Maximilian B Gorensek

List of Publications by Year
in descending order

35	642	623188	580395
papers	citations	14 h-index	25 g-index

37	37	37	491
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-performance SO2-depolarized electrolysis cell using advanced polymer electrolyte membranes. International Journal of Hydrogen Energy, 2022, 47, 57-68.	3.8	6
2	Thermochemical hydrogen processes. , 2022, , 63-82.		2
3	Electrode optimization for efficient hydrogen production using an SO2-depolarized electrolysis cell. International Journal of Hydrogen Energy, 2022, 47, 14180-14185.	3.8	4
4	Modeling Phase Equilibrium of Common Sugars Glucose, Fructose, and Sucrose in Mixed Solvents. Journal of Chemical & Engineering Data, 2021, 66, 4193-4205.	1.0	2
5	A rigorous process modeling methodology for biomass fast pyrolysis with an entrainedâ€flow reactor. Journal of Advanced Manufacturing and Processing, 2020, 2, .	1.4	10
6	Review of Sulfuric Acid Decomposition Processes for Sulfur-Based Thermochemical Hydrogen Production Cycles. Processes, 2020, 8, 1383.	1.3	19
7	Parametric study of operating conditions of an SO2-depolarized electrolyzer. International Journal of Hydrogen Energy, 2020, 45, 22408-22418.	3.8	13
8	A Novel Approach to Modeling Biomass Pyrolysis in a Fluidized Bed Reactor. ACS Sustainable Chemistry and Engineering, 2020, 8, 14605-14615.	3.2	7
9	Development of a Thermophysical Properties Model for Flowsheet Simulation of Biomass Pyrolysis Processes. ACS Sustainable Chemistry and Engineering, 2019, 7, 9017-9027.	3.2	33
10	Thermodynamic modeling of the hybrid sulfur (HyS) cycle for hydrogen production. Fluid Phase Equilibria, 2018, 460, 175-188.	1.4	14
11	Solar Thermochemical Hydrogen (STCH) Processes. Electrochemical Society Interface, 2018, 27, 53-56.	0.3	12
12	Modeling of a Bayonet Reactor for Sulfuric Acid Decomposition in Thermo-Electrochemical Sulfur Based Hydrogen Production Processes. ECS Transactions, 2017, 75, 7-15.	0.3	6
13	CO2-Dissolved and Aqueous Gas Separation. Energy Procedia, 2017, 114, 2675-2681.	1.8	5
14	Numerical modeling of a bayonet heat exchanger-based reactor for sulfuric acid decomposition in thermochemical hydrogen production processes. International Journal of Hydrogen Energy, 2017, 42, 20463-20472.	3.8	21
15	Development of the hybrid sulfur cycle for use with concentrated solar heat. I. Conceptual design. International Journal of Hydrogen Energy, 2017, 42, 20939-20954.	3.8	39
16	Thermodynamic representation of aqueous sodium nitrate and nitric acid solution with electrolyte NRTL model. Fluid Phase Equilibria, 2016, 407, 105-116.	1.4	13
17	Sulfur dioxide disproportionation for sulfur based thermochemical energy storage. Solar Energy, 2015, 118, 134-144.	2.9	25
18	Development and testing of a PEM SO2-depolarized electrolyzer and an operating method that prevents sulfur accumulation. International Journal of Hydrogen Energy, 2015, 40, 13281-13294.	3.8	29

#	Article	IF	Citations
19	Pi-CO2 Aqueous Post-combustion CO2 Capture: Proof of Concept Through Thermodynamic, Hydrodynamic, and Gas-Lift Pump Modeling. Energy Procedia, 2014, 63, 286-292.	1.8	8
20	Integration of facility modeling capabilities for nuclear nonproliferation analysis. Progress in Nuclear Energy, 2012, 54, 96-111.	1.3	5
21	A new process developed for separation of lignin from ammonium hydroxide pretreatment solutions. Environmental Progress and Sustainable Energy, 2012, 31, 130-138.	1.3	9
22	Hybrid sulfur cycle flowsheets for hydrogen production using high-temperature gas-cooled reactors. International Journal of Hydrogen Energy, 2011, 36, 12725-12741.	3.8	40
23	Quantifying Individual Potential Contributions of the Hybrid Sulfur Electrolyzer. Journal of the Electrochemical Society, 2010, 157, B952.	1.3	43
24	Recent Advances in the Development of the Hybrid Sulfur Process for Hydrogen Production. ACS Symposium Series, 2010, , 141-154.	0.5	1
25	The Science and Technologies for Fusion Energy With Lasers and Direct-Drive Targets. IEEE Transactions on Plasma Science, 2010, 38, 690-703.	0.6	51
26	Hybrid sulfur flowsheets using PEM electrolysis and a bayonet decomposition reactor. International Journal of Hydrogen Energy, 2009, 34, 4097-4114.	3.8	75
27	Relative economic incentives for hydrogen from nuclear, renewable, and fossil energy sources. International Journal of Hydrogen Energy, 2009, 34, 4237-4242.	3.8	27
28	Process model-free analysis for thermodynamic efficiencies of sulfurâ€“iodine processes for thermochemical water decomposition. International Journal of Hydrogen Energy, 2009, 34, 4033-4040.	3.8	6
29	A thermodynamic analysis of the SO2/H2SO4 system in SO2-depolarized electrolysis. International Journal of Hydrogen Energy, 2009, 34, 6089-6095.	3.8	73
30	Energy Efficiency Limits for a Recuperative Bayonet Sulfuric Acid Decomposition Reactor for Sulfur Cycle Thermochemical Hydrogen Production. Industrial & Engineering Chemistry Research, 2009, 48, 7232-7245.	1.8	21
31	An Efficient Hybrid Sulfur Process Using PEM Electrolysis With a Bayonet Decomposition Reactor. , 2008, , .		0
32	Development of a Sulfur Dioxide Depolarized Electrolyzer for Hydrogen Production Using the Hybrid Sulfur Thermochemical Process. , 2008, , .		1
33	Space Station Water Recovery Trade Studyâ€”Phase Change Technology. , 1988, , .		8
34	Separation of fine-particle dispersions using periodic flows in a spinning coiled tube part II: Batch fractionation experiments. AICHE Journal, 1987, 33, 506-509.	1.8	3
35	Separation of fine particle dispersions using periodic flows in a spining coiled tube. AICHE Journal, 1986, 32, 798-808.	1.8	11