Gregory Chatel

List of Publications by Year
in descending order

51 papers	2,804 citations	172386 29 h-index	189801 50 g-index
58 all docs	58 docs citations	58 times ranked	4151 citing authors

#	Article	IF	Citations
1	Heterogeneous catalytic oxidation for lignin valorization into valuable chemicals: what results? What limitations? What trends?. Green Chemistry, 2016, 18, 1839-1854.	4.6	321
2	Review: Oxidation of Lignin Using Ionic Liquidsâ€"An Innovative Strategy To Produce Renewable Chemicals. ACS Sustainable Chemistry and Engineering, 2014, 2, 322-339.	3.2	290
3	Mixing ionic liquids â€" â€œsimple mixturesâ€•or â€œdouble saltsâ€?. Green Chemistry, 2014, 16, 2051.	4.6	289
4	Contribution of Deep Eutectic Solvents for Biomass Processing: Opportunities, Challenges, and Limitations. ChemCatChem, 2015, 7, 1250-1260.	1.8	180
5	How sonochemistry contributes to green chemistry?. Ultrasonics Sonochemistry, 2018, 40, 117-122.	3.8	126
6	Ionic liquids and ultrasound in combination: synergies and challenges. Chemical Society Reviews, 2014, 43, 8132-8149.	18.7	118
7	Correlating the structure and composition of ionic liquids with their toxicity on Vibrio fischeri: A systematic study. Journal of Hazardous Materials, 2012, 215-216, 40-48.	6.5	117
8	Evaluating Ionic Liquids as Hypergolic Fuels: Exploring Reactivity from Molecular Structure. Energy & Fuels, 2014, 28, 3460-3473.	2.5	76
9	Synthesis of maleic and fumaric acids from furfural in the presence of betaine hydrochloride and hydrogen peroxide. Green Chemistry, 2017, 19, 98-101.	4.6	73
10	Sonochemistry: What Potential for Conversion of Lignocellulosic Biomass into Platform Chemicals?. ChemSusChem, 2014, 7, 2774-2787.	3.6	64
11	Avoid the PCB mistakes: A more sustainable future for ionic liquids. Journal of Hazardous Materials, 2017, 324, 773-780.	6.5	63
12	Depolymerization of cellulose to processable glucans by non-thermal technologies. Green Chemistry, 2016, 18, 3903-3913.	4.6	59
13	Ultrasound and microwave irradiation: contributions of alternative physicochemical activation methods to Green Chemistry. Green Chemistry, 2019, 21, 6043-6050.	4.6	58
14	Viticultural wood waste as a source of polyphenols of interest: Opportunities and perspectives through conventional and emerging extraction methods. Waste Management, 2020, 102, 782-794.	3.7	56
15	Facile pulping of lignocellulosic biomass using choline acetate. Bioresource Technology, 2014, 164, 394-401.	4.8	53
16	Sonochemical oxidation of vanillyl alcohol to vanillin in the presence of a cobalt oxide catalyst under mild conditions. Ultrasonics Sonochemistry, 2017, 36, 27-35.	3.8	47
17	Selective and Catalyst-free Oxidation of D-Glucose to D-Glucuronic acid induced by High-Frequency Ultrasound. Scientific Reports, 2017, 7, 40650.	1.6	46
18	Sonochemistry: from Basic Principles to Innovative Applications. Topics in Current Chemistry, 2017, 375, 8.	3.0	45

#	ARTICLE	IF	CITATIONS
19	H2O2/NaHCO3-mediated enantioselective epoxidation of olefins in NTf2-based ionic liquids and under ultrasound. Journal of Catalysis, 2012, 291, 127-132.	3.1	43
20	Ultrasound for Drug Synthesis: A Green Approach. Pharmaceuticals, 2020, 13, 23.	1.7	42
21	Sonocatalysis: A Potential Sustainable Pathway for the Valorization of Lignocellulosic Biomass and Derivatives. Topics in Current Chemistry, 2017, 375, 41.	3.0	41
22	Sonochemistry in nanocatalysis: The use of ultrasound from the catalyst synthesis to the catalytic reaction. Current Opinion in Green and Sustainable Chemistry, 2019, 15, 1-6.	3.2	39
23	A Combined Approach using Sonochemistry and Photocatalysis: How to Apply Sonophotocatalysis for Biomass Conversion?. ChemCatChem, 2017, 9, 2615-2621.	1.8	38
24	Template-free electrodeposition of tellurium nanostructures in a room-temperature ionic liquid. Electrochemistry Communications, 2012, 24, 57-60.	2.3	36
25	Efficient and Selective Oxidation of <scp>D</scp>â€Glucose into Gluconic acid under Lowâ€Frequency Ultrasonic Irradiation. ChemCatChem, 2014, 6, 3355-3359.	1.8	36
26	Green, selective and swift oxidation of cyclic alcohols to corresponding ketones. Applied Catalysis A: General, 2014, 478, 157-164.	2.2	35
27	How efficiently combine sonochemistry and clay science?. Applied Clay Science, 2016, 119, 193-201.	2.6	34
28	Subcritical water and supercritical carbon dioxide: efficient and selective eco-compatible solvents for coffee and coffee by-products valorization. Green Chemistry, 2020, 22, 8544-8571.	4.6	34
29	Mechanochemical Forces as a Synthetic Tool for Zero- and One-Dimensional Titanium Oxide-Based Nano-photocatalysts. Topics in Current Chemistry, 2020, 378, 2.	3.0	31
30	Ultrasound and ionic liquid: An efficient combination to tune the mechanism of alkenes epoxidation. Ultrasonics Sonochemistry, 2012, 19, 390-394.	3.8	30
31	Sonochemistry. , 2017, , .		28
32	Ionic Fluids Containing Both Strongly and Weakly Interacting Ions of the Same Charge Have Unique Ionic and Chemical Environments as a Function of Ion Concentration. ChemPhysChem, 2015, 16, 993-1002.	1.0	27
33	Amphiphilic dipyridinium-phosphotungstate as an efficient and recyclable catalyst for triphasic fatty ester epoxidation and oxidative cleavage with hydrogen peroxide. Green Chemistry, 2017, 19, 2855-2862.	4.6	26
34	Ultrasonic Properties of Hydrophobic Bis(trifluoromethylsulfonyl)imide-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2012, 57, 3385-3390.	1.0	25
35	Recent trends in the development of sustainable catalytic systems for the oxidative cleavage of cycloalkenes by hydrogen peroxide. Catalysis Science and Technology, 2019, 9, 5256-5278.	2.1	24
36	Study of Influential Parameters of the Caffeine Extraction from Spent Coffee Grounds: From Brewing Coffee Method to the Waste Treatment Conditions. Clean Technologies, 2021, 3, 335-350.	1.9	23

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37	Hydrophobic Bis(trifluoromethylsulfonyl)imide-Based Ionic Liquids Pyrolysis: Through the Window of the Ultrasonic Reactor. ACS Sustainable Chemistry and Engineering, 2013, 1, 137-143.	3.2	22
38	Effect of low frequency ultrasound on the surface properties of natural aluminosilicates. Ultrasonics Sonochemistry, 2016, 31, 598-609.	3.8	16
39	<i>trans</i>-Resveratrol and <i>trans</i>-Îµ-Viniferin in Grape Canes and Stocks Originating from Savoie Mont Blanc Vineyard Region: Pre-extraction Parameters for Improved Recovery. ACS Sustainable Chemistry and Engineering, 2019, 7, 8310-8316.	3.2	16
40	Effect of Ultrasound on the Green Selective Oxidation of Benzyl Alcohol to Benzaldehyde. Molecules, 2019, 24, 4157.	1.7	13
41	Ultrasound in Combination with Ionic Liquids: Studied Applications and Perspectives. Topics in Current Chemistry, 2016, 374, 51.	3.0	12
42	Catalystâ€Free Synthesis of Alkylpolyglycosides Induced by Highâ€Frequency Ultrasound. ChemSusChem, 2018, 11, 2673-2676.	3.6	12
43	High frequency ultrasound as a tool for elucidating mechanistic elements of cis-cyclooctene epoxidation with aqueous hydrogen peroxide. Ultrasonics Sonochemistry, 2019, 53, 120-125.	3.8	11
44	Chemists around the World, Take Your Part in the Circular Economy!. Chemistry - A European Journal, 2020, 26, 9665-9673.	1.7	10
45	Oxidative cleavage of cycloalkenes using hydrogen peroxide and a tungsten-based catalyst: towards a complete mechanistic investigation. New Journal of Chemistry, 2021, 45, 235-242.	1.4	5
46	Ultrasound-Assisted Synthesis of Nanostructured Oxide Materials. Advances in Chemical and Materials Engineering Book Series, 2018, , 177-215.	0.2	5
47	Selective dihydroxylation of methyl oleate to methyl-9,10-dihydroxystearate in the presence of a recyclable tungsten based catalyst and hydrogen peroxide. New Journal of Chemistry, 2020, 44, 11507-11512.	1.4	4
48	Oxidative cyclization of linoleic acid in the presence of hydrogen peroxide and phosphotungstic acid. Molecular Catalysis, 2020, 493, 111084.	1.0	1
49	French Young Chemists' Network: Two Years Already!. ChemistryViews, 0, , .	0.0	0
50	Expectations of Younger Chemists in France. ChemistryViews, 0, , .	0.0	0
51	Chemistry and the Circular Economy. ChemistryViews, 0, , .	0.0	0