between arylpropionic acids and cyclic ethers. <b>2019</b> , 60, 613-616	5
918	Nickel-catalyzed regioselective C-H halogenation of electron-deficient arenes. <b>2019</b> , 43, 3462-3468	14
917	Graphene Oxide Immobilized Copper(II) Schiff Base Complex [GO@AF-SB-Cu]: A Versatile Catalyst for Chan-Lam Coupling Reaction. <b>2019</b> , 4, 1337-1345	14
916	Preparation and characterization of PEPPSI-palladium N-heterocyclic carbene complexes using benzimidazolium salts catalyzed SuzukiMiyaura cross coupling reaction and their antitumor and antimicrobial activities. <b>2019</b> , 72, 516-527	18
915	Palladium-Catalyzed C(sp <sup>3</sup> )-H Bond Functionalization of Aliphatic Amines. <b>2019</b> , 5, 1031-1058	120
914	Ir-Catalyzed Intermolecular Branch-Selective Allylic C-H Amidation of Unactivated Terminal Olefins. <b>2019</b> , 141, 2268-2273	105
913	Anthracene-rhodium complexes with metal coordination at the central ring - a new class of catalysts for reductive amination. <b>2018</b> , 17, 83-87	5
912	Palladium-catalyzed oxidative amidation of quinoxalin-2(1H)-ones with acetonitrile: a highly efficient strategy toward 3-amidated quinoxalin-2(1H)-ones. <b>2019</b> , 17, 876-884	35

911	Dehydroxylated amination accompanied by 1,2-sulfur immigration. <b>2019</b> , 6, 643-647	1
910	Copper-catalyzed regioselective cyclization of vinyl azides by gem-difluoromethylene for trisubstituted pyridines. <b>2019</b> , 6, 468-473	9
909	Chemoselective N-arylation of aminobenzene sulfonamides via copper catalysed Chan-Evans-Lam reactions. <b>2019</b> , 6, 1356-1360	13
908	Highly Chemoselective, Transition-Metal-Free Transamidation of Unactivated Amides and Direct Amidation of Alkyl Esters by N-C/O-C Cleavage. <b>2019</b> , 141, 11161-11172	98
907	Oxidative Amide Coupling from Functionally Diverse Alcohols and Amines Using Aerobic Copper/Nitroxyl Catalysis. <b>2019</b> , 131, 12339-12343	6
906	Oxidative Amide Coupling from Functionally Diverse Alcohols and Amines Using Aerobic Copper/Nitroxyl Catalysis. <b>2019</b> , 58, 12211-12215	16
905	ReO-Catalyzed Approach to Spirocyclic Ether Formation from Acyclic Precursors: Observation of Remote Stereinduction. <b>2019</b> , 21, 5064-5067	9
904	Crystal structure of 1,1'-dibenzyl-3,3'-dicyano-1,1',4,4'-tetrahydro-4,4'-bipyridine, C <sub>26</sub> H <sub>22</sub> N <sub>4</sub> . <b>2019</b> , 234, 793-794	
903	The Boron-Wittig Olefination of Aldehydes and Ketones with Bis[(pinacolato)boryl]methane: an Extended Reaction Scope. <b>2019</b> , 2019, 5624-5635	7
902	Merging photoredox catalysis with transition metal catalysis: Direct C4-H amination of 8-hydroxyquinoline derivatives. <b>2019</b> , 75, 3904-3910	0
901	Palladium-Catalyzed Aerobic Oxidative Coupling of Amides with Arylboronic Acids by Cooperative Catalysis. <b>2019</b> , 2019, 4357-4361	9
900	X-ray crystal structure, Hirshfeld surface analysis and DFT study on symmetrical trans-1,2-diformylidimide: An unusual One-pot condensation of formic acid and hydrazine hydrate mediated by metal(II) nitrate hexahydrates. <b>2019</b> , 22, 100239	1
899	Transition-metal free oxidative C-H etherification of acylanilines with alcohols through a radical pathway. <b>2019</b> , 17, 6346-6350	3
898	One-Step Synthesis of 3,4-Disubstituted 2-Oxazolidinones by Base-Catalyzed CO Fixation and Aza-Michael Addition. <b>2019</b> , 25, 10284-10289	10
897	Direct $\beta$ -Monofluoroalkenylation of Heteroatomic Alkanes via a Combination of Photoredox Catalysis and Hydrogen-Atom-Transfer Catalysis. <b>2019</b> , 21, 4585-4589	26
896	Carboxylate-Assisted Oxidative Addition to Aminoalkyl PdII Complexes: C(sp <sup>3</sup> ) $\beta$ Arylation of Alkylamines by Distinct PdII/PdIV Pathway. <b>2019</b> , 131, 9152-9157	5
895	Electrochemically Enabled Chan-Lam Couplings of Aryl Boronic Acids and Anilines. <b>2019</b> , 21, 4540-4543	20
894	Palladium-Catalyzed Amide Synthesis via Aminocarbonylation of Arylboronic Acids with Nitroarenes. <b>2019</b> , 21, 4878-4881	18

893	Transition-Metal-Free Aryl-Aryl Cross-Coupling: C-H Arylation of 2-Naphthols with Diaryliodonium Salts. <b>2019</b> , 25, 9619-9623	13
892	Synthesis of $\beta$ -Isoxazole Carbonyl Derivatives and their Analogues via Palladium-Catalyzed Sequential C(sp <sup>2</sup> )/C(sp <sup>2</sup> )/C(sp <sup>3</sup> ) Bond Formations. <b>2019</b> , 361, 3813-3823	11
891	l-(-)-Quebrachitol as a Ligand for Selective Copper(0)-Catalyzed N-Arylation of Nitrogen-Containing Heterocycles. <b>2019</b> , 84, 8160-8167	8
890	Synthesis of bicyclic 1,4-thiazepines as novel anti- agents. <b>2019</b> , 10, 1481-1487	3
889	Practical, metal-free remote heteroarylation of amides unactivated C(sp)-H bond functionalization. <b>2019</b> , 10, 6915-6919	52
888	Rh-Catalyzed Annulative Insertion of Terminal Olefin onto Pyridines via a C-H Activation Strategy Using Ethenesulfonyl Fluoride as Ethylene Provider. <b>2019</b> , 21, 4495-4499	9
887	Palladium-Catalyzed Template Directed C-5 Selective Olefination of Thiazoles. <b>2019</b> , 84, 8315-8321	25
886	Electrochemical anion pool synthesis of amides with concurrent benzyl ester synthesis. <b>2019</b> , 21, 3165-3171	7
885	N-triflyl-propiolamides: Preparation and transamidation reactions. <b>2019</b> , 75, 3586-3595	9
884	Scalable and Straightforward Synthesis of All Isomeric (Cyclo)alkylpiperidines. <b>2019</b> , 2019, 3636-3648	6
883	Metal-free thioesterification of amides generating acyl thioesters. <b>2019</b> , 43, 9384-9388	6
882	Cross-dehydrogenative coupling of 3,6-dihydro-2H-pyrans with 1,3-dicarbonyls and aryl moieties. <b>2019</b> , 60, 1547-1550	2
881	Scalable Synthesis of Biologically Relevant Spirocyclic Pyrrolidines. <b>2019</b> , 4, 7498-7515	18
880	Cobalt-Catalyzed Intermolecular Hydrofunctionalization of Alkenes: Evidence for a Bimetallic Pathway. <b>2019</b> , 141, 7250-7255	35
879	Rapid analytical characterization of high-throughput chemistry screens utilizing desorption electrospray ionization mass spectrometry. <b>2019</b> , 4, 1589-1594	17
878	Cu-Catalyzed Directed C7 $\beta$ Imidation of Indolines via Cross-Dehydrogenative Coupling. <b>2019</b> , 361, 3108-3113	18
877	Intermolekulare, verzweigt-selektive und redoxneutrale Cp*IrIII-katalysierte allylische C-H-Amidierung. <b>2019</b> , 131, 7191-7195	20
876	Methyl Esters as Cross-Coupling Electrophiles: Direct Synthesis of Amide Bonds. <b>2019</b> , 9, 4426-4433	42

875	Practical and regioselective amination of arenes using alkyl amines. <b>2019</b> , 11, 426-433		103
874	Nitrogen gets radical. <b>2019</b> , 11, 396-398		4
873	Overview of Recent Strategic Advances in Medicinal Chemistry. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 9375-9414	8.3	53
872	Decarboxylation with Carbon Monoxide: The Direct Conversion of Carboxylic Acids into Potent Acid Triflate Electrophiles. <b>2019</b> , 131, 5139-5143		1
871	Ni vs. Pd in Suzuki-Miyaura sp-sp cross-coupling: a head-to-head study in a comparable precatalyst/ligand system. <b>2019</b> , 17, 5055-5059		11
870	Carboxylate-Assisted Oxidative Addition to Aminoalkyl Pd Complexes: C(sp <sup>3</sup> )-H Arylation of Alkylamines by Distinct Pd/Pd Pathway. <b>2019</b> , 58, 9054-9059		23
869	[Pd(NHC)(acac)Cl]: Well-Defined, Air-Stable, and Readily Available Precatalysts for Suzuki and Buchwald-Hartwig Cross-coupling (Transamidation) of Amides and Esters by N-C/O-C Activation. <b>2019</b> , 21, 3304-3309		56
868	NH4I-promoted N-acylation of amines via the transamidation of DMF and DMA under metal-free conditions. <b>2019</b> , 60, 1426-1429		6
867	[3 + 3]-Cycloaddition of Diazocarbonyl Compounds and N-Tosylaziridines: Synthesis of Polysubstituted 2-H-1,4-Oxazines through Synergetic Catalysis of AgOTf/Cu(OAc). <b>2019</b> , 21, 2356-2359		13
866	Catalytic enantioselective cross-dehydrogenative coupling of 3,6-dihydro-2H-pyrans with aldehydes. <b>2019</b> , 6, 1448-1452		4
865	Intermolecular, Branch-Selective, and Redox-Neutral Cp*Ir-Catalyzed Allylic C-H Amidation. <b>2019</b> , 58, 7117-7121		85
864	Chromium-Catalyzed Activation of Acyl C-O Bonds with Magnesium for Amidation of Esters with Nitroarenes. <b>2019</b> , 21, 1912-1916		18
863	Strain-Release-Driven Homologation of Boronic Esters: Application to the Modular Synthesis of Azetidines. <b>2019</b> , 141, 4573-4578		65
862	Oxidative C-H alkynylation of 3,6-dihydro-2H-pyrans. <b>2019</b> , 30, 1432-1434		4
861	Cross-dehydrogenative coupling of secondary benzylic ethers with indoles and pyrroles. <b>2019</b> , 60, 1075-1078		6
860	Clickable coupling of carboxylic acids and amines at room temperature mediated by SOF: a significant breakthrough for the construction of amides and peptide linkages. <b>2019</b> , 17, 4087-4101		32
859	Process Intensification Strategies and Sustainability Analysis for Amidation Processing in the Pharmaceutical Industry. <b>2019</b> , 58, 4656-4666		5
858	Design, Synthesis and Biological Evaluation of Isoxazole-Based CK1 Inhibitors Modified with Chiral Pyrrolidine Scaffolds. <b>2019</b> , 24,		5

857	Decarbonylative Borylation of Amides by Palladium Catalysis. <b>2019</b> , 4, 4901-4907	23
856	O NMR and N NMR chemical shifts of sterically-hindered amides: ground-state destabilization in amide electrophilicity. <b>2019</b> , 55, 4423-4426	5
855	A methanol and protic ionic liquid Ugi multicomponent reaction path to cytotoxic $\alpha$ -phenylacetamido amides.. <b>2019</b> , 9, 7652-7663	5
854	Secondary amines as coupling partners in direct catalytic asymmetric reductive amination. <b>2019</b> , 10, 4509-4514	26
853	Direct oxidative C(sp <sup>3</sup> ) H cyanation of secondary benzylic ethers. <b>2019</b> , 30, 1241-1243	4
852	Silver-Catalyzed [3 + 3] Dipolar Cycloaddition of Trifluorodiazaoethane and Glycine Imines: Access to Highly Functionalized Trifluoromethyl-Substituted Triazines and Pyridines. <b>2019</b> , 9, 4600-4608	35
851	Direct Installation of a Silyl Linker on Ready-Made NHC Ligands: Immobilized NHC-Pd Complex for Buchwald-Hartwig Amination. <b>2019</b> , 38, 1872-1876	7
850	Choline Chloride/Urea as an Eco-Friendly Deep Eutectic Solvent for TCT-Mediated Amide Coupling at Room Temperature. <b>2019</b> , 4, 3985-3989	3
849	Ni-catalyzed Reductive Deaminative Arylation at sp Carbon Centers. <b>2019</b> , 21, 2947-2951	68
848	Identification of an Oxalamide Ligand for Copper-Catalyzed C <sub>3</sub> D Couplings from a Pharmaceutical Compound Library. <b>2019</b> , 11, 5748-5753	17
847	Transition-Metal-Free C-C, C-O, and C-N Cross-Couplings Enabled by Light. <b>2019</b> , 141, 6755-6764	55
846	Palladium/copper-catalyzed decarbonylative heteroarylation of amides via C=O bond activation. <b>2019</b> , 6, 1942-1947	24
845	Cobalt(II)-Catalyzed C <sub>8</sub> H alkoxylation of 1-naphthylamine derivatives with alcohols. <b>2019</b> , 75, 1541-1547	19
844	Mixed <i>er</i> -NHC/phosphine Pd(ii) complexes and their catalytic activity in the Buchwald-Hartwig reaction under solvent-free conditions. <b>2019</b> , 48, 3447-3452	24
843	Decarboxylation with Carbon Monoxide: The Direct Conversion of Carboxylic Acids into Potent Acid Triflate Electrophiles. <b>2019</b> , 58, 5085-5089	4
842	Visible Light Mediated C(sp <sup>3</sup> )-H Alkenylation of Cyclic Ethers Enabled by Aryl Ketone. <b>2019</b> , 11, 1606-1609	24
841	Substituent Effects on 3-Arylazoindole Photoswitches. <b>2019</b> , 84, 6565-6575	14
840	Copper-Catalyzed Intermolecular Carboamination of Alkenes Induced by Visible Light. <b>2019</b> , 21, 1699-1703	37

839	Direct Acyloxylation of C(sp)-H and C(sp)-X (X = Cl, Br) Bonds in Aromatic Amides Using Copper Bromide and 2-(4,5-Dihydro-oxazol-2-yl)-phenylamine. <b>2019</b> , 21, 1740-1743	8
838	Phosphazene Base tBu-P4 Catalyzed Methoxy-Alkoxy Exchange Reaction on (Hetero)Arenes. <b>2019</b> , 25, 6077-6081	16
837	All Non-Carbon B NO Exotic Heterocycles: Synthesis, Dynamics, and Catalysis. <b>2019</b> , 25, 4648-4653	26
836	A solid-supported arylboronic acid catalyst for direct amidation. <b>2019</b> , 55, 2916-2919	21
835	Recyclable Pd ionic catalyst coated on cordierite monolith for high TOF Heck coupling reaction. <b>2019</b> , 131, 1	7
834	Triflamides: Highly Reactive, Electronically Activated N-Sulfonyl Amides in Catalytic N-C(O) Amide Cross-Coupling. <b>2019</b> , 21, 1253-1257	24
833	Cu(II)-Catalyzed C-N Coupling of (Hetero)aryl Halides and -Nucleophiles Promoted by -Benzoin Oxime. <b>2019</b> , 24,	5
832	Solvent- and catalyst-free transamidations of unprotected glycosyl carboxamides. <b>2019</b> , 17, 9425-9429	1
831	Small molecule activation by multimetallic uranium complexes supported by siloxide ligands. <b>2019</b> , 55, 13031-13047	10
830	Palladium-catalyzed decarboxylative ortho-amidation of O-methyl ketoximes with oxamic acids. <b>2019</b> , 55, 12551-12554	6
829	CuI incorporated cobalt ferrite nanoparticles as a magnetically separable catalyst for oxidative amidation reaction. <b>2019</b> , 48, 16041-16052	6
828	Mechanistic Development and Recent Applications of the Chan-Lam Amination. <b>2019</b> , 119, 12491-12523	114
827	A Strategy for the Synthesis of Sulfonamides on DNA. <b>2019</b> , 21, 9909-9913	16
826	Synergistic Copper-Catalyzed Reductive Aminocarbonylation of Alkyl Iodides with Nitroarenes. <b>2019</b> , 21, 10106-10110	28
825	Methodologies in Spectral Tuning of DSSC Chromophores through Rational Design and Chemical-Structure Engineering. <b>2019</b> , 12,	2
824	Alkyl-C-C-Bindungs-bildung durch Nickel/Photoredox-Kreuzkupplung. <b>2019</b> , 131, 6212-6224	70
823	Facial Selectivities in Hydride Reductions of Hindered Endocyclic Iminium Ions. <b>2019</b> , 84, 273-281	2
822	Functionalized Allyl Aryl Ether Synthesis from Benzoic Acids Using a Dearomatization and Decarboxylative Allylation Approach. <b>2019</b> , 84, 653-665	4

821	Biocatalytic N-Alkylation of Amines Using Either Primary Alcohols or Carboxylic Acids via Reductive Aminase Cascades. <b>2019</b> , 141, 1201-1206	63
820	In situ palladium/N-heterocyclic carbene complex catalyzed carbonylative cross-coupling reactions of arylboronic acids with 2-bromopyridine under CO pressure: efficient synthesis of unsymmetrical arylpyridine ketones and their antimicrobial activities. <b>2019</b> , 44, 321-328	4
819	Metal-Free Cyclocarboamination of ortho-Formyl Phenylacetylenes with Secondary Amines: Access to 1,3-Diamino-1H-Indenes and 3-Amino-1-Indanones. <b>2019</b> , 361, 569-577	5
818	Synthesis of Sulfonimidamide-Based Amino Acid Building Blocks with Orthogonal Protecting Groups. <b>2019</b> , 2019, 1045-1057	16
817	Deprotection of N-Boc Groups under Continuous-Flow High-Temperature Conditions. <b>2019</b> , 84, 4846-4855	17
816	Carbonyl Compounds' Journey to Amide Bond Formation. <b>2019</b> , 14, 344-388	38
815	Aryl Boronic Acid Catalysed Dehydrative Substitution of Benzylic Alcohols for C-O Bond Formation. <b>2019</b> , 25, 3950-3956	27
814	Docking- and pharmacophore-based virtual screening for the identification of novel Mycobacterium tuberculosis protein tyrosine phosphatase B (MptpB) inhibitor with a thiobarbiturate scaffold. <b>2019</b> , 85, 229-239	10
813	Copper-Catalyzed Site-Selective Oxidative C-C Bond Cleavage of Simple Ketones for the Synthesis of Anilides and Paracetamol. <b>2019</b> , 361, 135-145	18
812	Computational Approach to Molecular Catalysis by 3d Transition Metals: Challenges and Opportunities. <b>2019</b> , 119, 2453-2523	157
811	Synthesis of Amides by Mild Palladium-Catalyzed Aminocarbonylation of Arylsilanes with Amines Enabled by Copper(II) Fluoride. <b>2019</b> , 84, 338-345	25
810	Synthesis of a 6-Aza-Isoindolinone-Based Inhibitor of Phosphoinositide 3-Kinase $\beta$ via Ruthenium-Catalyzed [2 + 2 + 2] Cyclotrimerization. <b>2019</b> , 10, 117-120	3
809	Intramolecular cascade annulation triggered by CH activation via rhodium hydride intermediate. <b>2019</b> , 463, 30-36	11
808	Sulfonamidophosphonates as new anti-mycobacterial chemotypes: Design, development of synthetic methodology, and biological evaluation. <b>2019</b> , 82, 246-252	14
807	Iron-Catalyzed C(sp <sup>2</sup> )-C(sp <sup>3</sup> ) Cross-Coupling of Chlorobenzamides with Alkyl Grignard Reagents: Development of Catalyst System, Synthetic Scope, and Application. <b>2019</b> , 361, 85-95	11
806	Alkyl Carbon-Carbon Bond Formation by Nickel/Photoredox Cross-Coupling. <b>2019</b> , 58, 6152-6163	294
805	Photoredox Catalysis for Silyl-Mediated C-H Alkylation of Heterocycles with Non-Activated Alkyl Bromides. <b>2020</b> , 2020, 1515-1522	14
804	Aromatic Chemistry in the Excited State: Facilitating Metal-Free Substitutions and Cross-Couplings. <b>2020</b> , 132, 1802-1812	4

803	Site-Selective Alkoxylation of Benzylic C-H Bonds by Photoredox Catalysis. <b>2020</b> , 132, 203-208	9
802	Site-Selective Alkoxylation of Benzylic C-H Bonds by Photoredox Catalysis. <b>2020</b> , 59, 197-202	45
801	Aromatic Chemistry in the Excited State: Facilitating Metal-Free Substitutions and Cross-Couplings. <b>2020</b> , 59, 1786-1796	33
800	Visible-Light-Induced Alkynylation of C-H Bonds of Ethers with Alkynyl Bromides without External Photocatalyst. <b>2020</b> , 2020, 1534-1538	5
799	Tackling Remote sp <sup>3</sup> C-H Functionalization via Ni-Catalyzed Chain-walking Reactions. <b>2020</b> , 60, 195-206	65
798	Photoinduced Decarboxylative Amino-Fluoroalkylation of Maleic Anhydride. <b>2020</b> , 26, 419-422	2
797	Following the oxidation state of organosulfur compounds with NMR: Experimental data versus DFT calculations and database-powered NMR prediction. <b>2020</b> , 1202, 127346	3
796	Transition-Metal-Free Three-Component Synthesis of Tertiary Aryl Amines from Nitro Compounds, Boronic Acids, and Trialkyl Phosphites. <b>2020</b> , 362, 111-117	7
795	Why we might be misusing process mass intensity (PMI) and a methodology to apply it effectively as a discovery level metric. <b>2020</b> , 22, 123-135	32
794	Effect of different coupling agents in the doping of graphite oxide with 3,3'-diaminobenzidine: textural, structural and electrical properties. <b>2020</b> , 7, 025603	4
793	Second basic pK <sub>a</sub> : An overlooked parameter in predicting phospholipidosis-inducing potential of diamines. <b>2020</b> , 30, 126933	1
792	Buchwald-Hartwig cross-coupling of amides (transamidation) by selective N-O cleavage mediated by air- and moisture-stable [Pd(NHC)(allyl)Cl] precatalysts: catalyst evaluation and mechanism. <b>2020</b> , 10, 710-716	35
791	Thermal stability, degradation kinetic and structural characterization of novel aromatic amide compounds. <b>2020</b> , 1205, 127645	1
790	High Fidelity Suzuki-Miyaura Coupling for the Synthesis of DNA Encoded Libraries Enabled by Micelle Forming Surfactants. <b>2020</b> , 31, 149-155	29
789	Copper catalyzed aryl amidation between N-Fmoc-protected amino-acid azides and aryl boronic acids. <b>2020</b> , 50, 506-515	1
788	Catalytic C(sp <sup>3</sup> )-H bond activation in tertiary alkylamines. <b>2020</b> , 12, 76-81	41
787	Visible Light-Induced Amide Bond Formation. <b>2020</b> , 22, 371-375	28
786	Scalable preparation of stable and reusable silica supported palladium nanoparticles as catalysts for N-alkylation of amines with alcohols. <b>2020</b> , 382, 141-149	17

785	Electrophotocatalytic C-H Functionalization of Ethers with High Regioselectivity. <b>2020</b> , 142, 1698-1703	74
784	Alkyne Linchpin Strategy for Drug:Pharmacophore Conjugation: Experimental and Computational Realization of a $\beta$ -Selective Inverse Sonogashira Coupling. <b>2020</b> , 142, 3762-3774	56
783	Phenylsilane and Silicon Tetraacetate: Versatile Promoters for Amide Synthesis. <b>2020</b> , 2020, 388-392	8
782	Catalytic Dehydrative Peptide Synthesis with gem-Diboronic Acids. <b>2020</b> , 10, 683-688	24
781	Process Development for the Rhodium-Catalyzed Reductive Amination in a Thermomorphic Multiphase System. <b>2020</b> , 24, 41-49	16
780	Ring-Opening Olefin Metathesis of Twisted Amides: Activation of Amide Bonds by C-C Cleavage. <b>2020</b> , 10, 737-742	2
779	Cross-Electrophile Coupling. <b>2020</b> , 183-222	30
778	Rethinking drug design in the artificial intelligence era. <b>2020</b> , 19, 353-364	179
777	Iodine and Brønsted acid catalyzed C-C bond cleavage of 1,3-diketones for the acylation of amines. <b>2020</b> , 50, 177-184	2
776	Spectroscopic, structural, electronic and bioactive characteristics of 3,5-bis(2,5-dimethylphenyl)pyridine (1): An experimental and theoretical investigations. <b>2020</b> , 1203, 127448	1
775	ATP Regeneration System in Chemoenzymatic Amide Bond Formation with Thermophilic CoA Ligase. <b>2020</b> , 12, 1184-1189	9
774	Cyclic tailor-made amino acids in the design of modern pharmaceuticals. <b>2020</b> , 208, 112736	20
773	Cobalt-catalyzed intramolecular decarbonylative coupling of acylindoles and diarylketones through the cleavage of C-C bonds. <b>2020</b> , 11, 12336-12340	10
772	Nucleophilic Aromatic Substitution of Unactivated Fluoroarenes Enabled by Organic Photoredox Catalysis. <b>2020</b> , 142, 17187-17194	29
771	Two Isostructural URJC-4 Materials: From Hydrogen Physisorption to Heterogeneous Reductive Amination through Hydrogen Molecule Activation at Low Pressure. <b>2020</b> , 59, 15733-15740	1
770	Is it time for biocatalysis in fragment-based drug discovery?. <b>2020</b> , 11, 11104-11112	10
769	Overcoming the Hurdles and Challenges Associated with Developing Continuous Industrial Processes. <b>2020</b> , 2020, 7398-7406	15
768	Redox surrogate methods for sustainable amine N-alkylation. <b>2020</b> , 30, 60-68	3

767	Can easy chemistry produce complex, diverse, and novel molecules?. <b>2020</b> , 25, 2174-2181	15
766	An unprecedented cobalt-catalyzed selective arylation of primary amines with aryl peroxides. <b>2020</b> , 61, 152399	2
765	Visible light-mediated transition metal-free esterification of amides with boronic acids. <b>2020</b> , 61, 152444	3
764	Expanding the Cyclopentadienyl Framework: Tc/Re Complexes with Orthogonal Functions for Bioconjugation. <b>2021</b> , 32, 1393-1398	2
763	A Widely Applicable Dual Catalytic System for Cross-Electrophile Coupling Enabled by Mechanistic Studies. <b>2020</b> , 10, 12642-12656	18
762	Catalytic enantioselective alkylation of 2-alkoxy-tetrahydrofurans. <b>2020</b> , 7, 2202-2206	1
761	The Most Common Functional Groups in Bioactive Molecules and How Their Popularity Has Evolved over Time. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 8408-8418	8.3 47
760	Automation of Synthesis in Medicinal Chemistry: Progress and Challenges. <b>2020</b> , 11, 1506-1513	5
759	Iridium-catalyzed enantioselective reductive amination of aromatic ketones. <b>2020</b> , 10, 5448-5452	6
758	Electrophilicity Scale of Activated Amides: O NMR and N NMR Chemical Shifts of Acyclic Twisted Amides in N-C(O) Cross-Coupling. <b>2020</b> , 26, 16246-16250	5
757	Mechanistic Insight into Palladium-Catalyzed $\text{EC}(\text{sp})\text{-H}$ Arylation of Alkylamines with 2-Iodobenzoic Acid: Role of the -Carboxylate Group. <b>2020</b> , 59, 18295-18304	2
756	Recent Advances in Homogeneous Catalysts for the Asymmetric Hydrogenation of Heteroarenes. <b>2020</b> , 10, 13834-13851	41
755	New Copper(II) Complexes of Pyridine-2-carboxaldehyde-N-(2-pyridyl)hydrazone and 2-Hydroxy-1-naphthaldehyde-semicarbazone: Synthesis, Characterization, DNA Binding and Antimicrobial Activity Studies. <b>2020</b> , 32, 2783-2792	2
754	Design and Scalable Synthesis of N-Alkylhydroxylamine Reagents for the Direct Iron-Catalyzed Installation of Medicinally Relevant Amines*. <b>2020</b> , 59, 21064-21071	19
753	Dual Nickel-/Palladium-Catalyzed Reductive Cross-Coupling Reactions between Two Phenol Derivatives. <b>2020</b> , 22, 6334-6338	9
752	Development of an Aryl Amination Catalyst with Broad Scope Guided by Consideration of Catalyst Stability. <b>2020</b> , 142, 15027-15037	21
751	Design and Scalable Synthesis of N-Alkylhydroxylamine Reagents for the Direct Iron-Catalyzed Installation of Medicinally Relevant Amines**. <b>2020</b> , 132, 21250-21257	3
750	Decarbonylative Suzuki-Miyaura Cross-Coupling of Aryl Chlorides. <b>2020</b> , 22, 6434-6440	14

749	Multi-step parallel synthesis enabled optimization of benzofuran derivatives as pan-genotypic non-nucleoside inhibitors of HCV NS5B. <b>2020</b> , 30, 127004	2
748	Applications of Quantum Chemistry in Pharmaceutical Process Development: Current State and Opportunities. <b>2020</b> , 24, 1496-1507	8
747	Catalytic reductive aminations using molecular hydrogen for synthesis of different kinds of amines. <b>2020</b> , 49, 6273-6328	84
746	Robust NHC-palladacycles-catalyzed SuzukiMiyaura cross-coupling of amides via C-N activation. <b>2020</b> , 1, 75-78	10
745	Application of Palladium Based Precatalytic Systems in the Suzuki-Miyaura Cross-Coupling Reactions of Chloro- Heterocycles. <b>2020</b> , 5, 9005-9016	9
744	Diethanolamine Boronic Esters: Development of a Simple and Standard Process for Boronic Ester Synthesis. <b>2020</b> , 24, 1683-1689	7
743	Simple Synthesis of Amides via Their Acid Chlorides in Aqueous TPGS-750-M. <b>2020</b> , 24, 1543-1548	7
742	Chemoselective Reductive Aminations in Aqueous Nanoreactors Using Parts per Million Level Pd/C Catalysis. <b>2020</b> , 22, 6324-6329	19
741	3,6-Di(pyridin-2-yl)-1,2,4,5-tetrazine (pytz) catalysed metal-free amide bond formation from thioacids and amines at room temperature. <b>2020</b> , 61, 152272	2
740	From Riluzole to Dexamipexole via Substituted-Benzothiazole Derivatives for Amyotrophic Lateral Sclerosis Disease Treatment: Case Studies. <b>2020</b> , 25,	6
739	Analysis of Benzenoid Substitution Patterns in Small Molecule Active Pharmaceutical Ingredients. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 13389-13396	8.3 12
738	High-Throughput Screening of Reductive Amination Reactions Using Desorption Electrospray Ionization Mass Spectrometry. <b>2020</b> , 24, 1647-1657	12
737	HARC as an open-shell strategy to bypass oxidative addition in Ullmann-Goldberg couplings. <b>2020</b> , 117, 21058-21064	16
736	Efficient cleavage of tertiary amide bonds radical-polar crossover using a copper(ii) bromide/Selectfluor hybrid system. <b>2020</b> , 11, 12323-12328	5
735	Room temperature clickable coupling electron deficient amines with sterically hindered carboxylic acids for the construction of amides. <b>2020</b> , 76, 131724	1
734	An efficient and flexible route to novel triazolopiperazine scaffolds. <b>2020</b> , 61, 152600	2
733	Online High-Performance Liquid Chromatography Analysis of BuchwaldHartwig Aminations from within an Inert Environment. <b>2020</b> , 10, 13236-13244	4
732	Fluoroalkyl-Substituted Cyclopropane Derivatives: Synthesis and Physicochemical Properties. <b>2020</b> , 85, 12692-12702	5

731	Practical Synthetic Method for Functionalized 1-Methyl-3/5-(trifluoromethyl)-1H-pyrazoles. <b>2020</b> , 24, 2619-2632	2
730	One-Pot Transfer Hydrogenation Reductive Amination of Aldehydes and Ketones by Iridium Complexes in Water. <b>2020</b> , 2020, 6387-6391	9
729	A decennary update on applications of metal nanoparticles (MNPs) in the synthesis of nitrogen- and oxygen-containing heterocyclic scaffolds.. <b>2020</b> , 10, 32740-32820	18
728	Recent Advancements on Transition-Metal-Catalyzed, Chelation-Induced ortho-Hydroxylation of Arenes. <b>2020</b> , 362, 5301-5351	12
727	A Facile Microwave and SnCl <sub>2</sub> Synthesis of 2,3-Dihydroquinazolin-4(1H)-ones. <b>2020</b> , 73, 1176	0
726	One-pot reductive amination of carbonyl compounds with nitro compounds over a Ni/NiO composite.. <b>2020</b> , 10, 32296-32300	7
725	Ring-opening functionalizations of unstrained cyclic amines enabled by difluorocarbene transfer. <b>2020</b> , 11, 4761	19
724	Exploring the behavior of the NFSI reagent as a nitrogen source. <b>2020</b> , 18, 7056-7073	5
723	Mild catalytic deoxygenation of amides promoted by thorium metallocene. <b>2020</b> , 49, 12835-12841	9
722	Copper-Catalyzed [2+2+1+1] Annulation for the Regioselective Synthesis of 2,6-Diarylpyridines via C1-Insertion and Subsequent Cyclization. <b>2020</b> , 5, 10144-10148	3
721	Differences in the Performance of Allyl Based Palladium Precatalysts for Suzuki-Miyaura Reactions. <b>2020</b> , 362, 5062-5078	8
720	Electrochemical Decarboxylative $\alpha$ -Alkylation of Heterocycles. <b>2020</b> , 22, 7594-7598	16
719	Tertiary Dialkyl Ether Synthesis via Reductive Photocatalytic Functionalization of Alkyl Enol Ethers. <b>2020</b> , 10, 11430-11437	11
718	CuI/2-Aminopyridine 1-Oxide Catalyzed Amination of Aryl Chlorides with Aliphatic Amines. <b>2020</b> , 22, 7486-7490	7
717	Stereoselective Formal Hydroamidation of Si-Substituted Arylacetylenes with DIBAL-H and Isocyanates: Synthesis of ( <i>o</i> )- and ( <i>p</i> )-Silyl- $\alpha$ -Unsaturated Amides. <b>2020</b> , 85, 12024-12035	4
716	DeepGraphMolGen, a multi-objective, computational strategy for generating molecules with desirable properties: a graph convolution and reinforcement learning approach. <b>2020</b> , 12, 53	18
715	Multigram Synthesis of Heterabicyclo[n.1.0]alkan-1-yl Trifluoroborates. <b>2020</b> ,	1
714	Dialkyl Ether Formation at High-Valent Nickel. <b>2020</b> , 142, 19540-19550	10

713	The preparation and applications of amides using electrosynthesis. <b>2020</b> , 22, 7737-7759	13
712	Mechanism, bonding nature of metal-nitrenoid, and selectivity for a nitrene-participating three-component carboamination of dienes: A DFT study. <b>2020</b> , 497, 111222	1
711	Nickel-catalyzed aminocarbonylation of Aryl/Alkenyl/Allyl (pseudo)halides with isocyanides and H <sub>2</sub> O. <b>2020</b> , 61, 152605	3
710	Site- and Enantiodifferentiating C(sp)-H Oxidation Enables Asymmetric Access to Structurally and Stereochemically Diverse Saturated Cyclic Ethers. <b>2020</b> , 142, 19346-19353	5
709	"Ring Breaker": Neural Network Driven Synthesis Prediction of the Ring System Chemical Space. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 8791-8808	8.3 9
708	A general carbonyl alkylative amination for tertiary amine synthesis. <b>2020</b> , 581, 415-420	37
707	Nickel-Catalyzed Synthesis of Dialkyl Ketones from the Coupling of N-Alkyl Pyridinium Salts with Activated Carboxylic Acids. <b>2020</b> , 59, 13484-13489	52
706	Copper-Catalyzed Oxidative Acetalization of Boronic Esters: An Umpolung Strategy for Cyclic Acetal Synthesis. <b>2020</b> , 85, 8230-8239	4
705	Hydroamination of isocyanates and isothiocyanates by alkaline earth metal initiators supported by a bulky iminopyrrolyl ligand. <b>2020</b> , 44, 9419-9428	5
704	Three-Component, Interrupted Radical Heck/Allylic Substitution Cascade Involving Unactivated Alkyl Bromides. <b>2020</b> , 142, 10173-10183	58
703	A General One-Pot Protocol for Hindered -Alkyl Azaheterocycles from Tertiary Carboxylic Acids. <b>2020</b> , 22, 4180-4184	6
702	Photocatalytic $\alpha$ -Tertiary Amine Synthesis via C-H Alkylation of Unmasked Primary Amines. <b>2020</b> , 59, 14986-14991	48
701	Highly Selective Room-Temperature Suzuki-Miyaura Coupling of Bromo-2-sulfonyloxy pyridines for Unsymmetrical Diarylpyridines. <b>2020</b> , 85, 7399-7412	0
700	-Acylcarbazoles and -Acylindoles: Electronically Activated Amides for N-C(O) Cross-Coupling by N to Ar Conjugation Switch. <b>2020</b> , 22, 4703-4709	13
699	Sulfonate Versus Sulfonate: Nickel and Palladium Multimetallic Cross-Electrophile Coupling of Aryl Triflates with Aryl Tosylates. <b>2020</b> , 142, 10634-10640	39
698	Oxidative amidation by Cu(II)-guanidine acetic acid immobilized on magnetized sawdust with eggshell as a natural base. <b>2020</b> , 44, 11777-11785	1
697	Rapid Model-Based Optimization of a Two-Enzyme System for Continuous Reductive Amination in Flow. <b>2020</b> , 24, 1969-1977	11
696	Enantioselective Cp Rh -Catalyzed Carboaminations of Acrylates. <b>2020</b> , 59, 14129-14133	31

695	Light-Promoted Nickel Catalysis: Etherification of Aryl Electrophiles with Alcohols Catalyzed by a Ni(II)-Aryl Complex. <b>2020</b> , 132, 12814-12819	11
694	Electrochemical Amide Bond Formation from Benzaldehydes and Amines: Oxidation by Cathodic-Generated Hydrogen Peroxide. <b>2020</b> , 2020, 3844-3846	4
693	Efficient C-H Amination Catalysis Using Nickel-Dipyrrin Complexes. <b>2020</b> , 142, 10996-11005	33
692	Rapid Elaboration of Fragments into Leads by X-ray Crystallographic Screening of Parallel Chemical Libraries (REFIL). <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 6863-6875	8.3 9
691	Aryl Diazonium Salt-Triggered Cyclization and Cycloaddition Reactions: Past, Present, and Future. <b>2020</b> , 38, 1132-1152	21
690	Copper-Catalyzed Borylative Couplings with C-N Electrophiles. <b>2020</b> , 59, 20278-20289	24
689	Ambient-Temperature Synthesis of Primary Amines via Reductive Amination of Carbonyl Compounds. <b>2020</b> , 10, 7763-7772	24
688	Enantioselective radical C-H amination for the synthesis of $\beta$ -amino alcohols. <b>2020</b> , 12, 697-704	53
687	Compound collections at KU 19472017: cheminformatic analysis and computational protein target prediction. <b>2020</b> , 29, 1211-1222	
686	Visible-light-induced dearomative oxamination of indole derivatives and dearomative amidation of phenol derivatives. <b>2020</b> , 56, 8436-8439	14
685	Palladium-Catalyzed Electrophilic Functionalization of Pyridine Derivatives through Phosphonium Salts. <b>2020</b> , 132, 16556	
684	Copper-Catalyzed Borylative Couplings with C-N Electrophiles. <b>2020</b> , 132, 20454-20465	8
683	Electrochemical Scaled-up Synthesis of Cyclic Encarbamates as Starting Materials for Medicinal Chemistry Relevant Building Blocks. <b>2020</b> , 362, 3229-3242	6
682	Enantioselective Cp <sup>*</sup> Rh(III)-Catalyzed Carboaminations of Acrylates. <b>2020</b> , 132, 14233-14237	11
681	Triethyl Phosphite/Benzoyl Peroxide Mediated Reductive Dealkylation of O-Benzoylhydroxylamines: A Cascade Synthesis of Secondary Amides. <b>2020</b> , 2020, 4235-4238	2
680	Cyclopropyl boronic derivatives in parallel synthesis of sp <sup>3</sup> -enriched compound libraries. <b>2020</b> , 151, 953-962	1
679	Transition metal-catalyzed C-N cross-coupling reaction of bromine-substituted pyranilidene derivatives: synthesis, characterization, and optical properties study of pyran-based chromophores. <b>2020</b> , 17, 2627-2636	0
678	A cobalt phosphide catalyst for the hydrogenation of nitriles. <b>2020</b> , 11, 6682-6689	28

677	Ruthenium Catalyzed Direct Asymmetric Reductive Amination of Simple Aliphatic Ketones Using Ammonium Iodide and Hydrogen. <b>2020</b> , 2020, 4796-4800	10
676	Alkyl perchlorates in the Ritter-type reaction. Synthesis of N-alkylamides. <b>2020</b> , 69, 980-985	1
675	Palladium-Catalyzed Electrophilic Functionalization of Pyridine Derivatives through Phosphonium Salts. <b>2020</b> , 59, 16414-16419	19
674	High-Throughput Experimentation and Continuous Flow Evaluation of Nucleophilic Aromatic Substitution Reactions. <b>2020</b> , 22, 184-196	14
673	Reductive amination using cobalt-based nanoparticles for synthesis of amines. <b>2020</b> , 15, 1313-1337	24
672	A novel use of catalytic zinc-hydroxyapatite columns for the selective deprotection of N-tert-butyloxycarbonyl (BOC) protecting group using flow chemistry. <b>2020</b> , 10, 377-387	2
671	Reusable Brønsted Acidic Ionic Liquid Efficiently Catalyzed N-Formylation and N-Acylation of Amines. <b>2020</b> , 8, 4353-4361	14
670	Boron-mediated directed aromatic C-H hydroxylation. <b>2020</b> , 11, 1316	23
669	A Versatile Approach to Dynamic Amide Bond Formation with Imine Nucleophiles. <b>2020</b> , 26, 5709-5716	3
668	-Acyl-glutarimides: Effect of Glutarimide Ring on the Structures of Fully Perpendicular Twisted Amides and N-C Bond Cross-Coupling. <b>2020</b> , 85, 5475-5485	12
667	Similarity and Competition between Biginelli and Hantzsch Reactions: an Opportunity for Modern Medicinal Chemistry. <b>2020</b> , 2020, 3954-3964	9
666	Rhodium-Catalyzed Addition of Organozinc Iodides to Carbon-11 Isocyanates. <b>2020</b> , 22, 2746-2750	5
665	BippyPhos: A Highly Versatile Ligand for Pd-Catalyzed C <sub>N</sub> , C <sub>D</sub> and C <sub>C</sub> Couplings. <b>2020</b> , 60, 294-302	3
664	Expanding the Medicinal Chemist Toolbox: Comparing Seven C(sp)-C(sp) Cross-Coupling Methods by Library Synthesis. <b>2020</b> , 11, 597-604	52
663	Current and Future Roles of Artificial Intelligence in Medicinal Chemistry Synthesis. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 8667-8682	8.3 53
662	Site-Selective Thiolation of (Multi)halogenated Heteroarenes. <b>2020</b> , 142, 6913-6919	15
661	Catalytic asymmetric synthesis of diazabicyclo[3.1.0]hexanes by 1,3-dipolar cycloaddition of azomethine ylides with azirines. <b>2020</b> , 56, 5050-5053	9
660	Aromatic C <sub>H</sub> Amination Using Alkyl Amines. <b>2020</b> , 2, 480-481	

659	ZnMe-Mediated, Direct Alkylation of Electron-Deficient N-Heteroarenes with 1,1-Diborylalkanes: Scope and Mechanism. <b>2020</b> , 142, 13235-13245	17
658	An Efficient Greener Approach for $\alpha$ -Acylation of Amines in Water Using Benzotriazole Chemistry. <b>2020</b> , 25,	2
657	Scope and Limitations of Reductive Amination Catalyzed by Half-Sandwich Iridium Complexes Under Mild Reaction Conditions. <b>2020</b> , 61, 152196-152196	5
656	Homogeneous cobalt-catalyzed deoxygenative hydrogenation of amides to amines. <b>2020</b> , 10, 6116-6128	8
655	Transition Metal-Free Aroylation of Diarylmethanes with N-Bn-N-Boc Arylamides and N-Acylpyrroles. <b>2020</b> , 362, 3423-3430	3
654	Copper in Efficient Synthesis of Aromatic Heterocycles with Single Heteroatom. <b>2020</b> , 2020, 6859-6869	9
653	Deaminative carbonylative coupling of alkylamines with styrenes under transition-metal-free conditions. <b>2020</b> , 56, 9182-9185	14
652	Unusual Reactivity of 4-Vinyl Isoxazoles in the Copper-Mediated Synthesis of Pyridines, Employing DMSO as a One-Carbon Surrogate. <b>2020</b> , 22, 5855-5860	8
651	Highly Selective and Divergent Acyl and Aryl Cross-Couplings of Amides via Ir-Catalyzed C-H Borylation/N-C(O) Activation. <b>2020</b> , 22, 6010-6015	14
650	Overcoming limitations in dual photoredox/nickel-catalysed C-N cross-couplings due to catalyst deactivation. <b>2020</b> , 3, 611-620	54
649	Mechanism of the Manolikakes Enamide-Based Domino Reaction for the Stereospecific Construction of Tetrahydropyrans. <b>2020</b> , 85, 3806-3811	3
648	Amide Synthesis by Nickel/Photoredox-Catalyzed Direct Carbamoylation of (Hetero)Aryl Bromides. <b>2020</b> , 59, 5248-5253	43
647	Heavy metal orchestration. <b>2020</b> , 12, 223-224	2
646	Repurposing fallen leaves to bio-based reaction medium for hydration, hydroxylation, carbon-carbon and carbon-nitrogen bond formation reactions. <b>2020</b> , 15, 100225	11
645	New Strategies for the Transition-Metal Catalyzed Synthesis of Aliphatic Amines. <b>2020</b> , 120, 2613-2692	246
644	External oxidant-free alkylation of quinoline and pyridine derivatives. <b>2020</b> , 18, 1738-1742	3
643	Polarity Umpolung Strategy for the Radical Alkylation of Alkenes. <b>2020</b> , 132, 8272-8279	15
642	Palladium-catalyzed aminocarbonylation of 2-phenylimidazo[1,2-a] pyridines using chloroform as carbon monoxide source and their mechanistic studies. <b>2020</b> , 76, 131060	4

641	Silver-Catalyzed Activation of Terminal Alkynes for Synthesizing Nitrogen-Containing Molecules. <b>2020</b> , 53, 662-675	33
640	General C(sp)-C(sp) Cross-Electrophile Coupling Reactions Enabled by Overcharge Protection of Homogeneous Electrocatalysts. <b>2020</b> , 142, 5884-5893	44
639	A General C(sp)-C(sp) Cross-Coupling of Benzyl Sulfonylhydrazones with Alkyl Boronic Acids. <b>2020</b> , 22, 2271-2275	13
638	Arenesulfonyl Fluoride Synthesis via Copper-Catalyzed Fluorosulfonylation of Arenediazonium Salts. <b>2020</b> , 22, 2281-2286	53
637	Iridium-Catalyzed Enantioselective and Diastereoselective Hydrogenation of 1,3-Disubstituted Isoquinolines. <b>2020</b> , 10, 3241-3248	19
636	Direct amidation of non-activated carboxylic acid and amine derivatives catalyzed by TiCp <sub>2</sub> Cl <sub>2</sub> . <b>2020</b> , 34, e5568	1
635	Zn-Catalyzed Nicotinate-Directed Transamidations in Peptide Synthesis. <b>2020</b> , 10, 4280-4289	12
634	Amide Synthesis by Nickel/Photoredox-Catalyzed Direct Carbamoylation of (Hetero)Aryl Bromides. <b>2020</b> , 132, 5286-5291	14
633	Exploring Homogeneous Conditions for Mild Buchwald-Hartwig Amination in Batch and Flow. <b>2020</b> , 24, 1948-1954	19
632	Rapid Access to Hindered $\alpha$ -Amino Acid Derivatives and Benzodiazepin-3-ones from Aza-Oxyallyl Cations. <b>2020</b> , 22, 1420-1425	17
631	Direct Catalytic Conversion of Furfural to Furan-derived Amines in the Presence of Ru-based Catalyst. <b>2020</b> , 13, 1699-1704	11
630	Intermolecular Diels-Alder Cycloaddition/Cross-Coupling Sequences of 2-Bromo-1,3-butadienes. <b>2020</b> , 22, 1022-1027	2
629	Application of triazoles as bioisosteres and linkers in the development of microtubule targeting agents. <b>2020</b> , 11, 327-348	23
628	Nickel-Catalyzed Deaminative Acylation of Activated Aliphatic Amines with Aromatic Amides via C-N Bond Activation. <b>2020</b> , 22, 950-955	36
627	Metal-free photoredox-catalysed formal C <sub>H</sub> /C <sub>H</sub> coupling of arenes enabled by interrupted Pummerer activation. <b>2020</b> , 3, 163-169	75
626	C-N Coupling of DNA-Conjugated (Hetero)aryl Bromides and Chlorides for DNA-Encoded Chemical Library Synthesis. <b>2020</b> , 31, 770-780	24
625	Aliphatic $\alpha$ -Boryl- $\alpha$ -bromoketones: Synthesis and Reactivity. <b>2020</b> , 2020, 3367-3377	4
624	A polynuclear Cu(II) complex for real time monitoring of mitochondrial cytochrome C release during cellular apoptosis. <b>2020</b> , 56, 6563-6566	4

623	Polyphenylene networks containing triptycene units: Promising porous materials for CO <sub>2</sub> , CH <sub>4</sub> , and H <sub>2</sub> adsorption. <b>2020</b> , 303, 110256	6
622	Light-Promoted Nickel Catalysis: Etherification of Aryl Electrophiles with Alcohols Catalyzed by a Ni-Aryl Complex. <b>2020</b> , 59, 12714-12719	41
621	gem-Difluorocyclopropanation of Alkenyl Trifluoroborates with the CF <sub>3</sub> SiMe <sub>3</sub> Nal System. <b>2020</b> , 2020, 2217-2224	7
620	Multicomponent Reaction of Pyridinium Salts, $\beta$ -Nitrostyrenes and Ammonium Acetate under the DBU/Acetic Acid System: Access to 2,4,6-Triarylpyridine Derivatives. <b>2020</b> , 5, 3600-3604	3
619	N-Acyl-5,5-Dimethylhydantoin: Mild Acyl-Transfer Reagents for the Synthesis of Ketones Using Pd/EPPSI or Pd/Phosphine Catalysts. <b>2020</b> , 24, 1043-1051	3
618	Applications of 2-Chloro-3,3,3-trifluoroprop-1-ene (HCFO-1233xf): A Rapid Entry to Various $\beta$ -Substituted-trifluoromethyl-ethenes. <b>2020</b> , 22, 3479-3484	4
617	Silver-catalyzed direct C-H oxidative carbamoylation of quinolines with oxamic acids. <b>2020</b> , 18, 2747-2757	8
616	Visible light induced 3-position-selective addition of arylpropionic acids with ethers via C(sp)-H functionalization. <b>2020</b> , 18, 3258-3262	1
615	Microwave-Assisted Catalytic Method for a Green Synthesis of Amides Directly from Amines and Carboxylic Acids. <b>2020</b> , 25,	9
614	Contribution of Organofluorine Compounds to Pharmaceuticals. <b>2020</b> , 5, 10633-10640	310
613	Metal-free Nucleophilic Alkoxylation of in Situ-Generated Azaoxyallyl Cations: Synthesis of Hindered Dialkyl Ether Derivatives. <b>2020</b> , 9, 914-917	2
612	Synthesis of aryl ethers of carbohydrates via reaction with arynes: selective O-arylation of trans-vicinal dihydroxyl groups in carbohydrates. <b>2020</b> , 18, 4174-4177	4
611	Pyridine tetrafluoro- $\beta$ -sulfanyl chlorides: spontaneous addition to alkynes and alkenes in the presence or absence of photo-irradiation. <b>2020</b> , 7, 1276-1282	3
610	Synthesis and biological evaluation of new indole and pyrrole carboxamides based on amino acids. <b>2020</b> , 2019, 163-175	1
609	Chemoselective Amide-Forming Ligation Between Acylsilanes and Hydroxylamines Under Aqueous Conditions. <b>2021</b> , 133, 7100-7105	2
608	Expedient Synthesis of 2-Iminothiazolidines via Telescoping Reactions Including Iron-Catalyzed Nitrene Transfer and Domino Ring-Opening Cyclization (DROC). <b>2021</b> , 2021, 443-448	2
607	Copper-Catalyzed Enantioconvergent Cross-Coupling of Racemic Alkyl Bromides with Azole C(sp <sup>2</sup> ) $\pi$ Bonds. <b>2021</b> , 133, 384-388	2
606	Cobalt/HC Catalyzed C(sp <sup>2</sup> ) $\pi$ (sp <sup>3</sup> ) and C(sp <sup>2</sup> ) $\pi$ (sp <sup>2</sup> ) Kumada Cross-Coupling of Aryl Tosylates with Alkyl and Aryl Grignard Reagents. <b>2021</b> , 13, 202-206	6

605	Carboxyboronate as a Versatile In Situ CO Surrogate in Palladium-Catalyzed Carbonylative Transformations. <b>2021</b> , 60, 4342-4349	9
604	Reductive Deuteration of Aromatic Esters for the Synthesis of $\beta$ -Dideuterio Benzyl Alcohols Using D <sub>2</sub> O as Deuterium Source. <b>2021</b> , 32, 51-56	7
603	Heterocyclization Reagents for Rapid Assembly of N-Fused Heteroarenes from Alkenes. <b>2021</b> , 133, 3758-3763	1
602	Preparation and catalytic evaluation of a palladium catalyst deposited over modified clinoptilolite (Pd@MCP) for chemoselective N-formylation and N-acylation of amines. <b>2021</b> , 1225, 129076	10
601	Ruthenium (II) Catalyzed C(sp <sup>2</sup> )-H Bond Alkenylation of 2-Arylbenzo[d]oxazole and 2-Arylbenzo[d]thiazole with Unactivated Olefins. <b>2021</b> , 16, 87-96	6
600	Hydrogen-bond-assisted transition-metal-free catalytic transformation of amides to esters. <b>2021</b> , 64, 66-71	4
599	PIFA-Mediated Cross-Dehydrogenative Coupling of N-Heteroarenes with Cyclic Ethers: Ethanol as an Efficient Promoter. <b>2021</b> , 2021, 411-421	6
598	The 2-Pyridyl Problem: Challenging Nucleophiles in Cross-Coupling Arylations. <b>2021</b> , 133, 11168-11191	5
597	Traceless selenocarboxylates for the one-pot synthesis of amides and derivatives. <b>2021</b> , 79, 131834	0
596	Development of Scalable Routes to 1-Bicyclo[1.1.1]pentylpyrazoles. <b>2021</b> , 25, 642-647	8
595	Engineered Enzymes Enable Selective N-Alkylation of Pyrazoles With Simple Haloalkanes. <b>2021</b> , 60, 5554-5560	16
594	Design, synthesis, and biological evaluation of benzo[d]imidazole-2-carboxamides as new anti-TB agents. <b>2021</b> , 107, 104538	12
593	Reagent and Catalyst Capsules: A Chemical Delivery System for Reaction Screening and Parallel Synthesis. <b>2021</b> , 86, 1357-1370	11
592	Ni P Nanoalloy as an Air-Stable and Versatile Hydrogenation Catalyst in Water: P-Alloying Strategy for Designing Smart Catalysts. <b>2021</b> , 27, 4439-4446	8
591	Chromium-Catalyzed Ligand-Free Amidation of Esters with Anilines. <b>2021</b> , 94, 762-766	1
590	Carboxyboronate as a Versatile In Situ CO Surrogate in Palladium-Catalyzed Carbonylative Transformations. <b>2021</b> , 133, 4388-4395	0
589	Efficient unified synthesis of diverse bridged polycyclic scaffolds using a complexity-generating 'stitching' annulation approach. <b>2021</b> , 57, 599-602	2
588	Scalable Continuous Synthesis of Organozinc Reagents and Their Immediate Subsequent Coupling Reactions. <b>2021</b> , 25, 427-433	2

587	Green Solvent Selection for SuzukiMiyaura Coupling of Amides. <b>2021</b> , 9, 552-559	9
586	Modifizierte Enzyme ermöglichen die selektive N-Alkylierung von Pyrazolen unter Verwendung einfacher Halogenalkane. <b>2021</b> , 133, 5614-5620	5
585	Synthesis of amide derivatives for electron deficient amines and functionalized carboxylic acids using EDC and DMAP and a catalytic amount of HOBt as the coupling reagents. <b>2021</b> , 63,	3
584	Synthesis and X-ray crystallographic analysis of free base and hexafluorophosphate salts of 3,4-dihydroisoquinolines from the BischlerNapieralski reaction. <b>2021</b> , 45, 1565-1572	2
583	Beyond osmium: progress in 1,2-amino oxygenation of alkenes, 1,3-dienes, alkynes, and allenes. <b>2021</b> , 19, 46-81	11
582	Heterocyclization Reagents for Rapid Assembly of N-Fused Heteroarenes from Alkenes. <b>2021</b> , 60, 3714-3719	12
581	Chemoselective Amide-Forming Ligation Between Acylsilanes and Hydroxylamines Under Aqueous Conditions. <b>2021</b> , 60, 7024-7029	4
580	Copper-Catalyzed Enantioconvergent Cross-Coupling of Racemic Alkyl Bromides with Azole C(sp <sup>3</sup> )-H Bonds. <b>2021</b> , 60, 380-384	18
579	Computational Mapping of Dirhodium(II) Catalysts. <b>2021</b> , 27, 2402-2409	3
578	An efficient Pd-catalyzed intramolecular cyclization reaction followed by formation of benzimidazole derivatives: Synthesis of novel quinolin-fused benzo[d] azeto[1,2-a]benzimidazole analogues. <b>2021</b> , 51, 81-93	1
577	The 2-Pyridyl Problem: Challenging Nucleophiles in Cross-Coupling Arylations. <b>2021</b> , 60, 11068-11091	37
576	Practical one-pot amidation of -Alloc-, -Boc-, and -Cbz protected amines under mild conditions.. <b>2021</b> , 11, 15890-15895	0
575	Deaminative carbonylative thioesterification of activated alkylamines with thiophenols under transition-metal-free conditions. <b>2021</b> , 8, 670-675	2
574	Visible light promoted tandem dehydrogenation-deaminative cyclocondensation under aerobic conditions for the synthesis of 2-aryl benzimidazoles/quinoxalines from ortho-phenylenediamines and arylmethyl/ethyl amines. <b>2021</b> , 45, 4569-4573	4
573	NaOTs-promoted transition metal-free C-N bond cleavage to form C-X (X = N, O, S) bonds. <b>2021</b> , 19, 8566-8571	1
572	Aerobic oxidation of primary amines to amides catalyzed by an annulated mesoionic carbene (MIC) stabilized Ru complex.	1
571	Highly efficient on-DNA amide couplings promoted by micelle forming surfactants for the synthesis of DNA encoded libraries. <b>2021</b> , 12, 9475-9484	8
570	Direct synthesis of amides and imines by dehydrogenative homo or cross-coupling of amines and alcohols catalyzed by Cu-MOF.. <b>2021</b> , 11, 20788-20793	3

- 569 Direct conversion of secondary propargyl alcohols into 1,3-di-arylpropanone via DBU promoted redox isomerization and palladium assisted chemoselective hydrogenation in a single pot operation. 0
- 568 Advances in transition metal-free deborylative transformations of  $\alpha$ -diborylalkanes. **2021**, 57, 4346-4353 10
- 567 Efficient methylation of anilines with methanol catalysed by cyclometalated ruthenium complexes. **2021**, 11, 2512-2517 9
- 566 A practical and sustainable protocol for direct amidation of unactivated esters under transition-metal-free and solvent-free conditions. **2021**, 23, 3972-3982 6
- 565 B(CF)<sub>3</sub>-catalyzed tandem protonation/deuteration and reduction of  $\alpha$ -formed enamines. **2021**, 19, 4032-4036 3
- 564 Copper-grafted Zagrouasian natural asphalt sulfonate (Cu-Zagronas): as a novel heterogeneous carbonious nanocatalyst for the synthesis of anilines and phenols. **2021**, 132, 261-277 3
- 563 Overcoming Kinetic and Thermodynamic Challenges of Classic Cope Rearrangements. **2021**, 86, 2632-2643 4
- 562 Recent Advances in the Development of Catalytic Methods that Construct Medium-ring Lactams, Partially Saturated Benzazepines and their Derivatives. **2021**, 53, 1734-1748 3
- 561 Photoinduced Palladium-Catalyzed Dicarbofunctionalization of Terminal Alkynes. **2021**, 27, 3694-3699 9
- 560 Efficient microwave-assisted Suzuki-Miyaura cross-coupling reaction of 3-bromo pyrazolo[1,5-a]pyrimidin-5(4H)-one: towards a new access to 3,5-diarylated 7-(trifluoromethyl)pyrazolo[1,5-a]pyrimidine derivatives. **2021**, 11, 1287-1302 7
- 559 Pd-catalysed  $\alpha$ -selective C(sp)-H arylation of simple amides. **2021**, 57, 8055-8058 2
- 558 Organic synthesis via Kolbe and related non-Kolbe electrolysis: an enabling electro-strategy. **2021**, 6, 1342-1366 4
- 557 Trialkylammonium salt degradation: implications for methylation and cross-coupling. **2021**, 12, 6949-6963 5
- 556 Reductive amination of ketones/aldehydes with amines using BHN(CH<sub>3</sub>) as a reductant. **2021**, 57, 8588-8591 2
- 555 Direct amidation of acid fluorides using germanium amides. **2021**, 50, 4490-4493
- 554 A site-selective and stereospecific cascade Suzuki-Miyaura annulation of alkyl 1,2-bisboronic esters and 2,2'-dihalo 1,1'-biaryls. **2021**, 57, 3909-3912 2
- 553 Increasing saturation: development of broadly applicable photocatalytic Csp<sup>2</sup>-Csp<sup>3</sup> cross-couplings of alkyl trifluoroborates and (hetero)aryl bromides for array synthesis. **2021**, 6, 1666-1676 0
- 552 Different Bonds Cleavage of Arenesulfonates: Access to Diverse Aryl Ethers. **2021**, 79, 908 1

551	A palladium-catalyzed approach to allenic aromatic ethers and first total synthesis of terricollene A. <b>2021</b> , 12, 9347-9351	0
550	Fragment-based drug discovery: opportunities for organic synthesis. <b>2020</b> , 12, 321-329	14
549	Mechanistic studies of Cp*Ir(III)/Cp*Rh(III)-catalyzed branch-selective allylic C-H amidation: why is Cp*Ir(III) superior to Cp*Rh(III)? <b>2021</b> , 19, 3850-3858	3
548	Recent developments in decarboxylative C(aryl)-X bond formation from (hetero)aryl carboxylic acids. <b>2021</b> , 19, 5476-5500	2
547	Transamidation of Amides and Amidation of Esters by Selective N-C(O)/O-C(O) Cleavage Mediated by Air- and Moisture-Stable Half-Sandwich Nickel(II)-NHC Complexes. <b>2021</b> , 26,	3
546	Flow Chemistry in Drug Discovery: Challenges and Opportunities. <b>2021</b> , 1	
545	Visible-light-induced direct construction of amide bond from carboxylic acids with amines in aqueous solution. <b>2021</b> , 65, 152801	2
544	Defining and Exploring Chemical Spaces. <b>2021</b> , 3, 133-145	16
543	Three-component radical homo Mannich reaction. <b>2021</b> , 12, 1006	6
542	Controlled Relay Process to Access N-Centered Radicals for Catalyst-free Amidation of Aldehydes under Visible Light. <b>2021</b> , 7, 495-508	15
541	Deoxygenative C2-heteroarylation of quinoline -oxides: facile access to triazolylquinolines. <b>2021</b> , 17, 485-493	7
540	Recent Advances in the Synthesis of Arylamines in the Light of Application in Pharmaceutical and Chemical Industry. <b>2021</b> , 377-444	
539	Palladium Catalyzed Cascade Azidation/Carbonylation of Aryl Halides with Sodium Azide for the Synthesis of Amides. <b>2021</b> , 16, 503-506	5
538	Pyrazole Scaffold Synthesis, Functionalization, and Applications in Alzheimer's Disease and Parkinson's Disease Treatment (2011-2020). <b>2021</b> , 26,	13
537	Palladium Catalyzed Aminocarbonylation of Benzylic Ammonium Triflates with Nitroarenes: Synthesis of Phenylacetamides. <b>2021</b> , 363, 2061-2065	4
536	Novel substituted triazolo benzodiazepine scaffolds to explore chemical space. <b>2021</b> , 66, 152828	3
535	Intermolecular Crossed [2 + 2] Cycloaddition Promoted by Visible-Light Triplet Photosensitization: Expedient Access to Polysubstituted 2-Oxaspiro[3.3]heptanes. <b>2021</b> , 143, 4055-4063	10
534	One-Pot Synthesis of 1,5-Diketones under a Transition-Metal-Free Condition: Application in the Synthesis of 2,4,6-Triaryl Pyridine Derivatives. <b>2021</b> , 6, 7296-7311	7

533	Chemistry Informer Libraries: Conception, Early Experience, and Role in the Future of Cheminformatics. <b>2021</b> , 54, 1586-1596	22
532	Gains from no real PAINS: Where 'Fair Trial Strategy' stands in the development of multi-target ligands.. <b>2021</b> , 11, 3417-3432	2
531	π-Substituted Alkenyl Heteroarenes as Dipolarophiles in the Cu(I)-Catalyzed Asymmetric 1,3-Dipolar Cycloaddition of Azomethine Ylides Empowered by a Dual Activation Strategy: Stereoselectivity and Mechanistic Insight. <b>2021</b> , 143, 3519-3535	11
530	The Suzuki-Miyaura reaction of BPin-substituted F-BODIPYs with aryl halides. <b>2021</b> , 99, 287-294	1
529	Photoinduced Metal-Free α(sp <sup>3</sup> ) Carbamoylation of Saturated Aza-Heterocycles via Rationally Designed Organic Photocatalyst. <b>2021</b> , 11, 3466-3472	15
528	Enzymkatalysierte sp <sup>3</sup> e Modifizierungen: Besser sp <sup>3</sup> e als nie. <b>2021</b> , 133, 16962-16993	4
527	Iron-catalyzed [4 + 2] annulation of α-unsaturated ketoxime acetates with enaminones toward functionalized pyridines. <b>2021</b> , 2, 237-237	3
526	Semi-Synthesis of Small Molecules of Aminocarbazoles: Tumor Growth Inhibition and Potential Impact on p53. <b>2021</b> , 26,	2
525	Leveraging conformational control about a potential atropisomeric axis as a strategy in medical chemistry. <b>2021</b> , 13, 443-446	3
524	Oxalohydrazide Ligands for Copper-Catalyzed C-O Coupling Reactions with High Turnover Numbers. <b>2021</b> , 60, 8203-8211	15
523	Oxalohydrazide Ligands for Copper-Catalyzed C-O Coupling Reactions with High Turnover Numbers. <b>2021</b> , 133, 8284-8292	2
522	Enzymatic Late-Stage Modifications: Better Late Than Never. <b>2021</b> , 60, 16824-16855	22
521	3-(tert-Butyl)-N-(4-methoxybenzyl)-1-methyl-1H-pyrazol-5-amine. <b>2021</b> , 2021, M1196	2
520	Incorporation of the pentafluorosulfanyl group through common synthetic transformations. <b>2021</b> , 152, 449-459	2
519	Investigation of effect of ultrasound on immobilized <i>C. rugosa</i> lipase: Synthesis of biomass based furfuryl derivative and green metrics evaluation study. <b>2021</b> , 144, 109738	3
518	Automation and computer-assisted planning for chemical synthesis. <b>2021</b> , 1,	20
517	Ultrahigh-Throughput Experimentation for Information-Rich Chemical Synthesis. <b>2021</b> , 54, 2337-2346	8
516	Oxidative Addition of Aryl and Alkyl Halides to a Reduced Iron Pincer Complex. <b>2021</b> , 143, 5928-5936	5

515	A Dicopper Nitrenoid by Oxidation of a CuCu Core: Synthesis, Electronic Structure, and Reactivity. <b>2021</b> , 143, 7135-7143	1
514	Mediator-Enabled Electrocatalysis with Ligandless Copper for Anaerobic Chan-Lam Coupling Reactions. <b>2021</b> , 143, 6257-6265	12
513	Artificial Intelligence in Medicinal Chemistry. 1-19	
512	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <b>2021</b> , 60, 10690-10699	22
511	Bifunctional Urea/Hg(OAc)-Mediated Synthesis of 4-Aryl-6-oxycarbonyl-2-pyrones and 2-Pyridones from Dithiomalonate and $\alpha,\beta$ -Unsaturated $\beta$ -Keto Esters. <b>2021</b> , 86, 6001-6014	2
510	Co(CO) as a Solid CO (g) Source for the Amino Carbonylation of (Hetero)aryl Halides with Highly Deactivated (Hetero)arylamines. <b>2021</b> , 86, 5530-5537	2
509	Reductive Activation and Hydrofunctionalization of Olefins by Multiphoton Tandem Photoredox Catalysis. <b>2021</b> , 11, 5472-5480	8
508	NMR Quantification of Hydrogen-Bond-Accepting Ability for Organic Molecules. <b>2021</b> , 86, 6031-6043	5
507	Oxidative Three-Component Carboamination of Vinylarenes with Alkylboronic Acids. <b>2021</b> , 11, 5166-5171	10
506	Recent Advances in Chemistry Technologies and Applications to Medicinal Chemistry. 1-78	
505	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <b>2021</b> , 133, 10785-10794	2
504	Rh(III)-Catalyzed Regioselective C8-Alkylation of Quinoline -Oxides with Maleimides and Acrylates. <b>2021</b> , 86, 6612-6621	5
503	Enantioselective Catalytic C-H Amidations: An Highlight. <b>2021</b> , 11, 471	5
502	A radical approach for the selective C-H borylation of azines. <b>2021</b> , 595, 677-683	21
501	Development of Continuous Flow Systems to Access Secondary Amines Through Previously Incompatible Biocatalytic Cascades*. <b>2021</b> , 60, 18660-18665	15
500	Selectfluor-Enabled C(sp)-H Alkoxylation of 3-Methylfuranocoumarins. <b>2021</b> , 86, 7864-7871	1
499	Focused Libraries for Epigenetic Drug Discovery: The Importance of Isosteres. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 7231-7240	8.3 6
498	Interweaving Visible-Light and Iron Catalysis for Nitrene Formation and Transformation with Dioxazolones. <b>2021</b> , 133, 16562-16571	0

497	Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki-Miyaura Coupling. <b>2021</b> , 133, 13588-13595	3
496	Copper-Photocatalyzed Hydroboration of Alkynes and Alkenes. <b>2021</b> , 60, 14498-14503	22
495	Development of Continuous Flow Systems to Access Secondary Amines Through Previously Incompatible Biocatalytic Cascades**. <b>2021</b> , 133, 18808-18813	3
494	Direct Synthesis of Ketones from Methyl Esters by Nickel-Catalyzed Suzuki-Miyaura Coupling. <b>2021</b> , 60, 13476-13483	6
493	Synthesis of Arylpalladium(II) Boronates: Confirming the Structure and Chemical Competence of Pre-transmetalation Intermediates in the Suzuki-Miyaura Reaction. <b>2021</b> , 60, 14897-14901	2
492	Synthesis of Arylpalladium(II) Boronates: Confirming the Structure and Chemical Competence of Pre-transmetalation Intermediates in the Suzuki-Miyaura Reaction. <b>2021</b> , 133, 15023-15027	
491	Copper-Photocatalyzed Hydroboration of Alkynes and Alkenes. <b>2021</b> , 133, 14619-14624	6
490	Schistosomiasis Drug Discovery in the Era of Automation and Artificial Intelligence. <b>2021</b> , 12, 642383	2
489	Reductive Coupling of Aryl Halides via C-H Activation of Indene. <b>2021</b> , 39, 1573-1579	1
488	Interweaving Visible-Light and Iron Catalysis for Nitrene Formation and Transformation with Dioxazolones. <b>2021</b> , 60, 16426-16435	15
487	Understanding the Structure-Activity Relationship of Ni-Catalyzed Amide C-N Bond Activation using Distortion/Interaction Analysis. <b>2021</b> , 13, 3536-3542	2
486	Combining Organocatalyzed Aldolization and Reductive Amination: An Efficient Reaction Sequence for the Synthesis of Iminosugars. <b>2021</b> , 2021, 3241-3250	3
485	UV-Light-Induced N-Acylation of Amines with $\beta$ -Diketones. <b>2021</b> , 23, 5329-5333	4
484	Formation and Utility of Reactive Ketene Intermediates Under Continuous Flow Conditions. <b>2021</b> , 132305	2
483	Cu-catalyzed endo-selective asymmetric 1,3-dipolar cycloaddition of azomethine ylides with ethenesulfonyl fluorides: efficient access to chiral pyrrolidine-3-sulfonyl fluorides. <b>2021</b> ,	2
482	Brønsted Acid-Catalyzed Minisci-Type Cross-Dehydrogenative Coupling of $\beta$ -Heteroaromatics and Cyclic Ethers. <b>2021</b> , 86, 9299-9305	6
481	Synthesis of Sulfoxonium Ylides from Amides by Selective N-C(O) Activation. <b>2021</b> , 23, 4818-4822	6
480	Electrochemical Synthesis of Cyanoforamides from Trichloroacetonitrile and Secondary Amines Mediated by the B Derivative. <b>2021</b> , 86, 16134-16143	2

479	Transition-Metal-Free DMAP-Mediated Aromatic Esterification of Amides with Organoboronic Acids. <b>2021</b> , 2021, 3274-3277		0
478	Recent developments in the reduction of unsaturated bonds by magnesium precursors. <b>2021</b> , 35, e6333		0
477	Synthetic Opportunities and Challenges for Macrocyclic Kinase Inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 7991-8009	8.3	5
476	Oxamide Derivatives as Potent $\alpha$ -Glucosidase Inhibitors: Design, Synthesis, In Vitro Inhibitory Screening and In Silico Docking Studies. <b>2021</b> , 6, 7188-7201		1
475	Visible-Light-Induced C-H Bond Aminoalkylation of Heterocycles by the Decarboxylation Coupling of Amino Acids. <b>2021</b> , 23, 5906-5910		6
474	Organophotoredox-Catalyzed Decarboxylative N-Alkylation of Sulfonamides. <b>2021</b> , 13, 3930-3933		3
473	A Reduced Generalized Force Field for Biological Halogen Bonds. <b>2021</b> , 17, 5369-5378		3
472	ChemBead Enabled High-Throughput Cross-Electrophile Coupling Reveals a New Complementary Ligand. <b>2021</b> , 27, 12981-12986		11
471	Design of an Electron-Withdrawing Benzonitrile Ligand for Ni-Catalyzed Cross-Coupling Involving Tertiary Nucleophiles. <b>2021</b> , 143, 10422-10428		4
470	Evaluation of Cyclic Amides as Activating Groups in N-C Bond Cross-Coupling: Discovery of $\alpha$ -Acyl- $\beta$ -valerolactams as Effective Twisted Amide Precursors for Cross-Coupling Reactions. <b>2021</b> , 86, 10455-10466		2
469	Enantioselective $\alpha$ -Etherification of Branched Aldehydes via an Oxidative Umpolung Strategy. <b>2021</b> , 133, 18876-18881		1
468	Photochemical (Hetero-)Arylation of Aryl Sulfonium Salts. <b>2021</b> , 23, 6232-6236		8
467	Enantioselective $\alpha$ -Etherification of Branched Aldehydes via an Oxidative Umpolung Strategy. <b>2021</b> , 60, 18728-18733		7
466	A Process Chemistry Benchmark for sp-sp Cross Couplings. <b>2021</b> , 86, 10380-10396		10
465	Site-specific Umpolung amidation of carboxylic acids via triplet synergistic catalysis. <b>2021</b> , 12, 4637		13
464	Catalytic S Ar Hydroxylation and Alkoxylation of Aryl Fluorides. <b>2021</b> , 60, 20391-20399		4
463	Iridium-Catalyzed Enantioselective Hydrogenation of 3-Substituted Isoquinolinium Salts. <b>2021</b> , 10, 2370-2373		
462	Synthesis of $\alpha$ -trifluoromethyl amides from carboxylic acids.. <b>2021</b> , 7, 2245-2255		2

461	Chemoselective, Scalable Nickel-Electrocatalytic O-Arylation of Alcohols. <b>2021</b> , 133, 20868-20873	1
460	GenEdit-Editing Stickstoff-Deletion sekundärer Amine mithilfe anomerer Amid-Reagenzien. <b>2021</b> , 133, 19674-19676	0
459	Rhodium(III)-catalyzed benzo[c]azepine-1,3(2H)-dione synthesis via tandem C-H alkylation and intermolecular amination of N-methoxybenzamide with 3-bromo-3,3-difluoropropene. <b>2021</b> ,	3
458	Acyclic Twisted Amides. <b>2021</b> , 121, 12746-12783	14
457	Clustering of Synthetic Routes Using Tree Edit Distance. <b>2021</b> , 61, 3899-3907	0
456	Skeletal Editing-Nitrogen Deletion of Secondary Amines by Anomeric Amide Reagents. <b>2021</b> , 60, 19522-19524	3
455	Amide Formation: Choosing the Safer Carbodiimide in Combination with OxymaPure to Avoid HCN Release. <b>2021</b> , 23, 6900-6904	4
454	Hydrotalcite-Supported Cobalt Phosphide Nanorods as a Highly Active and Reusable Heterogeneous Catalyst for Ammonia-Free Selective Hydrogenation of Nitriles to Primary Amines. <b>2021</b> , 9, 11238-11246	2
453	Manganese-Pincer-Catalyzed Nitrile Hydration, Deuteration, and Deuterated Amide Formation via Metal Ligand Cooperation. <b>2021</b> , 11, 10239-10245	5
452	Recent Progress in Amination Enabled by Transition-Metal-Free C(sp <sup>2</sup> )/C(sp <sup>2</sup> ) Bond Cleavage Strategy. 53,	0
451	On the design of lead-like DNA-encoded chemical libraries. <b>2021</b> , 43, 116273	7
450	AgNO as Nitrogen Source for Cu-Catalyzed Cyclization of Oximes with Isocyanates: A Facile Route to 2-Aryl-1,2,3-triazoles. <b>2021</b> , 23, 7028-7032	2
449	Catalytic S <sub>N</sub> Ar Hydroxylation and Alkoxylation of Aryl Fluorides. <b>2021</b> , 133, 20554-20562	1
448	Photocatalyzed E-Z Contra-thermodynamic Isomerization of Vinyl Boronates with Binaphthol. <b>2021</b> , 27, 13966-13970	2
447	Photoinduced Copper-Catalyzed Asymmetric C-O Cross-Coupling. <b>2021</b> , 143, 13382-13392	34
446	Main-group metalated heterocycles through Lewis acid cyclization. <b>2021</b> , 3, 645-659	1
445	Semi-heterogeneous photo-Cu-dual-catalytic cross-coupling reactions using polymeric carbon nitrides. <b>2021</b> ,	2
444	Insight into Fundamental Rules of Phenylenediamines Selective Monoacylation by the Comparisons of Kinetic Characteristics in Microreactor. <b>2021</b> , 42, 1336	0

- 443 Dual Photoredox/Nickel-Promoted Alkylation of Heteroaryl Halides with Redox-Active Esters. **2021**, 86, 12945-12955 2
- 442 Chemoselective, Scalable Nickel-Electrocatalytic O-Arylation of Alcohols. **2021**, 60, 20700-20705 6
- 441 Advances in the Isomerization of Alkenes Using Small Molecule Photocatalysts. **2021**, 27
- 440 Fragment-to-lead tailored in silico design.. **2021**, 40, 44-57 0
- 439 Late-Stage Intermolecular Allylic C-H Amination. **2021**, 143, 14969-14975 11
- 438 Direct Access to Amides from Nitro-Compounds via Aminocarbonylation and Amidation Reactions: A Minireview. **2021**, 1
- 437 New Compound of Pyridine-4-Boronic Acid Cation and Pt(CN)<sub>4</sub> Anion Salt: Synthesis, Structural Properties, Hirshfeld Surface Analysis and Density Functional Theory Calculations. 1990-2000
- 436 4-Piridin Boronik Asit Dikasyonu ve [Pd(S<sub>2</sub>C<sub>2</sub>O<sub>2</sub>)<sub>2</sub>] Dianyonu Üren Yeni Bileşim Sentezi ve Kristal Yapı 1921-1927
- 435 Nitrene transfers mediated by natural and artificial iron enzymes. **2021**, 225, 111613 0
- 434 Iron-Catalyzed Reductive Cyclization by Hydromagnesiation: A Modular Strategy Towards N-Heterocycles. **2021**, 60, 22345-22351 2
- 433 Photocatalysis in the Life Science Industry. **2021**, 26
- 432 One-Pot Synthesis of Fused Indolin-3-Ones via a [3+3] Cycloaddition Reaction. **2021**, 363, 5092 2
- 431 Thiofunctionalization of Electron-Rich Heteroarenes through Magnesiation and Trapping with Octasulfur. **2021**, 363, 5099 0
- 430 Biocatalytic, Intermolecular C-H Bond Functionalization for the Synthesis of Enantioenriched Amides. 2
- 429 Unique Regioselective C-H Diacetoxylation of Pyrrolo[2,3-d]pyrimidine Derivatives Promoted by Sodium Iodide. **2021**, 153435
- 428 Base-Activated Latent Heteroaromatic Sulfinates as Nucleophilic Coupling Partners in Palladium-Catalyzed Cross-Coupling Reactions. **2021**, 133, 22635-22642 1
- 427 Base-Activated Latent Heteroaromatic Sulfinates as Nucleophilic Coupling Partners in Palladium-Catalyzed Cross-Coupling Reactions. **2021**, 60, 22461-22468 7
- 426 Iron-Catalyzed Cross-Coupling Reactions of Alkyl Grignards with Aryl Chlorobenzenesulfonates. **2021**, 26, 2

425	Late-Stage -Me Selective Arylation of Trialkylamines Enabled by Ni/Photoredox Dual Catalysis. <b>2021</b> , 143, 16364-16369	6
424	Biocatalytic, Intermolecular C-H Bond Functionalization for the Synthesis of Enantioenriched Amides. <b>2021</b> , 60, 24864-24869	9
423	Iron-Catalyzed Reductive Cyclization by Hydromagnesiation: A Modular Strategy Towards N-Heterocycles. <b>2021</b> , 133, 22519-22525	0
422	Synthesis of Kröhnke pyridines through iron-catalyzed oxidative condensation/double alkynylation/amination cascade strategy. <b>2021</b> , 98, 132429	2
421	Chemical synthesis of polysaccharide-protein and polysaccharide-peptide conjugates: A review. <b>2021</b> , 274, 118662	5
420	Synthesis, characterization, crystal and molecular structure and theoretical study of N-(naphthalen-1-yl)-2-(piperidin-1-yl) acetamide, a selective butyrylcholinesterase inhibitor. <b>2022</b> , 1248, 131544	
419	Facile preparation of ultrafine Pd nanoparticles anchored on covalent triazine frameworks catalysts for efficient N-alkylation. <b>2022</b> , 606, 1340-1351	1
418	Electro-oxidative C(sp <sup>2</sup> )H/OH cross-dehydrogenative coupling of phenols and tertiary anilines for diaryl ether formation. <b>2021</b> , 11, 3925-3930	1
417	Copper(II) mediated C-H alkoxylation of aromatic amines using organic peroxides: efficient synthesis of hindered ethers. <b>2021</b> , 57, 8949-8952	1
416	A Pd/Cu-Free magnetic cobalt catalyst for C-N cross coupling reactions: synthesis of abemaciclib and fedratinib. <b>2021</b> , 23, 5222-5229	3
415	Zirconium Oxide-Catalyzed Direct Amidation of Unactivated Esters under Continuous-Flow Conditions. <b>2021</b> , 363, 2529-2535	7
414	Palladium-Catalyzed C-C Bond Activation of Cyclopropenone: Modular Access to Trisubstituted -Unsaturated Esters and Amides. <b>2021</b> , 86, 2682-2695	7
413	C-H functionalisation tolerant to polar groups could transform fragment-based drug discovery (FBDD). <b>2021</b> , 12, 11976-11985	13
412	Benzylic C-H isocyanation/amine coupling sequence enabling high-throughput synthesis of pharmaceutically relevant ureas. <b>2021</b> , 12, 10380-10387	6
411	Direct C-H aminocarbonylation of N-heteroarenes with isocyanides under transition metal-free conditions. <b>2021</b> , 19, 2917-2922	3
410	Controllable chemoselectivity in the reaction of 2H-indazoles with alcohols under visible-light irradiation: synthesis of C3-alkoxylated 2H-indazoles and ortho-alkoxycarbonylated azobenzenes. <b>2021</b> , 8, 4230-4236	5
409	A new generation of terminal copper nitrenes and their application in aromatic C-H amination reactions. <b>2021</b> , 50, 6444-6462	2
408	Chirality memory of $\eta$ -methylene- $\eta$ -allyl iridium species. <b>2021</b> , 12, 11831-11838	1

407	Green chemistry meets medicinal chemistry: a perspective on modern metal-free late-stage functionalization reactions. <b>2021</b> , 50, 10955-10982	13
406	Radical hydroxymethylation of alkyl iodides using formaldehyde as a C1 synthon. <b>2021</b> , 12, 10448-10454	5
405	Solvent-free N-Boc deprotection by ex situ generation of hydrogen chloride gas. <b>2021</b> , 19, 5782-5787	1
404	Cyclic (Alkyl)(amino)carbene Ligand-Promoted Nitro Deoxygenative Hydroboration with Chromium Catalysis: Scope, Mechanism, and Applications. <b>2021</b> , 143, 1618-1629	18
403	Copper-catalyzed efficient access to 2,4,6-triphenyl pyridines via oxidative decarboxylative coupling of aryl acetic acids with oxime acetates. <b>2021</b> , 45, 15205-15209	4
402	Cobalt catalysed aminocarbonylation of thiols in batch and flow for the preparation of amides.. <b>2021</b> , 11, 30398-30406	0
401	Dipeptide Syntheses via Activated $\beta$ -Aminoesters. 296-308	1
400	Nickel-Catalyzed Synthesis of Dialkyl Ketones from the Coupling of N-Alkyl Pyridinium Salts with Activated Carboxylic Acids. <b>2020</b> , 132, 13586-13591	13
399	Photocatalytic $\beta$ -Tertiary Amine Synthesis via $C\beta$ Alkylation of Unmasked Primary Amines. <b>2020</b> , 132, 15096-15101	6
398	Polarity Umpolung Strategy for the Radical Alkylation of Alkenes. <b>2020</b> , 59, 8195-8202	43
397	Stereo- and Regioselective Cu-Catalyzed Hydroboration of Alkynyl Chalcogenoethers. <b>2020</b> , 12, 3545-3552	3
396	Amide Bond Activation: The Power of Resonance. <b>2020</b> , 2, 914-928	66
395	Osmium-Promoted Transformation of Alkyl Nitriles to Secondary Aliphatic Amines: Scope and Mechanism. <b>2020</b> , 39, 2177-2188	10
394	Cu-Mediated Expedient Annulation of Alkyl 3-Aminoacrylates with Aryldiazonium Salts: Access to Alkyl -Aryl 1,2,3-Triazole-carboxylates for Druglike Molecular Synthesis. <b>2020</b> , 22, 1396-1401	14
393	Monoacylation of Symmetrical Diamines in Charge Microdroplets. <b>2021</b> , 32, 531-536	8
392	Screening and characterization of a diverse panel of metagenomic imine reductases for biocatalytic reductive amination. <b>2021</b> , 13, 140-148	36
391	Chapter 2:Barriers to Adopting Green Chemistry in Drug Discovery. <b>2015</b> , 13-38	2
390	Radical cascade synthesis of azoles tandem hydrogen atom transfer. <b>2020</b> , 11, 2479-2486	10

- 389 Facile synthesis of controllable graphene-co-shelled reusable Ni/NiO nanoparticles and their application in the synthesis of amines under mild conditions. **2020**, 22, 7387-7397 19
- 388 Enantiomerically enriched tetrahydropyridine allyl chlorides. **2020**, 11, 4125-4130 4
- 387 General and selective synthesis of primary amines using Ni-based homogeneous catalysts. **2020**, 11, 4332-4339 10
- 386 DeepGraphMol, a multi-objective, computational strategy for generating molecules with desirable properties: a graph convolution and reinforcement learning approach. 1
- 385 N-Acylcarbazole as a Selective Transamidation Reagent. **2020**, 93, 993-999 1
- 384 The Synthesis of Amides through Direct Amination of Aldehydes with Amines. **2019**, 23, 901-919 5
- 383 Synthesis of Drugs and Biorelevant N-heterocycles Employing Recent Advances in C-N Bond Formation. **2020**, 24, 2293-2340 1
- 382 An Overview of Solid Supported Palladium and Nickel Catalysts for C-C Cross Coupling Reactions. **2020**, 17, 589-604 4
- 381 Synthesis of 4-Aryl and Unsymmetrical 4,6-Diarylpyrimidines by the Suzuki-Miyaura Cross-Coupling Reaction. **2018**, 96, 1549 1
- 380 Construction of Unique Heterocyclic Frameworks by Photochemical Reaction of 5- and 6-Membered Heteroaromatics. **2018**, 96, 997 3
- 379 Intramolecular attack on coordinated nitriles: metallacycle intermediates in catalytic hydration and beyond. **2021**, 50, 15953-15960 0
- 378 Heterocyclization Reagents for Rapid Assembly of N-Fused Heteroarenes from Alkenes. **2021**, 41, 3740
- 377 Organocatalytic cascade reactions for multi-functionalized chiral cyclic ethers through vinylidene-quinone methides. **2021**, 57, 11334-11337 2
- 376 A photoredox/nickel dual-catalytic strategy for benzylic C-H alkoxylation. 1
- 375 Palladium supported on magnesium hydroxyl fluoride: an effective acid catalyst for the hydrogenation of imines and N-heterocycles. **2021**, 45, 19572-19583 2
- 374 Copper-Catalyzed Oxidative Dehydrogenative Reaction of Quinoline--Oxides with Donor-Acceptor Cyclopropanes: Installation of a Tertiary Alkyl Motif at C2 Position. **2021**, 23, 8390-8395 2
- 373 High Turnover Pd/C Catalyst for Nitro Group Reductions in Water. One-Pot Sequences and Syntheses of Pharmaceutical Intermediates. **2021**, 23, 8114-8118 3
- 372 Minimizing side reactions during amide formation using DIC and oxymapure in solid-phase peptide synthesis. **2021**, 85, 153462 2

- 371 Investigating the Role of Natural Deep Eutectic Low Melting Mixtures for the Synthesis of Symmetrical Bisamides. **2021**, 6, 10948-10956 5
- 370 Synthesis of Poly-Substituted Pyridines via Noble-Metal-Free Cycloaddition of Ketones and Imines. **2021**, 16, 3905-3908 0
- 369 Three-Dimensional Heterocycles by 5-exo-dig Cyclizations of  $\alpha$ -Methyl- $\gamma$ -ynonylsulfoximines. **2021**, 23, 8287-8290 3
- 368 Aerobic Electrochemical Transformations of DDT to Oxygen-incorporated Products Catalyzed by the B12 Derivative. 0
- 367 Recent Advances in the Enantioselective Synthesis of Chiral Amines via Transition Metal-Catalyzed Asymmetric Hydrogenation. **2021**, 21
- 366 Application of A Redox-Neutral Alcohol Amination in The Kilogram-Scale Synthesis of A GlyT1 Inhibitor. 139-162
- 365 Chapter 3:Toward a Green Laboratory: One Reaction at a Time. **2015**, 39-65
- 364 Chapter 5:Green Chemistry and High Throughput Screening. **2015**, 94-126
- 363 4-Cyano-2-Methoxybenzenesulfonyl Chloride. 198-216
- 362 Direct C<sup>sp2</sup> Arylation and Alkylation of Electron-Deficient Heteroaromatic Compounds with Organozinc Reagents.
- 361 Chiral bis(pyrazolyl)methane copper(I) complexes and their application in nitrene transfer reactions. **2021**,
- 360 SynthI: A New Open-Source Tool for Synthron-Based Library Design. **2021**, 3
- 359 Back to the Medicinal Chemistry Future. *Journal of Medicinal Chemistry*, **2021**, 64, 15515-15518 8.3 1
- 358 Generation of Mixed Anhydrides via Oxidative Fragmentation of Tertiary Cyclopropanols with Phenyliodine(III) Dicarboxylates. **2020**, 26,
- 357 Nickel-catalyzed direct cross-coupling of heterocyclic phosphonium salts with aryl bromides. 6
- 356 Green solvents for the formation of amide linkages. **2021**, 2
- 355 The Formal Cross-Coupling of Amines and Carboxylic Acids to Form sp<sup>2</sup>-sp<sup>3</sup> Carbon-Carbon Bonds. **2021**, 60, 27293 3
- 354 The Formal Cross-Coupling of Amines and Carboxylic Acids to Form sp<sup>3</sup>-sp<sup>3</sup> Carbon-Carbon Bonds. 1

353	Regio- and Stereoselective Alkylboration of Endocyclic Olefins Enabled by Nickel Catalysis. <b>2021</b> , 143, 20027-20034	8
352	Reductive N-alkylation of primary amides using nickel-nanoparticles. <b>2021</b> , 132526	
351	New Trends and Future Opportunities in the Enzymatic Formation of C-C, C-N, and C-O bonds. <b>2021</b> , ,	3
350	Cleavage via Selective Catalytic Oxidation of Lignin or Lignin Model Compounds into Functional Chemicals. <b>2021</b> , 5, 74	
349	Synthesis and crystal structures of N,N-diarylacetamides bearing two azulene rings. <b>2021</b> , 86, 153523	
348	Applications of Artificial Intelligence in Drug Design: Opportunities and Challenges. <b>2022</b> , 2390, 1-59	1
347	A Simple Synthetic Route to Well-Defined [Pd(NHC)Cl(1-tBu-indenyl)] Pre-catalysts for Cross-Coupling Reactions.	1
346	Reductive Amination Revisited: Reduction of Aldimines with Trichlorosilane Catalyzed by Dimethylformamide-Functional Group Tolerance, Scope, and Limitations. <b>2021</b> ,	1
345	The Chosen Few: Parallel Library Reaction Methodologies for Drug Discovery. <b>2021</b> ,	3
344	Electrochemical Organic Synthesis of Electron-Rich Biaryl Scaffolds: An Update. <b>2021</b> , 26,	2
343	Micellar Buchwald-Hartwig Coupling of Aryl and Heteroaryl amines for the Synthesis of DNA-Encoded Libraries. <b>2021</b> , 86, 17257-17264	2
342	Tunable and Practical Homogeneous Organic Reductants for Cross-Electrophile Coupling. <b>2021</b> ,	5
341	Organocatalytic Decarboxylation and Dual C(sp <sup>3</sup> ) <sub>H</sub> Bond Functionalization Toward Facile Access to Divergent 2,6-Diarylpyridines.	
340	Generation of Oxyphosphonium Ions by Photoredox/Cobaloxime Catalysis for Scalable Amide and Peptide Synthesis in Batch and Continuous-Flow.	
339	What is in Our Kit? An Analysis of Building Blocks Used in Medicinal Chemistry Parallel Libraries. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 17115-17122	8.3 5
338	An attractive avenue to Chan-Lam cross-coupling: Scope and developments under Ni-catalysis. <b>2021</b> , 132567	0
337	Photo-induced catalytic halopyridylation of alkenes. <b>2021</b> , 12, 6538	3
336	Photons or Electrons? A Critical Comparison of Electrochemistry and Photoredox Catalysis for Organic Synthesis. <b>2021</b> ,	30

335	Generation of Oxyphosphonium Ions by Photoredox/Cobaloxime Catalysis for Scalable Amide and Peptide Synthesis in Batch and Continuous-Flow. <b>2021</b> ,	0
334	Supported-Pd catalyzed tandem approach for N-arylbenzamides synthesis. <b>2021</b> , 516, 111948	0
333	Sustainable synthesis of potential antitumor new derivatives of Abemaciclib and Fedratinib via C-N cross coupling reactions using Pd/Cu-free Co-catalyst. <b>2021</b> , 517, 112011	1
332	Copper-Catalyzed Direct Allenylation of Inactive Cyclic Ethers. <b>2021</b> ,	2
331	Pd-catalyzed bidentate auxiliary assisted remote C(sp)-H functionalization. <b>2021</b> , 57, 13221-13233	1
330	Photoinduced Copper-Catalyzed Asymmetric C <sub>10</sub> Cross-Coupling. <b>2021</b> , 41, 4510	0
329	C <sub>10</sub> coupling reactions with arenes through C <sub>10</sub> activation: the state-of-the-art versus the principles of green chemistry.	1
328	Synthesis of bioactive fluoropyrrolidines copper(i)-catalysed asymmetric 1,3-dipolar cycloaddition of azomethine ylides.. <b>2022</b> , 13, 1398-1407	1
327	A metal-free strategy for the cross-dehydrogenative coupling of 1,3-dicarbonyl compounds with 2-methoxyethanol.. <b>2022</b> ,	0
326	Catalytic Amination of Phenols with Amines.. <b>2022</b> ,	6
325	H <sub>2</sub> O <sub>2</sub> -Mediated Synthesis of 1,2,4-Thiadiazole Derivatives in Ethanol at Room Temperature.	1
324	Discovery of urease inhibitory effect of sulfamate derivatives: Biological and computational studies.. <b>2021</b> , 119, 105545	2
323	Pilot Study to Quantify Palladium Impurities in Lead-like Compounds Following Commonly Used Purification Techniques.. <b>2022</b> , 13, 262-270	3
322	An -Fluorinated Imide for Practical Catalytic Imidations.. <b>2022</b> ,	0
321	Chemo-selective syntheses of N-t-boc-protected amino ester analogs through Buchwald-Bartwig amination. <b>2022</b> , 46, 2605-2608	
320	NDTP Mediated Direct Rapid Amide and Peptide Synthesis without Epimerization.. <b>2022</b> ,	4
319	Synthetic prodrug design enables biocatalytic activation in mice to elicit tumor growth suppression.. <b>2022</b> , 13, 39	5
318	Heterogeneous catalytic direct amide bond formation. <b>2022</b> , 164, 106420	1

- 317 Deoxygenative Cross-Coupling of Aromatic Amides with Polyfluoroarenes.. **2022**, 2
- 316 Deoxygenative Cross-Coupling of Aromatic Amides with Polyfluoroarenes.
- 315 Reaction classification and yield prediction using the differential reaction fingerprint DRFP.. **2022**, 1, 91-97 4
- 314 Palladium oxidative addition complex-enabled synthesis of amino-substituted indolyl-4(3)-quinazolinones and their antitumor activity evaluation.. **2021**,
- 313 Half-Sandwich Ruthenium Complexes Bearing Hemilabile  $\sigma$ -(C, S) Thioether-Functionalized NHC Ligands: Application to Amide Synthesis from Alcohol and Amine. 2
- 312 Umpolung strategies for the functionalization of peptides and proteins.. **2022**, 13, 2809-2823 2
- 311 Entering Chemical Space with Theoretical Underpinning of the Mechanistic Pathways in the Chan-Lam Amination. **2022**, 12, 1461-1474 3
- 310 Mechanochemical Nucleophilic Substitution of Alcohols via Isouronium Intermediates.. **2021**, 0
- 309 Organic Synthesis with Lyases. **2022**, 139-220
- 308 Cobalt-catalyzed cross-coupling of nitrogen-containing heterocyclic phosphonium salts with arylmagnesium reagents. **2022**, 92, 153662 0
- 307 Palladium-NHC (NHC = N-heterocyclic Carbene)-Catalyzed Suzuki-Miyaura Cross-Coupling of Alkyl Amides. 2426-2433 5
- 306 Visible-light-induced dehydrogenative sulfonylation of tertiary amines under transition-metal- and photocatalyst-free conditions. 1
- 305 Chemoselective Transamidation of Thioamides by Transition-Metal-Free N-C(S) Transacylation.. **2022**, 2
- 304 Understanding OxymaPure as a Peptide Coupling Additive: A Guide to New Oxyma Derivatives.. **2022**, 7, 6007-6023 0
- 303 Selected Applications of Spirocycles in Medicinal Chemistry. **2022**, 9-34
- 302 Visible-light-mediated tungsten-catalyzed C-H amination of unactivated alkanes with nitroarenes. 1 2
- 301 Chemoselective Transamidation of Thioamides by Transition-Metal-Free N-C(S) Transacylation. 0
- 300 In-Situ Bromination Enables Formal Cross-Electrophile Coupling of Alcohols with Aryl and Alkenyl Halides.. **2022**, 12, 580-586 11

299	Efficient synthesis of primary and secondary amides via reacting esters with alkali metal amidoboranes. <b>2021</b> , 12, 5964	2
298	Zirconium oxo clusters as discrete molecular catalysts for the direct amide bond formation.	0
297	Catalytic asymmetric synthesis of enantioenriched $\beta$ -deuterated pyrrolidine derivatives.. <b>2022</b> , 13, 4041-4049	1
296	Transamidation of thioamides with nucleophilic amines: thioamide N-C(S) activation by ground-state-destabilization.. <b>2022</b> ,	2
295	Palladium-catalyzed cascade Heck-type cyclization and reductive aminocarbonylation for the synthesis of functionalized amides.. <b>2022</b> ,	0
294	TMSOTf-mediated Kr̄nke pyridine synthesis using HMDS as the nitrogen source under microwave irradiation.. <b>2022</b> , 12, 8263-8273	1
293	Selective Synthesis of Substituted Pyridines and Pyrimidines through Cascade Annulation of Isopropene Derivatives.. <b>2022</b> , 24, 1620-1625	3
292	Isotope Effects Reveal the Catalytic Mechanism of the Archetypical Suzuki-Miyaura Reaction. <b>2022</b> , 12, 2959-2966	3
291	Cu(II)-Catalyzed Synthesis of 4-(1,4,5,6-Tetrahydropyridin-3-yl)-1,4-dihydroisoquinolin-3-ones from 4-Diazoisoquinolin-3-ones.. <b>2022</b> ,	0
290	Coordination-Controlled Nickel-Catalyzed Benzylic Allylation of Unactivated Electron-Deficient Heterocycles.. <b>2022</b> ,	1
289	Iridium-Catalyzed Asymmetric Allylic Substitution of Methyl Azaarenes.. <b>2022</b> ,	3
288	2-Formyl Benzamides from an N -Phthalimidoyl Sulfoximine.	
287	Solvent-free palladium-catalyzed C O cross-coupling of (hetero)aryl halides with primary alcohols. <b>2022</b> , 32, 258-259	0
286	Silver-catalyzed site-selective C(sp)-H benzylation of ethers with N-triflylhydrazones.. <b>2022</b> , 13, 1674	1
285	Coordination-Controlled Nickel-Catalyzed Benzylic Allylation of Unactivated Electron-Deficient Heterocycles.	0
284	Highly Chemoselective Transamidation of Unactivated Tertiary Amides by Electrophilic N-C(O) Activation via Amide-to-Acyl Iodide Re-Routing.. <b>2022</b> ,	0
283	Synthesis, Structural Investigation, Hirshfeld Surface Analysis, and Biological Evaluation of -(3-Cyanothiophen-2-yl)-2-(thiophen-2-yl)acetamide.. <b>2022</b> , 7, 11320-11329	0
282	Synthesis of N -Cbz Amides and Their Applications in the Transamidation Reactions at Room Temperature.	1

281	A "Pool and Split" Approach to the Optimization of Challenging Pd-Catalyzed C-N Cross-Coupling Reactions.. <b>2022,</b>	2
280	Potassium Trimethylsilylanolate-Promoted, Anhydrous Suzuki-Miyaura Cross-Coupling Reaction Proceeds via the "Boronate Mechanism": Evidence for the Alternative Fork in the Trail.. <b>2022,</b>	4
279	Synthesis of -CF Amidines/Imidates/Thioimidates -CF Nitrilium Ions.. <b>2022,</b>	0
278	N-Alkylation of $\beta$ -Amino Esters and Amides through Hydrogen Borrowing.	1
277	Highly Chemoselective Transamidation of Unactivated Tertiary Amides by Electrophilic $N\equiv O$ Activation via Amide-to-Acyl Iodide Re-Routing.	
276	Rh(III)-catalyzed synthesis of quinazoline-4(3H)-one with N-methoxyamide as synthesis reagent.	0
275	Protection Strategies for the Conversion of Biobased Furanics to Chemical Building Blocks. <b>2022,</b> 10, 3116-3130	3
274	Iridium-Catalyzed Asymmetric Allylic Substitution of Methyl Azaarenes.	
273	Nitrogen-Centered Radicals in Functionalization of sp Systems: Generation, Reactivity, and Applications in Synthesis.. <b>2022,</b>	17
272	General Method of Synthesis of 5-(Het)arylamino-1,2,3-triazoles via Buchwald-Hartwig Reaction of 5-Amino- or 5-Halo-1,2,3-triazoles.. <b>2022,</b> 27,	2
271	The Transformative Power of Biocatalysis in Convergent Synthesis.. <b>2022,</b>	5
270	Cu(I)-catalyzed cross dehydrogenative coupling (CDC) of ethers and substituted styrenes. <b>2022,</b> 110, 132704	
269	Cobalt-Catalyzed Direct Aminocarbonylation of Ethers: Efficient Access to $\beta$ -Amide Substituted Ether Derivatives.. <b>2022,</b>	1
268	An Adaptive Auto-Synthesizer using Online PAT Feedback to Flexibly Perform a Multistep Reaction.	1
267	A unified "top-down" approach for the synthesis of diverse lead-like molecular scaffolds.. <b>2022,</b> 62, 128631	0
266	Multifunctional biocatalyst for conjugate reduction and reductive amination.. <b>2022,</b> 604, 86-91	11
265	Guanidinate Early-Transition-Metal Complexes: Efficient and Selective Hydroaminoalkylation of Alkenes.	0
264	Advances in the photoredox catalysis of S(VI) compounds. <b>2022,</b> 111, 132711	1

- 263 Making the collective knowledge of chemistry open and machine actionable.. **2022**, 14, 365-376 2
- 262 Cobalt-Catalyzed Direct Aminocarbonylation of Ethers: Efficient Access to  $\alpha$ -Amide Substituted Ether Derivatives.
- 261 Water: An Underestimated Solvent for Amide Bond-Forming Reactions. 4
- 260 Machine learning modelling of chemical reaction characteristics: yesterday, today, tomorrow. **2021**, 31, 769-780 0
- 259 Electrophilic Sulfonium-Promoted Peptide and Protein Amidation in Aqueous Media.. **2021**, 14, 1203-1210 0
- 258 Electrochemical Synthesis of Allylic Amines from Terminal Alkenes and Secondary Amines.. **2021**, 143, 21503-21510 8
- 257 2,2,5,5-Tetramethyloxolane (TMO) as a Solvent for Buchwald-Hartwig Aminations. **2021**, 9, 17330-17337 2
- 256 3-Piridin Boronik Asit ve PtCN<sub>4</sub> İren Yeni [HNC<sub>5</sub>H<sub>4</sub>B(OH)<sub>2</sub>]<sub>2</sub>[Pt(CN)<sub>4</sub>] Bileşim Sentezi ve Kristal Yapı. **2021**, 2803-2809
- 255 New Directions in Coupling Chemistry. **2022**, 403-487
- 254 Mechanochemical Solvent-Free Suzuki-Miyaura Cross-Coupling of Amides via Highly Chemoselective N-Cleavage. **2021**, 134, 1203-1210 4
- 253 Synthesis of Sulfonyl Chlorides from Aryldiazonium Salts Mediated by a Heterogeneous Potassium Poly(heptazine imide) Photocatalyst. **2022**, 2, 153-158 0
- 252 Decarboxylative Ritter-Type Amination by Cooperative Iodine (I/III)-Boron Lewis Acid Catalysis. **2022**, 12, 809-817 3
- 251 Transamidation and Decarbonylation of  $\alpha$ -Phthaloyl-Amino Acid Amides Enabled by Palladium-Catalyzed Selective C-N Bond Cleavage.. **2021**, 134, 1203-1210 1
- 250 In Situ Formation of Cationic  $\alpha$ -Allylpalladium Precatalysts in Alcoholic Solvents: Application to C-N Bond Formation. **2022**, 12, 560-567 0
- 249 Amide Bond Formation via the Rearrangement of Nitrile Imines Derived from  $\alpha$ -2-Nitrophenyl Hydrazonyl Bromides.. **2021**, 134, 1203-1210 0
- 248 Highly Selective Synthesis of 6-Glyoxylamidoquinoline Derivatives via Palladium-Catalyzed Aminocarbonylation.. **2021**, 27, 1203-1210 0
- 247 Mechanochemical Solvent-Free Suzuki-Miyaura Cross-Coupling of Amides via Highly Chemoselective N-Cleavage. **2022**, 134, 1203-1210
- 246 A Close-up Look at the Chemical Space of Commercially Available Building Blocks for Medicinal Chemistry.. **2021**, 134, 1203-1210 5

245	Solvent-free amide bond formation using a variety of methoxysilanes as coupling agent.. <b>2022,</b>	1
244	Ethynyl-SF-Pyridines: Reagents for SF-Alkynylation to Carbonyl Compounds.. <b>2022,</b>	0
243	Allylic C-H amination cross-coupling furnishes tertiary amines by electrophilic metal catalysis.. <b>2022,</b> 376, 276-283	5
242	Amide and Peptide Couplings Mediated by Pivaloyl Mixed Anhydrides in Aqueous Media.	3
241	Visible-Light-Induced $\beta$ C(sp)-H Difunctionalization of Piperidines.. <b>2022,</b>	5
240	Interception of enamine intermediates in reductive functionalization of lactams by sodium hydride: Synthesis of 2-cyano-3-iodo piperidines and pyrrolidines. <b>2022,</b> 132779	0
239	Data_Sheet_1.pdf. <b>2018,</b>	
238	Table_1.PDF. <b>2018,</b>	
237	Table_2.PDF. <b>2018,</b>	
236	Table_3.PDF. <b>2018,</b>	
235	Table_4.pdf. <b>2018,</b>	
234	Table_5.pdf. <b>2018,</b>	
233	Copper-catalyzed hydroaminocarbonylation of benzylic cyclopropanes: synthesis of $\beta$ unsaturated amides.. <b>2022,</b>	1
232	A Compact, Practical Photoreactor for Multi-Reaction Arrays.	1
231	Remote carbamate-directed site-selective benzylic C-H oxygenation via synergistic copper/TEMPO catalysis at room temperature.	0
230	Interfacing single-atom catalysis with continuous-flow organic electrosynthesis.. <b>2022,</b>	5
229	Ni-catalysed deamidative fluorination of amides with electrophilic fluorinating reagents.. <b>2022,</b>	1
228	Cooperative catalysis-enabled C-N bond cleavage of biaryl lactams with activated isocyanides.. <b>2022,</b>	1

227	Computer-designed repurposing of chemical wastes into drugs.. <b>2022</b> , 604, 668-676	3
226	Breaking the Aliphatic Wall: Iridium-Catalyzed Direct Reductive Amination of Ketones and Secondary Amines.. <b>2022</b> ,	1
225	Metal-Free Boron-Mediated -C-H Hydroxylation of -Benzyl-3,4,5-tribromopyrazoles.. <b>2022</b> , 24, 3570-3575	1
224	Nickel-Catalyzed SuzukiMiyaura Cross-Coupling Facilitated by a Weak Amine Base with Water as a Cosolvent.	1
223	An Evaluation of the Occupational Health Hazards of Peptide Couplers.. <b>2022</b> ,	4
222	Palladium-Mediated C-N Coupling of DNA-Conjugated (Hetero)aryl Halides with Aliphatic and (Hetero)aromatic Amines.. <b>2022</b> ,	1
221	Photoinduced Transition-Metal-Free Chan-Evans-Lam-Type Coupling: Dual Photoexcitation Mode with Halide Anion Effect.. <b>2022</b> ,	3
220	A uniformly anchored zirconocene complex on magnetic reduced graphene oxide (rGO@Fe <sub>3</sub> O <sub>4</sub> /ZrCp <sub>2</sub> Cl <sub>x</sub> (x = 0, 1, 2)) as a novel and reusable nanocatalyst for synthesis of N-arylacetamides and reductive-acetylation of nitroarenes. <b>2022</b> , 12, 15020-15037	0
219	Synthesis, chemical and physical properties of lanthanide(III) (Nd, Gd, Tb) complexes derived from (E)-ethyl 4-(2-hydroxybenzylideneamino)benzoate. <b>2022</b> , 115906	0
218	Lewis Acid-Catalyzed Synthesis of Polysubstituted Furans from Conjugated Ene-yne-ketones and 1,3,5-Triazines.. <b>2022</b> ,	
217	Unconventional Site Selectivity in Palladium-Catalyzed Cross-Couplings of Dichloroheteroarenes under Ligand-Controlled and Ligand-Free Systems.. <b>2022</b> ,	1
216	MOF nanoparticles as heterogeneous catalysts for direct amide bond formations.. <b>2022</b> ,	2
215	Hydrogenation of Nitriles to Primary Amines Catalyzed by Unsupported Nanoporous Palladium Catalyst: Understanding the Essential Reason for High Activity and Selectivity of Catalyst.	1
214	A Redox-Enabled Strategy for Intramolecular Hydroamination.	0
213	Evolving New Chemistry: Biocatalysis for the Synthesis of Amine-Containing Pharmaceuticals. <b>2022</b> , 12, 595	0
212	Continuous synthesis of benzaldehyde by ozonolysis of styrene in a micro-packed bed reactor.	
211	Domino synthesis of functionalized pyridine carboxylates under gallium catalysis: Unravelling the reaction pathway and the role of the nitrogen source counter anion.	4
210	Base-Promoted Reaction of Phenols with Spirocyclic $\beta$ -iodanes: Access to both 2-Iodovinyl Aryl Ethers and Diaryl Ethers.	2

- 209 Diverse Applications of Biomass-Derived 5-Hydroxymethylfurfural and Derivatives as Renewable Starting Materials. 5
- 208 Amino Acids in Electrochemical Metal-Free Benzylic C-H Amidation. **2022**, 153917
- 207 Flow Chemistry Opportunities for Drug Discovery. **2022**, 67-102
- 206 Copper-Catalyzed 6-endo-dig Cyclization-Coupling of 2-Bromoaryl Ketones and Terminal Alkynes toward Naphthyl Aryl Ethers in Water. 1
- 205 Alcohols as Alkylating Agents: Photoredox-Catalyzed Conjugate Alkylation via In Situ Deoxygenation.
- 204 Alcohols as Alkylating Agents: Photoredox-Catalyzed Conjugate Alkylation via In Situ Deoxygenation. 2
- 203 Recent Advances in the Synthesis of 5-Membered N -Heterocycles via Rhodium Catalysed Cascade Reactions. **2022**, 7, 3
- 202 Environmentally Benign Approaches towards the Synthesis of Quinolines. **2022**, 7, 0
- 201 Palladium-Catalyzed Four-Component Difluoroalkylative Carbonylation of Aryl olefins and Ethylene. **2022**, 0
- 200 Sustainable Synthesis of Amides from Carboxylic Acids and Equivalent Amounts of Amines Using a Reusable Brønsted Acidic Ionic Liquid as a Catalyst and a Solvent. 0
- 199 Cs<sub>2</sub>CO<sub>3</sub> catalyzed direct aza-Michael addition of azoles to  $\alpha,\beta$ -unsaturated malonates. **2022**, 12, 19265-19269 1
- 198 Photoinduced carbamoylation reactions: unlocking new reactivities towards amide synthesis. 0
- 197 Regioselective magnesiations of functionalized arenes and heteroarenes using TMP<sub>2</sub>Mg in hydrocarbons.
- 196 Research Progress on Density Functional Theory Study of Palladium-Catalyzed C-H Functionalization to Form C-X (X=O, N, F, I, Br) Bonds. **2022**, 42, 1346
- 195 Functionalisation of ethereal-based saturated heterocycles with concomitant aerobic C-H activation and C-C bond formation. 1
- 194 Metal-free synthesis of secondary amides using N-Boc-O-tosylhydroxylamine as nitrogen source via Beckmann rearrangement. 0
- 193 Branching out: redox strategies towards the synthesis of acyclic tertiary ethers. **2022**, 51, 5878-5929 1
- 192 Yeni [HNC<sub>5</sub>H<sub>4</sub>B(OH)(OCH<sub>3</sub>)-4]<sub>2</sub>[Ni(S<sub>2</sub>C<sub>2</sub>O<sub>2</sub>)<sub>2</sub>] bileşimin sentezi ve kristal yapısının

- 191 Synthesis and antitumor activity of novel hybrid compounds between 1,4-benzodioxane and imidazolium salts.
- 190 1,2,2-?????????????????. 2022,
- 189 Expanding chemical space by para-C<sub>H</sub> arylation of arenes. 2022, 13, 2
- 188 Iron-Copper Dual-Catalysis Boosted C-Based Bond-Forming Reactions. 0
- 187 Diborylmethyl Group as a Transformable Building Block for the Diversification of Nitrogen-Containing Molecules.
- 186 Rhodium-Catalyzed Asymmetric Hydrogenation of All-Carbon Aromatic Rings.
- 185 Structures of the Most Twisted Thioamide and Selenoamide: Effect of Higher Chalcogens of Twisted Amides on N $\pi$ (X) Resonance. 1
- 184 Remote Stereocenter through Amide-Directed, Rhodium-Catalyzed Enantioselective Hydroboration of Unactivated Internal Alkenes. 2
- 183 An Unprecedented Valorisation of Marble Slurry Waste Material as Solid Support for Palladium-Catalysed Heck and Suzuki Reactions. 2022, 7,
- 182 Rhodium-Catalyzed Asymmetric Hydrogenation of All-Carbon Aromatic Rings. 2
- 181 Copper(I)-Catalyzed Cross-Coupling of 1-Bromoalkynes with N-Heterocyclic Organozinc Reagents. 2022, 27, 4561 1
- 180 Combined radical and ionic approach for the enantioselective synthesis of  $\beta$ -functionalized amines from alcohols. 2022, 1, 548-557 2
- 179 Diborylmethyl Group as a Transformable Building Block for the Diversification of Nitrogen-Containing Molecules. 3
- 178 Digitization and validation of a chemical synthesis literature database in the ChemPU. 2022, 377, 172-180 0
- 177 Structures of the Most Twisted Thioamide and Selenoamide: Effect of Higher Chalcogens of Twisted Amides on N $\pi$ (X) Resonance.
- 176 Synthesis of Glycouronamides by the Transamidation Approach at Room Temperature.
- 175 Metal-Organic Framework: An Emergent Catalyst in C<sub>N</sub> Cross-Coupling Reactions. 2022, 469, 214667 4
- 174 Development of copper-catalyzed deaminative esterification using high-throughput experimentation. 2022, 5, 0

- 173 Synthesis of Coumarin 3-aldehyde Derivatives via Photocatalytic Cascade Radical Cyclization-Hydrolysis. **2022**, 7,
- 172 Recent Advances in the Application of Nanocatalysts in C-N Coupling Reactions. 1
- 171 1,2-Amino oxygenation of alkenes with hydrogen evolution reaction. **2022**, 13, 3
- 170 Mild Sustainable Amide Alkylation Protocol Enables a Broad Orthogonal Scope.
- 169 Direct Benzylic C(sp<sup>3</sup>)–C(sp<sup>3</sup>) Coupling with Alcohol via Site-Selective C(sp<sup>3</sup>)–C(sp<sup>3</sup>) Cleavage at Room Temperature through a Remote Directing Group-Enabled Radical Relay Strategy. **2022**, 87, 10698-10709 1
- 168 Bismuth-Mediated Arylation of Acidic Diketones with ortho-Substituted Boronic Acids. 0
- 167 Preparation of Substituted Pyridines via a Coupling of  $\beta$ -Enamine Carbonyls with Rongalite-Application for Synthesis of Terpyridines. **2022**, 3, 415-422
- 166 Substrate-Rhodium Cooperativity in Photoinduced ortho-Alkynylation of Arenes. 0
- 165 Pd(II)-Catalyzed,  $\beta$ (sp<sup>2</sup>)-H Alkoxylation in  $\beta$ Methylbenzylamine, Phenylglycinol, 3-Amino-3-Phenylpropanol Toward Enantiopure Aryl Alkyl Ethers.
- 164 Regio- and Chemoselective Copper-Catalyzed Formal [2+2+2] Cycloaddition of Primary Amines with Arylacetylenes to 2,4,5-Trisubstituted Pyridines. 0
- 163 Ni/Photoredox-Catalyzed C(sp<sup>2</sup>)–C(sp<sup>3</sup>) Cross-Coupling of Alkyl Pinacolboronates and (Hetero)Aryl Bromides. **2022**, 24, 5663-5668 0
- 162 Cross-Coupling of C–H and N–H Bonds: A Hydrogen Evolution Strategy for the Construction of C–N Bonds. **2022**, 2022, 1
- 161 Density Functional Theory Study on the Selective Reductive Amination of Aldehydes and Ketones over Their Reductions to Alcohols Using Sodium Triacetoxyborohydride. 1
- 160 Catalytic and Multicomponent Reactions for Green Synthesis of Some Pyrazolone Compounds and Evaluation as Antimicrobial Agents. **2022**, 7, 29142-29152 1
- 159 Organophotocatalytic N–O Bond Cleavage of Weinreb Amides: Mechanism-Guided Evolution of a PET to ConPET Platform. **2022**, 12, 10047-10056 1
- 158 Substrate-Rhodium Cooperativity in Photoinduced ortho-Alkynylation of Arenes.
- 157 Photoexcited Direct Amination/Amidation of Inert C(sp<sup>3</sup>)–H Bonds via Tungsten–Nickel Catalytic Relay. 11071-11077 1
- 156 Synthesis of 1,3-dicarbonyl compounds using N-Cbz amides as an acyl source under transition metal-free conditions at room temperature.

- 155 Cobalt-catalyzed alkoxy carbonylation of ethers: Direct synthesis of  $\alpha$ -oxy esters from phenols and alcohols. **2022**, 414, 84-89 1
- 154 A tandem reduction of primary amines, carbonyl compounds, CO<sub>2</sub>, and boranes catalyzed by in situ formed frustrated Lewis pairs. **2022**, 9, 4882-4889 0
- 153 Unveiling the origin of the chemoselectivity of bismacrocyclic-mediated C-H arylation of phenols: from mechanism concept to new coupling design. **2022**, 9, 4890-4901 0
- 152 Green and sustainable visible light-mediated formation of amide bonds: an emerging niche in organic chemistry. **2022**, 46, 16220-16242 0
- 151 On-DNA Reductive Amination and Alkylation. **2022**, 33-37 0
- 150 Photomediated reductive coupling of nitroarenes with aldehydes for amide synthesis. **2022**, 13, 9361-9365 2
- 149 Synthesis and characterization of rare earth/lithium complexes stabilized by ethylenediamine-bridged bis(phenolate) ligands and their activity in catalyzing amidation reactions. **2022**, 51, 13892-13901 0
- 148 3D printed tetrakis(triphenylphosphine)palladium (0) impregnated stirrer devices for Suzuki-Miyaura cross-coupling reactions. 0
- 147 Bismuth-Mediated C-H Arylation of Acidic Diketones with ortho-Substituted Boronic Acids. **2022**, 134, 0
- 146 From N-H Nitration to Controllable Aromatic Mononitration and Dinitration-The Discovery of a Versatile and Powerful N-Nitropyrazole Nitrating Reagent. **2022**, 2, 2152-2161 0
- 145 Remote and Proximal Hydroaminoalkylation of Alkenes Enabled by Photoredox/Nickel Dual Catalysis. **2022**, 144, 17776-17782 2
- 144 On drug discovery against infectious diseases and academic medicinal chemistry contributions. 18, 1355-1378 0
- 143 Hydroamination of Unactivated Alkenes with Aliphatic Azides. **2022**, 144, 16316-16324 1
- 142 Direct Amidation of Ferrocenyl/ Phenyl  $\alpha$ -Chlorocinnamaldehyde Assisted by Chalcogenide Metal Carbonyl Cluster. **2022**, 154163 0
- 141 Organocatalytic Activation of Inert Hydrosilane for Peptide Bond Formation. **2022**, 24, 7194-7199 1
- 140 Classes of Amides that Undergo Selective N-H Amide Bond Activation: The Emergence of Ground-State Destabilization. 1
- 139 Asymmetric Intermolecular Iodination Difunctionalization of Allylic Sulfonamides Enabled by Organosulfide Catalysis: Modular Entry to Iodinated Chiral Molecules. **2022**, 144, 16490-16501 1
- 138 Mild Amide N-Arylation Enabled by Nickel-Photoredox Catalysis. **2022**, 24, 7134-7139 1

- 137 Preparation of N-Aryl Amides by Epimerization-Free Umpolung Amide Synthesis. **2022**, 144, 16708-16714 0
- 136 Amine Activation: Inverse Dipeptide Synthesis and Amide Function Formation through Activated Amino Compounds. **2022**, 87, 12148-12163 1
- 135 Electrochemical Amidation: Benzoyl Hydrazine/Carbazate and Amine as Coupling Partners. **2022**, 24, 6619-6624 1
- 134 The synthesis of amides from benzoic acids and dicarbodiimides under catalyst-free conditions. **2022**, 19, 0
- 133 Synthesis of Phenols from Aryl Ammonium Salts under Mild Conditions. **2022**, 87, 12677-12687 0
- 132 Expanding the Substrate Scope of Native Amine Dehydrogenases through In Silico Structural Exploration and Targeted Protein Engineering. 0
- 131 B<sub>N</sub>/B<sub>H</sub> Transborylation: borane-catalysed nitrile hydroboration. 18, 1332-1337 0
- 130 Copper-catalyzed hydroamination of polyfluoroalkyl substituted alkenes via asymmetric radical cross-coupling access to chiral tertiary alkylamines. **2022**, 2, 2379-2390 0
- 129 Zinc-free, Scalable Reductive Cross-Electrophile Coupling Driven by Electrochemistry in an Undivided Cell. 12617-12626 3
- 128 Visible Light-Induced C-5 Selective C-H Radical Borylation of Imidazo[1,2-a]pyridines with NHC-Boranes. 2
- 127 A S<sub>N</sub>1 mechanistic approach to the Williamson ether reaction via photoredox catalysis applied to benzylic C(sp<sup>3</sup>) bonds. **2022**, 125, 132986 0
- 126 Copper-catalyzed benzylic C-H amidation of toluene derivatives with N-(8-quinolyl)amides through C(sp<sup>3</sup>)/N cross dehydrogenative coupling. **2022**, 133066 0
- 125 Photoinduced Copper-Catalyzed C-H Functionalization. 1-42 0
- 124 Ligand-Free Pd-Catalyzed Reductive Mizoroki-Heck Reaction Strategy for the One-Pot Synthesis of Functionalized Oxygen Heterocycles in Deep Eutectic Solvents. 0
- 123 Native Functional Group Directed Distal C(sp<sup>3</sup>)-H Activation of Aliphatic Systems. 0
- 122 A Vending Machine for Drug-like Molecules - Automated Synthesis of Virtual Screening Hits. 0
- 121 Exploration of piperidine 3D fragment chemical space: synthesis and 3D shape analysis of fragments derived from 20 regio- and diastereoisomers of methyl substituted pipercolinates. 0
- 120 Aryl diazonium intermediates enable mild DNA-compatible C-C bond formation for medically relevant combinatorial library synthesis. 1

119	Recent Advancement in Palladium-Catalyzed C-C Bond Activation of Strained Ring Systems: Three- and Four-Membered Carbocycles as Prominent C3/C4 Building Blocks. 13247-13281	1
118	Discovery of Nanomolar-Affinity Pharmacological Chaperones Stabilizing the Oncogenic p53 Mutant Y220C.	4
117	The Time and Place for Nature in Drug Discovery.	3
116	Highly Enantioselective Brønsted Acid Catalyzed Heyns Rearrangement.	0
115	Application of New Magnetic Graphene Oxide-Porphyrin Nanoparticles for Synthesis of Pyridines and Pyrimidines via Anomeric-Based Oxidation. <b>2022</b> , 7,	0
114	Radical cross-coupling access to chiral tertiary alkylamines by a Cu(I) catalyst. <b>2022</b> , 2, 2454-2457	0
113	Highly Enantioselective Brønsted Acid Catalyzed Heyns Rearrangement.	0
112	Electrochemical Diazidation of Alkenes Catalyzed by Manganese Porphyrin Complexes with Second-Sphere Hydrogen-Bond Donors. 14106-14112	1
111	Direct Boronic Acid Promoted Amidation of Carboxylic Acids with Poorly Nucleophilic Amines. <b>2022</b> , 2022,	0
110	Alkyne Coupling and Cyclization on Metal Cluster Complexes. Additions and Couplings of Dimethyl acetylenedicarboxylate to Ru <sub>6</sub> (β-C)(CO) <sub>14</sub> (β-H-C <sub>4</sub> H <sub>4</sub> ). <b>2022</b> , 982, 122538	0
109	Oxidized hydroxypropyl cellulose/carboxymethyl chitosan hydrogels permit pH-responsive, targeted drug release. <b>2023</b> , 300, 120213	2
108	Earth-Abundant Metal-Catalyzed Asymmetric Hydrogenation of Carbon-Nitrogen Unsaturated Bonds. <b>2022</b> , 42, 3213	1
107	Therapeutic in vivo synthetic chemistry using an artificial metalloenzyme with glycosylated human serum albumin. <b>2022</b> ,	0
106	Highly Electrophilic Silver Carbenes.	0
105	Functional Regioregular (Poly)urethanes from Soft Nucleophiles and Cyclic Iminocarbonates.	0
104	Exploration of electronic and non-linear optical properties of novel 4-Aryl-2-methylpyridine based compounds synthesized via high-yielding Pd(0) catalysed reaction. <b>2023</b> , 1274, 134469	0
103	Using enzymes to tame nitrogen-centred radicals for enantioselective hydroamination.	1
102	Synthesis of Multi-arylated Pyridines via Tandem Oxidative Reaction. <b>2022</b> , 154243	0

- 101 Cu-Diimine Compounds Encapsulated in Porous Materials as Catalysts for Electrophilic Amination of Aromatic C-H Bonds. 0
- 100 Metal-free radical difunctionalization of ethylene. **2022**, 1
- 99 Intermolecular Redox-Neutral Carboamination of C=C Multiple Bonds Initiated by Transition-Metal-Catalyzed C-H Activation. 14754-14772 3
- 98 Copper hydride catalysis enables facile access to fluorinated chiral tertiary trialkylamines. **2022**, 2, 2802-2804 0
- 97 Strategies for successful Suzuki-Miyaura cross-couplings with thienylboronic acids: From model studies to dye structures. **2023**, 209, 110899 0
- 96 Synthesis of amines: From a microwave batch reactor to a continuous milliflow reactor with heterogeneous feed and product. **2023**, 183, 109252 0
- 95 Predictive chemistry: machine learning for reaction deployment, reaction development, and reaction discovery. 0
- 94 Pd-catalyzed access to mono- and di-fluoroallylic amines from primary anilines. 0
- 93 Easy access to Ugi-derived isatin-peptoids and their potential as small-molecule anticancer agents. 0
- 92 Rational ligand modification maximizes turnover rate in a model Pd-catalyzed C-H arylation. **2023**, 26, 105790 0
- 91 Anti-virulence activity of novel (1-heteroaryloxy-2-hydroxypropyl)-phenylpiperazine derivatives against both wild-type and clinical drug-resistant *Candida albicans* strains. 0
- 90 Aminium-Radical-Mediated Intermolecular Hydroamination of Nonactivated Olefins. 0
- 89 Pd-Catalyzed C(sp<sup>3</sup>)H Activation by Native Directing Groups. 1-71 0
- 88 Past, Present, and Future: A Changing Paradigm for Process Chemistry. 333-355 0
- 87 Functionalized Tetrazoles as Latent Active Esters in the Synthesis of Amide Bonds. 0
- 86 Pd<sup>0</sup>-Catalyzed Asymmetric Carbonitration Reaction Featuring an H-Bonding-Driven AlkylPd II  $\text{NO}_2$  Reductive Elimination. 0
- 85 Pd<sup>0</sup>-Catalyzed Asymmetric Carbonitration Reaction Featuring an H-Bonding-Driven AlkylPd II  $\text{NO}_2$  Reductive Elimination. 0
- 84 Nickel-mediated Ortho C(sp<sup>2</sup>)H Alkoxylation of Amides. **2022**, 7, 0

83	Development of an automated platform for C(sp <sup>3</sup> )-C(sp <sup>3</sup> ) bond formation via XAT chemistry.	0
82	Stereospecific/stereoselective Nickel catalyzed reductive cross-coupling: An efficient tool for the synthesis of biological active targeted molecules. <b>2022</b> , 101589	0
81	Interrogating Redox and Lewis Base Activations of Aminoboranes. <b>2022</b> , 41, 3845-3851	0
80	Anthrazoline photocatalyst for promoting esterification and etherification reactions via photoredox/nickel dual catalysis.	0
79	Stereoselective Construction of Tertiary Homoallyl Alcohols and Ethers by Nucleophilic Substitution at Quaternary Carbon Stereocenters.	0
78	Stereoselective Construction of Tertiary Homoallyl Alcohols and Ethers by Nucleophilic Substitution at Quaternary Carbon Stereocenters.	3
77	End-to-End Automated Synthesis of C(sp <sup>3</sup> )-Enriched Drug-like Molecules via Negishi Coupling and Novel, Automated Liquid-Liquid Extraction.	0
76	Sequential Iron-Catalyzed C(sp <sup>2</sup> )-C(sp <sup>3</sup> ) Cross-Coupling of Chlorobenzamides/Chemoselective Amide Reduction and Reductive Deuteration to Benzylic Alcohols. <b>2023</b> , 28, 223	0
75	Rhodium(III)-Catalyzed Anti-Markovnikov Hydroamidation of Unactivated Alkenes Using Dioxazolones as Amidating Reagents. <b>2022</b> , 144, 22426-22432	1
74	La-Catalyzed Decarbonylation of Formamides and Its Applications.	1
73	One-Pot Sequential Hydroamination Protocol for N-Heterocycle Synthesis: One Method To Access Five Different Classes of Tri-Substituted Pyridines.	0
72	Mechanochemical Defluorinative Arylation of Trifluoroacetamides: An Entry to Aromatic Amides.	0
71	Nickel-catalyzed alkene <i>ipso</i> -selective reductive hydroamination with nitroarenes. <b>2022</b> , 52, 1	0
70	Transition-Metal Free Radical-Mediated C≡C Bond Alkynylation and Allylation of Ethers, Aldehydes and Amides. <b>2022</b> , 42, 4340	0
69	Revisiting carboxylic groups functionalization of silica sol-gel materials.	1
68	An efficient and practical synthesis of functionalized pyridines via recyclable copper-catalyzed three-component tandem cyclization. 1-12	0
67	The Colloidal Properties of Nanocellulose.	0
66	DMAPO/Boc <sub>2</sub> O-Mediated One-Pot Direct N-Acylation of Less Nucleophilic N-Heterocycles with Carboxylic Acids.	0

- 65 Radical Arylaminoformylation of Activated Alkenes to Amides Containing All-Carbon Quaternary Stereocenters. 0
- 64 Divergent Acyl and Decarboxylative Liebeskind-Brogl Cross-Coupling of Thioesters by Cu-Cofactor and Pd-NHC (NHC = N-Heterocyclic Carbene) Catalysis. 1848-1855 0
- 63 Active ester-based peptide bond formation and its application in peptide synthesis. 0
- 62 Practical N-alkylation via homogeneous iridium-catalyzed direct reductive amination. 0
- 61 A Widely Applicable and Versatile Method for the Ring-Opening 1,3-Carbocarbonation of Donor-Acceptor Cyclopropanes. 1
- 60 Thioester-mediated biocatalytic amide bond synthesis with in situ thiol recycling. 0
- 59 Comprehensive Theoretical Study of Cp\*Ir(III)-Catalyzed Intermolecular Enantioselective Allylic C-H Amidation: Reaction Mechanism, Electronic Processes, and Regioselectivity. 0
- 58 Base-Mediated N-Acetylation of Anilines/Amines: Nitriles as a Surrogate of the Acetyl Group. 2023, 8, 0
- 57 Large-Scale Amide Coupling in Aqueous Media: Process for the Production of Diazabicyclooctane  $\beta$ -Lactamase Inhibitors. 2023, 27, 120-128 1
- 56 Pd-Catalyzed Amination of Base-Sensitive Five-Membered Heteroaryl Halides with Aliphatic Amines. 0
- 55 EFMC Trends that Link Medicinal Chemistry and Chemical Biology to Translational Drug Discovery. 0
- 54 Visible-Light-Induced Dehydrogenative Amidation of Aldehydes Enabled by Iron Salts. 0
- 53 Photocatalytic Late-Stage C-H Functionalization. 0
- 52 Photoinduced, metal- and photosensitizer-free decarboxylative C-H (amino)alkylation of heteroarenes in a sustainable solvent. 1
- 51 Organic photoredox catalyzed dealkylation/acylation of tertiary amines to access amides. 0
- 50 Native Amides as Enabling Vehicles for Forging sp<sup>3</sup>sp<sup>3</sup> Architectures via Interrupted Deaminative Ni-Catalyzed Chain-Walking. 1
- 49 Enantioselective transformations of 5-hydroxymethylfurfural via catalytic asymmetric 1,3-dipolar cycloaddition of azomethine ylides. 2023, 59, 4336-4339 0
- 48 Chemical development: Synthetic studies and engineering including aspects of batch production and continuous processing. 2023, 539-551 0

- 47 Drug discovery: Standing on the shoulders of giants. **2023**, 207-338 ○
- 46 Facile synthesis of a new covalent organic framework (COF-AYLIN) based on polyamide links and their application in C N coupling reaction. **2023**, 552, 121494 ○
- 45 Sustainable amidation through acceptorless dehydrogenative coupling by pincer-type catalysts: recent advances. **2023**, 95, 109-124 ○
- 44 Scaffold Remodelling of Diazaspirotricycles Enables Synthesis of Diverse sp<sup>3</sup>-Rich Compounds With Distinct Phenotypic Effects. ○
- 43 Direct synthesis of amides through transamidation using dichloroimidazolinedione (DCID). **2023**, 118, 154392 ○
- 42 N-Amidation of Nitrogen-Containing Heterocyclic Compounds: Can We Apply Enzymatic Tools?. **2023**, 10, 222 ○
- 41 Kinetic Resolution of 2-Cinnamylpyrrolines Enabled by Photoexcited Chiral Copper Complex-Mediated Alkene E-Z Isomerization. **2023**, 13, 2857-2866 ○
- 40 Controlling Ibrutinib Conformations about Its Heterobiaryl Axis to Increase BTK Selectivity. **2023**, 14, 305-311 ○
- 39 Heterocyclic Boron Acid Catalyzed Dehydrative Amidation of Aliphatic/Aromatic Carboxylic Acids with Amines. **2023**, 88, 2832-2840 ○
- 38 In Silico, In Vitro, and Ex Vivo Biological Activity of Some Novel Mebeverine Precursors. **2023**, 11, 605 ○
- 37 Catalytic Reductive Amination of Aromatic Aldehydes on Co-Containing Composites. **2023**, 5, 281-293 1
- 36 Electrochemical C-N coupling of CO<sub>2</sub> and nitrogenous small molecules for the electrosynthesis of organonitrogen compounds. **2023**, 52, 2193-2237 ○
- 35 GreenMedChem: the challenge in the next decade toward eco-friendly compounds and processes in drug design. **2023**, 25, 2109-2169 ○
- 34 Oxidative Cyclization of N-Aryl Heteroaryl Methanamines with Arylalkenes. **2023**, 365, 906-910 ○
- 33 Native Amino Group Directed Site-Selective C(sp<sup>2</sup>)-Iodination of Primary Amines. **2023**, 25, 1348-1352 ○
- 32 Discovery of 2-Aminopyrimidines as Potent Agonists for the Bitter Taste Receptor TAS2R14. **2023**, 66, 3499-3521 ○
- 31 Ligand-enabled silver-catalyzed carbene insertion into the N-H bond of aliphatic and electron-rich aromatic amines. **2023**, 10, 1746-1753 ○
- 30 New efficient synthesis, spectroscopic characterization, and X-ray analysis of novel  $\alpha$ -aminocarboxamide derivatives. **2023**, 49, 1349-1368 ○

- 29 Reduction of Nitro Group by Sulfide and Its Applications in Amine Synthesis. **2023**, 43, 491 ○
- 28 Synthesis of Aryl-methylene Ethers through Pd(0)-Catalyzed Coupling between Hydrobenzoxazoles and Dichloromethane. **2023**, 25, 1458-1463 ○
- 27 A unified approach to benzo[c]phenanthridines via the cascade dual-annulation/formylation of 2-alkynyl/alkenylbenzonitriles. **2023**, 59, 3723-3726 ○
- 26 Transition metal catalyzed C-H functionalization through electrocatalysis. ○
- 25 B<sub>2</sub>(OH)<sub>4</sub>-Mediated Reductive Transamidation of N-Acyl Benzotriazoles with Nitro Compounds En Route to Aqueous Amide Synthesis. **2023**, 88, 3714-3723 ○
- 24 Pd/Ni Co-catalyzed Selective Cross-Coupling of Aryl Bromides and Aryl Fluorosulfonates at Room Temperature. ○
- 23 Recent Development in the Catalytic Applications of Pd-NHC (NHC=N-Heterocyclic Carbene) Compounds in Amide C-N Activation Reactions. **2023**, 12, ○
- 22 Hydrogen-free palladium-catalyzed intramolecular anti-Markovnikov hydroaminocarbonylation of 2-(1-methylvinyl)anilines. **2023**, 59, 3755-3758 ○
- 21 Palladium Schiff base complex-modified Cu(BDC-NH<sub>2</sub>) metal-organic frameworks for C-N coupling. **2023**, 13, 8114-8129 ○
- 20 A general catalyst for Buchwald-Hartwig amination to prepare secondary five-membered heteroaryl amines with breaking the base barrier. **2023**, 422, 36-42 ○
- 19 Room-Temperature Cu-Catalyzed Amination of Aryl Bromides Enabled by DFT-Guided Ligand Design. **2023**, 145, 6966-6975 ○
- 18 Collaboration as a Key to Advance Capabilities for Earth-Abundant Metal Catalysis. ○
- 17 [4 + 2] Cycloadditions Catalyzed by Nucleophilic Catalysts. **2022**, ○
- 16 Recent Advances in the Synthesis of Di- and Trisubstituted Hydroxylamines. **2023**, 28, 2816 ○
- 15 Site-selective Hydrogenation/Deuteration of Benzylic Olefins Enabled by Electroreduction Using Water. ○
- 14 Palladium-Catalyzed Carbonylation of Amines with Mo(CO)<sub>6</sub> as the Carbonyl Source. **2023**, 42, 588-596 ○
- 13 Ring-Opening Cyclization (ROC) of Aziridines with Propargyl Alcohols: Synthesis of 3,4-Dihydro-2H-1,4-oxazines. **2023**, 88, 4504-4518 ○
- 12 Mechanistic investigation of electrocatalytic reductive amination at copper electrode. **2023**, 59, 4818-4821 ○

- 11 Recent Advances in Carbon-Nitrogen/Carbon-Oxygen Bond Formation Under Transition-Metal-Free Conditions. ○
- 10 Orthogonal C-D Bond Construction with Organogermanes. **2023**, 145, 7729-7735 ○
- 9 Structural authentication of intermediates of mechanistic significance in palladium- and nickel-catalysed cross-couplings: case studies. ○
- 8 Transition-metal-free silylboronate-mediated cross-couplings of organic fluorides with amines. **2023**, 14, ○
- 7 Nickel-Catalyzed Enantioselective Reductive Arylation and Heteroarylation of Aldimines via an Elementary 1,4-Addition. ○
- 6 New azole-derived hemiaminal ethers as promising acetylcholinesterase inhibitors: synthesis, X-ray structures, *in vitro* and *in silico* studies. 1-14 ○
- 5 A one-step base-free synthesis of N-arylamides via modified pivaloyl mixed anhydride mediated amide coupling. ○
- 4 Effect of Flexible Chain Length of Graphene-supported Palladium Complex Catalyst on Suzuki-Miyaura Coupling Activity. ○
- 3 Rapid Elaboration of Fragments into Leads Applied to Bromodomain-3 Extra-Terminal Domain. ○
- 2 Automated, Capsule-Based Suzuki-Miyaura Cross Couplings. ○
- 1 One-Pot Synthesis of Pentasubstituted Pyridines following the Gold(I)-Catalyzed Azide-Alkyne Metathesis/6 $\pi$ Electrocyclization/Aromatization Sequence. ○