

Channamallikarjun Sidramayya Mathpa

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

947
citations

516710

16
h-index

454955

30
g-index

43
all docs

43
docs citations

43
times ranked

849
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of experiments and analysis of dual fluidized bed gasifier for syngas production: Cold flow studies. International Journal of Hydrogen Energy, 2021, 46, 4776-4787.	7.1	13
2	Biomass gasification using dual fluidized bed gasification systems: A review. Journal of Cleaner Production, 2021, 280, 123148.	9.3	117
3	Study of blood flow in stenosed artery model using computational fluid dynamics and response surface methodology. Canadian Journal of Chemical Engineering, 2021, 99, .	1.7	4
4	Hydrodynamic studies in sectionalised external loop air lift reactors. Indian Chemical Engineer, 2021, 63, 34-49.	1.5	1
5	Computational Fluid Dynamic Study of Biomass Cook Stoveâ€”Part 2: Devolatilization and Heterogeneous Combustion. Industrial & Engineering Chemistry Research, 2020, 59, 14507-14521.	3.7	8
6	Numerical simulations and optimization of solar air heaters. Applied Thermal Engineering, 2020, 180, 115744.	6.0	25
7	Teaching turbulent flow through pipe fittings using computational fluid dynamics approach. Engineering Reports, 2020, 2, e12093.	1.7	7
8	Modeling and validation of heat transfer in packed bed with internal heat generation. Heat Transfer, 2020, 49, 2961-2976.	3.0	3
9	Computational fluid dynamics of dual fluidized bed gasifiers for syngas production: Cold flow studies. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 156-163.	5.3	8
10	Computational fluid dynamics of rectangular external loop airlift reactor. International Journal of Chemical Reactor Engineering, 2020, 18, .	1.1	1
11	Minimum Fluidization Velocity of Intermediate Sized Particles in Conventional and Packed Fluidized Bed. International Journal of Chemical Reactor Engineering, 2019, 17, .	1.1	8
12	Pretest in forced circulation molten salt heat transfer loop: Studies with thermiaâ€”B. Heat Transfer - Asian Research, 2019, 48, 4354-4372.	2.8	1
13	Scheduling of Energy-Integrated Batch Process Systems Using a Pattern-Based Framework. Processes, 2019, 7, 103.	2.8	3
14	Optimization, scale-up and cost estimation of dehydration of ethanol using temperature swing adsorption. Journal of Environmental Chemical Engineering, 2019, 7, 102938.	6.7	11
15	Robustness Analysis of Heat-Integrated Batch Process Networks. Industrial & Engineering Chemistry Research, 2019, 58, 217-227.	3.7	3
16	Energy efficient design of high depth raceway pond using computational fluid dynamics. Renewable Energy, 2019, 133, 528-537.	8.9	18
17	Immobilized lipase catalyzed synthesis of <i>n</i> -amyl acetate: parameter optimization, heterogeneous kinetics, continuous flow operation and reactor modeling. Journal of Chemical Technology and Biotechnology, 2018, 93, 2906-2916.	3.2	10
18	Design of mixed energyâ€”integrated batch process networks by Pseudoâ€”direct approach. AIChE Journal, 2018, 64, 55-67.	3.6	4

#	ARTICLE	IF	CITATIONS
19	CFD modeling to determine the minimum fluidization velocity of particles in gas-solid fluidized bed at different temperatures. Powder Technology, 2018, 327, 109-119.	4.2	19
20	Computational and experimental studies of high depth algal raceway pond photo-bioreactor. Renewable Energy, 2018, 118, 152-159.	8.9	18
21	Response surface optimization, kinetic study and process design of n-butyl levulinate synthesis. Chemical Engineering Research and Design, 2018, 137, 577-588.	5.6	28
22	Removal of Textile Dye C.I Reactive Blue 21 from Aqueous Solution by Using Clam Shell Biomass as Adsorbent: Kinetic Studies. Current Applied Polymer Science, 2018, 1, .	0.2	0
23	Experimental investigation of effective thermal conductivity of packed lithium-titanate pebble bed with external heat source and flow of helium. Fusion Engineering and Design, 2017, 115, 56-66.	1.9	21
24	High Temperature Corrosion Studies in Molten Salt Using Salt Purification and Alloy Coating. Indian Chemical Engineer, 2017, 59, 242-257.	1.5	12
25	Computational Fluid Dynamics Simulations of Single Drops in Confined Geometries. Industrial & Engineering Chemistry Research, 2017, 56, 8311-8329.	3.7	2
26	On nature of mass transfer near liquid-liquid interface in the presence of Marangoni instabilities. Chemical Engineering Science, 2017, 170, 176-183.	3.8	9
27	Effect of solute transfer and interfacial instabilities on scalar and velocity field around a drop rising in quiescent liquid channel. Physics of Fluids, 2015, 27, .	4.0	8
28	Investigation of heat transfer characteristics and energy balance analysis of FLiNaK in turbulent boundary layers of pipe flow. Applied Thermal Engineering, 2015, 75, 1022-1033.	6.0	8
29	High temperature corrosion studies in molten salt-FLiNaK. Corrosion Engineering Science and Technology, 2014, 49, 287-295.	1.4	31
30	Investigation of flow and heat characteristics and structure identification of FLiNaK in pipe using CFD simulations. Applied Thermal Engineering, 2014, 70, 451-461.	6.0	11
31	Computational Fluid Dynamics of Two-Opposed-Jet Microextractor. International Journal of Chemical Engineering, 2012, 2012, 1-11.	2.4	1
32	Reply to the "comments to CFD simulation of stirred tanks: Comparison of turbulence models. Part I: Radial flow impellers and part II: Axial flow impellers, multiple impellers and multiphase dispersions" Canadian Journal of Chemical Engineering, 2012, 90, 3-6.	1.7	0
33	CFD simulation of stirred tanks: Comparison of turbulence models. Part I: Radial flow impellers. Canadian Journal of Chemical Engineering, 2011, 89, 23-82.	1.7	159
34	CFD simulation of stirred tanks: Comparison of turbulence models (Part II: Axial flow impellers,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 754-816.	1.7	98
35	Investigation of flow structures and transport phenomena in bubble columns using particle image velocimetry and miniature pressure sensors. Chemical Engineering Science, 2011, 66, 3087-3107.	3.8	21
36	Reply to "Comments on "Dynamics of Flow Structures and Transport Phenomena" Part I: Experimental and Numerical Techniques for Identification and Energy Content of Flow Structures" Industrial & Engineering Chemistry Research, 2010, 49, 4471-4473.	3.7	3

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37	Computational and experimental fluid dynamics of jet loop reactor. <i>AIChE Journal</i> , 2009, 55, 2526-2544.	3.6	34
38	Analysis of flow pattern and heat transfer in direct contact condensation. <i>Chemical Engineering Science</i> , 2009, 64, 1719-1738.	3.8	65
39	Dynamics of Flow Structures and Transport Phenomena, 1. Experimental and Numerical Techniques for Identification and Energy Content of Flow Structures. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8244-8284.	3.7	55
40	Dynamics of Flow Structures and Transport Phenomena, 2. Relationship with Design Objectives and Design Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8285-8311.	3.7	31
41	Effect of Flow Structures on Heat Transfer in Single and Multiphase Jet Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 9428-9440.	3.7	18
42	Insight into Theories of Heat and Mass Transfer at the Solid-Fluid Interface Using Direct Numerical Simulation and Large Eddy Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 8525-8557.	3.7	46
43	Artificial intelligence-based correlation: Process side heat transfer coefficient for helical coils in stirred tank reactors. <i>Heat Transfer</i> , 0, , .	3.0	4