JosÃ© G HernÃ¡ndez

List of Publications by Year
in descending order

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55 papers	3,880 citations	126907 33 h-index	149698 56 g-index
66 all docs	66 docs citations	66 times ranked	2493 citing authors

#	Article	IF	Citations
1	Altering Product Selectivity by Mechanochemistry. Journal of Organic Chemistry, 2017, 82, 4007-4019.	3.2	480
2	Sustainability Assessment of Mechanochemistry by Using the Twelve Principles of Green Chemistry. ChemSusChem, 2021, 14, 2145-2162.	6.8	287
3	Recent efforts directed to the development of more sustainable asymmetric organocatalysis. Chemical Communications, 2012, 48, 5396.	4.1	237
4	Mechanochemistry of Gaseous Reactants. Angewandte Chemie - International Edition, 2019, 58, 3285-3299.	13.8	232
5	Metal-catalyzed organic reactions using mechanochemistry. Tetrahedron Letters, 2015, 56, 4253-4265.	1.4	172
6	Asymmetric Aldol Reaction Organocatalyzed by (S)-Proline-Containing Dipeptides: Improved Stereoinduction under Solvent-Free Conditions. Journal of Organic Chemistry, 2011, 76, 1464-1467.	3.2	166
7	Câ^'H Bond Functionalization by Mechanochemistry. Chemistry - A European Journal, 2017, 23, 17157-17165.	3.3	121
8	Solvent-free asymmetric aldol reaction organocatalyzed by (S)-proline-containing thiodipeptides under ball-milling conditions. Tetrahedron, 2012, 68, 92-97.	1.9	119
9	Green Synthesis of Î±,Î²- and Î²,Î²-Dipeptides under Solvent-Free Conditions. Journal of Organic Chemistry, 2010, 75, 7107-7111.	3.2	110
10	From Synthesis of Amino Acids and Peptides to Enzymatic Catalysis: A Bottomâ€Up Approach in Mechanochemistry. ChemSusChem, 2018, 11, 1410-1420.	6.8	108
11	Efficient ball-mill procedure in the â€˜greenâ€™ asymmetric aldol reaction organocatalyzed by (S)-proline-containing dipeptides in the presence of water. Tetrahedron, 2011, 67, 6953-6959.	1.9	94
12	Papain-catalysed mechanochemical synthesis of oligopeptides by milling and twin-screw extrusion: application in the JuliÃ¡â€“Colonna enantioselective epoxidation. Green Chemistry, 2018, 20, 1262-1269.	9.0	94
13	Multi-step and multi-component organometallic synthesis in one pot using orthogonal mechanochemical reactions. Chemical Science, 2014, 5, 3576.	7.4	87
14	Mechanoenzymatic peptide and amide bond formation. Green Chemistry, 2017, 19, 2620-2625.	9.0	81
15	Organocatalytic Chemoselective Primary Alcohol Oxidation and Subsequent Cleavage of Lignin Model Compounds and Lignin. ChemSusChem, 2017, 10, 2707-2713.	6.8	81
16	[Cp*RhCl₂]₂: mechanosynthesis and applications in Câ€“H bond functionalisations under ball-milling conditions. Chemical Communications, 2015, 51, 12582-12584.	4.1	80
17	Mechanochemical Oxidation and Cleavage of Lignin Î²-O-4 Model Compounds and Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 3242-3254.	6.7	78
18	Altering Copperâ€Catalyzed A³ Couplings by Mechanochemistry: Oneâ€Pot Synthesis of 1,4â€Diaminoâ€2â€butynes from Aldehydes, Amines, and Calcium Carbide. Angewandte Chemie - International Edition, 2018, 57, 10718-10722.	13.8	78

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19	Electroâ€Mechanochemical Atom Transfer Radical Cyclizations using Piezoelectric BaTiO₃. Angewandte Chemie - International Edition, 2020, 59, 16357-16360.	13.8	77
20	Mechanochemical Enzymatic Kinetic Resolution of Secondary Alcohols under Ballâ€Milling Conditions. ChemCatChem, 2016, 8, 1769-1772.	3.7	74
21	Mechanochemical Cobaltâ€Catalyzed Câ^'H Bond Functionalizations by Ball Milling. Advanced Synthesis and Catalysis, 2018, 360, 1800-1804.	4.3	74
22	A mechanochemical strategy for oxidative addition: remarkable yields and stereoselectivity in the halogenation of organometallic Re(<scp>i</scp>) complexes. Green Chemistry, 2014, 16, 1087-1092.	9.0	70
23	Mechanochemical Strecker Reaction: Access to Î±â€Aminonitriles and Tetrahydroisoquinolines under Ballâ€Milling Conditions. Chemistry - A European Journal, 2016, 22, 14513-14517.	3.3	65
24	Mechanochemical Activation of Iron Cyano Complexes: A Prebiotic Impact Scenario for the Synthesis of Î±â€Amino Acid Derivatives. Angewandte Chemie - International Edition, 2018, 57, 2423-2426.	13.8	64
25	Mechanochemical Ruthenium-Catalyzed Hydroarylations of Alkynes under Ball-Milling Conditions. Organic Letters, 2017, 19, 6284-6287.	4.6	57
26	Mechanochemie gasfÃ¶rmiger Reaktanten. Angewandte Chemie, 2019, 131, 3320-3335.	2.0	57
27	An Iodineâ€Mediated Hofmannâ€LÃ¶fflerâ€Freytag Reaction of Sulfoximines Leading to Dihydroisothiazole Oxides. Advanced Synthesis and Catalysis, 2017, 359, 4274-4277.	4.3	45
28	Mechanochemical borylation of aryldiazonium salts; merging light and ball milling. Beilstein Journal of Organic Chemistry, 2017, 13, 1463-1469.	2.2	45
29	European Research in Focus: Mechanochemistry for Sustainable Industry (COST Action) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.4	44
30	Mechanosynthesis of Oddâ€Numbered Tetraaryl[n]cumulenes. Angewandte Chemie - International Edition, 2019, 58, 12945-12949.	13.8	41
31	Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. Angewandte Chemie - International Edition, 2020, 59, 13458-13462.	13.8	41
32	Selective enzymatic esterification of lignin model compounds in the ball mill. Beilstein Journal of Organic Chemistry, 2017, 13, 1788-1795.	2.2	38
33	Mechanochemical Activation of Iron Cyano Complexes: A Prebiotic Impact Scenario for the Synthesis of Î±â€Amino Acid Derivatives. Angewandte Chemie, 2018, 130, 2447-2450.	2.0	35
34	Mechanochemical dehydrocoupling of dimethylamine borane and hydrogenation reactions using Wilkinson's catalyst. Chemical Communications, 2018, 54, 8355-8358.	4.1	27
35	The Use of Copper and Vanadium Mineral Ores in Catalyzed Mechanochemical Carbonâ€“Carbon Bond Formations. ACS Sustainable Chemistry and Engineering, 2020, 8, 7262-7266.	6.7	27
36	Mechanochemical Copperâ€Catalyzed Asymmetric Michaelâ€Type Friedelâ€“Crafts Alkylation of Indoles with Arylidene Malonates. Chemistry - A European Journal, 2019, 25, 9202-9205.	3.3	26

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37	Mechanochemical Prebiotic Peptide Bond Formation**. Angewandte Chemie - International Edition, 2021, 60, 12727-12731.	13.8	26
38	Mechanochemical Palladiumâ€Catalyzed Carbonylative Reactions Using Mo(CO)₆. Chemistry - A European Journal, 2020, 26, 2576-2580.	3.3	25
39	Altering Copperâ€Catalyzed A 3 Couplings by Mechanochemistry: Oneâ€Pot Synthesis of 1,4â€Diaminoâ€2â€butynes from Aldehydes, Amines, and Calcium Carbide. Angewandte Chemie, 2018, 130, 10878-10882.	2.0	23
40	Mechanochemical Lignin-Mediated Strecker Reaction. Molecules, 2017, 22, 146.	3.8	22
41	Electroâ€Mechanochemical Atom Transfer Radical Cyclizations using Piezoelectric BaTiO₃. Angewandte Chemie, 2020, 132, 16499-16502.	2.0	22
42	Synthesis of acylglycerol derivatives by mechanochemistry. Beilstein Journal of Organic Chemistry, 2019, 15, 811-817.	2.2	20
43	Mechanistic Insights on the Mechanosynthesis of Phenytoin, a WHO Essential Medicine**. Chemistry - A European Journal, 2022, 28, .	3.3	20
44	Mechanosynthesis of Oddâ€Numbered Tetraaryl[n]cumulenes. Angewandte Chemie, 2019, 131, 13079-13083.	2.0	18
45	Mechanochemistry. Beilstein Journal of Organic Chemistry, 2017, 13, 2372-2373.	2.2	16
46	Cocrystal Formation Precedes the Mechanochemically Acetateâ€Assisted Câ€“H Activation with [Cp*RhCl₂]₂. Chemistry - A European Journal, 2022, 28, .	3.3	14
47	Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. Angewandte Chemie, 2020, 132, 13560-13564.	2.0	12
48	Synthesis of 3â€Iodobenzofurans by Electrophilic Cyclization under Solventless Conditions in a Ball Mill. European Journal of Organic Chemistry, 2018, 2018, 2458-2461.	2.4	11
49	Efficient Synthesis of New N-Benzyl- or N-(2-Furylmethyl)cinnamamides Promoted by the â€˜Greenâ€™ Catalyst Boric Acid, and Their Spectral Analysis. Synthesis, 2008, 2008, 377-382.	2.3	7
50	Mechanochemical Bromination of Naphthalene Catalyzed by Zeolites: From Small Scale to Continuous Synthesis. Chemistry Methods, 2022, 2, .	3.8	7
51	Mechanochemistry II. Beilstein Journal of Organic Chemistry, 2019, 15, 1521-1522.	2.2	5
52	Mechanochemical Prebiotic Peptide Bond Formation**. Angewandte Chemie, 2021, 133, 12837-12841.	2.0	5
53	Multi-faceted reactivity of N-fluorobenzenesulfonimide (NFSI) under mechanochemical conditions: fluorination, fluorodemethylation, sulfonylation, and amidation reactions. Beilstein Journal of Organic Chemistry, 2022, 18, 182-189.	2.2	5
54	Yb(OTf)3-Catalyzed Bromination Reactions of Natural Product-like N-Benzyl Cinnamamides: A Facile Route to Diverse N-Substituted Amides of Pharmacological Interest. Current Organic Chemistry, 2013, 17, 1545-1554.	1.6	2

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55	Frontispiece: Câ‚H Bond Functionalization by Mechanochemistry. Chemistry - A European Journal, 2017, 23, .	3.3	1