

# Michal Szostak

## List of Publications by Year in Descending Order

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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  
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8.1  
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L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 221 | Decarbonylative Sonogashira Cross-Coupling: Fruitful Marriage of Alkynes with Carboxylic Acid Electrophiles.. <i>Organic Chemistry Frontiers</i> , <b>2022</b> , 9, 216-222  | 5.2  | 2         |
| 220 | Decarbonylative Pd-Catalyzed Suzuki Cross-Coupling for the Synthesis of Structurally Diverse Heterobiaryls.. <i>Organic Letters</i> , <b>2022</b> , 24, 1678-1683  | 6.2  | 1         |
| 219 | Cobalt(II)-Heterocyclic Carbene Complexes in Catalysis. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3111-3137   | 13.1 | 5         |
| 218 | Palladium-Catalyzed Decarbonylative Borylation of Aryl Anhydrides. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 17445-17452   | 4.2  | 1         |
| 217 | Pd-Catalyzed Double-Decarbonylative Aryl Sulfide Synthesis through Aryl Exchange between Amides and Thioesters. <i>Organic Letters</i> , <b>2021</b> , 23, 8098-8103   | 6.2  | 2         |
| 216 | Recent Advances in the Synthesis of Piperazines: Focus on C-H Functionalization. <i>Organics</i> , <b>2021</b> , 2, 337-347  | 3.7  | 1         |
| 215 | [(NHC)PdCl(Aniline)] Complexes: Easily Synthesized, Highly Active Pd(II)-NHC Precatalysts for Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 15648-15657  | 4.2  | 8         |
| 214 | Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10690-10699  | 16.4 | 22        |
| 213 | Recent Advances in Metal-Catalyzed Functionalization of Indoles. <i>Advanced Synthesis and Catalysis</i> , <b>2021</b> , 363, 2723-2739  | 5.6  | 21        |
| 212 | Bimetallic Cooperative Catalysis for Decarbonylative Heteroarylation of Carboxylic Acids via C-O/C-H Coupling. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10785-10794   | 3.6  | 2         |
| 211 | Synthesis of Sulfoxonium Ylides from Amides by Selective N-C(O) Activation. <i>Organic Letters</i> , <b>2021</b> , 23, 4818-4822   | 6.2  | 6         |
| 210 | Decarbonylative Sonogashira Cross-Coupling of Carboxylic Acids. <i>Organic Letters</i> , <b>2021</b> , 23, 4726-4730   | 6.2  | 6         |
| 209 | Rh(I)-Catalyzed Intramolecular Decarbonylation of Thioesters. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 10829-10837  | 4.2  | 4         |
| 208 | Cobalt(II)-NHC Catalyzed C(sp <sup>2</sup> )–C(sp <sup>3</sup> ) and C(sp <sup>2</sup> )–C(sp <sup>2</sup> ) Kumada Cross-Coupling of Aryl Tosylates with Alkyl and Aryl Grignard Reagents. <i>ChemCatChem</i> , <b>2021</b> , 13, 202-206 | 5.2  | 6         |
| 207 | Reductive Deuteration of Aromatic Esters for the Synthesis of $\beta$ -Deuterio Benzyl Alcohols Using D <sub>2</sub> O as Deuterium Source. <i>Synlett</i> , <b>2021</b> , 32, 51-56   | 2.2  | 7         |
| 206 | Protocol for Palladium/N-Heterocyclic Carbene-Catalyzed Suzuki–Miyaura Cross-Coupling of Amides by N–C(O) Activation. <i>Synthesis</i> , <b>2021</b> , 53, 682-687   | 2.9  | 2         |
| 205 | Green Solvent Selection for Suzuki–Miyaura Coupling of Amides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 552-559   | 8.3  | 9         |

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| 204 | Acyl fluorides as direct precursors to fluoride ketyl radicals: reductive deuteration using Sml and DO. <i>Chemical Communications</i> , <b>2021</b> , 57, 5195-5198  | 5.8  | 2  |
| 203 | IPr# - highly hindered, broadly applicable N-heterocyclic carbenes. <i>Chemical Science</i> , <b>2021</b> , 12, 10583-10589   | 5.4  | 13 |
| 202 | General and practical intramolecular decarbonylative coupling of thioesters via palladium catalysis. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 1587-1592  | 5.2  | 5  |
| 201 | BIAN-NHC Ligands in Transition-Metal-Catalysis: A Perfect Union of Sterically Encumbered, Electronically Tunable N-Heterocyclic Carbenes?. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 4478-4499  | 4.8  | 17 |
| 200 | Suzuki-Miyaura Cross-Coupling of Esters by Selective O-C(O) Cleavage Mediated by Air- and Moisture-Stable [Pd(NHC)(ECl)Cl] Precatalysts: Catalyst Evaluation and Mechanism. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 3189-3197               | 5.5  | 8  |
| 199 | Conversion of esters to thioesters under mild conditions. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 2991-2996   | 3.9  | 2  |
| 198 | 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> , <b>2021</b> , 26,  | 4.8  | 3  |
| 197 | Cu-Catalyzed Coupling with Two Ynone Units by Selective Triple and Sigma C-C and C-H Bond Cleavages. <i>Organic Letters</i> , <b>2021</b> , 23, 1928-1933   | 6.2  | 7  |
| 196 | Evaluation of Cyclic Amides as Activating Groups in N-C Bond Cross-Coupling: Discovery of -Acyl- $\beta$ -valerolactams as Effective Twisted Amide Precursors for Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 10455-10466 | 4.2  | 2  |
| 195 | Acyclic Twisted Amides. <i>Chemical Reviews</i> , <b>2021</b> , 121, 12746-12783  | 68.1 | 14 |
| 194 | Synthesis of $\beta$ -Deuterated Primary Amines Reductive Deuteration of Oximes Using DO as a Deuterium Source. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 2907-2916   | 4.2  | 4  |
| 193 | Recent advances in the synthesis and reactivity of azetidines: strain-driven character of the four-membered heterocycle. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 3274-3286  | 3.9  | 17 |
| 192 | Decarbonylative Sulfide Synthesis from Carboxylic Acids and Thioesters via Cross-Over C-S Activation and Acyl Capture. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 4805-4813  | 5.2  | 2  |
| 191 | -Acylcarbazoles and -Acylindoles: Electronically Activated Amides for N-C(O) Cross-Coupling by N to Ar Conjugation Switch. <i>Organic Letters</i> , <b>2020</b> , 22, 4703-4709   | 6.2  | 13 |
| 190 | Non-Classical Amide Bond Formation: Transamidation and Amidation of Activated Amides and Esters by Selective N-C/O-C Cleavage. <i>Synthesis</i> , <b>2020</b> , 52, 2579-2599   | 2.9  | 22 |
| 189 | Ruthenium(II)-Catalyzed -C-H Alkylation of Naphthylamines with Diazo Compounds for Synthesis of 2,2-Disubstituted $\beta$ -Extended 3-Oxindoles in Water. <i>Organic Letters</i> , <b>2020</b> , 22, 5187-5192  | 6.2  | 19 |
| 188 | -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> , <b>2020</b> , 85, 5475-5485   | 4.2  | 12 |
| 187 | Suzuki-Miyaura Cross-Coupling of Amides Using Well-Defined, Air- and Moisture-Stable Nickel/NHC (NHC = N-Heterocyclic Carbene) Complexes. <i>Catalysts</i> , <b>2020</b> , 10, 372  | 4    | 4  |

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| 186 | Suzuki-Miyaura Cross-Coupling of Amides using Well-Defined, Air-Stable [(PR <sub>3</sub> ) <sub>2</sub> Pd(II)X <sub>2</sub> ] Precatalysts. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 1887-1892  | 5.6  | 5   |
| 185 | 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> , <b>2020</b> , 22, 6010-6015   | 6.2  | 14  |
| 184 | Thioesterification and Selenoesterification of Amides via Selective N-Cleavage at Room Temperature: N-C(O) to S/Se-C(O) Interconversion. <i>Synthesis</i> , <b>2020</b> , 52, 1060-1066  | 2.9  | 8   |
| 183 | Synthesis of C6-Substituted Isoquinolino[1,2-]quinazolines via Rh(III)-Catalyzed C-H Annulation with Sulfoxonium Ylides. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 3192-3201   | 4.2  | 37  |
| 182 | N-Heterocyclic Carbene Complexes in C-H Activation Reactions. <i>Chemical Reviews</i> , <b>2020</b> , 120, 1981-2048   | 68.1 | 211 |
| 181 | Iron-Catalyzed C(sp)-C(sp) Cross-Coupling of Aryl Chlorobenzoates with Alkyl Grignard Reagents. <i>Molecules</i> , <b>2020</b> , 25,   | 4.8  | 7   |
| 180 | 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> , <b>2020</b> , 24, 1043-1051   | 3.9  | 3   |
| 179 | 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> , <b>2020</b> , 18, 3827-3831                          | 3.9  | 5   |
| 178 | Amide Bond Activation: The Power of Resonance. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 914-928   | 14.8 | 66  |
| 177 | Kinetically Controlled, Highly Chemoselective Acylation of Functionalized Grignard Reagents with Amides by N-C Cleavage. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 611-615   | 4.8  | 14  |
| 176 | Pentafluorophenyl Esters: Highly Chemoselective Ketyl Precursors for the Synthesis of $\beta$ -Deuterio Alcohols Using SmI and DO as a Deuterium Source. <i>Organic Letters</i> , <b>2020</b> , 22, 1249-1253  | 6.2  | 11  |
| 175 | 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> , <b>2020</b> , 10, 710-716 | 5.5  | 35  |
| 174 | Transition-Metal-Free Activation of Amides by N-C Bond Cleavage. <i>Chemical Record</i> , <b>2020</b> , 20, 649-659  | 6.6  | 33  |
| 173 | Ring-Opening Olefin Metathesis of Twisted Amides: Activation of Amide Bonds by C-C Cleavage. <i>ACS Catalysis</i> , <b>2020</b> , 10, 737-742  | 13.1 | 2   |
| 172 | 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> , <b>2020</b> , 26, 16246-16250  | 4.8  | 5   |
| 171 | Preference of -Thioamide Structure in -Thioacyl-methylanilines. <i>Organic Letters</i> , <b>2020</b> , 22, 9500-9505   | 6.2  | 4   |
| 170 | Decarbonylative Suzuki-Miyaura Cross-Coupling of Aryl Chlorides. <i>Organic Letters</i> , <b>2020</b> , 22, 6434-6440  | 6.2  | 14  |
| 169 | Palladium-Catalyzed Cross-Couplings by C-O Bond Activation. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 5702-5739  | 5.5  | 17  |

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| 168 | [Pd(NHC)(ECI)Cl]: Versatile and Highly Reactive Complexes for Cross-Coupling Reactions that Avoid Formation of Inactive Pd(I) Off-Cycle Products. <i>IScience</i> , <b>2020</b> , 23, 101377   | 6.1  | 24  |
| 167 | Rh-Catalyzed Base-Free Decarbonylative Borylation of Twisted Amides. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 15676-15685   | 4.2  | 5   |
| 166 | Ruthenium(II)-Catalyzed C-H Arylation of N,N-Dialkyl Thiobenzamides with Boronic Acids by Sulfur Coordination in 2-MeTHF. <i>Organic Letters</i> , <b>2020</b> , 22, 6884-6890   | 6.2  | 11  |
| 165 | Engineering 2-oxoglutarate dehydrogenase to a 2-oxo aliphatic dehydrogenase complex by optimizing consecutive components. <i>AIChE Journal</i> , <b>2020</b> , 66, e16769  | 3.6  | 2   |
| 164 | Metal-free tandem carbene N-H insertions and C-C bond cleavages. <i>Chemical Science</i> , <b>2020</b> , 12, 803-811   | 9.4  | 10  |
| 163 | Palladium-Catalyzed Synthesis of Benzothiophenes via Cross-Dehydrogenative Coupling of 4-Arylthiocoumarins and Pyrones. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 5709-5714   | 5.6  | 18  |
| 162 | Recent Advances in Acyl Suzuki Cross-Coupling. <i>Catalysts</i> , <b>2019</b> , 9, 53  | 4    | 106 |
| 161 | Palladium-catalyzed decarbonylative Suzuki-Miyaura cross-coupling of amides by carbon-nitrogen bond activation. <i>Chemical Science</i> , <b>2019</b> , 10, 9865-9871  | 9.4  | 49  |
| 160 | Synthesis of Biaryls via Decarbonylative Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Carboxylic Acids. <i>IScience</i> , <b>2019</b> , 19, 749-759  | 6.1  | 46  |
| 159 | Sterically Hindered Ketones via Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Amides by N-C(O) Activation. <i>Organic Letters</i> , <b>2019</b> , 21, 7976-7981   | 6.2  | 15  |
| 158 | N-Acylphthalimides: Efficient Acyl Coupling Reagents in Suzuki-Miyaura Cross-Coupling by N-Cleavage Catalyzed by PdPEPSI Precatalysts. <i>Catalysts</i> , <b>2019</b> , 9, 129   | 4    | 20  |
| 157 | Iron-catalyzed C(sp <sup>2</sup> )-C(sp <sup>3</sup> ) cross-coupling at low catalyst loading. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 1092-1097  | 5.5  | 9   |
| 156 | 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> , <b>2019</b> , 141, 11161-11172                     | 16.4 | 98  |
| 155 | Highly-chemoselective step-down reduction of carboxylic acids to aromatic hydrocarbons palladium catalysis. <i>Chemical Science</i> , <b>2019</b> , 10, 5736-5742  | 9.4  | 30  |
| 154 | [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> , <b>2019</b> , 21, 3304-3309 | 6.2  | 56  |
| 153 | Redox-Neutral Decarbonylative Cross-Couplings Coming of Age. <i>ChemSusChem</i> , <b>2019</b> , 12, 2983-2987  | 8.3  | 30  |
| 152 | Recent Advances in the Synthesis and Reactivity of Isothiazoles. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 3050-3067  | 5.6  | 35  |
| 151 | Decarbonylative Borylation of Amides by Palladium Catalysis. <i>ACS Omega</i> , <b>2019</b> , 4, 4901-4907   | 3.9  | 23  |

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| 150 | O NMR and N NMR chemical shifts of sterically-hindered amides: ground-state destabilization in amide electrophilicity. <i>Chemical Communications</i> , <b>2019</b> , 55, 4423-4426  | 5.8  | 5  |
| 149 | Graphene oxide catalyzed ketone alkylation with alkenes: enhancement of graphene oxide activity by hydrogen bonding. <i>Chemical Communications</i> , <b>2019</b> , 55, 5379-5382  | 5.8  | 14 |
| 148 | Nickel-Catalyzed C(sp <sup>2</sup> )-C(sp <sup>3</sup> ) Kumada Cross-Coupling of Aryl Tosylates with Alkyl Grignard Reagents. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 2329-2336  | 5.6  | 12 |
| 147 | Metal-Free Transamidation of Secondary Amides by N-C Cleavage. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 12091-12100   | 4.2  | 36 |
| 146 | Rh(III)-Catalyzed C-H Amidation of 2-Arylindoles with Dioxazolones: A Route to Indolo[1,2-]quinazolines. <i>Organic Letters</i> , <b>2019</b> , 21, 7038-7043  | 6.2  | 30 |
| 145 | Ligand Effect on Iron-Catalyzed Cross-Coupling Reactions: Evaluation of Amides as O-Coordinating Ligands. <i>ChemCatChem</i> , <b>2019</b> , 11, 5733-5737   | 5.2  | 7  |
| 144 | Ruthenium(0)-Catalyzed Cross-Coupling of Anilines with Organoboranes by Selective Carbon-Nitrogen Cleavage. <i>ACS Catalysis</i> , <b>2019</b> , 9, 8171-8177  | 13.1 | 22 |
| 143 | Ruthenium(0)-sequential catalysis for the synthesis of sterically hindered amines by C-H arylation/hydrosilylation. <i>Chemical Communications</i> , <b>2019</b> , 55, 9003-9006   | 5.8  | 12 |
| 142 | 2-Methyltetrahydrofuran (2-MeTHF): A Green Solvent for Pd/NHC-Catalyzed Amide and Ester Suzuki-Miyaura Cross-Coupling by N/O Cleavage. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 5654-5660  | 5.6  | 24 |
| 141 | Decarbonylative Phosphorylation of Carboxylic Acids via Redox-Neutral Palladium Catalysis. <i>Organic Letters</i> , <b>2019</b> , 21, 9256-9261  | 6.2  | 34 |
| 140 | Triflamides: Highly Reactive, Electronically Activated N-Sulfonyl Amides in Catalytic N-C(O) Amide Cross-Coupling. <i>Organic Letters</i> , <b>2019</b> , 21, 1253-1257  | 6.2  | 24 |
| 139 | A simple <sup>1</sup> H NMR method for determining the donor properties of N-heterocyclic carbenes. <i>Tetrahedron Letters</i> , <b>2019</b> , 60, 378-381   | 2    | 42 |
| 138 | N-Methylcaprolactam as a Dipolar Aprotic Solvent for Iron-Catalyzed Cross-Coupling Reactions: Matching Efficiency with Safer Reaction Media. <i>ChemCatChem</i> , <b>2019</b> , 11, 1196-1199  | 5.2  | 8  |
| 137 | Tröger's Base Twisted Amides: High Amide Bond Twist and N-/O-Protonation Aptitude. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 1510-1516   | 4.2  | 12 |
| 136 | Iron-Catalyzed C(sp)-C(sp) Cross-Coupling of Chlorobenzenesulfonamides with Alkyl Grignard Reagents: Entry to Alkylated Aromatics. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 1640-1646   | 4.2  | 13 |
| 135 | Chemistry of Bridged Lactams: Recent Developments. <i>Molecules</i> , <b>2019</b> , 24,  | 4.8  | 32 |
| 134 | Synthesis of Amides by Mild Palladium-Catalyzed Aminocarbonylation of Arylsilanes with Amines Enabled by Copper(II) Fluoride. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 338-345  | 4.2  | 25 |
| 133 | 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. <i>Advanced Synthesis and Catalysis</i> , <b>2019</b> , 361, 85-95 | 5.6  | 11 |



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| 132 | Eisenkatalysierte Kreuzkupplungen in der Synthese von Pharmazeutika: Streben nach Nachhaltigkeit. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11284-11297  | 3.6  | 48  |
| 131 | 2-Methyltetrahydrofuran: A Green Solvent for Iron-Catalyzed Cross-Coupling Reactions. <i>ChemSusChem</i> , <b>2018</b> , 11, 1290-1294   | 8.3  | 35  |
| 130 | Mechanistic Study of SuzukiMiyaura Cross-Coupling Reactions of Amides Mediated by [Pd(NHC)(allyl)Cl] Precatalysts. <i>ChemCatChem</i> , <b>2018</b> , 10, 3096-3106  | 5.2  | 58  |
| 129 | N-Acyl-glutarimides: Resonance and Proton Affinities of Rotationally-Inverted Twisted Amides Relevant to N-C(O) Cross-Coupling. <i>Organic Letters</i> , <b>2018</b> , 20, 1342-1345   | 6.2  | 53  |
| 128 | Iron-Catalyzed Cross-Couplings in the Synthesis of Pharmaceuticals: In Pursuit of Sustainability. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11116-11128   | 16.4 | 153 |
| 127 | Barriers to Rotation in ortho-Substituted Tertiary Aromatic Amides: Effect of Chloro-Substitution on Resonance and Distortion. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 3159-3163   | 4.2  | 21  |
| 126 | Pd-PEPPSI: Water-Assisted SuzukiMiyaura Cross-Coupling of Aryl Esters at Room Temperature using a Practical Palladium-NHC (NHC=N-Heterocyclic Carbene) Precatalyst. <i>Advanced Synthesis and Catalysis</i> , <b>2018</b> , 360, 1538-1543     | 5.6  | 38  |
| 125 | Decarbonylative thioetherification by nickel catalysis using air- and moisture-stable nickel precatalysts. <i>Chemical Communications</i> , <b>2018</b> , 54, 2130-2133  | 5.8  | 67  |
| 124 | N-Acyl-Glutarimides: Privileged Scaffolds in Amide N-C(O) Bond Cross-Coupling. <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 2352-2365  | 3.2  | 99  |
| 123 | Transamidation of N-acyl-glutarimides with amines. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 1322-1329   | 3.9  | 44  |
| 122 | Ruthenium(II)-Catalyzed Direct C-H Arylation of Indoles with Arylsilanes in Water. <i>Organic Letters</i> , <b>2018</b> , 20, 341-344  | 6.2  | 61  |
| 121 | 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> , <b>2018</b> , 5, 2515-2521                           | 5.2  | 32  |
| 120 | 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> , <b>2018</b> , 8, 9131-9139  | 13.1 | 70  |
| 119 | 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> , <b>2018</b> , 115, 136-145 | 7.8  | 27  |
| 118 | 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> , <b>2018</b> , 140, 727-734                               | 16.4 | 119 |
| 117 | Decarbonylative cross-coupling of amides. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 7998-8010  | 3.9  | 101 |
| 116 | Pd-Catalyzed Suzuki-Miyaura Cross-Coupling of Pentafluorophenyl Esters. <i>Molecules</i> , <b>2018</b> , 23,   | 4.8  | 12  |
| 115 | The Most Twisted Acyclic Amides: Structures and Reactivity. <i>Organic Letters</i> , <b>2018</b> , 20, 7771-7774   | 6.2  | 34  |

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| 114 | 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> , <b>2018</b> , 51, 2589-2599   | 24.3 | 226 |
| 113 | Highly selective transition-metal-free transamidation of amides and amidation of esters at room temperature. <i>Nature Communications</i> , <b>2018</b> , 9, 4165   | 17.4 | 104 |
| 112 | Palladium/NHC (NHC = N-Heterocyclic Carbene)-Catalyzed B-Alkyl Suzuki Cross-Coupling of Amides by Selective N-C Bond Cleavage. <i>Organic Letters</i> , <b>2018</b> , 20, 6789-6793   | 6.2  | 42  |
| 111 | Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16721-16726  | 16.4 | 66  |
| 110 | Twisted N-Acyl-hydantoins: Rotationally Inverted Urea-Imides of Relevance in N-C(O) Cross-coupling. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 14676-14682   | 4.2  | 9   |
| 109 | Structures and energetic properties of 4-halobenzamides. <i>Acta Crystallographica Section C, Structural Chemistry</i> , <b>2018</b> , 74, 1395-1402  | 0.8  | 1   |
| 108 | Palladium-Catalyzed Decarbonylative Borylation of Carboxylic Acids: Tuning Reaction Selectivity by Computation. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16963-16968   | 3.6  | 14  |
| 107 | Carbon-Based, Metal-Free Catalysts for Chemical Catalysis <b>2018</b> , 597-657   |      | 2   |
| 106 | Transition-Metal-Free Esterification of Amides via Selective N-C Cleavage under Mild Conditions. <i>Organic Letters</i> , <b>2018</b> , 20, 5622-5625   | 6.2  | 54  |
| 105 | Highly chemoselective ruthenium(ii)-catalyzed direct arylation of cyclic and $\alpha$ -dialkyl benzamides with aryl silanes. <i>Chemical Science</i> , <b>2017</b> , 8, 3204-3210   | 9.4  | 63  |
| 104 | Sc(OTf) <sub>3</sub> -catalyzed synthesis of anhydrides from twisted amides. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 1780-1785  | 3.9  | 16  |
| 103 | Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of N-Mesylamides by N-C Cleavage: Electronic Effect of the Mesyl Group. <i>Organic Letters</i> , <b>2017</b> , 19, 1434-1437  | 6.2  | 64  |
| 102 | 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> , <b>2017</b> , 7, 1960-1965           | 13.1 | 130 |
| 101 | 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> , <b>2017</b> , 19, 2158-2161            | 6.2  | 108 |
| 100 | N-C Bond Difunctionalization in Bridged Twisted Amides: Sew-and-Cut Activation Approach to Functionalized Isoquinolines. <i>Organic Letters</i> , <b>2017</b> , 19, 2386-2389   | 6.2  | 17  |
| 99  | 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> , <b>2017</b> , 108, 644-654 | 7.8  | 18  |
| 98  | 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> , <b>2017</b> , 15, 4783-4788                          | 3.9  | 27  |
| 97  | 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> , <b>2017</b> , 82, 6528-6540   | 4.2  | 21  |



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| 96 | Suzuki-Miyaura Cross-Coupling of N-Acylpyrroles and Pyrazoles: Planar, Electronically Activated Amides in Catalytic N-C Cleavage. <i>Organic Letters</i> , <b>2017</b> , 19, 3596-3599                               | 6.2  | 77  |
| 95 | Resonance Destabilization in N-Acylanilines (Anilides): Electronically-Activated Planar Amides of Relevance in N-C(O) Cross-Coupling. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 6373-6378              | 4.2  | 67  |
| 94 | Frontispiece: Twisted Amides: From Obscurity to Broadly Useful Transition-Metal-Catalyzed Reactions by N-C Amide Bond Activation. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23,                          | 4.8  | 1   |
| 93 | Decarbonylative Cyanation of Amides by Palladium Catalysis. <i>Organic Letters</i> , <b>2017</b> , 19, 3095-3098   | 6.2  | 78  |
| 92 | Nickel-Catalyzed Negishi Cross-Coupling of N-Acylsuccinimides: Stable, Amide-Based, Twist-Controlled Acyl-Transfer Reagents via N-C Activation. <i>Synthesis</i> , <b>2017</b> , 49, 3602-3608                       | 2.9  | 29  |
| 91 | Metal-Free Transamidation of Secondary Amides via Selective N-C Cleavage under Mild Conditions. <i>Organic Letters</i> , <b>2017</b> , 19, 1614-1617   | 6.2  | 107 |
| 90 | Pd-PEPPSI: A General Pd-NHC Precatalyst for Suzuki-Miyaura Cross-Coupling of Esters by C-O Cleavage. <i>Organometallics</i> , <b>2017</b> , 36, 3784-3789  | 3.8  | 51  |
| 89 | N-Acylsuccinimides: twist-controlled, acyl-transfer reagents in Suzuki-Miyaura cross-coupling by N-C amide bond activation. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 8867-8871                  | 3.9  | 36  |
| 88 | Iron-Catalyzed C-O Bond Activation: Opportunity for Sustainable Catalysis. <i>ChemSusChem</i> , <b>2017</b> , 10, 3865-3865  | 8.3  |     |
| 87 | Cyclic ureas (DMI, DMPU) as efficient, sustainable ligands in iron-catalyzed C(sp <sup>2</sup> )-C(sp <sup>3</sup> ) coupling of aryl chlorides and tosylates. <i>Green Chemistry</i> , <b>2017</b> , 19, 5361-5366  | 10   | 34  |
| 86 | Iron-Catalyzed C-O Bond Activation: Opportunity for Sustainable Catalysis. <i>ChemSusChem</i> , <b>2017</b> , 10, 3983-3987  | 8.3  | 174 |
| 85 | N-Methylamino Pyrimidyl Amides (MAPA): Highly Reactive, Electronically-Activated Amides in Catalytic N-C(O) Cleavage. <i>Organic Letters</i> , <b>2017</b> , 19, 4656-4659   | 6.2  | 52  |
| 84 | Site-Selective C-H/C-N Activation by Cooperative Catalysis: Primary Amides as Arylating Reagents in Directed C-H Arylation. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7251-7256  | 13.1 | 63  |
| 83 | 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> , <b>2017</b> , 53, 10584-10587 | 5.8  | 112 |
| 82 | 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> , <b>2017</b> , 8, 6525-6530                         | 9.4  | 117 |
| 81 | Decarbonylative Phosphorylation of Amides by Palladium and Nickel Catalysis: The Hirao Cross-Coupling of Amide Derivatives. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 12892-12896                                | 3.6  | 33  |
| 80 | Decarbonylative Phosphorylation of Amides by Palladium and Nickel Catalysis: The Hirao Cross-Coupling of Amide Derivatives. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 12718-12722         | 16.4 | 127 |
| 79 | Iron-Catalyzed C(sp <sup>2</sup> )-C(sp <sup>3</sup> ) Cross-Coupling of Alkyl Grignard Reagents with Polyaromatic Tosylates. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 7271-7276           | 3.2  | 15  |

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| 78 | 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> , <b>2017</b> , 19, 6510-6513  | 6.2  | 52  |
| 77 | Recent Developments in Ruthenium-Catalyzed C <sup>sp2</sup> Arylation: Array of Mechanistic Manifolds. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5721-5745   | 13.1 | 191 |
| 76 | Pd-PEPPSI: Pd-NHC Precatalyst for Suzuki-Miyaura Cross-Coupling Reactions of Amides. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 6638-6646   | 4.2  | 87  |
| 75 | Twisted Amides: From Obscurity to Broadly Useful Transition-Metal-Catalyzed Reactions by N-C Amide Bond Activation. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 7157-7173  | 4.8  | 226 |
| 74 | Synthesis of Nitrogen Heterocycles Using Samarium(II) Iodide. <i>Molecules</i> , <b>2017</b> , 22,   | 4.8  | 16  |
| 73 | Structures of Highly Twisted Amides Relevant to Amide N-C Cross-Coupling: Evidence for Ground-State Amide Destabilization. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 14494-8   | 4.8  | 87  |
| 72 | Ruthenium(0)-Catalyzed C-H Arylation of Aromatic Imines under Neutral Conditions: Access to Biaryl Aldehydes. <i>Organic Letters</i> , <b>2016</b> , 18, 4186-9  | 6.2  | 43  |
| 71 | Highly Chemoselective Synthesis of Indolizidine Lactams by SmI <sub>2</sub> -Induced Umpolung of the Amide Bond via Aminoketyl Radicals: Efficient Entry to Alkaloid Scaffolds. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 11949-53 | 4.8  | 25  |
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| 69 | N-Acylsaccharins as Amide-Based Arylating Reagents via Chemoselective N-C Cleavage: Pd-Catalyzed Decarbonylative Heck Reaction. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 12023-12030  | 4.2  | 79  |
| 68 | 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> , <b>2016</b> , 18, 5872-5875  | 6.2  | 88  |
| 67 | Structural Characterization of N-Alkylated Twisted Amides: Consequences for Amide Bond Resonance and N-C Cleavage. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5146-5150   | 3.6  | 16  |
| 66 | Synthesis of Biaryls through Nickel-Catalyzed Suzuki-Miyaura Coupling of Amides by Carbon-Nitrogen Bond Cleavage. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7073-7077  | 3.6  | 59  |
| 65 | Ruthenium(II)-Catalyzed Regioselective C <sup>sp2</sup> Arylation of Cyclic and N,N-Dialkyl Benzamides with Boronic Acids by Weak Coordination. <i>ACS Catalysis</i> , <b>2016</b> , 6, 4755-4759  | 13.1 | 80  |
| 64 | Structural Characterization of N-Alkylated Twisted Amides: Consequences for Amide Bond Resonance and N-C Cleavage. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5062-6   | 16.4 | 63  |
| 63 | Synthesis of Biaryls through Nickel-Catalyzed Suzuki-Miyaura Coupling of Amides by Carbon-Nitrogen Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6959-63   | 16.4 | 239 |
| 62 | P-Doped Porous Carbon as Metal Free Catalysts for Selective Aerobic Oxidation with an Unexpected Mechanism. <i>ACS Nano</i> , <b>2016</b> , 10, 2305-15  | 16.7 | 195 |
| 61 | Rhodium-Catalyzed C-H Bond Functionalization with Amides by Double C-H/C-N Bond Activation. <i>Organic Letters</i> , <b>2016</b> , 18, 796-9   | 6.2  | 168 |

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| 59 | 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> , <b>2016</b> , 22, 10420-4                                     | 4.8  | 89  |
| 58 | Sterically-controlled intermolecular Friedel-Crafts acylation with twisted amides via selective N-C cleavage under mild conditions. <i>Chemical Communications</i> , <b>2016</b> , 52, 6841-4  | 5.8  | 47  |
| 57 | Chemoselective Ketone Synthesis by the Addition of Organometallics to N-Acylazetidines. <i>Organic Letters</i> , <b>2016</b> , 18, 2375-8  | 6.2  | 59  |
| 56 | 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> , <b>2016</b> , 48, 1825-1854  | 2.9  | 11  |
| 55 | Palladium-Catalyzed Suzuki-Miyaura Cross-Coupling of Amides via Site-Selective N-C Bond Cleavage by Cooperative Catalysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7335-7339   | 13.1 | 122 |
| 54 | Cross-Coupling of Amides by N-C Bond Activation. <i>Synlett</i> , <b>2016</b> , 27, 2530-2540  | 2.2  | 179 |
| 53 | Proton-coupled electron transfer in the reduction of carbonyls using SmI <sub>2</sub> -HO: implications for the reductive coupling of acyl-type ketyl radicals with SmI <sub>2</sub> -HO. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 9151-9157                      | 3.9  | 19  |
| 52 | 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> , <b>2016</b> , 81, 8091-4   | 4.2  | 105 |
| 51 | N-Acylsaccharins: Stable Electrophilic Amide-Based Acyl Transfer Reagents in Pd-Catalyzed Suzuki-Miyaura Coupling via N-C Cleavage. <i>Organic Letters</i> , <b>2016</b> , 18, 4194-7  | 6.2  | 89  |
| 50 | 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> , <b>2015</b> , 80, 7905-27 | 4.2  | 57  |
| 49 | Graphene-Catalyzed Direct Friedel-Crafts Alkylation Reactions: Mechanism, Selectivity, and Synthetic Utility. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14473-80  | 16.4 | 130 |
| 48 | Aminoketyl Radicals in Organic Synthesis: Stereoselective Cyclization of Five- and Six-Membered Cyclic Imides to 2-Azabicycles Using SmI <sub>2</sub> -H <sub>2</sub> O. <i>Organic Letters</i> , <b>2015</b> , 17, 5144-7   | 6.2  | 42  |
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| 45 | Recent Developments in the Synthesis and Reactivity of Isoxazoles: Metal Catalysis and Beyond. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 2583-2614  | 5.6  | 207 |
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| 41 | Determination of the effective redox potentials of SmI <sub>2</sub> /SmBr <sub>2</sub> /SmCl <sub>2</sub> 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> , <b>2014</b> , 79, 2522-37 | 4.2  | 66  |
| 40 | Cross-coupling reactions using samarium(II) iodide. <i>Chemical Reviews</i> , <b>2014</b> , 114, 5959-6039   | 68.1 | 267 |
| 39 | Stereoselective capture of N-acyliminium ions generated from $\alpha$ -hydroxy-N-acylcarbamides: direct synthesis of uracils from barbituric acids enabled by SmI <sub>2</sub> reduction. <i>Organic Letters</i> , <b>2014</b> , 16, 452-5   | 6.2  | 12  |
| 38 | Structural analysis and reactivity of unusual tetrahedral intermediates enabled by SmI <sub>2</sub> -mediated reduction of barbituric acids: vinylogous N-acyliminium additions to $\alpha$ -hydroxy-N-acyl-carbamides. <i>Chemical Communications</i> , <b>2014</b> , 50, 2518-21   | 5.8  | 10  |
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| 33 | Mechanism of SmI <sub>2</sub> /amine/H <sub>2</sub> O-promoted chemoselective reductions of carboxylic acid derivatives (esters, acids, and amides) to alcohols. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 11988-2003  | 4.2  | 32  |
| 32 | Electron transfer reduction of nitriles using SmI <sub>2</sub> -Et <sub>3</sub> N-H <sub>2</sub> O: synthetic utility and mechanism. <i>Organic Letters</i> , <b>2014</b> , 16, 1092-5   | 6.2  | 45  |
| 31 | Ketyl-type radicals from cyclic and acyclic esters are stabilized by SmI <sub>2</sub> (H <sub>2</sub> O) <sub>n</sub> : the role of SmI <sub>2</sub> (H <sub>2</sub> O) <sub>n</sub> in post-electron transfer steps. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8459-66                         | 16.4 | 55  |
| 30 | Uncovering the importance of proton donors in TmI <sub>2</sub> -promoted electron transfer: facile C-N bond cleavage in unactivated amides. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 7237-41   | 16.4 | 32  |
| 29 | Recent advances in the chemoselective reduction of functional groups mediated by samarium(II) iodide: a single electron transfer approach. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 9155-83   | 58.5 | 152 |
| 28 | Selective reduction of barbituric acids using SmI <sub>2</sub> /H <sub>2</sub> O: synthesis, reactivity, and structural analysis of tetrahedral adducts. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12559-63   | 16.4 | 51  |
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| 19 | Electron transfer reduction of carboxylic acids using SmI <sub>2</sub> -H <sub>2</sub> O-Et <sub>3</sub> N. <i>Organic Letters</i> , <b>2012</b> , 14, 840-3   | 6.2  | 50  |
| 18 | Selective synthesis of 3-hydroxy acids from Meldrum's acids using SmI <sub>2</sub> -H <sub>2</sub> O. <i>Nature Protocols</i> , <b>2012</b> , 7, 970-7   | 18.8 | 27  |
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| 16 | Electron transfer reduction of unactivated esters using SmI <sub>2</sub> -H <sub>2</sub> O. <i>Chemical Communications</i> , <b>2011</b> , 47, 10254-6   | 5.8  | 65  |
| 15 | Medium-bridged lactams: a new class of non-planar amides. <i>Organic and Biomolecular Chemistry</i> , <b>2011</b> , 9, 27-35   | 3.9  | 65  |
| 14 | Kurze Synthesen von Strychnin und Englerin A durch Samariumiodid-vermittelte reduktive Cyclisierungen. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7881-7883   | 3.6  | 31  |
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