

Kannan Aravamudan

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

518
citations

686830

13
h-index

642321

23
g-index

27
all docs

27
docs citations

27
times ranked

484
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat transfer analysis of canned food sterilization in a still retort. <i>Journal of Food Engineering</i> , 2008, 88, 213-228.	2.7	70
2	CFD studies on natural convective heating of canned food in conical and cylindrical containers. <i>Journal of Food Engineering</i> , 2006, 77, 1024-1036.	2.7	69
3	Holdup and pressure drop studies in structured packings with catalysts. <i>Chemical Engineering Journal</i> , 2004, 104, 45-54.	6.6	44
4	Enhanced food sterilization through inclination of the container walls and geometry modifications. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 3753-3762.	2.5	41
5	Combined Homogeneous Surface Diffusion Model – Design of experiments approach to optimize dye adsorption considering both equilibrium and kinetic aspects. <i>Journal of Environmental Management</i> , 2017, 204, 424-435.	3.8	39
6	Photocatalytic degradation of phenol in a rotating annular reactor. <i>Chemical Engineering Science</i> , 2010, 65, 2727-2740.	1.9	37
7	Numerical studies on laminar natural convection inside inclined cylinders of unity aspect ratio. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 822-838.	2.5	31
8	Enhancement of solid dissolution process. <i>Chemical Engineering Journal</i> , 2004, 102, 45-49.	6.6	24
9	Simulation and analysis of extractive distillation process in a valve tray column using the rate based model. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 441-451.	1.2	19
10	Effect of dissolved oxygen concentration and light intensity on photocatalytic degradation of phenol. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1300-1308.	1.2	17
11	Effects of Mass Transfer on the Hydrodynamic Behavior of a Karr Reciprocating Plate Column. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 1596-1604.	1.8	15
12	Quantifying Enhancement in Heat Transfer Due to Natural Convection During Canned Food Thermal Sterilization in a Still Retort. <i>Food and Bioprocess Technology</i> , 2011, 4, 429-450.	2.6	15
13	Swift, versatile and a rigorous kinetic model based artificial neural network surrogate for single and multicomponent batch adsorption processes. <i>Journal of Molecular Liquids</i> , 2020, 297, 111888.	2.3	14
14	Simulation of non-Newtonian fluid-food particle heat transfer in the holding tube used in aseptic processing operations. <i>Food and Bioprocess Technology</i> , 2013, 91, 129-148.	1.8	13
15	Effect of ultrasound on the solubility limit of a sparingly soluble solid. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 427-434.	3.8	12
16	Effects of Particle Diameter and Position on Hydrodynamics around a Confined Sphere. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13137-13160.	1.8	12
17	Individual and simultaneous adsorption of Ni (II), Cd (II), and Zn (II) ions over polyamide resin: Equilibrium, kinetic and thermodynamic studies. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, S340.	1.3	12
18	Effect of unstable density gradients on back-mixing in a reciprocating plate column. <i>AIChE Journal</i> , 1996, 42, 2128-2140.	1.8	10

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19	Quantification of surface area and intrinsic mass transfer coefficient for ultrasound-assisted dissolution process of a sparingly soluble solid dispersed in aqueous solutions. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 509-521.	3.8	8
20	A novel, initial guess free optimization algorithm for estimating parameters of batch kinetics model used to simulate adsorption of pollutant molecules in aqueous streams. <i>Journal of Molecular Liquids</i> , 2019, 275, 510-522.	2.3	7
21	Formation of tailed drops in liquid-liquid extraction. <i>Chemical Engineering Science</i> , 2000, 55, 1029-1031.	1.9	2
22	Simulation of a cross flow wind aided evaporator. <i>Desalination</i> , 2014, 340, 18-29.	4.0	2
23	Unified, simple and decentralized treatment process for synthetic and real-time dye contaminated wastewaters. <i>Journal of Hazardous Materials</i> , 2022, 423, 127059.	6.5	2
24	Soft Computing Optimization Algorithms and Their Application in Parameter Estimation of a Rigorous Adsorption Kinetics Model. , 2021, , 145-169.		1
25	Maximizing Adsorption Involving Three Solutes on Enhanced Adsorbents Using the Mixture-Process Variable Design. <i>ACS Omega</i> , 2022, 7, 19561-19578.	1.6	1
26	Identifying steep pareto fronts in multicomponent adsorption using a novel elliptical method. <i>Environmental Science and Pollution Research</i> , 2022, 29, 80336-80352.	2.7	1
27	Simulation of a kinetic model integrated with variable catalyst holdup applied in industrial fluid catalytic cracking risers. <i>International Journal of Chemical Reactor Engineering</i> , 2021, .	0.6	0