Danilo Russo

List of Publications by Year
in descending order

23 papers	434 citations	687363 13 h-index	752698 20 g-index
24 all docs	24 docs citations	24 times ranked	598 citing authors

#	Article	IF	Citations
1	Multi-objective Bayesian optimisation of a two-step synthesis of p-cymene from crude sulphate turpentine. Chemical Engineering Science, 2022, 247, 116938.	3.8	15
2	Efficient Syntheses of Biobased Terephthalic Acid, p-Toluic Acid, and p-Methylacetophenone via One-Pot Catalytic Aerobic Oxidation of Monoterpene Derived Bio-p-cymene. ACS Sustainable Chemistry and Engineering, 2021, 9, 8642-8652.	6.7	12
3	Photocatalytic Applications in Wastewater and Air Treatment: A Patent Review (2010â€“2020). Catalysts, 2021, 11, 834.	3.5	18
4	Kinetic Modeling of Advanced Oxidation Processes Using Microreactors: Challenges and Opportunities for Scale-Up. Applied Sciences (Switzerland), 2021, 11, 1042.	2.5	13
5	Optimization of Formulations Using Robotic Experiments Driven by Machine Learning DoE. Cell Reports Physical Science, 2021, 2, 100295.	5.6	28
6	K-doped CeO₂â€“ZrO₂ for CO₂ thermochemical catalytic splitting. RSC Advances, 2021, 11, 39420-39427.	3.6	6
7	Photoactivated Fe(III)/Fe(II)/WO3â€“Pd fuel cell for electricity generation using synthetic and real effluents under visible light. Renewable Energy, 2020, 147, 1070-1081.	8.9	14
8	A new formulation for symbolic regression to identify physico-chemical laws from experimental data. Chemical Engineering Journal, 2020, 387, 123412.	12.7	27
9	Ultrafast photodegradation of isoxazole and isothiazolinones by UV254 and UV254/H2O2 photolysis in a microcapillary reactor. Water Research, 2020, 169, 115203.	11.3	15
10	Machine Learning-aided Process Design for Formulated Products. Computer Aided Chemical Engineering, 2020, 48, 1789-1794.	0.5	4
11	The role of NO2 and NO in the mechanism of hydrocarbon degradation leading to carbonaceous deposits in engines. Fuel, 2020, 267, 117218.	6.4	7
12	Heterogeneous benzaldehyde nitration in batch and continuous flow microreactor. Chemical Engineering Journal, 2019, 377, 120346.	12.7	21
13	Modeling and validation of a modular multi-lamp photo-reactor for cetylpyridinium chloride degradation by UV and UV/H2O2 processes. Chemical Engineering Journal, 2019, 376, 120380.	12.7	9
14	Removal of antiretroviral drugs stavudine and zidovudine in water under UV254 and UV254/H2O2 processes: Quantum yields, kinetics and ecotoxicology assessment. Journal of Hazardous Materials, 2018, 349, 195-204.	12.4	33
15	Ternary HNO₃â€“H₂SO₄â€“H₂O Mixtures: A Simplified Approach for the Calculation of the Equilibrium Composition. Industrial & Engineering Chemistry Research, 2018, 57, 1696-1704.	3.7	3
16	Metal-based semiconductor nanomaterials for photocatalysis. , 2018, , 187-213.		3
17	Intensification of Nitrobenzaldehydes Synthesis from Benzyl Alcohol in a Microreactor. Organic Process Research and Development, 2017, 21, 357-364.	2.7	14
18	Sacrificial photocatalysis: removal of nitrate and hydrogen production by nano-copper-loaded P25 titania. A kinetic and ecotoxicological assessment. Environmental Science and Pollution Research, 2017, 24, 5898-5907.	5.3	12

#	Article	IF	Citations
19	Photodegradation and ecotoxicology of acyclovir in water under UV254 and UV254/H2O2 processes. Water Research, 2017, 122, 591-602.	11.3	50
20	Benzaldehyde nitration by mixed acid under homogeneous condition: A kinetic modeling. Chemical Engineering Journal, 2017, 307, 1076-1083.	12.7	12
21	Hydrogen Generation through Solar Photocatalytic Processes: A Review of the Configuration and the Properties of Effective Metal-Based Semiconductor Nanomaterials. Energies, 2017, 10, 1624.	3.1	56
22	Investigation on the removal of the major cocaine metabolite (benzoylecgonine) in water matrices by UV 254 /H 2 O 2 process by using a flow microcapillary film array photoreactor as an efficient experimental tool. Water Research, 2016, 89, 375-383.	11.3	25
23	Direct photolysis of benzoylecgonine under UV irradiation at 254nm in a continuous flow microcapillary array photoreactor. Chemical Engineering Journal, 2016, 283, 243-250.	12.7	29