

Michal Szostak

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7013509/michal-szostak-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. 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.

221
papers

10,548
citations

61
h-index

92
g-index

247
ext. papers

12,820
ext. citations

8.1
avg, IF

7.57
L-index

#	Paper	IF	Citations
221	Cross-coupling reactions using samarium(II) iodide. <i>Chemical Reviews</i> , 2014 , 114, 5959-6039	68.1	267
220	Synthesis of Biaryls through Nickel-Catalyzed Suzuki-Miyaura Coupling of Amides by Carbon-Nitrogen Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6959-63	16.4	239
219	General Olefin Synthesis by the Palladium-Catalyzed Heck Reaction of Amides: Sterically Controlled Chemoselective N-C Activation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14518-22	16.4	234
218	Twisted Amides: From Obscurity to Broadly Useful Transition-Metal-Catalyzed Reactions by N-C Amide Bond Activation. <i>Chemistry - A European Journal</i> , 2017 , 23, 7157-7173	4.8	226
217	Well-Defined Palladium(II)-NHC Precatalysts for Cross-Coupling Reactions of Amides and Esters by Selective N-C/O-C Cleavage. <i>Accounts of Chemical Research</i> , 2018 , 51, 2589-2599	24.3	226
216	N-Heterocyclic Carbene Complexes in C-H Activation Reactions. <i>Chemical Reviews</i> , 2020 , 120, 1981-2048	68.1	211
215	Sterically Controlled Pd-Catalyzed Chemoselective Ketone Synthesis via N-C Cleavage in Twisted Amides. <i>Organic Letters</i> , 2015 , 17, 4364-7	6.2	208
214	Recent Developments in the Synthesis and Reactivity of Isoxazoles: Metal Catalysis and Beyond. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 2583-2614	5.6	207
213	P-Doped Porous Carbon as Metal Free Catalysts for Selective Aerobic Oxidation with an Unexpected Mechanism. <i>ACS Nano</i> , 2016 , 10, 2305-15	16.7	195
212	Recent Developments in Ruthenium-Catalyzed C _H Arylation: Array of Mechanistic Manifolds. <i>ACS Catalysis</i> , 2017 , 7, 5721-5745	13.1	191
211	Chemistry of bridged lactams and related heterocycles. <i>Chemical Reviews</i> , 2013 , 113, 5701-65	68.1	180
210	Cross-Coupling of Amides by N-C Bond Activation. <i>Synlett</i> , 2016 , 27, 2530-2540	2.2	179
209	Rhodium-Catalyzed C-H Bond Functionalization with Amides by Double C-H/C-N Bond Activation. <i>Organic Letters</i> , 2016 , 18, 796-9	6.2	168
208	Iron-Catalyzed Cross-Couplings in the Synthesis of Pharmaceuticals: In Pursuit of Sustainability. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11116-11128	16.4	153
207	Recent advances in the chemoselective reduction of functional groups mediated by samarium(II) iodide: a single electron transfer approach. <i>Chemical Society Reviews</i> , 2013 , 42, 9155-83	58.5	152
206	General Method for the Suzuki-Miyaura Cross-Coupling of Amides Using Commercially Available, Air- and Moisture-Stable Palladium/NHC (NHC = N-Heterocyclic Carbene) Complexes. <i>ACS Catalysis</i> , 2017 , 7, 1960-1965	13.1	130
205	Graphene-Catalyzed Direct Friedel-Crafts Alkylation Reactions: Mechanism, Selectivity, and Synthetic Utility. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14473-80	16.4	130

204	Decarbonylative Phosphorylation of Amides by Palladium and Nickel Catalysis: The Hirao Cross-Coupling of Amide Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12718-12722	16.4	127
203	Beyond samarium diiodide: vistas in reductive chemistry mediated by lanthanides(II). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9238-56	16.4	126
202	Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Amides via Site-Selective N-C Bond Cleavage by Cooperative Catalysis. <i>ACS Catalysis</i> , 2016 , 6, 7335-7339	13.1	122
201	Reversible Twisting of Primary Amides via Ground State N-C(O) Destabilization: Highly Twisted Rotationally Inverted Acyclic Amides. <i>Journal of the American Chemical Society</i> , 2018 , 140, 727-734	16.4	119
200	Palladium-catalyzed Suzuki-Miyaura coupling of amides by carbon-nitrogen cleavage: general strategy for amide N-C bond activation. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 5690-707	3.9	117
199	Suzuki-Miyaura cross-coupling of amides and esters at room temperature: correlation with barriers to rotation around C-N and C-O bonds. <i>Chemical Science</i> , 2017 , 8, 6525-6530	9.4	117
198	Pd-PEPPSI: a general Pd-NHC precatalyst for Buchwald-Hartwig cross-coupling of esters and amides (transamidation) under the same reaction conditions. <i>Chemical Communications</i> , 2017 , 53, 10584-10587	5.8	112
197	A General Method for Two-Step Transamidation of Secondary Amides Using Commercially Available, Air- and Moisture-Stable Palladium/NHC (N-Heterocyclic Carbene) Complexes. <i>Organic Letters</i> , 2017 , 19, 2158-2161	6.2	108
196	Metal-Free Transamidation of Secondary Amides via Selective N-C Cleavage under Mild Conditions. <i>Organic Letters</i> , 2017 , 19, 1614-1617	6.2	107
195	Recent Advances in Acyl Suzuki Cross-Coupling. <i>Catalysts</i> , 2019 , 9, 53	4	106
194	Ground-State Distortion in N-Acyl-tert-butyl-carbamates (Boc) and N-Acyl-tosylamides (Ts): Twisted Amides of Relevance to Amide N-C Cross-Coupling. <i>Journal of Organic Chemistry</i> , 2016 , 81, 8091-4	4.2	105
193	Highly selective transition-metal-free transamidation of amides and amidation of esters at room temperature. <i>Nature Communications</i> , 2018 , 9, 4165	17.4	104
192	Selective reductive transformations using samarium diiodide-water. <i>Chemical Communications</i> , 2012 , 48, 330-46	5.8	102
191	Highly chemoselective reduction of amides (primary, secondary, tertiary) to alcohols using SmI ₂ /amine/H ₂ O under mild conditions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2268-71	16.4	101
190	Decarbonylative cross-coupling of amides. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 7998-8010	3.9	101
189	N-Acyl-Glutarimides: Privileged Scaffolds in Amide N-C Bond Cross-Coupling. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 2352-2365	3.2	99
188	Highly Chemoselective, Transition-Metal-Free Transamidation of Unactivated Amides and Direct Amidation of Alkyl Esters by N-C/O-C Cleavage. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11161-11172	16.4	119
187	Efficient Synthesis of Diaryl Ketones by Nickel-Catalyzed Negishi Cross-Coupling of Amides by Carbon-Nitrogen Bond Cleavage at Room Temperature Accelerated by a Solvent Effect. <i>Chemistry - A European Journal</i> , 2016 , 22, 10420-4	4.8	89

186	N-Acylsaccharins: Stable Electrophilic Amide-Based Acyl Transfer Reagents in Pd-Catalyzed Suzuki-Miyaura Coupling via N-C Cleavage. <i>Organic Letters</i> , 2016 , 18, 4194-7	6.2	89
185	Nickel-Catalyzed Diaryl Ketone Synthesis by N-C Cleavage: Direct Negishi Cross-Coupling of Primary Amides by Site-Selective N,N-Di-Boc Activation. <i>Organic Letters</i> , 2016 , 18, 5872-5875	6.2	88
184	Structures of Highly Twisted Amides Relevant to Amide N-C Cross-Coupling: Evidence for Ground-State Amide Destabilization. <i>Chemistry - A European Journal</i> , 2016 , 22, 14494-8	4.8	87
183	Pd-PEPPSI: Pd-NHC Precatalyst for Suzuki-Miyaura Cross-Coupling Reactions of Amides. <i>Journal of Organic Chemistry</i> , 2017 , 82, 6638-6646	4.2	87
182	Ruthenium(II)-Catalyzed Regioselective C-H Arylation of Cyclic and N,N-Dialkyl Benzamides with Boronic Acids by Weak Coordination. <i>ACS Catalysis</i> , 2016 , 6, 4755-4759	13.1	80
181	N-Acylsaccharins as Amide-Based Arylating Reagents via Chemoselective N-C Cleavage: Pd-Catalyzed Decarbonylative Heck Reaction. <i>Journal of Organic Chemistry</i> , 2016 , 81, 12023-12030	4.2	79
180	Decarbonylative Cyanation of Amides by Palladium Catalysis. <i>Organic Letters</i> , 2017 , 19, 3095-3098	6.2	78
179	Suzuki-Miyaura Cross-Coupling of N-Acylpyrroles and Pyrazoles: Planar, Electronically Activated Amides in Catalytic N-C Cleavage. <i>Organic Letters</i> , 2017 , 19, 3596-3599	6.2	77
178	Iron-Catalyzed C-O Bond Activation: Opportunity for Sustainable Catalysis. <i>ChemSusChem</i> , 2017 , 10, 3968-3981	6.3	74
177	An efficient computational model to predict protonation at the amide nitrogen and reactivity along the C-N rotational pathway. <i>Chemical Communications</i> , 2015 , 51, 6395-8	5.8	71
176	Acyl and Decarbonylative Suzuki Coupling of N-Acetyl Amides: Electronic Tuning of Twisted, Acyclic Amides in Catalytic Carbon-Nitrogen Bond Cleavage. <i>ACS Catalysis</i> , 2018 , 8, 9131-9139	13.1	70
175	Resonance Destabilization in N-Acylanilines (Anilides): Electronically-Activated Planar Amides of Relevance in N-C(O) Cross-Coupling. <i>Journal of Organic Chemistry</i> , 2017 , 82, 6373-6378	4.2	67
174	Decarbonylative thioetherification by nickel catalysis using air- and moisture-stable nickel precatalysts. <i>Chemical Communications</i> , 2018 , 54, 2130-2133	5.8	67
173	General Olefin Synthesis by the Palladium-Catalyzed Heck Reaction of Amides: Sterically Controlled Chemoselective N \rightarrow C Activation. <i>Angewandte Chemie</i> , 2015 , 127, 14726-14730	3.6	67
172	Determination of the effective redox potentials of SmI \rightarrow SmBr \rightarrow SmCl \rightarrow and their complexes with water by reduction of aromatic hydrocarbons. Reduction of anthracene and stilbene by samarium(II) iodide-water complex. <i>Journal of Organic Chemistry</i> , 2014 , 79, 2522-37	4.2	66
171	Amide Bond Activation: The Power of Resonance. <i>Trends in Chemistry</i> , 2020 , 2, 914-928	14.8	66
170	Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16721-16726	16.4	66
169	Preparation of samarium(II) iodide: quantitative evaluation of the effect of water, oxygen, and peroxide content, preparative methods, and the activation of samarium metal. <i>Journal of Organic Chemistry</i> , 2012 , 77, 3049-59	4.2	65

168	Electron transfer reduction of unactivated esters using SmI ₂ -H ₂ O. <i>Chemical Communications</i> , 2011 , 47, 10254-6	5.8	65
167	Medium-bridged lactams: a new class of non-planar amides. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 27-35	3.9	65
166	Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of N-Mesylamides by N-C Cleavage: Electronic Effect of the Mesyl Group. <i>Organic Letters</i> , 2017 , 19, 1434-1437	6.2	64
165	Highly chemoselective ruthenium(ii)-catalyzed direct arylation of cyclic and α -dialkyl benzamides with aryl silanes. <i>Chemical Science</i> , 2017 , 8, 3204-3210	9.4	63
164	Structural Characterization of N-Alkylated Twisted Amides: Consequences for Amide Bond Resonance and N-C Cleavage. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5062-6	16.4	63
163	Site-Selective C-H/C-N Activation by Cooperative Catalysis: Primary Amides as Arylating Reagents in Directed C-H Arylation. <i>ACS Catalysis</i> , 2017 , 7, 7251-7256	13.1	63
162	Concise syntheses of strychnine and englerin A: the power of reductive cyclizations triggered by samarium iodide. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7737-9	16.4	62
161	Ruthenium(II)-Catalyzed Direct C-H Arylation of Indoles with Arylsilanes in Water. <i>Organic Letters</i> , 2018 , 20, 341-344	6.2	61
160	Synthesis of Biaryls through Nickel-Catalyzed Suzuki-Miyaura Coupling of Amides by Carbon-Nitrogen Bond Cleavage. <i>Angewandte Chemie</i> , 2016 , 128, 7073-7077	3.6	59
159	Chemoselective Ketone Synthesis by the Addition of Organometallics to N-Acylazetidines. <i>Organic Letters</i> , 2016 , 18, 2375-8	6.2	59
158	Mechanistic Study of Suzuki-Miyaura Cross-Coupling Reactions of Amides Mediated by [Pd(NHC)(allyl)Cl] Precatalysts. <i>ChemCatChem</i> , 2018 , 10, 3096-3106	5.2	58
157	Determination of Structures and Energetics of Small- and Medium-Sized One-Carbon-Bridged Twisted Amides using ab Initio Molecular Orbital Methods: Implications for Amidic Resonance along the C-N Rotational Pathway. <i>Journal of Organic Chemistry</i> , 2015 , 80, 7905-27	4.2	57
156	[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. <i>Organic Letters</i> , 2019 , 21, 3304-3309	6.2	56
155	Ketyl-type radicals from cyclic and acyclic esters are stabilized by SmI ₂ (H ₂ O) _n : the role of SmI ₂ (H ₂ O) _n in post-electron transfer steps. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8459-66	16.4	55
154	Transition-Metal-Free Esterification of Amides via Selective N-C Cleavage under Mild Conditions. <i>Organic Letters</i> , 2018 , 20, 5622-5625	6.2	54
153	N-Acyl-glutarimides: Resonance and Proton Affinities of Rotationally-Inverted Twisted Amides Relevant to N-C(O) Cross-Coupling. <i>Organic Letters</i> , 2018 , 20, 1342-1345	6.2	53
152	N-Methylamino Pyrimidyl Amides (MAPA): Highly Reactive, Electronically-Activated Amides in Catalytic N-C(O) Cleavage. <i>Organic Letters</i> , 2017 , 19, 4656-4659	6.2	52
151	General Method for the Suzuki-Miyaura Cross-Coupling of Primary Amide-Derived Electrophiles Enabled by [Pd(NHC)(cin)Cl] at Room Temperature. <i>Organic Letters</i> , 2017 , 19, 6510-6513	6.2	52

150	Pd-PEPPSI: A General Pd-NHC Precatalyst for Suzuki-Miyaura Cross-Coupling of Esters by C-D Cleavage. <i>Organometallics</i> , 2017 , 36, 3784-3789	3.8	51
149	Selective reduction of barbituric acids using SmI ₂ /H ₂ O: synthesis, reactivity, and structural analysis of tetrahedral adducts. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12559-63	16.4	51
148	Electron transfer reduction of carboxylic acids using SmI ₂ -H ₂ O-Et ₃ N. <i>Organic Letters</i> , 2012 , 14, 840-3	6.2	50
147	Palladium-catalyzed decarbonylative Suzuki-Miyaura cross-coupling of amides by carbon-nitrogen bond activation. <i>Chemical Science</i> , 2019 , 10, 9865-9871	9.4	49
146	Eisenkatalysierte Kreuzkupplungen in der Synthese von Pharmazeutika: Streben nach Nachhaltigkeit. <i>Angewandte Chemie</i> , 2018 , 130, 11284-11297	3.6	48
145	Sterically-controlled intermolecular Friedel-Crafts acylation with twisted amides via selective N-C cleavage under mild conditions. <i>Chemical Communications</i> , 2016 , 52, 6841-4	5.8	47
144	Synthesis of Biaryls via Decarbonylative Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Carboxylic Acids. <i>IScience</i> , 2019 , 19, 749-759	6.1	46
143	Electron transfer reduction of nitriles using SmI ₂ -Et ₃ N-H ₂ O: synthetic utility and mechanism. <i>Organic Letters</i> , 2014 , 16, 1092-5	6.2	45
142	Transamidation of N-acyl-glutarimides with amines. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 1322-1329	3.9	44
141	Ruthenium(0)-Catalyzed C-H Arylation of Aromatic Imines under Neutral Conditions: Access to Biaryl Aldehydes. <i>Organic Letters</i> , 2016 , 18, 4186-9	6.2	43
140	Structural characterization of N-protonated amides: regioselective N-activation of medium-bridged twisted lactams. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8836-7	16.4	43
139	Aminoketyl Radicals in Organic Synthesis: Stereoselective Cyclization of Five- and Six-Membered Cyclic Imides to 2-Azabicycles Using SmI ₂ -H ₂ O. <i>Organic Letters</i> , 2015 , 17, 5144-7	6.2	42
138	A simple ¹ H NMR method for determining the donor properties of N-heterocyclic carbenes. <i>Tetrahedron Letters</i> , 2019 , 60, 378-381	2	42
137	Palladium/NHC (NHC = N-Heterocyclic Carbene)-Catalyzed B-Alkyl Suzuki Cross-Coupling of Amides by Selective N-C Bond Cleavage. <i>Organic Letters</i> , 2018 , 20, 6789-6793	6.2	42
136	Pd-PEPPSI: Water-Assisted Suzuki-Miyaura Cross-Coupling of Aryl Esters at Room Temperature using a Practical Palladium-NHC (NHC=N-Heterocyclic Carbene) Precatalyst. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 1538-1543	5.6	38
135	Selective synthesis of β-deuterio alcohols by the reduction of carboxylic acids using SmI ₂ and D ₂ O as deuterium source under SET conditions. <i>Organic Letters</i> , 2014 , 16, 5052-5	6.2	38
134	Synthesis of C ₆ -Substituted Isoquinolino[1,2-]quinazolines via Rh(III)-Catalyzed C-H Annulation with Sulfoxonium Ylides. <i>Journal of Organic Chemistry</i> , 2020 , 85, 3192-3201	4.2	37
133	A general electron transfer reduction of lactones using SmI ₂ -H ₂ O. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 5820-4	3.9	37

132	Substrate-directable electron transfer reactions. Dramatic rate enhancement in the chemoselective reduction of cyclic esters using SmI ₂ -H ₂ O: mechanism, scope, and synthetic utility. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15702-5	16.4	37
131	Proximity effects in nucleophilic addition reactions to medium-bridged twisted lactams: remarkably stable tetrahedral intermediates. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2078-84	16.4	37
130	N-Acylsuccinimides: twist-controlled, acyl-transfer reagents in Suzuki-Miyaura cross-coupling by N-C amide bond activation. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 8867-8871	3.9	36
129	Metal-Free Transamidation of Secondary Amides by N-C Cleavage. <i>Journal of Organic Chemistry</i> , 2019 , 84, 12091-12100	4.2	36
128	Jenseits von Samariumdiodid: Perspektiven für Lanthanoid(II)-vermittelte Reduktionen. <i>Angewandte Chemie</i> , 2012 , 124, 9372-9390	3.6	36
127	Recent Advances in the Synthesis and Reactivity of Isothiazoles. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 3050-3067	5.6	35
126	2-Methyltetrahydrofuran: A Green Solvent for Iron-Catalyzed Cross-Coupling Reactions. <i>ChemSusChem</i> , 2018 , 11, 1290-1294	8.3	35
125	Buchwald-Hartwig cross-coupling of amides (transamidation) by selective N-C(O) cleavage mediated by air- and moisture-stable [Pd(NHC)(allyl)Cl] precatalysts: catalyst evaluation and mechanism. <i>Catalysis Science and Technology</i> , 2020 , 10, 710-716	5.5	35
124	Cyclic ureas (DMI, DMPU) as efficient, sustainable ligands in iron-catalyzed C(sp ²)-C(sp ³) coupling of aryl chlorides and tosylates. <i>Green Chemistry</i> , 2017 , 19, 5361-5366	10	34
123	Decarbonylative Phosphorylation of Carboxylic Acids via Redox-Neutral Palladium Catalysis. <i>Organic Letters</i> , 2019 , 21, 9256-9261	6.2	34
122	The Most Twisted Acyclic Amides: Structures and Reactivity. <i>Organic Letters</i> , 2018 , 20, 7771-7774	6.2	34
121	Decarbonylative Phosphorylation of Amides by Palladium and Nickel Catalysis: The Hirao Cross-Coupling of Amide Derivatives. <i>Angewandte Chemie</i> , 2017 , 129, 12892-12896	3.6	33
120	Stability of medium-bridged twisted amides in aqueous solutions. <i>Journal of Organic Chemistry</i> , 2009 , 74, 1869-75	4.2	33
119	Transition-Metal-Free Activation of Amides by N-C Bond Cleavage. <i>Chemical Record</i> , 2020 , 20, 649-659	6.6	33
118	Transition-metal-catalyzed decarbonylation of carboxylic acids to olefins: exploiting acyl C=O activation for the production of high value products. <i>Organic Chemistry Frontiers</i> , 2018 , 5, 2515-2521	5.2	32
117	Mechanism of SmI ₂ /amine/H ₂ O-promoted chemoselective reductions of carboxylic acid derivatives (esters, acids, and amides) to alcohols. <i>Journal of Organic Chemistry</i> , 2014 , 79, 11988-2003	4.2	32
116	Uncovering the importance of proton donors in TmI ₂ -promoted electron transfer: facile C-N bond cleavage in unactivated amides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7237-41	16.4	32
115	Chemistry of Bridged Lactams: Recent Developments. <i>Molecules</i> , 2019 , 24,	4.8	32

114	Kurze Synthesen von Strychnin und Englerin A durch Samariumiodid-vermittelte reduktive Cyclisierungen. <i>Angewandte Chemie</i> , 2011 , 123, 7881-7883	3.6	31
113	Highly-chemoselective step-down reduction of carboxylic acids to aromatic hydrocarbons palladium catalysis. <i>Chemical Science</i> , 2019 , 10, 5736-5742	9.4	30
112	Redox-Neutral Decarbonylative Cross-Couplings Coming of Age. <i>ChemSusChem</i> , 2019 , 12, 2983-2987	8.3	30
111	Rh(III)-Catalyzed C-H Amidation of 2-Arylindoles with Dioxazolones: A Route to Indolo[1,2-]quinazolines. <i>Organic Letters</i> , 2019 , 21, 7038-7043	6.2	30
110	Nickel-Catalyzed Negishi Cross-Coupling of N-Acylsuccinimides: Stable, Amide-Based, Twist-Controlled Acyl-Transfer Reagents via Ni ^{II} Activation. <i>Synthesis</i> , 2017 , 49, 3602-3608	2.9	29
109	Corey-Chaykovsky epoxidation of twisted amides: synthesis and reactivity of bridged spiro-epoxyamines. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13246-7	16.4	29
108	Ruthenium(0)-catalyzed hydroarylation of alkynes via ketone-directed C-H functionalization using in situ-generated ruthenium complexes. <i>Chemical Communications</i> , 2016 , 52, 9715-8	5.8	28
107	Synthesis and rearrangement of a bridged thioamide. <i>Chemical Communications</i> , 2009 , 7122-4	5.8	28
106	Ruthenium(ii)-catalyzed ortho-C-H arylation of diverse N-heterocycles with aryl silanes by exploiting solvent-controlled N-coordination. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 4783-4788	3.9	27
105	Selective synthesis of 3-hydroxy acids from Meldrum's acids using SmI ₂ -H ₂ O. <i>Nature Protocols</i> , 2012 , 7, 970-7	18.8	27
104	The mitochondrial 2-oxoadipate and 2-oxoglutarate dehydrogenase complexes share their E2 and E3 components for their function and both generate reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2018 , 115, 136-145	7.8	27
103	Highly Chemoselective Synthesis of Indolizidine Lactams by SmI ₂ -Induced Umpolung of the Amide Bond via Aminoketyl Radicals: Efficient Entry to Alkaloid Scaffolds. <i>Chemistry - A European Journal</i> , 2016 , 22, 11949-53	4.8	25
102	Synthesis of Amides by Mild Palladium-Catalyzed Aminocarbonylation of Arylsilanes with Amines Enabled by Copper(II) Fluoride. <i>Journal of Organic Chemistry</i> , 2019 , 84, 338-345	4.2	25
101	2-Methyltetrahydrofuran (2-MeTHF): A Green Solvent for Pd/NHC-Catalyzed Amide and Ester Suzuki-Miyaura Cross-Coupling by Ni ^{II} /O ^{II} Cleavage. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 5654-5660	5.6	24
100	Direct synthesis of medium-bridged twisted amides via a transannular cyclization strategy. <i>Organic Letters</i> , 2009 , 11, 3878-81	6.2	24
99	[Pd(NHC)(ECl)Cl]: Versatile and Highly Reactive Complexes for Cross-Coupling Reactions that Avoid Formation of Inactive Pd(I) Off-Cycle Products. <i>IScience</i> , 2020 , 23, 101377	6.1	24
98	Triflamides: Highly Reactive, Electronically Activated N-Sulfonyl Amides in Catalytic N-C(O) Amide Cross-Coupling. <i>Organic Letters</i> , 2019 , 21, 1253-1257	6.2	24
97	Decarbonylative Borylation of Amides by Palladium Catalysis. <i>ACS Omega</i> , 2019 , 4, 4901-4907	3.9	23

96	Non-Classical Amide Bond Formation: Transamidation and Amidation of Activated Amides and Esters by Selective N α /O α Cleavage. <i>Synthesis</i> , 2020 , 52, 2579-2599	2.9	22
95	Ruthenium(0)-Catalyzed Cross-Coupling of Anilines with Organoboranes by Selective Carbon α Nitrogen Cleavage. <i>ACS Catalysis</i> , 2019 , 9, 8171-8177	13.1	22
94	On the role of pre- and post-electron-transfer steps in the SmI $_2$ /amine/H $_2$ O-mediated reduction of esters: new mechanistic insights and kinetic studies. <i>Chemistry - A European Journal</i> , 2014 , 20, 4222-6	4.8	22
93	Synthesis of medium-bridged twisted lactams via cation- π control of the regiochemistry of the intramolecular Schmidt reaction. <i>Journal of Organic Chemistry</i> , 2010 , 75, 1235-43	4.2	22
92	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10690-10699	16.4	22
91	Mechanistic Study of SmI/HO and SmI/Amine/HO-Promoted Chemoselective Reduction of Aromatic Amides (Primary, Secondary, Tertiary) to Alcohols via Aminoketyl Radicals. <i>Journal of Organic Chemistry</i> , 2017 , 82, 6528-6540	4.2	21
90	Barriers to Rotation in ortho-Substituted Tertiary Aromatic Amides: Effect of Chloro-Substitution on Resonance and Distortion. <i>Journal of Organic Chemistry</i> , 2018 , 83, 3159-3163	4.2	21
89	Switching between reaction pathways by an alcohol cosolvent effect: SmI $_2$ -ethylene glycol vs SmI $_2$ -H $_2$ O mediated synthesis of uracils. <i>Organic Letters</i> , 2014 , 16, 5694-7	6.2	21
88	Cation- π control of regiochemistry of intramolecular Schmidt reactions en route to bridged bicyclic lactams. <i>Organic Letters</i> , 2009 , 11, 4386-9	6.2	21
87	Recent Advances in Metal-Catalyzed Functionalization of Indoles. <i>Advanced Synthesis and Catalysis</i> , 2021 , 363, 2723-2739	5.6	21
86	N-Acylphthalimides: Efficient Acyl Coupling Reagents in Suzuki-Miyaura Cross-Coupling by N α Cleavage Catalyzed by Pd β PEPSI Precatalysts. <i>Catalysts</i> , 2019 , 9, 129	4	20
85	Ruthenium(II)-Catalyzed C-H Alkylation of Naphthylamines with Diazo Compounds for Synthesis of 2,2-Disubstituted β -Extended 3-Oxindoles in Water. <i>Organic Letters</i> , 2020 , 22, 5187-5192	6.2	19
84	Proton-coupled electron transfer in the reduction of carbonyls using SmI-HO: implications for the reductive coupling of acyl-type ketyl radicals with SmI-HO. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 9151-9157	3.9	19
83	The human Krebs cycle 2-oxoglutarate dehydrogenase complex creates an additional source of superoxide/hydrogen peroxide from 2-oxoadipate as alternative substrate. <i>Free Radical Biology and Medicine</i> , 2017 , 108, 644-654	7.8	18
82	Palladium-Catalyzed Synthesis of Benzothiophenes via Cross-Dehydrogenative Coupling of 4-Arylthiocoumarins and Pyrones. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 5709-5714	5.6	18
81	Synthesis, structural analysis, and reactivity of bridged orthoamides by intramolecular Schmidt reaction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2530-1	16.4	18
80	β -N-C Bond Difunctionalization in Bridged Twisted Amides: Sew-and-Cut Activation Approach to Functionalized Isoquinolines. <i>Organic Letters</i> , 2017 , 19, 2386-2389	6.2	17
79	Palladium-Catalyzed Cross-Couplings by C-O Bond Activation. <i>Catalysis Science and Technology</i> , 2020 , 10, 5702-5739	5.5	17

78	BIAN-NHC Ligands in Transition-Metal-Catalysis: A Perfect Union of Sterically Encumbered, Electronically Tunable N-Heterocyclic Carbenes?. <i>Chemistry - A European Journal</i> , 2021 , 27, 4478-4499	4.8	17
77	Recent advances in the synthesis and reactivity of azetidines: strain-driven character of the four-membered heterocycle. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 3274-3286	3.9	17
76	Sc(OTf)-catalyzed synthesis of anhydrides from twisted amides. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 1780-1785	3.9	16
75	Structural Characterization of N-Alkylated Twisted Amides: Consequences for Amide Bond Resonance and N-C Cleavage. <i>Angewandte Chemie</i> , 2016 , 128, 5146-5150	3.6	16
74	Synthesis of Nitrogen Heterocycles Using Samarium(II) Iodide. <i>Molecules</i> , 2017 , 22,	4.8	16
73	Sterically Hindered Ketones via Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Amides by N-C(O) Activation. <i>Organic Letters</i> , 2019 , 21, 7976-7981	6.2	15
72	Iron-Catalyzed C(sp ²)-C(sp ³) Cross-Coupling of Alkyl Grignard Reagents with Polyaromatic Tosylates. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 7271-7276	3.2	15
71	Graphene oxide catalyzed ketone alkylation with alkenes: enhancement of graphene oxide activity by hydrogen bonding. <i>Chemical Communications</i> , 2019 , 55, 5379-5382	5.8	14
70	Highly Selective and Divergent Acyl and Aryl Cross-Couplings of Amides via Ir-Catalyzed C-H Borylation/N-C(O) Activation. <i>Organic Letters</i> , 2020 , 22, 6010-6015	6.2	14
69	Selective Reduction of Barbituric Acids Using SmI ₂ /H ₂ O: Synthesis, Reactivity, and Structural Analysis of Tetrahedral Adducts. <i>Angewandte Chemie</i> , 2013 , 125, 12791-12795	3.6	14
68	Kinetically Controlled, Highly Chemoselective Acylation of Functionalized Grignard Reagents with Amides by N-C Cleavage. <i>Chemistry - A European Journal</i> , 2020 , 26, 611-615	4.8	14
67	Decarbonylative Suzuki-Miyaura Cross-Coupling of Aryl Chlorides. <i>Organic Letters</i> , 2020 , 22, 6434-6440	6.2	14
66	Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. <i>Angewandte Chemie</i> , 2018 , 130, 16963-16968	3.6	14
65	Acyclic Twisted Amides. <i>Chemical Reviews</i> , 2021 , 121, 12746-12783	68.1	14
64	-Acylcarbazoles and -Acylindoles: Electronically Activated Amides for N-C(O) Cross-Coupling by N to Ar Conjugation Switch. <i>Organic Letters</i> , 2020 , 22, 4703-4709	6.2	13
63	Iron-Catalyzed C(sp)-C(sp) Cross-Coupling of Chlorobenzenesulfonamides with Alkyl Grignard Reagents: Entry to Alkylated Aromatics. <i>Journal of Organic Chemistry</i> , 2019 , 84, 1640-1646	4.2	13
62	IPr# - highly hindered, broadly applicable N-heterocyclic carbenes. <i>Chemical Science</i> , 2021 , 12, 10583-10589	5.9	13
61	Nickel-Catalyzed C(sp ²)-C(sp ³) Kumada Cross-Coupling of Aryl Tosylates with Alkyl Grignard Reagents. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 2329-2336	5.6	12

60	-Acyl-glutarimides: Effect of Glutarimide Ring on the Structures of Fully Perpendicular Twisted Amides and N-C Bond Cross-Coupling. <i>Journal of Organic Chemistry</i> , 2020 , 85, 5475-5485	4.2	12
59	Ruthenium(0)-sequential catalysis for the synthesis of sterically hindered amines by C-H arylation/hydrosilylation. <i>Chemical Communications</i> , 2019 , 55, 9003-9006	5.8	12
58	Stereoselective capture of N-acyliminium ions generated from β -hydroxy-N-acylcarbamides: direct synthesis of uracils from barbituric acids enabled by SmI ₂ reduction. <i>Organic Letters</i> , 2014 , 16, 452-5	6.2	12
57	Tröger's Base Twisted Amides: High Amide Bond Twist and N-/O-Protonation Aptitude. <i>Journal of Organic Chemistry</i> , 2019 , 84, 1510-1516	4.2	12
56	Pd-Catalyzed Suzuki-Miyaura Cross-Coupling of Pentafluorophenyl Esters. <i>Molecules</i> , 2018 , 23,	4.8	12
55	Mechanistic investigation of the selective reduction of Meldrum's acids to β -hydroxy acids using SmI ₂ and H ₂ O. <i>Chemical Communications</i> , 2014 , 50, 8391-4	5.8	11
54	Pentafluorophenyl Esters: Highly Chemoselective Ketyl Precursors for the Synthesis of β -Deuterio Alcohols Using SmI and D ₂ O as a Deuterium Source. <i>Organic Letters</i> , 2020 , 22, 1249-1253	6.2	11
53	Ruthenium(II)-Catalyzed C-H Arylation of N,N-Dialkyl Thiobenzamides with Boronic Acids by Sulfur Coordination in 2-MeTHF. <i>Organic Letters</i> , 2020 , 22, 6884-6890	6.2	11
52	Cyclization of Imides to 2-Azabicycles via Aminoketyl Radicals by Using Samarium(II) Iodide/Water: Reaction Development, Synthetic Scope, and Mechanistic Studies. <i>Synthesis</i> , 2016 , 48, 1825-1854	2.9	11
51	Iron-Catalyzed C(sp ²)-C(sp ³) Cross-Coupling of Chlorobenzamides with Alkyl Grignard Reagents: Development of Catalyst System, Synthetic Scope, and Application. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 85-95	5.6	11
50	Structural analysis and reactivity of unusual tetrahedral intermediates enabled by SmI ₂ -mediated reduction of barbituric acids: vinylogous N-acyliminium additions to β -hydroxy-N-acyl-carbamides. <i>Chemical Communications</i> , 2014 , 50, 2518-21	5.8	10
49	Metal-free tandem carbene N-H insertions and C-C bond cleavages. <i>Chemical Science</i> , 2020 , 12, 803-811	9.4	10
48	Iron-catalyzed C(sp ²)-C(sp ³) cross-coupling at low catalyst loading. <i>Catalysis Science and Technology</i> , 2019 , 9, 1092-1097	5.5	9
47	Uncovering the Importance of Proton Donors in TmI ₂ -Promoted Electron Transfer: Facile C-N Bond Cleavage in Unactivated Amides. <i>Angewandte Chemie</i> , 2013 , 125, 7378-7382	3.6	9
46	Green Solvent Selection for Suzuki-Miyaura Coupling of Amides. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 552-559	8.3	9
45	Twisted N-Acyl-hydantoins: Rotationally Inverted Urea-Imides of Relevance in N-C(O) Cross-coupling. <i>Journal of Organic Chemistry</i> , 2018 , 83, 14676-14682	4.2	9
44	Thioesterification and Selenoesterification of Amides via Selective N-S Cleavage at Room Temperature: N-S(O) to S/Se-S(O) Interconversion. <i>Synthesis</i> , 2020 , 52, 1060-1066	2.9	8
43	[(NHC)PdCl(Aniline)] Complexes: Easily Synthesized, Highly Active Pd(II)-NHC Precatalysts for Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2021 , 86, 15648-15657	4.2	8

42	N-Methylcaprolactam as a Dipolar Aprotic Solvent for Iron-Catalyzed Cross-Coupling Reactions: Matching Efficiency with Safer Reaction Media. <i>ChemCatChem</i> , 2019 , 11, 1196-1199	5.2	8
41	Suzuki-Miyaura Cross-Coupling of Esters by Selective O-C(O) Cleavage Mediated by Air- and Moisture-Stable [Pd(NHC)(EtCl)Cl] Precatalysts: Catalyst Evaluation and Mechanism. <i>Catalysis Science and Technology</i> , 2021 , 11, 3189-3197	5.5	8
40	Iron-Catalyzed C(sp)-C(sp) Cross-Coupling of Aryl Chlorobenzoates with Alkyl Grignard Reagents. <i>Molecules</i> , 2020 , 25,	4.8	7
39	Ligand Effect on Iron-Catalyzed Cross-Coupling Reactions: Evaluation of Amides as O-Coordinating Ligands. <i>ChemCatChem</i> , 2019 , 11, 5733-5737	5.2	7
38	Reductive Deuteration of Aromatic Esters for the Synthesis of β -Dideuterio Benzyl Alcohols Using D ₂ O as Deuterium Source. <i>Synlett</i> , 2021 , 32, 51-56	2.2	7
37	Cu-Catalyzed Coupling with Two Ynone Units by Selective Triple and Sigma C-C and C-H Bond Cleavages. <i>Organic Letters</i> , 2021 , 23, 1928-1933	6.2	7
36	Synthesis of Sulfoxonium Ylides from Amides by Selective N-C(O) Activation. <i>Organic Letters</i> , 2021 , 23, 4818-4822	6.2	6
35	Decarbonylative Sonogashira Cross-Coupling of Carboxylic Acids. <i>Organic Letters</i> , 2021 , 23, 4726-4730	6.2	6
34	Cobalt-NHC Catalyzed C(sp ²)-C(sp ³) and C(sp ²)-C(sp ²) Kumada Cross-Coupling of Aryl Tosylates with Alkyl and Aryl Grignard Reagents. <i>ChemCatChem</i> , 2021 , 13, 202-206	5.2	6
33	O NMR and N NMR chemical shifts of sterically-hindered amides: ground-state destabilization in amide electrophilicity. <i>Chemical Communications</i> , 2019 , 55, 4423-4426	5.8	5
32	Suzuki-Miyaura Cross-Coupling of Amides using Well-Defined, Air-Stable [(PR ₃) ₂ Pd(II)X ₂] Precatalysts. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 1887-1892	5.6	5
31	Synthesis of biaryl ketones by arylation of Weinreb amides with functionalized Grignard reagents under thermodynamic control vs. kinetic control of N,N-Boc-amides. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 3827-3831	3.9	5
30	Palladium-NHC (NHC = N-heterocyclic Carbene)-Catalyzed Suzuki-Miyaura Cross-Coupling of Alkyl Amides. <i>ACS Catalysis</i> , 2020 , 10, 2426-2433	13.1	5
29	Electrophilicity Scale of Activated Amides: O NMR and N NMR Chemical Shifts of Acyclic Twisted Amides in N-C(O) Cross-Coupling. <i>Chemistry - A European Journal</i> , 2020 , 26, 16246-16250	4.8	5
28	Rh-Catalyzed Base-Free Decarbonylative Borylation of Twisted Amides. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15676-15685	4.2	5
27	General and practical intramolecular decarbonylative coupling of thioesters via palladium catalysis. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 1587-1592	5.2	5
26	Cobalt-N-Heterocyclic Carbene Complexes in Catalysis. <i>ACS Catalysis</i> , 2022 , 12, 3111-3137	13.1	5
25	Suzuki-Miyaura Cross-Coupling of Amides Using Well-Defined, Air- and Moisture-Stable Nickel/NHC (NHC = N-Heterocyclic Carbene) Complexes. <i>Catalysts</i> , 2020 , 10, 372	4	4

24	Green-Solvent Selection for Acyl Buchwald-Hartwig Cross-Coupling of Amides (Transamidation). <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	4
23	Preference of γ -Thioamide Structure in γ -Thioacyl- α -methylanilines. <i>Organic Letters</i> , 2020 , 22, 9500-9505	6.2	4
22	Rh(I)-Catalyzed Intramolecular Decarbonylation of Thioesters. <i>Journal of Organic Chemistry</i> , 2021 , 86, 10829-10837	4.2	4
21	Synthesis of β -Deuterated Primary Amines Reductive Deuteration of Oximes Using D ₂ O as a Deuterium Source. <i>Journal of Organic Chemistry</i> , 2021 , 86, 2907-2916	4.2	4
20	N-Acyl-5,5-Dimethylhydantoin: Mild Acyl-Transfer Reagents for the Synthesis of Ketones Using Pd/EPPSI or Pd/Phosphine Catalysts. <i>Organic Process Research and Development</i> , 2020 , 24, 1043-1051	3.9	3
19	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. <i>Molecules</i> , 2021 , 26,	4.8	3
18	Decarbonylative Sonogashira Cross-Coupling: Fruitful Marriage of Alkynes with Carboxylic Acid Electrophiles. <i>Organic Chemistry Frontiers</i> , 2022 , 9, 216-222	5.2	2
17	Pd-Catalyzed Double-Decarbonylative Aryl Sulfide Synthesis through Aryl Exchange between Amides and Thioesters. <i>Organic Letters</i> , 2021 , 23, 8098-8103	6.2	2
16	Ring-Opening Olefin Metathesis of Twisted Amides: Activation of Amide Bonds by C-C Cleavage. <i>ACS Catalysis</i> , 2020 , 10, 737-742	13.1	2
15	Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <i>Angewandte Chemie</i> , 2021 , 133, 10785-10794	3.6	2
14	Engineering 2-oxoglutarate dehydrogenase to a 2-oxo aliphatic dehydrogenase complex by optimizing consecutive components. <i>AIChE Journal</i> , 2020 , 66, e16769	3.6	2
13	Protocol for Palladium/N-Heterocyclic Carbene-Catalyzed Suzuki-Miyaura Cross-Coupling of Amides by N-C(O) Activation. <i>Synthesis</i> , 2021 , 53, 682-687	2.9	2
12	Acyl fluorides as direct precursors to fluoride ketyl radicals: reductive deuteration using Sml and D ₂ O. <i>Chemical Communications</i> , 2021 , 57, 5195-5198	5.8	2
11	Conversion of esters to thioesters under mild conditions. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 2991-2996	3.9	2
10	Carbon-Based, Metal-Free Catalysts for Chemical Catalysis 2018 , 597-657		2
9	Evaluation of Cyclic Amides as Activating Groups in N-C Bond Cross-Coupling: Discovery of γ -Acyl- β -valerolactams as Effective Twisted Amide Precursors for Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2021 , 86, 10455-10466	4.2	2
8	Decarbonylative Sulfide Synthesis from Carboxylic Acids and Thioesters via Cross-Over C-S Activation and Acyl Capture. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 4805-4813	5.2	2
7	Frontispiece: Twisted Amides: From Obscurity to Broadly Useful Transition-Metal-Catalyzed Reactions by N-C(O) Amide Bond Activation. <i>Chemistry - A European Journal</i> , 2017 , 23,	4.8	1

6	Palladium-Catalyzed Decarbonylative Borylation of Aryl Anhydrides. <i>Journal of Organic Chemistry</i> , 2021 , 86, 17445-17452	4.2	1
5	Recent Advances in the Synthesis of Piperazines: Focus on C _H Functionalization. <i>Organics</i> , 2021 , 2, 337-347	3.7	1
4	N-Butylpyrrolidone (NBP) as a non-toxic substitute for NMP in iron-catalyzed C(sp ²)C(sp ³) cross-coupling of aryl chlorides. <i>Green Chemistry</i> ,	10	1
3	Structures and energetic properties of 4-halobenzamides. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 1395-1402	0.8	1
2	Decarbonylative Pd-Catalyzed Suzuki Cross-Coupling for the Synthesis of Structurally Diverse Heterobiaryls.. <i>Organic Letters</i> , 2022 , 24, 1678-1683	6.2	1
1	Iron-Catalyzed C _H Bond Activation: Opportunity for Sustainable Catalysis. <i>ChemSusChem</i> , 2017 , 10, 3865-3865	8.3	