Deborah E Crawford

List of Publications by Year
in descending order

25	1,697	393982	580395
papers	citations	19 h-index	25 g-index

26	26	26	1730
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis by extrusion: continuous, large-scale preparation of MOFs using little or no solvent. Chemical Science, 2015, 6, 1645-1649.	3.7	347
2	Organic synthesis by Twin Screw Extrusion (TSE): continuous, scalable and solvent-free. Green Chemistry, 2017, 19, 1507-1518.	4.6	160
3	Antimicrobial and antibiofilm activities of 1-alkylquinolinium bromide ionic liquids. Green Chemistry, 2010, 12, 420.	4.6	154
4	Recent Developments in Mechanochemical Materials Synthesis by Extrusion. Advanced Materials, 2016, 28, 5747-5754.	11.1	106
5	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.	4.6	94
6	Feedback Kinetics in Mechanochemistry: The Importance of Cohesive States. Angewandte Chemie - International Edition, 2017, 56, 15252-15256.	7.2	86
7	Mechanoenzymatic peptide and amide bond formation. Green Chemistry, 2017, 19, 2620-2625.	4.6	81
8	Solvent-Free, Continuous Synthesis of Hydrazone-Based Active Pharmaceutical Ingredients by Twin-Screw Extrusion. ACS Sustainable Chemistry and Engineering, 2020, 8, 12230-12238.	3.2	71
9	Upscaling Mechanochemistry: Challenges and Opportunities for Sustainable Industry. Trends in Chemistry, 2021, 3, 335-339.	4.4	70
10	Extrusion â€“ back to the future: Using an established technique to reform automated chemical synthesis. Beilstein Journal of Organic Chemistry, 2017, 13, 65-75.	1.3	61
11	Continuous multi-step synthesis by extrusion â€“ telescoping solvent-free reactions for greater efficiency. Chemical Communications, 2017, 53, 13067-13070.	2.2	58
12	Translating solid state organic synthesis from a mixer mill to a continuous twin screw extruder. Green Chemistry, 2018, 20, 4443-4447.	4.6	57
13	Mechanochemistry Can Reduce Life Cycle Environmental Impacts of Manufacturing Active Pharmaceutical Ingredients. ACS Sustainable Chemistry and Engineering, 2022, 10, 1430-1439.	3.2	54
14	Greener Dye Synthesis: Continuous, Solventâ€Free Synthesis of Commodity Perylene Diimides by Twinâ€Screw Extrusion. Angewandte Chemie - International Edition, 2020, 59, 4478-4483.	7.2	46
15	European Research in Focus: Mechanochemistry for Sustainable Industry (COST Action) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.2	44
16	Feedback Kinetics in Mechanochemistry: The Importance of Cohesive States. Angewandte Chemie, 2017, 129, 15454-15458.	1.6	34
17	Continuous and scalable synthesis of a porous organic cage by twin screw extrusion (TSE). Chemical Science, 2020, 11, 6582-6589.	3.7	30
18	Insights into mechanochemical reactions at the molecular level: simulated indentations of aspirin and meloxicam crystals. Chemical Science, 2019, 10, 2924-2929.	3.7	29

#	Article	IF	Citations
19	Mechanochemical dehydrocoupling of dimethylamine borane and hydrogenation reactions using Wilkinson's catalyst. Chemical Communications, 2018, 54, 8355-8358.	2.2	27
20	Solvent-free sonochemistry: Sonochemical organic synthesis in the absence of a liquid medium. Beilstein Journal of Organic Chemistry, 2017, 13, 1850-1856.	1.3	21
21	Use of Batch Mixing To Investigate the Continuous Solvent-Free Mechanical Synthesis of OLED Materials by Twin-Screw Extrusion (TSE). ACS Sustainable Chemistry and Engineering, 2018, 6, 193-201.	3.2	19
22	Solvent-free sonochemistry as a route to pharmaceutical co-crystals. Chemical Communications, 2019, 55, 5463-5466.	2.2	17
23	Greener Dye Synthesis: Continuous, Solventâ€Free Synthesis of Commodity Perylene Diimides by Twinâ€Screw Extrusion. Angewandte Chemie, 2020, 132, 4508-4513.	1.6	16
24	Cytotoxicity of Mechanochemically Prepared Cu(II) Complexes. ACS Sustainable Chemistry and Engineering, 2020, 8, 15243-15249.	3.2	13
25	Mechanochemical synthesis of mononuclear gold(i) halide complexes of diphosphine ligands with tuneable luminescent properties. Dalton Transactions, 2021, 50, 13337-13344.	1.6	2