

# Fidel A Mato

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Supercritical water oxidation with hydrothermal flame as internal heat source: Efficient and clean energy production from waste. <i>Journal of Supercritical Fluids</i> , 2015, 96, 103-113.	3.2	65
2	Hint: An educational software for heat exchanger network design with the pinch method. <i>Education for Chemical Engineers</i> , 2008, 3, e6-e14.	4.8	43
3	Supercritical water oxidation for energy production by hydrothermal flame as internal heat source. Experimental results and energetic study. <i>Energy</i> , 2015, 90, 1584-1594.	8.8	38
4	Energetic approach of biomass hydrolysis in supercritical water. <i>Bioresource Technology</i> , 2015, 179, 136-143.	9.6	33
5	Understanding bottom-up continuous hydrothermal synthesis of nanoparticles using empirical measurement and computational simulation. <i>Nano Research</i> , 2016, 9, 3377-3387.	10.4	29
6	Teaching advanced equations of state in applied thermodynamics courses using open source programs. <i>Education for Chemical Engineers</i> , 2011, 6, e114-e121.	4.8	28
7	Energy recovery from effluents of supercritical water oxidation reactors. <i>Journal of Supercritical Fluids</i> , 2015, 104, 1-9.	3.2	20
8	A techno-economic assessment of the potential for combining supercritical water oxidation with "in-situ" hydrothermal synthesis of nanocatalysts using a counter current mixing reactor. <i>Chemical Engineering Journal</i> , 2018, 344, 431-440.	12.7	19
9	Excess Gibbs energies and excess volumes of methyl tert-butyl ether (MTBE) + dichloromethane, + chloroform, or + tetrachloromethane. <i>Journal of Chemical &amp; Engineering Data</i> , 1991, 36, 259-262.	1.9	18
10	Prediction of residence time distributions in supercritical hydrothermal reactors working at low Reynolds numbers. <i>Chemical Engineering Journal</i> , 2016, 299, 373-385.	12.7	16
11	Vapor-liquid equilibria and excess volumes for binary systems of methyl tert-butyl ether (MTBE) with trans-1,2-dichloroethylene and acetonitrile. <i>Journal of Chemical &amp; Engineering Data</i> , 1991, 36, 262-264.	1.9	15
12	Thermo-economic and environmental comparison of supercritical water and enzymatic hydrolysis of sugarcane bagasse in a biorefinery concept. <i>Energy</i> , 2017, 141, 139-148.	8.8	10
13	A simple expression for the nonrandomness parameter $\alpha_{ij}$ in the NRTL equation for completely miscible systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 1989, 28, 1441-1446.	3.7	8
14	Hydrothermal CO <sub>2</sub> Reduction by Glucose as Reducing Agent and Metals and Metal Oxides as Catalysts. <i>Molecules</i> , 2022, 27, 1652.	3.8	8
15	Analysis of the Energy Flow in a Municipal Wastewater Treatment Plant Based on a Supercritical Water Oxidation Reactor Coupled to a Gas Turbine. <i>Processes</i> , 2021, 9, 1237.	2.8	5
16	Estimation of hydrocarbon critical properties from vapour pressure and liquid densities. <i>Chemical Engineering Science</i> , 1992, 47, 1925-1931.	3.8	4
17	Two-parameter model for correlating liquid phase activity coefficients of binary systems. <i>Fluid Phase Equilibria</i> , 1985, 20, 183-188.	2.5	2
18	Vapor pressures of hydrocarbons: modelling, extrapolation and prediction. <i>Chemical Engineering Science</i> , 1991, 46, 2445-2454.	3.8	2

#	ARTICLE	IF	CITATIONS
19	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