

JosÃ© G HernÃ¡ndez

List of Publications by Year in descending order

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55
papers

3,880
citations

126708

33
h-index

149479

56
g-index

66
all docs

66
docs citations

66
times ranked

2493
citing authors

#	ARTICLE	IF	CITATIONS
1	Altering Product Selectivity by Mechanochemistry. <i>Journal of Organic Chemistry</i> , 2017, 82, 4007-4019.	1.7	480
2	Sustainability Assessment of Mechanochemistry by Using the Twelve Principles of Green Chemistry. <i>ChemSusChem</i> , 2021, 14, 2145-2162.	3.6	287
3	Recent efforts directed to the development of more sustainable asymmetric organocatalysis. <i>Chemical Communications</i> , 2012, 48, 5396.	2.2	237
4	Mechanochemistry of Gaseous Reactants. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3285-3299.	7.2	232
5	Metal-catalyzed organic reactions using mechanochemistry. <i>Tetrahedron Letters</i> , 2015, 56, 4253-4265.	0.7	172
6	Asymmetric Aldol Reaction Organocatalyzed by (<i>S</i>)-Proline-Containing Dipeptides: Improved Stereinduction under Solvent-Free Conditions. <i>Journal of Organic Chemistry</i> , 2011, 76, 1464-1467.	1.7	166
7	C-H Bond Functionalization by Mechanochemistry. <i>Chemistry - A European Journal</i> , 2017, 23, 17157-17165.	1.7	121
8	Solvent-free asymmetric aldol reaction organocatalyzed by (<i>S</i>)-proline-containing thiodipeptides under ball-milling conditions. <i>Tetrahedron</i> , 2012, 68, 92-97.	1.0	119
9	Green Synthesis of β - and γ -Dipeptides under Solvent-Free Conditions. <i>Journal of Organic Chemistry</i> , 2010, 75, 7107-7111.	1.7	110
10	From Synthesis of Amino Acids and Peptides to Enzymatic Catalysis: A Bottom-Up Approach in Mechanochemistry. <i>ChemSusChem</i> , 2018, 11, 1410-1420.	3.6	108
11	Efficient ball-mill procedure in the "green" asymmetric aldol reaction organocatalyzed by (<i>S</i>)-proline-containing dipeptides in the presence of water. <i>Tetrahedron</i> , 2011, 67, 6953-6959.	1.0	94
12	Papain-catalysed mechanochemical synthesis of oligopeptides by milling and twin-screw extrusion: application in the Julia-Colonna enantioselective epoxidation. <i>Green Chemistry</i> , 2018, 20, 1262-1269.	4.6	94
13	Multi-step and multi-component organometallic synthesis in one pot using orthogonal mechanochemical reactions. <i>Chemical Science</i> , 2014, 5, 3576.	3.7	87
14	Mechanoenzymatic peptide and amide bond formation. <i>Green Chemistry</i> , 2017, 19, 2620-2625.	4.6	81
15	Organocatalytic Chemoselective Primary Alcohol Oxidation and Subsequent Cleavage of Lignin Model Compounds and Lignin. <i>ChemSusChem</i> , 2017, 10, 2707-2713.	3.6	81
16	[Cp*RhCl] ₂ : mechanosynthesis and applications in C-H bond functionalisations under ball-milling conditions. <i>Chemical Communications</i> , 2015, 51, 12582-12584.	2.2	80
17	Mechanochemical Oxidation and Cleavage of Lignin β -O-4 Model Compounds and Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3242-3254.	3.2	78
18	Altering Copper-Catalyzed A^{3+} Couplings by Mechanochemistry: One-Pot Synthesis of 1,4-Diamino-2-butyne from Aldehydes, Amines, and Calcium Carbide. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10718-10722.	7.2	78

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19	Electro-Mechanochemical Atom Transfer Radical Cyclizations using Piezoelectric BaTiO ₃ . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16357-16360.	7.2	77
20	Mechanochemical Enzymatic Kinetic Resolution of Secondary Alcohols under Ball-Milling Conditions. <i>ChemCatChem</i> , 2016, 8, 1769-1772.	1.8	74
21	Mechanochemical Cobalt-Catalyzed C-H Bond Functionalizations by Ball Milling. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 1800-1804.	2.1	74
22	A mechanochemical strategy for oxidative addition: remarkable yields and stereoselectivity in the halogenation of organometallic Re(<i>scp</i>) complexes. <i>Green Chemistry</i> , 2014, 16, 1087-1092.	4.6	70
23	Mechanochemical Strecker Reaction: Access to α -Aminonitriles and Tetrahydroisoquinolines under Ball-Milling Conditions. <i>Chemistry - A European Journal</i> , 2016, 22, 14513-14517.	1.7	65
24	Mechanochemical Activation of Iron Cyano Complexes: A Prebiotic Impact Scenario for the Synthesis of α -Amino Acid Derivatives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2423-2426.	7.2	64
25	Mechanochemical Ruthenium-Catalyzed Hydroarylations of Alkynes under Ball-Milling Conditions. <i>Organic Letters</i> , 2017, 19, 6284-6287.	2.4	57
26	Mechanochemie gasförmiger Reaktanten. <i>Angewandte Chemie</i> , 2019, 131, 3320-3335.	1.6	57
27	An Iodine-Mediated Hofmann-Löffler-Freytag Reaction of Sulfoximines Leading to Dihydroisothiazole Oxides. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 4274-4277.	2.1	45
28	Mechanochemical borylation of aryldiazonium salts; merging light and ball milling. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1463-1469.	1.3	45
29	European Research in Focus: Mechanochemistry for Sustainable Industry (COST Action) Tj ETQq1 1 0.784314 rgBT/Overlock_10 Tf 503	1.2	44
30	Mechanosynthesis of Odd-Numbered Tetraaryl[<i>n</i>]cumulenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12945-12949.	7.2	41
31	Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13458-13462.	7.2	41
32	Selective enzymatic esterification of lignin model compounds in the ball mill. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1788-1795.	1.3	38
33	Mechanochemical Activation of Iron Cyano Complexes: A Prebiotic Impact Scenario for the Synthesis of α -Amino Acid Derivatives. <i>Angewandte Chemie</i> , 2018, 130, 2447-2450.	1.6	35
34	Mechanochemical dehydrocoupling of dimethylamine borane and hydrogenation reactions using Wilkinson's catalyst. <i>Chemical Communications</i> , 2018, 54, 8355-8358.	2.2	27
35	The Use of Copper and Vanadium Mineral Ores in Catalyzed Mechanochemical Carbon-Carbon Bond Formations. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7262-7266.	3.2	27
36	Mechanochemical Copper-Catalyzed Asymmetric Michael-Type Friedel-Crafts Alkylation of Indoles with Arylidene Malonates. <i>Chemistry - A European Journal</i> , 2019, 25, 9202-9205.	1.7	26

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37	Mechanochemical Prebiotic Peptide Bond Formation**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12727-12731.	7.2	26
38	Mechanochemical Palladium-Catalyzed Carbonylative Reactions Using Mo(CO) ₆ . <i>Chemistry - A European Journal</i> , 2020, 26, 2576-2580.	1.7	25
39	Altering Copper-Catalyzed A 3 Couplings by Mechanochemistry: One-Pot Synthesis of 1,4-Diamino-2-butynes from Aldehydes, Amines, and Calcium Carbide. <i>Angewandte Chemie</i> , 2018, 130, 10878-10882.	1.6	23
40	Mechanochemical Lignin-Mediated Strecker Reaction. <i>Molecules</i> , 2017, 22, 146.	1.7	22
41	Electro-Mechanochemical Atom Transfer Radical Cyclizations using Piezoelectric BaTiO ₃ . <i>Angewandte Chemie</i> , 2020, 132, 16499-16502.	1.6	22
42	Synthesis of acylglycerol derivatives by mechanochemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 811-817.	1.3	20
43	Mechanistic Insights on the Mechanosynthesis of Phenytoin, a WHO Essential Medicine**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	20
44	Mechanosynthesis of Odd-Numbered Tetraaryl[<i>n</i>]cumulenes. <i>Angewandte Chemie</i> , 2019, 131, 13079-13083.	1.6	18
45	Mechanochemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2372-2373.	1.3	16
46	Cocrystal Formation Precedes the Mechanochemically Acetate-Assisted C-H Activation with [Cp*RhCl] ₂ . <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	14
47	Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. <i>Angewandte Chemie</i> , 2020, 132, 13560-13564.	1.6	12
48	Synthesis of 3-iodobenzofurans by Electrophilic Cyclization under Solventless Conditions in a Ball Mill. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2458-2461.	1.2	11
49	Efficient Synthesis of New <i>N</i> -Benzyl- or <i>N</i> -(2-Furylmethyl)cinnamamides Promoted by the â€˜Greenâ€™ Catalyst Boric Acid, and Their Spectral Analysis. <i>Synthesis</i> , 2008, 2008, 377-382.	1.2	7
50	Mechanochemical Bromination of Naphthalene Catalyzed by Zeolites: From Small Scale to Continuous Synthesis. <i>Chemistry Methods</i> , 2022, 2, .	1.8	7
51	Mechanochemistry II. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1521-1522.	1.3	5
52	Mechanochemical Prebiotic Peptide Bond Formation**. <i>Angewandte Chemie</i> , 2021, 133, 12837-12841.	1.6	5
53	Multi-faceted reactivity of <i>N</i> -fluorobenzenesulfonimide (NFSI) under mechanochemical conditions: fluorination, fluorodemethylation, sulfonylation, and amidation reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2022, 18, 182-189.	1.3	5
54	Yb(OTf) ₃ -Catalyzed Bromination Reactions of Natural Product-like <i>N</i> -Benzyl Cinnamamides: A Facile Route to Diverse <i>N</i> -Substituted Amides of Pharmacological Interest. <i>Current Organic Chemistry</i> , 2013, 17, 1545-1554.	0.9	2

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55	Frontispiece: C-H Bond Functionalization by Mechanochemistry. Chemistry - A European Journal, 2017, 23, .	1.7	1