Akkihebbal Krishnamurthy Suresh

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Palladium catalyzed liquid phase oxidation of glycerol under alkaline conditions - Kinetic analysis and modelling. Chemical Engineering Journal, 2022, 438, 135424.	12.7	11
2	A review on steel slag valorisation <i>via</i> mineral carbonation. Reaction Chemistry and Engineering, 2021, 6, 1152-1178.	3.7	28
3	Pilot-scale testing of direct contact cooler for the removal of SOx and NOx from the flue gas of pressurized oxy-coal combustion. Chemical Engineering Journal, 2021, 414, 128757.	12.7	7
4	Dilution-Induced Physico-Chemical Changes of Metal Oxide Nanoparticles Due to Homeopathic Preparation Steps of Trituration and Succussion. Homeopathy, 2020, 109, 065-078.	1.0	3
5	Electrochemical reduction of CO2 on activated copper: Influence of surface area. Materials Research Bulletin, 2020, 123, 110702.	5.2	15
6	Understanding dissolution characteristics of steel slag for resource recovery. Waste Management, 2020, 117, 179-187.	7.4	23
7	Intrinsic kinetics of interfacial polycondensation reactions– the reaction of mPDA with TMC. Polymer, 2020, 210, 122982.	3.8	3
8	Hydrophobic interpenetrating polyamide-PDMS membranes for desalination, pesticides removal and enhanced chlorine tolerance. Chemosphere, 2020, 258, 127179.	8.2	19
9	Data on of interfacial hydrolysis kinetics of an aromatic acid chloride. Data in Brief, 2019, 26, 104337.	1.0	3
10	Towards efficient calcium extraction from steel slag and carbon dioxide utilisation <i>via</i> pressure-swing mineral carbonation. Reaction Chemistry and Engineering, 2019, 4, 52-66.	3.7	25
11	High oxygen evolution reaction activity on lithiated nickel oxides - Activity descriptors. Electrochimica Acta, 2019, 318, 809-819.	5.2	2
12	Kinetics of steel slag dissolution: from experiments to modelling. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180830.	2.1	11
13	Mass-Transfer Rate Enhancement in Nanofluids: Packed Column Studies and a Design Basis. Industrial & Engineering Chemistry Research, 2019, 58, 7670-7680.	3.7	12
14	Kinetics of interfacial hydrolysis of an aromatic acid chloride. Chemical Engineering Research and Design, 2019, 146, 154-161.	5.6	8
15	Modelling solid-solid reactions: Contact-point approach. Chemical Engineering Journal, 2019, 377, 120570.	12.7	4
16	Correlation of Chemical and Electrochemical Catalysis-Importance of Half Reactions: The Case of Catalytic Oxidation of Ferrous Sulfate by Molecular Oxygen. Journal of the Electrochemical Society, 2018, 165, H196-H204.	2.9	1
17	Study of cobalt molybdenum oxide supported on mesoporous silica for liquid phase cyclohexane oxidation. Catalysis Today, 2018, 310, 116-129.	4.4	25
18	Some mechanistic insights into the action of facilitating agents on gas permeation through glassy polymeric membranes. AICHE Journal, 2018, 64, 186-199.	3.6	7

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19	Impact of Strontium-Substitution on Oxygen Evolution Reaction of Lanthanum Nickelates in Alkaline Solution. Journal of the Electrochemical Society, 2018, 165, J3236-J3245.	2.9	34
20	Safety and bioactivity studies of Jasad Bhasma and its in-process intermediate in Swiss mice. Journal of Ethnopharmacology, 2017, 197, 73-86.	4.1	9
21	Electrochemical Reduction of CO2on Copper Oxidized by Electrochemical Methods. ECS Transactions, 2017, 75, 19-31.	0.5	5
22	Validation of Mixed Potential Theory Using Formic Acid and Ferric Ion as a Redox Couple. ECS Transactions, 2017, 75, 39-47.	0.5	5
23	Kinetics of interfacial polycondensation reactions – Development of a new method and its validation. Polymer, 2017, 127, 28-44.	3.8	22
24	Metal nanoparticle induced hormetic activation: a novel mechanism of homeopathic medicines. Homeopathy, 2017, 106, 135-144.	1.0	32
25	Probing the thickness and roughness of the functional layer in thin film composite membranes. International Journal of Hydrogen Energy, 2017, 42, 26464-26474.	7.1	12
26	A review of machines and devices to potentize homeopathic medicines. Homeopathy, 2017, 106, 240-249.	1.0	4
27	Chlorine attack on reverse osmosis membranes: Mechanisms and mitigation strategies. Journal of Membrane Science, 2017, 541, 108-126.	8.2	144
28	Cobalt molybdenum oxide catalysts for selective oxidation of cyclohexane. AICHE Journal, 2016, 62, 4384-4402.	3.6	31
29	Palladium catalysed oxidation of glycerol—Effect of catalyst support. Journal of Molecular Catalysis A, 2016, 421, 45-56.	4.8	33
30	Establishing the interfacial nano-structure and elemental composition of homeopathic medicines based on inorganic salts: a scientific approach. Homeopathy, 2016, 105, 160-172.	1.0	28
31	A statistical study of the effect of preparation conditions on the structure and performance of thin film composite reverse osmosis membranes. Desalination and Water Treatment, 2016, 57, 2924-2941.	1.0	3
32	A critique of thermokinetic analysis in solids processing: Cement industry as a case study. Thermochimica Acta, 2015, 618, 56-66.	2.7	2
33	(R)-PAC Biosynthesis in [BMIM][PF6]/Aqueous Biphasic System Using Saccharomyces cerevisiae BY4741 Cells. Applied Biochemistry and Biotechnology, 2015, 175, 1771-1788.	2.9	12
34	Generalized Estimating Equation Approach for Analyzing the Effects of Metal-Derived Products on Survival and Hatching of Zebrafish Embryos. Zebrafish, 2014, 11, 353-364.	1.1	1
35	Crystal Transformation in Zeolitic-Imidazolate Framework. Crystal Growth and Design, 2014, 14, 6589-6598.	3.0	157
36	Synthesis and Characterization of Chitosan-Grafted BPPO Ultrafiltration Composite Membranes with Enhanced Antifouling and Antibacterial Properties. Industrial & Engineering Chemistry Research, 2014, 53, 14974-14981.	3.7	27

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37	Development of high flux thin-film composite membrane for water desalination: a statistical study using response surface methodology. Desalination and Water Treatment, 2014, 52, 5219-5228.	1.0	8
38	Kinetics of Solid–Solid Reactions: Influence of the Number of Contact Points. Industrial & Engineering Chemistry Research, 2014, 53, 11659-11667.	3.7	9
39	Traditional Method of Bhasma Preparation Generates Stressed, Polycrystalline, Nano and Submicron Sized Particles as Revealed by Physicochemical Studies of <i>Suwarnamakshik Bhasma</i> . Advanced Science Letters, 2014, 20, 1211-1218.	0.2	1
40	Understanding Pt–Rh Synergy in a Three-Way Catalytic Converter. International Journal of Chemical Reactor Engineering, 2013, 11, 535-542.	1.1	4
41	Why Extreme Dilutions Reach Non-zero Asymptotes: A Nanoparticulate Hypothesis Based on Froth Flotation. Langmuir, 2012, 28, 15864-15875.	3.5	102
42	Reactions in solid particles—A reappraisal of models. AICHE Journal, 2012, 58, 3161-3166.	3.6	3
43	Evaluation of quaternary phosphonium-based polymer membranes for desalination application. Desalination, 2012, 292, 119-123.	8.2	15
44	Synthesis of silicalite-poly(furfuryl alcohol) composite membranes for oxygen enrichment from air. Nanoscale Research Letters, 2011, 6, 637.	5.7	7
45	A contactâ€point based approach for the analysis of reactions among solid particles. AICHE Journal, 2011, 57, 1329-1338.	3.6	8
46	Understanding interfacial polycondensation: Experiments on polyurea system and comparison with theory. Polymer, 2010, 51, 1176-1190.	3.8	24
47	Extreme homeopathic dilutions retain starting materials: A nanoparticulate perspective. Homeopathy, 2010, 99, 231-242.	1.0	187
48	Anomalous Enhancement of Interphase Transport Rates by Nanoparticles: Effect of Magnetic Iron Oxide on Gasâ^'Liquid Mass Transfer. Industrial & Engineering Chemistry Research, 2010, 49, 390-405.	3.7	75
49	Solidâ€solid reactions in series: A modeling and experimental study. AICHE Journal, 2009, 55, 2399-2413.	3.6	12
50	Physicochemical characterization of an Indian traditional medicine, Jasada Bhasma: detection of nanoparticles containing non-stoichiometric zinc oxide. Journal of Nanoparticle Research, 2009, 11, 655-664.	1.9	52
51	An experimental study of polyurea membrane formation by interfacial polycondensation. Journal of Membrane Science, 2009, 328, 246-256.	8.2	51
52	A comprehensive model for kinetics and development of film structure in interfacial polycondensation. Polymer, 2009, 50, 5851-5864.	3.8	15
53	Indian Traditional Medicine Jasada Bhasma and Other Zinc-Containing Nanoparticles Alleviate Reactive Oxygen Species-Mediated Cell Damage in Saccharomyces cerevisiae. International Journal of Green Nanotechnology Biomedicine, 2009, 1, 69-89.	0.4	5
54	Interfacial polycondensation—Modeling of kinetics and film properties. Journal of Membrane Science, 2008, 325, 758-771.	8.2	65

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55	CO ₂ absorption into amine solutions: a novel strategy for intensification based on the addition of ferrofluids. Journal of Chemical Technology and Biotechnology, 2008, 83, 1094-1100.	3.2	60
56	A study of the effect of JB particles on <i>Saccharomyces cerevisiae</i> (yeast) cells by Raman spectroscopy, 2008, 39, 1859-1868.	2.5	13
57	Cell (A549)–Particle (<i>Jasada Bhasma</i>) interactions using Raman spectroscopy. Biopolymers, 2008, 89, 555-564.	2.4	27
58	Modeling Liquid-Phase Cyclohexane Oxidation. Industrial & Engineering Chemistry Research, 2007, 46, 6891-6898.	3.7	11
59	Solid–solid reaction kinetics: Formation of tricalcium aluminate. AICHE Journal, 2007, 53, 502-513.	3.6	41
60	Intermediate conversion kinetics in ticalcium aluminate formation. AICHE Journal, 2007, 53, 2399-2410.	3.6	15
61	Effect of preculturing conditions on growth of Lactobacillus rhamnosus on medium containing glucose and citrate. Microbiological Research, 2004, 159, 35-42.	5.3	28
62	Industrial Experience with Object-Oriented Modelling. Chemical Engineering Research and Design, 2004, 82, 527-552.	5.6	7
63	Intracellular reactive oxygen species mediate suppression of sporulation inBacillus subtilis under shear stress. Biotechnology and Bioengineering, 2004, 87, 81-89.	3.3	17
64	Diacetyl production and growth of Lactobacillus rhamnosus on multiple substrates. World Journal of Microbiology and Biotechnology, 2003, 19, 509-514.	3.6	43
65	An optimal model for representing the kinetics of growth and product formation by Lactobacillus rhamnosus on multiple substrates. Journal of Bioscience and Bioengineering, 2003, 96, 481-486.	2.2	17
66	Free radical aspects of Xanthomonas campestris cultivation with liquid phase oxygen supply strategy. Process Biochemistry, 2003, 38, 1301-1310.	3.7	14
67	Macro-Level and Genetic-Level Responses of Bacillus subtilis to Shear Stress. Biotechnology Progress, 2003, 19, 1689-1696.	2.6	32
68	Reactive Dissolution of Particle Clusters. Industrial & Engineering Chemistry Research, 2001, 40, 4050-4057.	3.7	1
69	Engineering Aspects of Industrial Liquid-Phase Air Oxidation of Hydrocarbons. Industrial & Engineering Chemistry Research, 2000, 39, 3958-3997.	3.7	335
70	Simultaneous saccharification and fermentation of starch to lactic acid. Process Biochemistry, 1999, 35, 367-375.	3.7	107
71	New insights into kinetics and thermodynamics of interfacial polymerization. Chemical Engineering Science, 1998, 53, 2649-2663.	3.8	73
72	Oxygen supply without gas–liquid film resistance toXanthomonas campestris cultivation. , 1998, 59, 714-723.		21

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73	Isobutane oxidation in the liquid and supercritical phases: comparison of features. Journal of Supercritical Fluids, 1998, 12, 165-176.	3.2	7
74	Release rates from semi-crystalline polymer microcapsules formed by interfacial polycondensation. Journal of Membrane Science, 1997, 125, 213-218.	8.2	57
75	Diffusion controlled instantaneous chemical reaction in a thin tube containing fine reactant particles. Chemical Engineering Science, 1997, 52, 3311-3319.	3.8	4
76	Molecular weight distribution in interfacial polymerization—model development and verification. Chemical Engineering Science, 1997, 52, 3243-3255.	3.8	38
77	Microencapsulation in polyurea shell: Kinetics and film structure. AICHE Journal, 1996, 42, 2616-2626.	3.6	44
78	Rate oscillations in cyclohexane oxidation. AICHE Journal, 1991, 37, 1242-1244.	3.6	5
79	Catalyzed oxidation of cyclohexane in the liquid phase. AICHE Journal, 1990, 36, 137-140.	3.6	17
80	Microencapsulation in polyurea shell by interfacial polycondensation. AICHE Journal, 1990, 36, 431-438.	3.6	65
81	Mass transfer and solubility in autocatalytic oxidation of cyclohexane. AICHE Journal, 1988, 34, 55-68.	3.6	51
82	Autocatalytic oxidation of cyclohexane—modeling reaction kinetics. AICHE Journal, 1988, 34, 69-80.	3.6	48
83	Autocatalytic oxidation of cyclohexane—mass transfer and chemical reaction. AICHE Journal, 1988, 34, 81-93.	3.6	24
84	Mass transfer during reaction - cyclohexane oxidation. Chemical Engineering Science, 1986, 41, 741-746.	3.8	7
85	Temperature-dependent physical properties in physical gas absorption. Chemical Engineering Science, 1983, 38, 127-133.	3.8	13
86	A new kinetic model for bulk polymerization of vinyl chloride based on two-phase hypothesis. European Polymer Journal, 1982, 18, 607-616.	5.4	8