Ramesh Kumar

List of Publications by Year
in descending order

44	1,656	279487 23	288905 40
papers	citations	h-index	g-index

46	46	46	1497
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lignocellulolytic microbiomes for augmenting lignocellulose degradation in anaerobic digestion. Trends in Microbiology, 2022, 30, 6-9.	3.5	25
2	Downstream process: toward cost/energy effectiveness. , 2022, , 249-260.		5
3	Technoeconomic analysis of biofuel production with special reference to a downstream process. , 2022, , 31-44.		1
4	Emerging approaches in lignocellulosic biomass pretreatment and anaerobic bioprocesses for sustainable biofuels production. Journal of Cleaner Production, 2022, 333, 130180.	4.6	67
5	Integrated hydrothermal and deep eutectic solvent-mediated fractionation of lignocellulosic biocomponents for enhanced accessibility and efficient conversion in anaerobic digestion. Bioresource Technology, 2022, 351, 127034.	4.8	34
6	Feasibility assessment of bioethanol production from humic acid-assisted alkaline pretreated Kentucky bluegrass (Poa pratensis L.) followed by downstream enrichment using direct contact membrane distillation. Bioresource Technology, 2022, 360, 127521.	4.8	13
7	Downstream recovery of Li and value-added metals (Ni, Co, and Mn) from leach liquor of spent lithium-ion batteries using a membrane-integrated hybrid system. Chemical Engineering Journal, 2022, 447, 137507.	6.6	27
8	Syntrophic bacteria- and Methanosarcina-rich acclimatized microbiota with better carbohydrate metabolism enhances biomethanation of fractionated lignocellulosic biocomponents. Bioresource Technology, 2022, 360, 127602.	4.8	22
9	Lipase immobilized graphene oxide biocatalyst assisted enzymatic transesterification of Pongamia pinnata (Karanja) oil and downstream enrichment of biodiesel by solar-driven direct contact membrane distillation followed by ultrafiltration. Fuel Processing Technology, 2021, 211, 106577.	3.7	40
10	Advanced operation and control in graphical user interface of a membrane-integrated hybrid biochemical process for acetic acid production. Indian Chemical Engineer, 2021, 63, 84-98.	0.9	1
11	Experimental investigations of hazardous leather industry dye (Acid Yellow 2GL) removal from simulated wastewater using a promising integrated approach. Chemical Engineering Research and Design, 2021, 155, 444-454.	2.7	17
12	Sustainable Production of Biofuels through Membrane-Integrated Systems. Separation and Purification Reviews, 2020, 49, 207-228.	2.8	31
13	Synergy of biofuel production with waste remediation along with value-added co-products recovery through microalgae cultivation: A review of membrane-integrated green approach. Science of the Total Environment, 2020, 698, 134169.	3.9	126
14	Catalytic conversion of CO2 to biofuel (methanol) and downstream separation in membrane-integrated photoreactor system under suitable conditions. International Journal of Hydrogen Energy, 2020, 45, 675-690.	3.8	16
15	Sustainable production and purification of succinic acid: A review of membrane-integrated green approach. Journal of Cleaner Production, 2020, 277, 123954.	4.6	48
16	Separation of COD, sulphate and chloride from pharmaceutical wastewater using membrane integrated system: Transport modeling towards scale-up. Journal of Environmental Chemical Engineering, 2020, 8, 104275.	3.3	13
17	Photocatalytic conversion of CO2 to methanol using membrane-integrated Green approach: A review on capture, conversion and purification. Journal of Environmental Chemical Engineering, 2020, 8, 103935.	3.3	43
18	Sustainable Management of Toxic Industrial Effluent of Coal-Based Power Plants. Microorganisms for Sustainability, 2020, , 193-219.	0.4	0

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19	Purification and concentration of gluconic acid from an integrated fermentation and membrane process using response surface optimized conditions. Frontiers of Chemical Science and Engineering, 2019, 13, 152-163.	2.3	20
20	Fermentative ethanol production from Madhuca indica flowers using immobilized yeast cells coupled with solar driven direct contact membrane distillation with commercial hydrophobic membranes. Energy Conversion and Management, 2019, 181, 593-607.	4.4	39
21	Fermentative production of gluconic acid: A membrane-integrated Green process. Journal of the Taiwan Institute of Chemical Engineers, 2018, 84, 76-84.	2.7	23
22	Analysis of process intensification and performance assessment for fermentative continuous production of bioethanol in a multi-staged membrane-integrated bioreactor system. Energy Conversion and Management, 2018, 171, 371-383.	4.4	38
23	Fermentative energy conversion: Renewable carbon source to biofuels (ethanol) using Saccharomyces cerevisiae and downstream purification through solar driven membrane distillation and nanofiltration. Energy Conversion and Management, 2017, 150, 545-557.	4.4	35
24	Fermentative production of gluconic acid in membrane-integrated hybrid reactor system: Analysis of process intensification. Chemical Engineering and Processing: Process Intensification, 2017, 122, 258-268.	1.8	18
25	Modeling and simulation of continuous production of L (+) glutamic acid in a membrane-integrated bioreactor. Biochemical Engineering Journal, 2016, 106, 68-86.	1.8	22
26	Manufacture of gluconic acid: A review towards process intensification for green production. Chemical Engineering and Processing: Process Intensification, 2016, 104, 160-171.	1.8	90
27	Assessing the feasibility of N and P recovery by struvite precipitation from nutrient-rich wastewater: a review. Environmental Science and Pollution Research, 2015, 22, 17453-17464.	2.7	127
28	A novel forward osmosis-nano filtration integrated system for coke-oven wastewater reclamation. Chemical Engineering Research and Design, 2015, 100, 542-553.	2.7	42
29	Membrane-integrated physico-chemical treatment of coke-oven wastewater: transport modelling and economic evaluation. Environmental Science and Pollution Research, 2015, 22, 6010-6023.	2.7	25
30	Fermentative production of glutamic acid from renewable carbon source: Process intensification through membrane-integrated hybrid bio-reactor system. Chemical Engineering and Processing: Process Intensification, 2015, 92, 7-17.	1.8	15
31	Fermentative production of poly (Î³-glutamic acid) from renewable carbon source and downstream purification through a continuous membrane-integrated hybrid process. Bioresource Technology, 2015, 177, 141-148.	4.8	30
32	Cyanide Removal from Industrial Wastewater by Crossâ€Flow Nanofiltration: Transport Modeling and Economic Evaluation. Water Environment Research, 2014, 86, 698-706.	1.3	14
33	Treatment of Coke Wastewater: A Critical Review for Developing Sustainable Management Strategies. Separation and Purification Reviews, 2014, 43, 89-123.	2.8	124
34	A Visual Basic simulation software tool for performance analysis of a membrane-based advanced water treatment plant. Environmental Science and Pollution Research, 2014, 21, 1833-1849.	2.7	8
35	Production and purification of glutamic acid: A critical review towards process intensification. Chemical Engineering and Processing: Process Intensification, 2014, 81, 59-71.	1.8	55
36	Production of L (+) Glutamic Acid in a Fully Membrane-Integrated Hybrid Reactor System: Direct and Continuous Production under Non-Neutralizing Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 19019-19027.	1.8	13

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37	Membrane-integrated hybrid system for the effective treatment of ammoniacal wastewater of coke-making plant: a volume reduction approach. Environmental Technology (United Kingdom), 2014, 35, 2018-2027.	1.2	21
38	The effects of thermally stable titanium silicon oxide nanoparticles on structure and performance of cellulose acetate ultrafiltration membranes. Separation and Purification Technology, 2014, 133, 55-68.	3.9	100
39	Turning hazardous waste into value-added products: production and characterization of struvite from ammoniacal waste with new approaches. Journal of Cleaner Production, 2013, 43, 59-70.	4.6	80
40	A membrane-integrated advanced scheme for treatment of industrial wastewater: Dynamic modeling towards scale up. Chemosphere, 2013, 92, 1375-1382.	4.2	21
41	Removal of Phenol from Cokeâ€Oven Wastewater by Crossâ€Flow Nanofiltration Membranes. Water Environment Research, 2013, 85, 447-455.	1.3	36
42	Membrane-integrated hybrid bioremediation of industrial wastewater: a continuous treatment and recycling approach. Journal of Water Reuse and Desalination, 2013, 3, 26-38.	1.2	21
43	Response surface-optimized Fentonâ€™s pre-treatment for chemical precipitation of struvite and recycling of water through downstream nanofiltration. Chemical Engineering Journal, 2012, 210, 33-44.	6.6	57
44	Separating Cyanide from Coke Wastewater by Cross Flow Nanofiltration. Separation Science and Technology, 2011, 46, 2119-2127.	1.3	48