

# 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	Mechanistic Insights on the Mechanochemical Synthesis of Phenytoin, a WHO Essential Medicine**. Chemistry - A European Journal, 2022, 28, .	1.7	20
2	Multi-faceted reactivity of <i>N</i> -fluorobenzenesulfonimide (NFSI) under mechanochemical conditions: fluorination, fluorodemethylation, sulfonylation, and amidation reactions. Beilstein Journal of Organic Chemistry, 2022, 18, 182-189.	1.3	5
3	Cocrystal Formation Precedes the Mechanochemically Acetate-Assisted C-H Activation with [Cp*RhCl <sub>2</sub> ] <sub>2</sub> . Chemistry - A European Journal, 2022, 28, .	1.7	14
4	Mechanochemical Bromination of Naphthalene Catalyzed by Zeolites: From Small Scale to Continuous Synthesis. Chemistry Methods, 2022, 2, .	1.8	7
5	Mechanochemical Prebiotic Peptide Bond Formation**. Angewandte Chemie, 2021, 133, 12837-12841.	1.6	5
6	Mechanochemical Prebiotic Peptide Bond Formation**. Angewandte Chemie - International Edition, 2021, 60, 12727-12731.	7.2	26
7	Sustainability Assessment of Mechanochemistry by Using the Twelve Principles of Green Chemistry. ChemSusChem, 2021, 14, 2145-2162.	3.6	287
8	Mechanochemical Palladium-Catalyzed Carbonylative Reactions Using Mo(CO) <sub>6</sub> . Chemistry - A European Journal, 2020, 26, 2576-2580.	1.7	25
9	Electro-Mechanochemical Atom Transfer Radical Cyclizations using Piezoelectric BaTiO <sub>3</sub> . Angewandte Chemie - International Edition, 2020, 59, 16357-16360.	7.2	77
10	Electro-Mechanochemical Atom Transfer Radical Cyclizations using Piezoelectric BaTiO <sub>3</sub> . Angewandte Chemie, 2020, 132, 16499-16502.	1.6	22
11	Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. Angewandte Chemie - International Edition, 2020, 59, 13458-13462.	7.2	41
12	Direct Visualization of a Mechanochemically Induced Molecular Rearrangement. Angewandte Chemie, 2020, 132, 13560-13564.	1.6	12
13	European Research in Focus: Mechanochemistry for Sustainable Industry (COST Action) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	1.2	44
14	The Use of Copper and Vanadium Mineral Ores in Catalyzed Mechanochemical Carbon-Carbon Bond Formations. ACS Sustainable Chemistry and Engineering, 2020, 8, 7262-7266.	3.2	27
15	Mechanochemistry II. Beilstein Journal of Organic Chemistry, 2019, 15, 1521-1522.	1.3	5
16	Mechanosynthesis of Odd-Numbered Tetraaryl[n]cumulenes. Angewandte Chemie - International Edition, 2019, 58, 12945-12949.	7.2	41
17	Mechanosynthesis of Odd-Numbered Tetraaryl[n]cumulenes. Angewandte Chemie, 2019, 131, 13079-13083.	1.6	18
18	Mechanochemie gasförmiger Reaktanten. Angewandte Chemie, 2019, 131, 3320-3335.	1.6	57

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19	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
20	Synthesis of acylglycerol derivatives by mechanochemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 811-817.	1.3	20
21	Mechanochemistry of Gaseous Reactants. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3285-3299.	7.2	232
22	Mechanochemical Cobalt-Catalyzed C-H Bond Functionalizations by Ball Milling. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 1800-1804.	2.1	74
23	Synthesis of 3-Hydroxybenzofurans by Electrophilic Cyclization under Solventless Conditions in a Ball Mill. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2458-2461.	1.2	11
24	Mechanochemical Oxidation and Cleavage of Lignin 2-O-4 Model Compounds and Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3242-3254.	3.2	78
25	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
26	Mechanochemical Activation of Iron Cyano Complexes: A Prebiotic Impact Scenario for the Synthesis of $\alpha$ -Amino Acid Derivatives. <i>Angewandte Chemie</i> , 2018, 130, 2447-2450.	1.6	35
27	Mechanochemical Activation of Iron Cyano Complexes: A Prebiotic Impact Scenario for the Synthesis of $\alpha$ -Amino Acid Derivatives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2423-2426.	7.2	64
28	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
29	Mechanochemical dehydrocoupling of dimethylamine borane and hydrogenation reactions using Wilkinson's catalyst. <i>Chemical Communications</i> , 2018, 54, 8355-8358.	2.2	27
30	Altering Copper-Catalyzed A <sup>3</sup> 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
31	Altering Copper-Catalyzed A <sup>3</sup> Couplings by Mechanochemistry: One-Pot Synthesis of 1,4-Diamino-2-butynes from Aldehydes, Amines, and Calcium Carbide. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10718-10722.	7.2	78
32	Altering Product Selectivity by Mechanochemistry. <i>Journal of Organic Chemistry</i> , 2017, 82, 4007-4019.	1.7	480
33	Mechanoenzymatic peptide and amide bond formation. <i>Green Chemistry</i> , 2017, 19, 2620-2625.	4.6	81
34	Organocatalytic Chemoselective Primary Alcohol Oxidation and Subsequent Cleavage of Lignin Model Compounds and Lignin. <i>ChemSusChem</i> , 2017, 10, 2707-2713.	3.6	81
35	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
36	C-H Bond Functionalization by Mechanochemistry. <i>Chemistry - A European Journal</i> , 2017, 23, 17157-17165.	1.7	121

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37	Mechanochemical Ruthenium-Catalyzed Hydroarylations of Alkynes under Ball-Milling Conditions. <i>Organic Letters</i> , 2017, 19, 6284-6287.	2.4	57
38	Mechanochemical Lignin-Mediated Strecker Reaction. <i>Molecules</i> , 2017, 22, 146.	1.7	22
39	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
40	Mechanochemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2372-2373.	1.3	16
41	Mechanochemical borylation of aryldiazonium salts; merging light and ball milling. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1463-1469.	1.3	45
42	Frontispiece: C-H Bond Functionalization by Mechanochemistry. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	1
43	Mechanochemical Enzymatic Kinetic Resolution of Secondary Alcohols under Ball-Milling Conditions. <i>ChemCatChem</i> , 2016, 8, 1769-1772.	1.8	74
44	Mechanochemical Strecker Reaction: Access to $\alpha$ -Aminonitriles and Tetrahydroisoquinolines under Ball-Milling Conditions. <i>Chemistry - A European Journal</i> , 2016, 22, 14513-14517.	1.7	65
45	[Cp*RhCl] <sub>2</sub> : mechanosynthesis and applications in C-H bond functionalisations under ball-milling conditions. <i>Chemical Communications</i> , 2015, 51, 12582-12584.	2.2	80
46	Metal-catalyzed organic reactions using mechanochemistry. <i>Tetrahedron Letters</i> , 2015, 56, 4253-4265.	0.7	172
47	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
48	Multi-step and multi-component organometallic synthesis in one pot using orthogonal mechanochemical reactions. <i>Chemical Science</i> , 2014, 5, 3576.	3.7	87
49	Yb(OTf) <sub>3</sub> -Catalyzed Bromination Reactions of Natural Product-like N-Benzyl Cinnamamides: A Facile Route to Diverse N-Substituted Amides of Pharmacological Interest. <i>Current Organic Chemistry</i> , 2013, 17, 1545-1554.	0.9	2
50	Recent efforts directed to the development of more sustainable asymmetric organocatalysis. <i>Chemical Communications</i> , 2012, 48, 5396.	2.2	237
51	Solvent-free asymmetric aldol reaction organocatalyzed by (S)-proline-containing thiodipeptides under ball-milling conditions. <i>Tetrahedron</i> , 2012, 68, 92-97.	1.0	119
52	Asymmetric Aldol Reaction Organocatalyzed by (S)-Proline-Containing Dipeptides: Improved Stereinduction under Solvent-Free Conditions. <i>Journal of Organic Chemistry</i> , 2011, 76, 1464-1467.	1.7	166
53	Efficient ball-mill procedure in the "green" asymmetric aldol reaction organocatalyzed by (S)-proline-containing dipeptides in the presence of water. <i>Tetrahedron</i> , 2011, 67, 6953-6959.	1.0	94
54	Green Synthesis of $\alpha$ - and $\beta$ -Dipeptides under Solvent-Free Conditions. <i>Journal of Organic Chemistry</i> , 2010, 75, 7107-7111.	1.7	110

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55	Efficient Synthesis of New <i>N</i> -Benzyl- or <i>N</i> -(2-Furylmethyl)cinnamamides Promoted by the "Green" Catalyst Boric Acid, and Their Spectral Analysis. <i>Synthesis</i> , 2008, 2008, 377-382.	1.2	7