

# Carine Julcour

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

1,331  
citations

23  
h-index

34  
g-index

62  
ext. papers

1,491  
ext. citations

6  
avg, IF

4.43  
L-index

#	Paper	IF	Citations
60	Sonolysis of levodopa and paracetamol in aqueous solutions. <i>Ultrasonics Sonochemistry</i> , <b>2009</b> , 16, 610-617	8.9	117
59	Sonolysis and sono-Fenton oxidation for removal of ibuprofen in (waste)water. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 39, 889-896	8.9	76
58	Heterogeneous Fenton oxidation of paracetamol using iron oxide (nano)particles. <i>Journal of Environmental Chemical Engineering</i> , <b>2013</b> , 1, 1214-1222	6.8	67
57	Core-shell nanoreactors for efficient aqueous biphasic catalysis. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15505-17	4.8	62
56	Ex situ mineral carbonation for CO <sub>2</sub> mitigation: Evaluation of mining waste resources, aqueous carbonation processability and life cycle assessment (Carmex project). <i>Minerals Engineering</i> , <b>2014</b> , 59, 52-63	4.9	47
55	Comprehensive analysis of direct aqueous mineral carbonation using dissolution enhancing organic additives. <i>International Journal of Greenhouse Gas Control</i> , <b>2012</b> , 9, 334-346	4.2	47
54	An executive review of sludge pretreatment by sonication. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 37, 139-53	6.4	45
53	Aqueous phase homogeneous catalysis using core-shell nanoreactors: Application to rhodium-catalyzed hydroformylation of 1-octene. <i>Journal of Catalysis</i> , <b>2015</b> , 324, 1-8	7.3	43
52	Heterogeneous Fenton oxidation using Fe-ZSM5 catalyst for removal of ibuprofen in wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 5920-5928	6.8	43
51	Mass Transfer and Solubility of CO and H <sub>2</sub> in Ionic Liquid. Case of [Bmim][PF <sub>6</sub> ] with Gas-Inducing Stirrer Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 4075-4082	3.9	41
50	Degradation of paracetamol by catalytic wet air oxidation and sequential adsorption - Catalytic wet air oxidation on activated carbons. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 221-222, 131-8	12.8	40
49	Heterogeneous fenton and photo-fenton oxidation for paracetamol removal using iron containing ZSM-5 zeolite as catalyst. <i>AIChE Journal</i> , <b>2017</b> , 63, 669-679	3.6	32
48	Amphiphilic core-cross-linked micelles functionalized with bis(4-methoxyphenyl)phenylphosphine as catalytic nanoreactors for biphasic hydroformylation. <i>Polymer</i> , <b>2015</b> , 72, 327-335	3.9	32
47	Application of sludge-based carbonaceous materials in a hybrid water treatment process based on adsorption and catalytic wet air oxidation. <i>Journal of Environmental Management</i> , <b>2010</b> , 91, 2432-9	7.9	32
46	Regeneration of Activated Carbon by (Photo)-Fenton Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 989-995	3.9	31
45	Comparative adsorption of levodopa from aqueous solution on different activated carbons. <i>Chemical Engineering Journal</i> , <b>2009</b> , 152, 183-188	14.7	31
44	Hydrogenation of 1,5,9-cyclododecatriene in fixed-bed reactors: Down- vs. upflow modes. <i>AIChE Journal</i> , <b>2002</b> , 48, 110-125	3.6	31

43	ADDX: A sequential oxidative process for water treatment and regeneration of activated carbon. <i>Chemical Engineering Journal</i> , <b>2009</b> , 152, 189-194	14.7	30
42	Wetting topology in trickle bed reactors. <i>AIChE Journal</i> , <b>2007</b> , 53, 1850-1860	3.6	29
41	Development of an attrition-leaching hybrid process for direct aqueous mineral carbonation. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 716-726	14.7	28
40	Degradation of 2,4-dichlorophenoxyacetic acid by photolysis and photo-Fenton oxidation. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 874-882	6.8	24
39	Ultrasonic sludge pretreatment under pressure. <i>Ultrasonics Sonochemistry</i> , <b>2013</b> , 20, 1203-10	8.9	24
38	Kinetics of hydroformylation of 1-octene in ionic liquid-organic biphasic media using rhodium sulfoxantphos catalyst. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 1631-1639	4.4	24
37	Core phosphine-functionalized amphiphilic nanogels as catalytic nanoreactors for aqueous biphasic hydroformylation. <i>Journal of Catalysis</i> , <b>2016</b> , 342, 164-172	7.3	23
36	Partial Wetting in Trickle Bed Reactors: Measurement Techniques and Global Wetting Efficiency. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 8397-8405	3.9	23
35	Optimisation of sludge pretreatment by low frequency sonication under pressure. <i>Journal of Environmental Management</i> , <b>2016</b> , 165, 206-212	7.9	17
34	Degradation of chlordecone and beta-hexachlorocyclohexane by photolysis, (photo-)fenton oxidation and ozonation. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , <b>2018</b> , 53, 121-125	2.2	17
33	Optimization of hydrostatic pressure at varied sonication conditions--power density, intensity, very low frequency--for isothermal ultrasonic sludge treatment. <i>Ultrasonics Sonochemistry</i> , <b>2015</b> , 25, 51-9	8.9	16
32	Measurements and Modeling of Wetting Efficiency in Trickle-Bed Reactors: Liquid Viscosity and Bed Packing Effects. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 6811-6819	3.9	16
31	Scale-up and Modeling of Fixed-Bed Reactors for Catalytic Phenol Oxidation over Adsorptive Active Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 9513-9523	3.9	16
30	Selective hydrogenation of 1,5,9-cyclododecatriene in up- and down-flow fixed-bed reactors: experimental observations and modeling. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 557-564	4.4	16
29	Catalytic Oxidation of 4-Hydroxybenzoic Acid on Activated Carbon in Batch Autoclave and Fixed-Bed Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 8388-8396	3.9	15
28	Effect of transition metal impregnation on oxidative regeneration of activated carbon by catalytic wet air oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 187, 228-237	21.8	14
27	Dynamics of a three-phase upflow fixed-bed catalytic reactor. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 2391-2400	4.4	14
26	Selective hydrogenation in trickle-bed reactor: experimental and modelling including partial wetting. <i>Catalysis Today</i> , <b>2003</b> , 79-80, 293-305	5.3	13

25	Preparation of phosphine-functionalized polystyrene stars by metal catalyzed controlled radical copolymerization and their application to hydroformylation catalysis. <i>Dalton Transactions</i> , <b>2013</b> , 42, 9148-9156	4.3	12
24	Preparation of Polymer Supported Phosphine Ligands by Metal Catalyzed Living Radical Copolymerization and Their Application to Hydroformylation Catalysis. <i>ChemCatChem</i> , <b>2013</b> , 5, 1161-1169	5.2	11
23	Competitive Adsorption of p-Hydroxybenzoic Acid and Phenol on Activated Carbon: Experimental Study and Modeling. <i>Journal of Environmental Engineering, ASCE</i> , <b>2013</b> , 139, 402-409	2	11
22	Hydrodynamic study of a monolith-type reactor for intensification of gas-liquid applications. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2017</b> , 122, 277-287	3.7	10
21	Improving sewage sludge ultrasonic pretreatment under pressure by changing initial pH. <i>Journal of Environmental Management</i> , <b>2013</b> , 128, 548-54	7.9	10
20	Assessment and Modeling of a Sequential Process for Water Treatment Adsorption and Batch CWAO Regeneration of Activated Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 8867-8874	3.9	10
19	Theoretical analysis of tracer method for the measurement of wetting efficiency. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 5374-5379	4.4	10
18	Modelling and simulations of a monolith reactor for three-phase hydrogenation reactions Rules and recommendations for mass transfer analysis. <i>Catalysis Today</i> , <b>2016</b> , 273, 121-130	5.3	10
17	One-Pot RAFT Synthesis of Triphenylphosphine-Functionalized Amphiphilic Core-Shell Polymers and Application as Catalytic Nanoreactors in Aqueous Biphasic Hydroformylation. <i>ACS Symposium Series</i> , <b>2015</b> , 203-220	0.4	9
16	Regeneration of coked zeolite from PMMA cracking process by ozonation. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 140-141, 396-405	21.8	9
15	Effect of partial wetting on liquid/solid mass transfer in trickle bed reactors. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 7020-7025	4.4	9
14	Dynamics of internal diffusion during the hydrogenation of 1,5,9-cyclododecatriene on Pd/Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Today</i> , <b>1999</b> , 48, 147-159	5.3	9
13	Dynamic modeling of three-phase upflow fixed-bed reactor including pore diffusion. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2002</b> , 41, 311-320	3.7	6
12	Axial acoustic field along a solid-liquid fluidized bed under power ultrasound. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 274-283	8.9	5
11	Towards a New Oxidation Process Using Ozone to Regenerate Coked Catalysts. <i>Ozone: Science and Engineering</i> , <b>2017</b> , 39, 366-373	2.4	4
10	Understanding the chemistry of direct aqueous carbonation with additives through geochemical modelling. <i>Energy Procedia</i> , <b>2011</b> , 4, 3809-3816	2.3	4
9	Core-Cross-Linked Micelles and Amphiphilic Nanogels as Unimolecular Nanoreactors for Micellar-Type, Metal-Based Aqueous Biphasic Catalysis. <i>Fundamental and Applied Catalysis</i> , <b>2017</b> , 147-172	1	4
8	Definition and Exploration of the Integrated CO <sub>2</sub> Mineralization Technological Cycle. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	3

7	Accurate hydrogenated vegetable oil viscosity predictions for monolith reactor simulations. <i>Chemical Engineering Science</i> , <b>2020</b> , 214, 115388	4.4	3
6	Degradation of ibuprofen by photo-based advanced oxidation processes: exploring methods of activation and related reaction routes. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	3
5	Periodic reactor operation for parameter estimation in catalytic heterogeneous kinetics. Case study for ethylene adsorption on Ni/Al <sub>2</sub> O <sub>3</sub> . <i>Chemical Engineering Science</i> , <b>2020</b> , 214, 114544	4.4	2
4	Insights Into Nickel Slag Carbonation in a Stirred Bead Mill. <i>Frontiers in Chemical Engineering</i> , <b>2020</b> , 2,	1	1
3	Degradation mechanism of tributyl phosphate by UV/HO treatment and parameters optimization towards the design of a pilot reactor. <i>Environmental Technology (United Kingdom)</i> , <b>2021</b> , 42, 4247-4259	2.6	0
2	Sunflower oil hydrogenation mechanisms and kinetics. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129854	14.7	0
1	Improvement of (transition metal-modified) activated carbon regeneration by HO-promoted catalytic wet air oxidation. <i>Environmental Technology (United Kingdom)</i> , <b>2018</b> , 39, 2761-2770	2.6	