RÃ©gis Philippe

List of Publications by Year
in descending order

45 papers	1,389 citations	361413 20 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1570 citing authors

#	Article	IF	Citations
1	Bimetallic catalysis on carbon nanotubes for the selective hydrogenation of cinnamaldehyde. Journal of Catalysis, 2006, 240, 18-22.	6.2	172
2	Power-to-Liquid catalytic CO2 valorization into fuels and chemicals: focus on the Fischer-Tropsch route. Journal of CO2 Utilization, 2020, 38, 314-347.	6.8	106
3	A Safe and Efficient Flow Oxidation of Aldehydes with O₂. Organic Letters, 2013, 15, 5978-5981.	4.6	80
4	Effect of structure and thermal properties of a Fischerâ€“Tropsch catalyst in a fixed bed. Catalysis Today, 2009, 147, S305-S312.	4.4	79
5	Catalytic Production of Carbon Nanotubes by Fluidizedâ€Bed CVD. Chemical Vapor Deposition, 2007, 13, 447-457.	1.3	76
6	Milli-channel with metal foams under an applied gasâ€“liquid periodic flow: External mass transfer performance and pressure drop. Chemical Engineering Journal, 2015, 267, 332-346.	12.7	62
7	An original growth mode of MWCNTs on alumina supported iron catalysts. Journal of Catalysis, 2009, 263, 345-358.	6.2	55
8	Insights in the aerobic oxidation of aldehydes. RSC Advances, 2013, 3, 18931.	3.6	51
9	Gasâ€“liquid Taylor flow in square micro-channels: New inlet geometries and interfacial area tuning. Chemical Engineering Journal, 2010, 165, 290-300.	12.7	47
10	Gasâ€“liquidâ€“solid â€œslurry Taylorâ€•flow: Experimental evaluation through the catalytic hydrogenation of 3-methyl-1-pentyn-3-ol. Chemical Engineering Journal, 2013, 227, 174-181.	12.7	45
11	Origin of the synergistic effect between TiO2 crystalline phases in the Ni/TiO2-catalyzed CO2 methanation reaction. Journal of Catalysis, 2021, 398, 14-28.	6.2	43
12	Liquidâ€“Solid Mass Transfer for Microchannel Suspension Catalysis in Gasâ€“Liquid and Liquidâ€“Liquid Segmented Flow. Industrial & Engineering Chemistry Research, 2015, 54, 4699-4708.	3.7	42
13	Kinetic study of carbon nanotubes synthesis by fluidized bed chemical vapor deposition. AICHE Journal, 2009, 55, 450-464.	3.6	41
14	Milli-channel with metal foams under an applied gasâ€“liquid periodic flow: Flow patterns, residence time distribution and pulsing properties. Chemical Engineering Science, 2015, 126, 406-426.	3.8	41
15	Mass transfer characterisation of a microstructured falling film at pilot scale. Chemical Engineering Journal, 2013, 227, 182-190.	12.7	35
16	Continuous, Fast, and Safe Aerobic Oxidation of 2-Ethylhexanal: Pushing the Limits of the Simple Tube Reactor for a Gas/Liquid Reaction. Organic Process Research and Development, 2016, 20, 90-94.	2.7	31
17	Control of the single atom/nanoparticle ratio in Pd/C catalysts to optimize the cooperative hydrogenation of alkenes. Catalysis Science and Technology, 2021, 11, 984-999.	4.1	30
18	Effect of mesoporous carbon support nature and pretreatments on palladium loading, dispersion and apparent catalytic activity in hydrogenation of myrcene. Journal of Catalysis, 2019, 372, 226-244.	6.2	29

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19	Simple and selective conversion of fructose into HMF using extractive-reaction process in microreactor. Journal of Flow Chemistry, 2018, 8, 3-9.	1.9	28
20	A simple and realistic fixed bed model for investigating Fischerâ€“Tropsch catalyst activity at lab-scale and extrapolating to industrial conditions. Chemical Engineering Science, 2011, 66, 6358-6366.	3.8	23
21	Liquid residence time distribution of multiphase horizontal flow in packed bed milli-channel: Spherical beads versus open cell solid foams. Chemical Engineering Science, 2018, 190, 149-163.	3.8	22
22	Hydrodynamics and mass transfer in a tubular reactor containing foam packings for intensification of G-L-S catalytic reactions in co-current up-flow configuration. Chemical Engineering Research and Design, 2016, 109, 686-697.	5.6	20
23	External liquid solid mass transfer for solid particles transported in a milli-channel within a gasâ€“liquid segmented flow. Chemical Engineering Journal, 2016, 287, 92-102.	12.7	20
24	Aerobic Oxidative Cleavage of Vicinal Diol Fatty Esters by a Supported Ruthenium Hydroxide Catalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 13167-13175.	6.7	18
25	Direct coating of carbon-supported catalysts on monoliths and foams â€“ Singular behaviour of Pd/MWCNT. Applied Catalysis A: General, 2015, 508, 45-51.	4.3	17
26	Use of CFD for pressure drop, liquid saturation and wetting predictions in trickle bed reactors for different catalyst particle shapes. Chemical Engineering Science, 2022, 249, 117315.	3.8	17
27	Kinetic modeling study of carbon nanotubes synthesis by fluidized bed chemical vapor deposition. AICHE Journal, 2009, 55, 465-474.	3.6	15
28	Process intensification of the catalytic hydrogenation of squalene using a Pd/CNT catalyst combining nanoparticles and single atoms in a continuous flow reactor. Chemical Engineering Journal, 2022, 441, 135951.	12.7	15
29	On the stability of Taylor bubbles inside a confined highly porous medium. International Journal of Multiphase Flow, 2016, 85, 157-163.	3.4	13
30	CFD modeling of mass transfer in Gas-Liquid-Solid catalytic reactors. Chemical Engineering Science, 2021, 233, 116378.	3.8	13
31	Catalytic and Kinetic Study of the CO₂ Hydrogenation Reaction over a Feâ€“K/Al₂O₃ Catalyst toward Liquid and Gaseous Hydrocarbon Production. Industrial & Engineering Chemistry Research, 2021, 60, 16635-16652.	3.7	13
32	Radial Dispersion in Liquid Upflow through Solid SiC Foams. Industrial & Engineering Chemistry Research, 2011, 50, 4329-4334.	3.7	11
33	Continuous flow oxidation of benzylic and aliphatic alcohols using bleach: process improvement by precise pH adjustment in flow with CO2. Reaction Chemistry and Engineering, 2018, 3, 188-194.	3.7	10
34	Direct Synthesis of Nitriles from Carboxylic Acids Using Indium-Catalyzed Transnitrilation: Mechanistic and Kinetic Study. ACS Catalysis, 2019, 9, 9705-9714.	11.2	10
35	Continuous flow aerobic alcohol oxidation using a heterogeneous Ru⁰ catalyst. Reaction Chemistry and Engineering, 2019, 4, 550-558.	3.7	10
36	Unexpected role of NOx during catalytic ozone abatement at low temperature. Catalysis Communications, 2021, 148, 106163.	3.3	8

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37	Hydrodynamics of gas-liquid co-current flow through a thin sheet of highly porous open cell solid foam. Chemical Engineering Science, 2020, 226, 115811.	3.8	7
38	A phenomenological model for bubble coalescence in confined highly porous media. International Journal of Multiphase Flow, 2018, 105, 134-141.	3.4	6
39	Online monitoring by infrared spectroscopy using multivariate analysis â€“ background theory and application to catalytic dehydrogenative coupling of butanol to butyl butyrate. Reaction Chemistry and Engineering, 2019, 4, 909-918.	3.7	6
40	Investigating (Pseudo)-Heterogeneous Pd-Catalysts for Kraft Lignin Depolymerization under Mild Aqueous Basic Conditions. Catalysts, 2021, 11, 1311.	3.5	6
41	Unexpected reactivity related to support effects during xylose hydrogenation over ruthenium catalysts. RSC Advances, 2021, 11, 39387-39398.	3.6	6
42	Development and Validation of a Detailed Microkinetic Model for the CO₂ Hydrogenation Reaction toward Hydrocarbons over an Feâ€“K/Al₂O₃ Catalyst. Industrial & Engineering Chemistry Research, 2022, 61, 4514-4533.	3.7	4
43	Multiphase alternated slug flows: Conditions to avoid coalescence and characterization of mass transfer between droplets. Chemical Engineering Journal, 2021, 407, 127215.	12.7	3
44	Comparison of Structured Reactors for Ozone Abatement in Aircrafts at Low Temperature. Industrial & Engineering Chemistry Research, 2021, 60, 16739-16746.	3.7	2
45	Corrigendum to â€œEffect of structure and thermal properties of a Fischerâ€“Tropsch catalyst in a fixed bedâ€•[Catal. Today 147S (2009) S305â€“S312]. Catalysis Today, 2011, 160, 255-256.	4.4	1