

Borja Hernández

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

234
citations

1307594

7
h-index

1199594

12
g-index

17
all docs

17
docs citations

17
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Process Operation for Biogas Reforming to Methanol: Effects of Dry Reforming and Biogas Composition. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6677-6685.	3.7	76
2	Optimization for biogas to chemicals via tri-reforming. Analysis of Fischer-Tropsch fuels from biogas. <i>Energy Conversion and Management</i> , 2018, 174, 998-1013.	9.2	48
3	Bio-waste selection and blending for the optimal production of power and fuels via anaerobic digestion. <i>Chemical Engineering Research and Design</i> , 2017, 121, 163-172.	5.6	30
4	Optimal Integrated Plant for Production of Biodiesel from Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6756-6767.	6.7	20
5	Computational Fluid Dynamics (CFD) Modeling of Swirling Flows in Industrial Counter-Current Spray-Drying Towers under Fouling Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11988-12002.	3.7	18
6	Optimal production of syngas via super-dry reforming. Analysis for natural gas and biogas under different CO ₂ taxes. <i>Chemical Engineering Research and Design</i> , 2019, 148, 375-392.	5.6	12
7	Accelerating manufacturing for biomass conversion <i>via</i> integrated process and bench digitalization: a perspective. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 813-832.	3.7	9
8	Production of H ₂ and Methanol via Dark Fermentation: A Process Optimization Study. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16720-16729.	3.7	5
9	Numerical study of airflow regimes and instabilities produced by the swirl generation chamber in counter-current spray dryers. <i>Chemical Engineering Research and Design</i> , 2021, 176, 89-101.	5.6	4
10	Single droplet drying of detergents: Experimentation and modelling. <i>Particuology</i> , 2021, 58, 35-47.	3.6	4
11	Generation of a surrogate compartment model for counter-current spray dryer. Fluxes and momentum modeling. <i>Computers and Chemical Engineering</i> , 2022, 159, 107664.	3.8	4
12	Solar Energy as Source for Power and Chemicals. , 2016, , 181-206.		1
13	The Use of Optimized Restitution Coefficients to Improve Residence Time Prediction in Computational Fluid Dynamics-Discrete Parcel Method Models for Counter-Current Spray Dryers. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 17091-17109.	3.7	1
14	Methodology for biomass blending for the production of power and fuels from biogas. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 667-672.	0.5	0
15	Optimization of Biogas to Syngas via Combined Super-Dry and Tri-Reforming. Analysis of Fischer-Tropsch Fuels Production. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 193-198.	0.5	0
16	Systematic Generation of a Robust Compartment Model for Counter-current Spray Dryers. <i>Computer Aided Chemical Engineering</i> , 2020, , 259-264.	0.5	0