

R Vinoth Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,520
citations

361296

20
h-index

345118

36
g-index

47
all docs

47
docs citations

47
times ranked

1666
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane bioreactor and integrated membrane bioreactor systems for micropollutant removal from wastewater: A review. <i>Journal of Water Process Engineering</i> , 2018, 26, 314-328.	2.6	202
2	Elaboration of novel tubular ceramic membrane from inexpensive raw materials by extrusion method and its performance in microfiltration of synthetic oily wastewater treatment. <i>Journal of Membrane Science</i> , 2015, 490, 92-102.	4.1	166
3	A novel integrated biodegradation–microfiltration system for sustainable wastewater treatment and energy recovery. <i>Journal of Hazardous Materials</i> , 2019, 365, 707-715.	6.5	114
4	Biodiesel production potential of oleaginous <i>Rhodococcus opacus</i> grown on biomass gasification wastewater. <i>Renewable Energy</i> , 2017, 105, 400-406.	4.3	104
5	Dairy wastewater treatment using a novel low cost tubular ceramic membrane and membrane fouling mechanism using pore blocking models. <i>Journal of Water Process Engineering</i> , 2016, 13, 168-175.	2.6	95
6	Integrated adsorption-membrane filtration process for antibiotic removal from aqueous solution. <i>Powder Technology</i> , 2017, 321, 259-269.	2.1	92
7	Optimization of ultrasound assisted extraction of pectin from custard apple peel: Potential and new source. <i>Carbohydrate Polymers</i> , 2019, 225, 115240.	5.1	77
8	Microwave mediated production of FAME from waste cooking oil: Modelling and optimization of process parameters by RSM and ANN approach. <i>Fuel</i> , 2019, 237, 40-49.	3.4	64
9	Simultaneous polycyclic aromatic hydrocarbon degradation and lipid accumulation by <i>Rhodococcus opacus</i> for potential biodiesel production. <i>Journal of Water Process Engineering</i> , 2017, 17, 1-10.	2.6	60
10	Performance assessment of an analcime-C zeolite–ceramic composite membrane by removal of Cr(VI) from aqueous solution. <i>RSC Advances</i> , 2015, 5, 6246-6254.	1.7	50
11	Insights on applications of low-cost ceramic membranes in wastewater treatment: A mini-review. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 4, 100149.	2.9	49
12	Process optimization and characterization of pectin derived from underexploited pineapple peel biowaste as a value-added product. <i>Food Hydrocolloids</i> , 2022, 123, 107141.	5.6	46
13	Synthesis and characterization of MCM-41-ceramic composite membrane for the separation of chromic acid from aqueous solution. <i>Journal of Membrane Science</i> , 2015, 475, 521-532.	4.1	37
14	Cross flow ultrafiltration of Cr (VI) using MCM-41, MCM-48 and Faujasite (FAU) zeolite-ceramic composite membranes. <i>Chemosphere</i> , 2016, 153, 436-446.	4.2	33
15	Fabrication of zirconia composite membrane by in-situ hydrothermal technique and its application in separation of methyl orange. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 73-79.	2.9	32
16	Anthracene Biodegradation by Oleaginous <i>Rhodococcus opacus</i> for Biodiesel Production and Its Characterization. <i>Polycyclic Aromatic Compounds</i> , 2019, 39, 207-219.	1.4	32
17	An intensified approach for transesterification of biodiesel from <i>Annona squamosa</i> seed oil using ultrasound-assisted homogeneous catalysis reaction and its process optimization. <i>Fuel</i> , 2021, 291, 120195.	3.4	32
18	Cross-flow filtration for the recovery of lipids from microalgae aqueous extracts: Membrane selection and performances. <i>Process Biochemistry</i> , 2020, 89, 199-207.	1.8	26

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19	Insights about sustainable biodiesel production from microalgae biomass: A review. International Journal of Energy Research, 2021, 45, 17028-17056.	2.2	26
20	Advanced oxidation technologies combined with direct contact membrane distillation for treatment of secondary municipal wastewater. Chemical Engineering Research and Design, 2020, 140, 111-123.	2.7	25
21	A simple solvent blending coupled sonication technique for synthesis of polystyrene (PS)/multi-walled carbon nanotube (MWCNT) nanocomposites: Effect of modified MWCNT content. Journal of Science: Advanced Materials and Devices, 2016, 1, 311-323.	1.5	20
22	Processing and characterization of polystyrene nanocomposites based on CoAl layered double hydroxide. Journal of Science: Advanced Materials and Devices, 2016, 1, 351-361.	1.5	20
23	Treatment of oil-in-water emulsion using tubular ceramic membrane acquired from locally available low-cost inorganic precursors. Desalination and Water Treatment, 2016, 57, 28056-28070.	1.0	16
24	Removal of chromium from synthetic wastewater using MFI zeolite membrane supported on inexpensive tubular ceramic substrate. Journal of Water Reuse and Desalination, 2017, 7, 365-377.	1.2	15
25	Modelling and optimization of critical parameters by hybrid RSM-GA for the separation of BSA using a tubular configured MFI-type zeolite microfiltration membrane. RSC Advances, 2015, 5, 87645-87659.	1.7	14
26	Removal of trivalent metal ions from aqueous solution via cross-flow ultrafiltration system using zeolite membranes. Journal of Water Reuse and Desalination, 2017, 7, 66-76.	1.2	10
27	Sonication-assisted synthesis of polystyrene (PS)/organoclay nanocomposites: influence of clay content. Applied Nanoscience (Switzerland), 2017, 7, 215-223.	1.6	10
28	Indigenous bentonite based tubular ceramic microfiltration membrane: Elaboration, characterization, and evaluation of environmental impacts using life cycle techniques. Ceramics International, 2022, 48, 28843-28855.	2.3	8
29	Fabrication and characterization of ceramic membranes derived from inexpensive raw material fuller's earth clay. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 284, 115877.	1.7	8
30	A Simple Sonication Assisted Solvent Blending Route for Fabrication of Exfoliated Polystyrene (PS)/Clay Nanocomposites: Role of Various Clay Modifiers. Materials Today: Proceedings, 2018, 5, 13191-13210.	0.9	6
31	Effect of Concentration and Temperature on Rheological Behaviour of Polystyrene Solution. Macromolecular Symposia, 2016, 362, 87-100.	0.4	5
32	Malic and Succinic Acid. , 2016, , 159-179.		5
33	Removal of FeCl ₃ from aqueous solution by ultrafiltration using ordered mesoporous MCM-48 ceramic composite membrane. Separation Science and Technology, 2016, 51, 2038-2046.	1.3	5
34	Rheological Behavior of Polystyrene (PS)/Co-Al Layered Double Hydroxide (LDH) Blend Solution obtained Through Solvent Blending Route: Influence of LDH Loading and Temperature. Materials Today: Proceedings, 2018, 5, 1359-1371.	0.9	4
35	Petroleum Versus Biorefinery-Based Platform Chemicals. , 2016, , 33-53.		3
36	Development and Characterization of a MCM-48 Ceramic Composite Membrane for the Removal of Cr(VI) from an Aqueous Solution. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	3

#	ARTICLE	IF	CITATIONS
37	Separation of BSA through FAU-type zeolite ceramic composite membrane formed on tubular ceramic support: Optimization of process parameters by hybrid response surface methodology and biobjective genetic algorithm. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 687-698.	1.0	3
38	Analytical Methods in Biodiesel Production. <i>Energy, Environment, and Sustainability</i> , 2020, , 197-219.	0.6	3
39	Biorefinery and Possible Deforestation. , 2016, , 307-322.		0
40	Removal of methyl orange from synthetic wastewater using analcime-C, MCM-41 and Al^{3+} composite membranes. <i>International Journal of Environmental Technology and Management</i> , 2018, 21, 111.	0.1	0
41	Membrane Technology in Bioprocess Engineering. <i>Handbook of Environmental Chemistry</i> , 2020, , 1-26.	0.2	0
42	BioMicrobialdiesel Production using Microbes in General. , 2021, , 651-666.		0
43	Iron(III) removal from aqueous solution using MCM-41 ceramic composite membrane. <i>Membrane Water Treatment</i> , 2016, 7, 495-505.	0.5	0
44	Removal of methyl orange from synthetic wastewater using analcime-C, MCM-41 and Al^{3+} composite membranes. <i>International Journal of Environmental Technology and Management</i> , 2018, 21, 111.	0.1	0
45	Potential of Oleaginous Microorganisms in Green Diesel Production. , 2018, , 251-270.		0