Fidel A Mato

List of Publications by Year
in descending order

19 papers	364 citations	933447 10 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	377 citing authors

#	Article	IF	Citations
1	Hydrothermal CO2 Reduction by Glucose as Reducing Agent and Metals and Metal Oxides as Catalysts. Molecules, 2022, 27, 1652.	3.8	8
2	Analysis of the Energy Flow in a Municipal Wastewater Treatment Plant Based on a Supercritical Water Oxidation Reactor Coupled to a Gas Turbine. Processes, 2021, 9, 1237.	2.8	5
3	A techno-economic assessment of the potential for combining supercritical water oxidation with â€˜in-situâ€™ hydrothermal synthesis of nanocatalysts using a counter current mixing reactor. Chemical Engineering Journal, 2018, 344, 431-440.	12.7	19
4	Thermo-economic and environmental comparison of supercritical water and enzymatic hydrolysis of sugarcane bagasse in a biorefinery concept. Energy, 2017, 141, 139-148.	8.8	10
5	Prediction of residence time distributions in supercritical hydrothermal reactors working at low Reynolds numbers. Chemical Engineering Journal, 2016, 299, 373-385.	12.7	16
6	Understanding bottom-up continuous hydrothermal synthesis of nanoparticles using empirical measurement and computational simulation. Nano Research, 2016, 9, 3377-3387.	10.4	29
7	Energy recovery from effluents of supercritical water oxidation reactors. Journal of Supercritical Fluids, 2015, 104, 1-9.	3.2	20
8	Supercritical water oxidation for energy production by hydrothermal flame as internal heat source. Experimental results and energetic study. Energy, 2015, 90, 1584-1594.	8.8	38
9	Energetic approach of biomass hydrolysis in supercritical water. Bioresource Technology, 2015, 179, 136-143.	9.6	33
10	Supercritical water oxidation with hydrothermal flame as internal heat source: Efficient and clean energy production from waste. Journal of Supercritical Fluids, 2015, 96, 103-113.	3.2	65
11	Teaching advanced equations of state in applied thermodynamics courses using open source programs. Education for Chemical Engineers, 2011, 6, e114-e121.	4.8	28
12	Hint: An educational software for heat exchanger network design with the pinch method. Education for Chemical Engineers, 2008, 3, e6-e14.	4.8	43
13	Estimation of hydrocarbon critical properties from vapour pressure and liquid densities. Chemical Engineering Science, 1992, 47, 1925-1931.	3.8	4
14	Excess Gibbs energies and excess volumes of methyl tert-butyl ether (MTBE) + dichloromethane, + chloroform, or + tetrachloromethane. Journal of Chemical & Engineering Data, 1991, 36, 259-262.	1.9	18
15	Vapor-liquid equilibria and excess volumes for binary systems of methyl tert-butyl ether (MTBE) with trans-1,2-dichloroethylene and acetonitrile. Journal of Chemical & Engineering Data, 1991, 36, 262-264.	1.9	15
16	Behavior of the LEMF equation for vapor-liquid equilibrium data treatment of systems with negative deviations from ideality. Fluid Phase Equilibria, 1991, 68, 115-130.	2.5	1
17	Vapor pressures of hydrocarbons: modelling, extrapolation and prediction. Chemical Engineering Science, 1991, 46, 2445-2454.	3.8	2
18	A simple expression for the nonrandomness parameter .alpha.ij in the NRTL equation for completely miscible systems. Industrial & Engineering Chemistry Research, 1989, 28, 1441-1446.	3.7	8

#	Article	IF	Citations
19	Two-parameter model for correlating liquid phase activity coefficients of binary systems. Fluid Phase Equilibria, 1985, 20, 183-188.	2.5	2