

Amide bond formation: beyond the myth of coupling re

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Synthesis of chemically modified bioactive peptides: recent advances, challenges and developments for medicinal chemistry. <i>Future Medicinal Chemistry</i> , 2009, 1, 1289-1310.	1.1	64
4	Direct Amide Synthesis from Alcohols and Amines by Phosphine-Free Ruthenium Catalyst Systems. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2643-2649.	2.1	215
6	Chiral synthetic pseudopeptidic derivatives as triplet excited state quenchers. <i>Tetrahedron Letters</i> , 2009, 50, 4859-4862.	0.7	3
7	Microwave-Assisted Ester Formation Using <i>O</i> -Alkylisoureas: A Convenient Method for the Synthesis of Esters with Inversion of Configuration. <i>Journal of Organic Chemistry</i> , 2009, 74, 4753-4762.	1.7	29
8	Thio FCMA Intermediates as Strong Acyl Donors: A General Solution to the Formation of Complex Amide Bonds. <i>Journal of the American Chemical Society</i> , 2009, 131, 12924-12926.	6.6	105
9	Self-cleavable chemiluminescent probes suitable for protease sensing. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2941.	1.5	41
10	Sensitization of the NIR emission of Nd(III) by the Λ^4 atropisomer of a meso-tetraphenyl porphyrin bearing four 8-hydroxyquinolinyllamide chelates. <i>Chemical Communications</i> , 2010, 46, 619-621.	2.2	31
11	Polypeptide-polymer bioconjugates. <i>Chemical Society Reviews</i> , 2010, 39, 329-353.	18.7	240
12	Ferrocene-Aspartate Dendrimers: Conformational Analysis and Electrochemical Studies. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2010, 20, 488-502.	1.9	8
13	Enzymatic synthesis of nylon-6 units in organic solvents containing low concentrations of water. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 64, 81-88.	1.8	3
14	A Novel Family of Onium Salts Based Upon Isonitroso Meldrum's Acid Proves Useful as Peptide Coupling Reagents. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3641-3649.	1.2	32
15	Simple RuCl ₃ -Catalyzed Amide Synthesis from Alcohols and Amines. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4266-4270.	1.2	81
16	Amide Synthesis from Alcohols and Amines Catalyzed by Ruthenium N-Heterocyclic Carbene Complexes. <i>Chemistry - A European Journal</i> , 2010, 16, 6820-6827.	1.7	173
18	A Direct Entry to Substituted <i>N</i> -Methoxyamines from <i>N</i> -Methoxyamides via <i>N</i> -Oxyiminium Ions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6369-6372.	7.2	109
19	Synthesis of the trans-fusarinine scaffold. <i>Tetrahedron Letters</i> , 2010, 51, 2119-2122.	0.7	7
20	Cost efficient synthesis of amides from oximes with indium or zinc catalysts. <i>Tetrahedron Letters</i> , 2010, 51, 2724-2726.	0.7	92
21	Water solubilization of xanthene dyes by post-synthetic sulfonation in organic media. <i>Tetrahedron Letters</i> , 2010, 51, 3304-3308.	0.7	31
22	Samarium-mediated mild and facile method for the synthesis of amides. <i>Tetrahedron Letters</i> , 2010, 51, 6049-6051.	0.7	20

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23	Molecular monolayers on silicon as substrates for biosensors. <i>Bioelectrochemistry</i> , 2010, 80, 17-25.	2.4	32
24	Umpolung reactivity in amide and peptide synthesis. <i>Nature</i> , 2010, 465, 1027-1032.	13.7	271
25	Amide bonds made in reverse. <i>Nature</i> , 2010, 465, 1020-1022.	13.7	21
26	A plastic axonal hotspot. <i>Nature</i> , 2010, 465, 1022-1023.	13.7	16
27	Synthesis, binding and fluorescence studies of a new neutral H-bonding receptor for anions based on 3,5-bis(trifluoromethyl)phenylurea. <i>Supramolecular Chemistry</i> , 2010, 22, 365-379.	1.5	5
28	Total Synthesis of Depsilairdin. <i>Journal of Organic Chemistry</i> , 2010, 75, 5170-5177.	1.7	5
29	Direct Amide Synthesis from Either Alcohols or Aldehydes with Amines: Activity of Ru(II) Hydride and Ru(O) Complexes. <i>Journal of Organic Chemistry</i> , 2010, 75, 3002-3006.	1.7	194
30	Direct Solid-Phase Synthesis of the Î²-Amyloid (1âˆ²42) Peptide Using Controlled Microwave Heating. <i>Journal of Organic Chemistry</i> , 2010, 75, 2103-2106.	1.7	68
31	A universal and ready-to-use heterotrifunctional cross-linking reagent for facile synthetic access to sophisticated bioconjugates. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4329.	1.5	30
32	Low molecular weight MPEG-assisted organic synthesis. <i>Chemical Communications</i> , 2010, 46, 4405.	2.2	15
33	Facile and rapid access to linear and truncated microcystin analogues for the implementation of immunoassays. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 676-690.	1.5	8
34	The thermal and boron-catalysed direct amide formation reactions: mechanistically understudied yet important processes. <i>Chemical Communications</i> , 2010, 46, 1813-1823.	2.2	214
35	Catalytic Acylation of Amines with Aldehydes or Aldoximes. <i>Organic Letters</i> , 2010, 12, 5096-5099.	2.4	117
36	Silica Gel-Mediated Amide Bond Formation: An Environmentally Benign Method for Liquid-Phase Synthesis and Cytotoxic Activities of Amides. <i>ACS Combinatorial Science</i> , 2010, 12, 307-310.	3.3	33
37	Simple Coupling Chemistry Linking Carboxyl-Containing Organic Molecules to Silicon Oxide Surfaces under Acidic Conditions. <i>Langmuir</i> , 2010, 26, 15333-15338.	1.6	26
38	Medicinal Organometallic Chemistry. <i>Topics in Organometallic Chemistry</i> , 2010, , .	0.7	77
39	Ruthenium-Catalyzed Tertiary Amine Formation from Nitroarenes and Alcohols. <i>Organic Letters</i> , 2010, 12, 4888-4891.	2.4	76
40	Well-Defined N-Heterocyclic Carbene Based Ruthenium Catalysts for Direct Amide Synthesis from Alcohols and Amines. <i>Organometallics</i> , 2010, 29, 1374-1378.	1.1	166

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41	Bioconjugated lanthanide luminescent helicates as multilabels for lab-on-a-chip detection of cancer biomarkers. <i>Analyst</i> , 2010, 135, 42-52.	1.7	84
42	New and simple synthesis of acid azides, ureas and carbamates from carboxylic acids: application of peptide coupling agents EDC and HBTU. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 835-840.	1.5	37
43	Stabilized well-dispersed Pd(0) nanoparticles for aminocarbonylation of aryl halides. <i>Dalton Transactions</i> , 2011, 40, 9320.	1.6	34
44	New potential bimodal imaging contrast agents based on DOTA-like and porphyrin macrocycles. <i>MedChemComm</i> , 2011, 2, 119-125.	3.5	49
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48	Alternative Strategy for Adjusting the Association Specificity of Hydrogen-Bonded Duplexes. <i>Organic Letters</i> , 2011, 13, 54-57.	2.4	24
49	Metal-catalysed approaches to amide bond formation. <i>Chemical Society Reviews</i> , 2011, 40, 3405.	18.7	899
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51	Giant Macrolactams Based on β -Sheet Peptides. <i>Journal of Organic Chemistry</i> , 2011, 76, 3166-3173.	1.7	15
53	Powerful Amide Synthesis from Alcohols and Amines under Aerobic Conditions Catalyzed by Gold or Gold/Iron, -Nickel or -Cobalt Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 18550-18553.	6.6	266
54	Oxidative amide synthesis directly from alcohols with amines. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 20-26.	1.5	163
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56	Iron(II)-Catalyzed Amidation of Aldehydes with Iminoiodinanes at Room Temperature and under Microwave-Assisted Conditions. <i>Journal of Organic Chemistry</i> , 2011, 76, 4894-4904.	1.7	56
57	Pseudo-Five-Component Reaction between 3-Formylchromones, Meldrum's Acid, Isocyanides and Primary Arylamines: Diversity-Oriented Synthesis of Novel Chromone-Containing Peptidomimetics. <i>ACS Combinatorial Science</i> , 2011, 13, 659-666.	3.8	31
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60	The synthesis and application of polyamino polycarboxylic bifunctional chelating agents. <i>Chemical Society Reviews</i> , 2011, 40, 3019.	18.7	153

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62	Disulfide and amide-bridged cyclic peptide analogues of the VEGF81-91 fragment: Synthesis, conformational analysis and biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 7526-7533.	1.4	22
63	Computational Study on the Catalytic Role of Pincer Ruthenium(II)-PNN Complex in Directly Synthesizing Amide from Alcohol and Amine: The Origin of Selectivity of Amide over Ester and Imine. <i>Organometallics</i> , 2011, 30, 5233-5247.	1.1	149
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83	Design and scalable synthesis of new chiral selectors. Part 1: Synthesis and characterization of a new constrained cyclopeptide from unnatural bulky amino acids. <i>Tetrahedron</i> , 2011, 67, 6036-6044.	1.0	11
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102	H-bonding promotion of peptide solubility and cyclization by fluorinated alcohols. <i>RSC Advances</i> , 2012, 2, 2729.	1.7	13
103	Thermosensitive Peptide-Hybrid ABC Block Copolymers Obtained by ATRP: Synthesis, Self-Assembly, and Enzymatic Degradation. <i>Macromolecules</i> , 2012, 45, 842-851.	2.2	32
104	Metal-free oxidative amide formation with N-hydroxysuccinimide and hypervalent iodine reagents. <i>Tetrahedron Letters</i> , 2012, 53, 5094-5098.	0.7	39
105	Copper-Catalyzed Oxidative Amidation of Aldehydes with Amine Salts: Synthesis of Primary, Secondary, and Tertiary Amides. <i>Journal of Organic Chemistry</i> , 2012, 77, 8007-8015.	1.7	218
106	One-Pot Synthesis of $\hat{\pm}$ -Acyloxycarboxamidobarbiturates from Alloxans, Carboxylic Acids, and Isocyanides. <i>Journal of Chemical Research</i> , 2012, 36, 432-436.	0.6	3
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148	Aerobic Amide Bond Formation with <i>N</i> -Hydroxysuccinimide. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1542-1545.	1.7	38
149	Synthesis and Conformation of Fluorinated β -Peptidic Compounds. <i>Chemistry - A European Journal</i> , 2012, 18, 6655-6662.	1.7	21
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152	Boric Acid: A Highly Efficient Catalyst for Transamidation of Carboxamides with Amines. <i>Organic Letters</i> , 2012, 14, 3202-3205.	2.4	171
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1005	Oxidative Amide Coupling from Functionally Diverse Alcohols and Amines Using Aerobic Copper/Nitroxyl Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 12339-12343.	1.6	8
1006	Oxidative Amide Coupling from Functionally Diverse Alcohols and Amines Using Aerobic Copper/Nitroxyl Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12211-12215.	7.2	27
1007	Formamide catalyzed activation of carboxylic acids versatile and cost-efficient amidation and esterification. <i>Chemical Science</i> , 2019, 10, 7399-7406.	3.7	46
1008	Facile Peptide Bond Formation: Effective Interplay between Isothiazolone Rings and Silanol Groups at Silver/Iron Oxide Nanocomposite Surfaces. <i>ACS Omega</i> , 2019, 4, 10629-10639.	1.6	81
1009	Synthesis and investigation of 3,5-bis-linear and macrocyclic tripeptidopyridine candidates by using l-valine, N,N ² -(3,5-pyridinediyl)dicarbonyl)bis-dimethyl ester as synthon. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2019, 74, 473-478.	0.3	5
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1014	Oxidative amidation of benzaldehyde using a quinone/DMSO system as the oxidizing agent. <i>RSC Advances</i> , 2019, 9, 18265-18270.	1.7	4
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1016	Mechanism of atom economical conversion of alcohols and amines to amides using Fe(η^5 -pincer) catalyst. An outer-sphere metal-ligand pathway or an inner-sphere elimination pathway?. <i>RSC Advances</i> , 2019, 9, 17479-17489.	1.7	3
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1018	Metal-Free Transamidation of Primary Amides using Trimethylsilyl Chloride. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 1613-1616.	1.3	20
1019	Electrochemical anion pool synthesis of amides with concurrent benzyl ester synthesis. <i>Green Chemistry</i> , 2019, 21, 3165-3171.	4.6	10
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1021	N-triflyl-propionamides: Preparation and transamidation reactions. <i>Tetrahedron</i> , 2019, 75, 3586-3595.	1.0	18
1022	Carboxyl-functionalized derivatives of carboxymethyl cellulose: towards advanced biomedical applications. <i>Polymer Reviews</i> , 2019, 59, 510-560.	5.3	65
1023	Chemically Modified Variants of Fenofibrate with Antiglioblastoma Potential. <i>Translational Oncology</i> , 2019, 12, 895-907.	1.7	13
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1025	Derivatives of 3-Aminopyrazine-2-carboxamides: Synthesis, Antimicrobial Evaluation, and in Vitro Cytotoxicity. <i>Molecules</i> , 2019, 24, 1212.	1.7	9
1026	Visible-Light-Enabled Synthesis of Pyridyl Benzamides via Oxidative Decarboxylation using Copper(I) Iodide/Air at Room Temperature. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 873-876.	1.3	3
1027	2-Hydroxypyridine N-Oxide is not genotoxic in vivo. <i>Environmental and Molecular Mutagenesis</i> , 2019, 60, 588-593.	0.9	2
1028	The organocatalytic highly enantioselective Knoevenagel condensation: applications in the synthesis of various chiral amide derivatives. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 1939-1955.	1.2	4

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1030	Intermolekulare, verzweigt- α -selektive und redoxneutrale Cp*Ir ^{III} -katalysierte allylische C-H-Amidierung. <i>Angewandte Chemie</i> , 2019, 131, 7191-7195.	1.6	25
1031	Visible-Light Mediated Photooxidative Synthesis of α -Keto Amides. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 3554-3559.	2.1	23
1032	Biocatalysis: A Pharma Perspective. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2421-2432.	2.1	168
1033	Intermolecular C-H Amidation of (Hetero)arenes to Produce Amides through Rhodium-Catalyzed Carbonylation of Nitrene Intermediates. <i>Angewandte Chemie</i> , 2019, 131, 8979-8984.	1.6	6
1034	Size-selective mesoporous silica-based Pt(II) complex as efficient and reusable photocatalytic material. <i>Journal of Catalysis</i> , 2019, 373, 374-383.	3.1	16
1035	Decarboxylation with Carbon Monoxide: The Direct Conversion of Carboxylic Acids into Potent Acid Triflate Electrophiles. <i>Angewandte Chemie</i> , 2019, 131, 5139-5143.	1.6	1
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1037	Amide Synthesis from Thiocarboxylic Acids and Amines by Spontaneous Reaction and Electrosynthesis. <i>ChemSusChem</i> , 2019, 12, 2570-2575.	3.6	17
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1040	Oxidative amidation of benzyl alcohol, benzaldehyde, benzoic acid styrene and phenyl acetylene catalyzed by ordered mesoporous HKUST-1 Cu: Effect of surface area on oxidative amidation reaction. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4822.	1.7	17
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1042	Acid anhydride coated carbon nanodots: activated platforms for engineering clicked (bio)nanoconstructs. <i>Nanoscale</i> , 2019, 11, 7850-7856.	2.8	12
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1045	Effect of Chemical Microenvironment in Spirothiopyran Monolayer Direct-Write Photoresists. <i>Langmuir</i> , 2019, 35, 3871-3879.	1.6	8
1046	Trapping of trifluoroacetonitrile imines with mercaptoacetaldehyde and mercaptocarboxylic acids: An access to fluorinated 1,3,4-thiadiazine derivatives via (3+3)-annulation. <i>Journal of Fluorine Chemistry</i> , 2019, 222-223, 8-14.	0.9	14

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1048	Identification of Bis-Cyclic Guanidines as Antiplasmodial Compounds from Positional Scanning Mixture-Based Libraries. <i>Molecules</i> , 2019, 24, 1100.	1.7	7
1049	Iron-Catalyzed Oxidative Coupling Reaction of Isocyanides and Simple Alkanes towards Amide Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2009-2013.	2.1	6
1050	Amidation of aldehydes using mono-cationic half-sandwich rhodium(III) complexes with functionalized phenylhydrazone ligands. <i>Journal of Organometallic Chemistry</i> , 2019, 886, 65-70.	0.8	7
1051	Total Synthesis of Lophirone F Hexamethyl Ether. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2362-2367.	1.2	2
1052	Decarboxylation with Carbon Monoxide: The Direct Conversion of Carboxylic Acids into Potent Acid Triflate Electrophiles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5085-5089.	7.2	6
1053	Ionic liquid catalysed aerobic oxidative amidation and thioamidation of benzylic amines under neat conditions. <i>Green Chemistry</i> , 2019, 21, 962-967.	4.6	29
1054	Amide bond synthesis via silver(I) N-heterocyclic carbene-catalyzed and tert-butyl hydroperoxide-mediated oxidative coupling of alcohols with amines under base free conditions. <i>Tetrahedron Letters</i> , 2019, 60, 847-851.	0.7	10
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1059	N-formylation of amines using methanol as a potential formyl carrier by a reusable chromium catalyst. <i>Communications Chemistry</i> , 2019, 2, .	2.0	52
1060	Synthesis of glutaryl-containing derivatives of GRGD and KRGD peptides. <i>Russian Chemical Bulletin</i> , 2019, 68, 2316-2324.	0.4	4
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1062	The magnetic graphene oxide/NHC catalyzed aerobic direct amidation and cross-dehydrogenative coupling of aldehydes. <i>New Journal of Chemistry</i> , 2019, 43, 16555-16565.	1.4	13
1063	Solvent- and catalyst-free transamidations of unprotected glycosyl carboxamides. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9425-9429.	1.5	3
1064	Palladium-catalyzed decarboxylative <i>ortho</i> -amidation of <i>O</i> -methyl ketoximes with oxamic acids. <i>Chemical Communications</i> , 2019, 55, 12551-12554.	2.2	11

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1066	CuI incorporated cobalt ferrite nanoparticles as a magnetically separable catalyst for oxidative amidation reaction. <i>Dalton Transactions</i> , 2019, 48, 16041-16052.	1.6	8
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1072	Cyanuric Chloride-Mediated Synthesis of α -Aryl β -tert-butoxycarbonyl-thiazolidine-4-carboxylic Acid Anilides: Mechanistic, X-Ray Crystal Structures and Cytotoxicity Studies. <i>ChemistrySelect</i> , 2019, 4, 12534-12546.	0.7	4
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1078	Macrolactamization Approaches to Arylomycin Antibiotics Core. <i>Organic Letters</i> , 2019, 21, 147-151.	2.4	18
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1081	[VO(PS-BBMA)](SO ₄) catalyzed α -oxygenation of benzylamines to amides in solvent free condition. <i>Catalysis Communications</i> , 2019, 121, 89-94.	1.6	2
1082	Carbonyl Compounds – Journey to Amide Bond Formation. <i>Chemistry - an Asian Journal</i> , 2019, 14, 344-388.	1.7	53

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1085	A green chemistry perspective on catalytic amide bond formation. <i>Nature Catalysis</i> , 2019, 2, 10-17.	16.1	262
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1087	An efficient synthesis of N-tert-butyl amides by the reaction of tert-butyl benzoate with nitriles catalyzed by Zn(ClO ₄) ₂ ·6H ₂ O. <i>Chemical Papers</i> , 2019, 73, 535-542.	1.0	7
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1091	(η -6-Benzene)Ru(II) half-sandwich complexes of pyrazolated chalcogenoethers for catalytic activation of aldehydes to amides transformation. <i>Journal of Organometallic Chemistry</i> , 2019, 879, 69-77.	0.8	28
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1102	Synthesis of chitosan iodoacetamides via carbodiimide coupling reaction: Effect of degree of substitution on the hemostatic properties. <i>Carbohydrate Polymers</i> , 2020, 229, 115522.	5.1	20
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1105	Functionalization of amino acids with aryl fluorosulfate for prodrug construction by SuFEx chemistry. <i>Tetrahedron</i> , 2020, 76, 130926.	1.0	2
1106	An unsymmetrical covalent organic polymer for catalytic amide synthesis. <i>Dalton Transactions</i> , 2020, 49, 179-186.	1.6	38
1107	Visible light-promoted copper catalyzed regioselective acetamidation of terminal alkynes by arylamines. <i>Green Chemistry</i> , 2020, 22, 1164-1170.	4.6	30
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1109	Organophotoredox-Mediated Amide Synthesis by Coupling Alcohol and Amine through Aerobic Oxidation of Alcohol. <i>Chemistry - A European Journal</i> , 2020, 26, 3703-3708.	1.7	15
1110	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.	2.1	57
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1113	Utilizing Copper-Mediated Deprotection of Selenazolidine for Cyclic Peptide Synthesis. <i>Journal of Organic Chemistry</i> , 2020, 85, 1731-1739.	1.7	9
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1116	The effect of polar headgroups and spacer length on the DNA transfection of cholesterol-based cationic lipids. <i>RSC Medicinal Chemistry</i> , 2020, 11, 212-224.	1.7	15
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1120	Catalytic Dehydrative Peptide Synthesis with <i>gem</i> -Diboronic Acids. <i>ACS Catalysis</i> , 2020, 10, 683-688.	5.5	50
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1138	Mechanochemical Synthesis of Amides with Uronium-Based Coupling Reagents: A Method for Hexa-amidation of Biotin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15703-15715.	3.2	29
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