Kannan Aravamudan

List of Publications by Year
in descending order

27	518	686830 13	642321 23
papers	citations	h-index	g-index

27	27	27	484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unified, simple and decentralized treatment process for synthetic and real-time dye contaminated wastewaters. Journal of Hazardous Materials, 2022, 423, 127059.	6.5	2
2	Maximizing Adsorption Involving Three Solutes on Enhanced Adsorbents Using the Mixture-Process Variable Design. ACS Omega, 2022, 7, 19561-19578.	1.6	1
3	Identifying steep pareto fronts in multicomponent adsorption using a novel elliptical method. Environmental Science and Pollution Research, 2022, 29, 80336-80352.	2.7	1
4	Simulation of a kinetic model integrated with variable catalyst holdup applied in industrial fluid catalytic cracking risers. International Journal of Chemical Reactor Engineering, 2021, .	0.6	0
5	Soft Computing Optimization Algorithms and Their Application in Parameter Estimation of a Rigorous Adsorption Kinetics Model. , 2021, , 145-169.		1
6	Swift, versatile and a rigorous kinetic model based artificial neural network surrogate for single and multicomponent batch adsorption processes. Journal of Molecular Liquids, 2020, 297, 111888.	2.3	14
7	A novel, initial guess free optimization algorithm for estimating parameters of batch kinetics model used to simulate adsorption of pollutant molecules in aqueous streams. Journal of Molecular Liquids, 2019, 275, 510-522.	2.3	7
8	Individual and simultaneous adsorption of Ni (II), Cd (II), and Zn (II) ions over polyamide resin: Equilibrium, kinetic and thermodynamic studies. Environmental Progress and Sustainable Energy, 2019, 38, S340.	1.3	12
9	Combined Homogeneous Surface Diffusion Model â€“ Design of experiments approach to optimize dye adsorption considering both equilibrium and kinetic aspects. Journal of Environmental Management, 2017, 204, 424-435.	3.8	39
10	Simulation of a cross flow wind aided evaporator. Desalination, 2014, 340, 18-29.	4.0	2
11	Simulation of non-Newtonian fluid-food particle heat transfer in the holding tube used in aseptic processing operations. Food and Bioproducts Processing, 2013, 91, 129-148.	1.8	13
12	Quantification of surface area and intrinsic mass transfer coefficient for ultrasound-assisted dissolution process of a sparingly soluble solid dispersed in aqueous solutions. Ultrasonics Sonochemistry, 2012, 19, 509-521.	3.8	8
13	Effects of Particle Diameter and Position on Hydrodynamics around a Confined Sphere. Industrial & Engineering Chemistry Research, 2011, 50, 13137-13160.	1.8	12
14	Quantifying Enhancement in Heat Transfer Due to Natural Convection During Canned Food Thermal Sterilization in a Still Retort. Food and Bioprocess Technology, 2011, 4, 429-450.	2.6	15
15	Effect of ultrasound on the solubility limit of a sparingly soluble solid. Ultrasonics Sonochemistry, 2010, 17, 427-434.	3.8	12
16	Photocatalytic degradation of phenol in a rotating annular reactor. Chemical Engineering Science, 2010, 65, 2727-2740.	1.9	37
17	Numerical studies on laminar natural convection inside inclined cylinders of unity aspect ratio. International Journal of Heat and Mass Transfer, 2009, 52, 822-838.	2.5	31
18	Effect of dissolved oxygen concentration and light intensity on photocatalytic degradation of phenol. Korean Journal of Chemical Engineering, 2008, 25, 1300-1308.	1.2	17

#	Article	IF	Citations
19	Heat transfer analysis of canned food sterilization in a still retort. Journal of Food Engineering, 2008, 88, 213-228.	2.7	70
20	CFD studies on natural convective heating of canned food in conical and cylindrical containers. Journal of Food Engineering, 2006, 77, 1024-1036.	2.7	69
21	Enhanced food sterilization through inclination of the container walls and geometry modifications. International Journal of Heat and Mass Transfer, 2005, 48, 3753-3762.	2.5	41
22	Simulation and analysis of extractive distillation process in a valve tray column using the rate based model. Korean Journal of Chemical Engineering, 2005, 22, 441-451.	1.2	19
23	Holdup and pressure drop studies in structured packings with catalysts. Chemical Engineering Journal, 2004, 104, 45-54.	6.6	44
24	Enhancement of solid dissolution process. Chemical Engineering Journal, 2004, 102, 45-49.	6.6	24
25	Formation of tailed drops in liquidâ€“liquid extraction. Chemical Engineering Science, 2000, 55, 1029-1031.	1.9	2
26	Effects of Mass Transfer on the Hydrodynamic Behavior of a Karr Reciprocating Plate Column. Industrial & Engineering Chemistry Research, 1999, 38, 1596-1604.	1.8	15
27	Effect of unstable density gradients on back-mixing in a reciprocating plate column. AICHE Journal, 1996, 42, 2128-2140.	1.8	10