

G Pugazhenti

List of Publications by Year in descending order

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112
papers

3,759
citations

136740

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149479

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114
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114
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114
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3640
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#	ARTICLE	IF	CITATIONS
1	Chitosan production by <i>Penicillium citrinum</i> using paper mill wastewater and rice straw hydrolysate as low-cost substrates in a continuous stirred tank reactor. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 2254-2269.	1.2	2
2	Bio-oil production from oleaginous microorganisms using hydrothermal liquefaction: A biorefinery approach. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 356-394.	6.6	21
3	Separation of Bacteria <i>Kocuria rhizophila</i> from Fermentation Broth by Cross-Flow Microfiltration Using Inexpensive Tubular Ceramic Membrane. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 5767-5776.	1.7	6
4	Fabrication and properties of polyhydroxybutyrate/kaolin nanocomposites and evaluation of their biocompatibility for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51803.	1.3	5
5	Bioelectricity production and shortcut nitrogen removal by microalgal-bacterial consortia using membrane photosynthetic microbial fuel cell. <i>Journal of Environmental Management</i> , 2022, 301, 113871.	3.8	11
6	Process intensification through waste fly ash conversion and application as ceramic membranes: A review. <i>Science of the Total Environment</i> , 2022, 808, 151968.	3.9	24
7	Synthesis of zirconia-ceramic composite membrane employing a low-cost precursor and evaluation its performance for separation of microbially produced silver nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107569.	3.3	3
8	Experimental study on fabrication, biocompatibility and mechanical characterization of polyhydroxybutyrate-ball clay bionanocomposites for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1995-2008.	3.6	5
9	Synthesis of ceramic membrane using inexpensive precursors and evaluation of its biocompatibility for hemofiltration application. <i>Separation and Purification Technology</i> , 2021, 256, 117814.	3.9	14
10	Improvisation of polylactic acid (PLA)/exfoliated graphene (GR) nanocomposite for detection of metal ions (Cu ²⁺). <i>Composites Science and Technology</i> , 2021, 213, 108877.	3.8	5
11	Separation of bacteria <i>Kocuria rhizophila</i> BR-1 from its broth during synthesis of gold nanoparticles using ceramic membrane by shear-enhanced filtration process. <i>Chemosphere</i> , 2021, 281, 130761.	4.2	1
12	Effect of binder concentration on properties of low-cost fly ash-based tubular ceramic membrane and its application in separation of glycerol from biodiesel. <i>Journal of Cleaner Production</i> , 2021, 319, 128679.	4.6	20
13	Techno-economic assessment of a sustainable and cost-effective bioprocess for large scale production of polyhydroxybutyrate. <i>Chemosphere</i> , 2021, 284, 131371.	4.2	15
14	A novel rotating wide gap annular bioreactor (Taylor-Couette type flow) for polyhydroxybutyrate production by <i>Ralstonia eutropha</i> using carob pod extract. <i>Journal of Environmental Management</i> , 2021, 299, 113591.	3.8	2
15	Recovery of lignin from water and methanol using low-cost kaolin based tubular ceramic membrane. <i>Journal of Water Process Engineering</i> , 2020, 38, 101615.	2.6	14
16	Sustained drug release and bactericidal activity of a novel, highly biocompatible and biodegradable polymer nanocomposite loaded with norfloxacin for potential use in antibacterial therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 59, 101900.	1.4	14
17	Credibility of polymeric and ceramic membrane filtration in the removal of bacteria and virus from water: A review. <i>Journal of Environmental Management</i> , 2020, 268, 110583.	3.8	98
18	Recovery of microalgae from its broth solution using kaolin based tubular ceramic membranes prepared with different binders. <i>Separation and Purification Technology</i> , 2020, 250, 117212.	3.9	22

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19	Treatment of poultry slaughterhouse wastewater using tubular microfiltration membrane with fly ash as key precursor. <i>Journal of Water Process Engineering</i> , 2020, 37, 101361.	2.6	37
20	Preparation and characterization of environmentally safe and highly biodegradable microbial polyhydroxybutyrate (PHB) based graphene nanocomposites for potential food packaging applications. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 866-877.	3.6	85
21	Applicability of Fe-CNC/GR/PLA composite as potential sensor for biomolecules. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5984-5999.	1.1	7
22	Biological treatment of biomass gasification wastewater using hydrocarbonoclastic bacterium <i>Rhodococcus opacus</i> in an up-flow packed bed bioreactor with a novel waste-derived nano-biochar based bio-support material. <i>Journal of Cleaner Production</i> , 2020, 256, 120253.	4.6	87
23	A closed-loop biorefinery approach for polyhydroxybutyrate (PHB) production using sugars from carob pods as the sole raw material and downstream processing using the co-product lignin. <i>Bioresource Technology</i> , 2020, 307, 123247.	4.8	22
24	Exfoliated graphene-dispersed poly (lactic acid)-based nanocomposite sensors for ethanol detection. <i>Polymer Bulletin</i> , 2019, 76, 2367-2386.	1.7	19
25	Novel shortcut biological nitrogen removal method using an algae-bacterial consortium in a photo-sequencing batch reactor: Process optimization and kinetic modelling. <i>Journal of Environmental Management</i> , 2019, 250, 109401.	3.8	31
26	Properties of Polystyrene (PS)/Co-Al LDH Nanocomposites Prepared by Melt Intercalation. <i>Materials Today: Proceedings</i> , 2019, 9, 333-350.	0.9	2
27	A novel ceramic membrane assembly for the separation of polyhydroxybutyrate (PHB) rich <i>Ralstonia eutropha</i> biomass from culture broth. <i>Chemical Engineering Research and Design</i> , 2019, 126, 106-118.	2.7	13
28	Continuous bioreactor with cell recycle using tubular ceramic membrane for simultaneous wastewater treatment and bio-oil production by oleaginous <i>Rhodococcus opacus</i> . <i>Chemical Engineering Journal</i> , 2019, 367, 76-85.	6.6	26
29	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
30	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
31	Synergistic effect of dual nanofillers (MWCNT and Ni-Al LDH) on the electrical and thermal characteristics of polystyrene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46513.	1.3	7
32	Investigating the properties of poly (lactic acid)/exfoliated graphene based nanocomposites fabricated by versatile coating approach. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 1080-1091.	3.6	33
33	Morphological, mechanical, and thermal features of PMMA nanocomposites containing two-dimensional Co-Al layered double hydroxide. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45774.	1.3	10
34	Removal of methyl orange from synthetic wastewater using analcime-C, MCM-41 and γ -Al ₂ O ₃ composite membranes. <i>International Journal of Environmental Technology and Management</i> , 2018, 21, 111.	0.1	0
35	A Simple Sonication Assisted Solvent Blending Route for Fabrication of Exfoliated Polystyrene (PS)/Clay Nanocomposites: Role of Various Clay Modifiers. <i>Materials Today: Proceedings</i> , 2018, 5, 13191-13210.	0.9	6
36	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

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37	Facile dispersion of exfoliated graphene/PLA nanocomposites via <i>in situ</i> polycondensation with a melt extrusion process and its rheological studies. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46476.	1.3	26
38	Biological treatment of wastewater containing a mixture of polycyclic aromatic hydrocarbons using the oleaginous bacterium <i>Rhodococcus opacus</i> . <i>Journal of Cleaner Production</i> , 2018, 196, 1282-1291.	4.6	89
39	Preparation and characterization of hydrothermally engineered TiO ₂ -fly ash composite membrane. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 266-279.	2.3	11
40	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
41	Removal of trivalent metal ions from aqueous solution via cross-flow ultrafiltration system using zeolite membranes. <i>Journal of Water Reuse and Desalination</i> , 2017, 7, 66-76.	1.2	10
42	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
43	Experimental Insights into the Thermal Dehydrogenation of Ethylene Diamine Bisborane Using Allyl-Based Ionic Liquids. <i>Energy & Fuels</i> , 2017, 31, 5428-5440.	2.5	21
44	Sonication-assisted synthesis of polystyrene (PS)/organoclay nanocomposites: influence of clay content. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 215-223.	1.6	10
45	Simultaneous heavy metal removal and anthracene biodegradation by the oleaginous bacteria <i>Rhodococcus opacus</i> . <i>3 Biotech</i> , 2017, 7, 37.	1.1	74
46	Enhanced mechanical and thermal properties of polystyrene nanocomposites prepared using organo-functionalized Ni Al layered double hydroxide via melt intercalation technique. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 245-254.	1.5	13
47	Removal of chromium from synthetic wastewater using MFI zeolite membrane supported on inexpensive tubular ceramic substrate. <i>Journal of Water Reuse and Desalination</i> , 2017, 7, 365-377.	1.2	15
48	Cross flow microfiltration of oil-water emulsions using clay based ceramic membrane support and TiO ₂ composite membrane. <i>Egyptian Journal of Petroleum</i> , 2017, 26, 679-694.	1.2	40
49	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
50	Preparation, characterization, and performance evaluation of LTA zeolite ceramic composite membrane by separation of BSA from aqueous solution. <i>Separation Science and Technology</i> , 2017, 52, 767-777.	1.3	8
51	Integrated adsorption-membrane filtration process for antibiotic removal from aqueous solution. <i>Powder Technology</i> , 2017, 321, 259-269.	2.1	92
52	Theoretical and Experimental Pathways for the Dehydrogenation of Ethylene Diamine Bisborane by an Ammonium Based Ionic Liquid. <i>Journal of Solution Chemistry</i> , 2017, 46, 1230-1250.	0.6	11
53	Cu(II) removal by <i>Nostoc muscorum</i> and its effect on biomass growth and nitrate uptake: A photobioreactor study. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 111-117.	1.9	11
54	Thermogravimetric Analysis for Characterization of Nanomaterials. , 2017, , 67-108.		45

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55	An Overview of Polymer-Clay Nanocomposites. , 2017, , 29-81.		50
56	Effect of Concentration and Temperature on Rheological Behaviour of Polystyrene Solution. Macromolecular Symposia, 2016, 362, 87-100.	0.4	5
57	Investigation of structural, rheological and thermal properties of PMMA/ONi-Al LDH nanocomposites synthesized via solvent blending method: Effect of LDH loading. Chinese Journal of Polymer Science (English Edition), 2016, 34, 739-754.	2.0	19
58	Cross flow ultrafiltration of Cr (VI) using MCM-41, MCM-48 and Faujasite (FAU) zeolite-ceramic composite membranes. Chemosphere, 2016, 153, 436-446.	4.2	33
59	Melt rheological behavior of PMMA nanocomposites reinforced with modified nanoclay. Nanocomposites, 2016, 2, 109-116.	2.2	15
60	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
61	Influence of Nanoclay on the Rheological Properties of PMMA/Organoclay Nanocomposites Prepared by Solvent Blending Technique. Macromolecular Symposia, 2016, 365, 104-111.	0.4	2
62	Fly ash based ceramic microfiltration membranes for oil-water emulsion treatment: Parametric optimization using response surface methodology. Journal of Water Process Engineering, 2016, 13, 27-43.	2.6	73
63	Dairy wastewater treatment using a novel low cost tubular ceramic membrane and membrane fouling mechanism using pore blocking models. Journal of Water Process Engineering, 2016, 13, 168-175.	2.6	95
64	Fabrication and performance evaluation of Faujasite zeolite composite ultrafiltration membrane by separation of trivalent ions from aqueous solution. Environmental Progress and Sustainable Energy, 2016, 35, 1047-1054.	1.3	5
65	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
66	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
67	Non-isothermal crystallization kinetics of sucrose palmitate reinforced poly(lactic acid) bionanocomposites. Polymer Bulletin, 2016, 73, 21-38.	1.7	13
68	Waste Litchi Peels for Cr(VI) Removal from Synthetic Wastewater in Batch and Continuous Systems: Sorbent Characterization, Regeneration and Reuse Study. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	37
69	Preparation and characterization of TiO ₂ and γ -Al ₂ O ₃ composite membranes for the separation of oil-in-water emulsions. RSC Advances, 2016, 6, 4877-4888.	1.7	24
70	Performance assessment of MCM-48 ceramic composite membrane by separation of AlCl ₃ from aqueous solution. Ecotoxicology and Environmental Safety, 2016, 134, 398-402.	2.9	1
71	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
72	Development of ceramic membranes from low-cost clays for the separation of oil-water emulsion. Desalination and Water Treatment, 2016, 57, 1927-1939.	1.0	46

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73	Performance assessment of an analcime-C zeolite ceramic composite membrane by removal of Cr(VI) from aqueous solution. RSC Advances, 2015, 5, 6246-6254.	1.7	50
74	Effect of graphene content on the properties of poly(lactic acid) nanocomposites. RSC Advances, 2015, 5, 28410-28423.	1.7	106
75	Elaboration of novel tubular ceramic membrane from inexpensive raw materials by extrusion method and its performance in microfiltration of synthetic oily wastewater treatment. Journal of Membrane Science, 2015, 490, 92-102.	4.1	166
76	Synthesis and characterization of exfoliated PMMA/Co-Al LDH nanocomposites via solvent blending technique. RSC Advances, 2015, 5, 39810-39820.	1.7	17
77	Fabrication of zirconia composite membrane by in-situ hydrothermal technique and its application in separation of methyl orange. Ecotoxicology and Environmental Safety, 2015, 121, 73-79.	2.9	32
78	Influence of graphene on thermal degradation and crystallization kinetics behaviour of poly(lactic acid) nanocomposites. Journal of Applied Polymer Science, 2015, 119, 100-108.	1.2	28
79	Quantum chemical and experimental insights for the ionic liquid facilitated thermal dehydrogenation of ethylene diamine bisborane. RSC Advances, 2015, 5, 85280-85290.	1.7	24
80	Properties of PMMA/clay nanocomposites prepared using various compatibilizers. International Journal of Mechanical and Materials Engineering, 2015, 10, .	1.1	33
81	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
82	Synthesis and characterization of MCM-41-ceramic composite membrane for the separation of chromic acid from aqueous solution. Journal of Membrane Science, 2015, 475, 521-532.	4.1	37
83	Fabrication and characterization of sucrose palmitate reinforced poly(lactic acid) bionanocomposite films. Journal of Applied Polymer Science, 2015, 132, .	1.3	30
84	Fabrication of poly(methyl methacrylate) (PMMA) nanocomposites with modified nanoclay by melt intercalation. Composite Interfaces, 2014, 21, 819-832.	1.3	12
85	Influence of organically modified NiAl layered double hydroxide (LDH) loading on the rheological properties of poly (methyl methacrylate) (PMMA)/LDH blend solution. Powder Technology, 2014, 256, 196-203.	2.1	44
86	Effect of nanoclay content on the structural, thermal properties and thermal degradation kinetics of PMMA/organoclay nanocomposites. International Journal of Nano and Biomaterials, 2014, 5, 27.	0.1	12
87	Fabrication of circular shaped ceramic membrane using mixed clays by uniaxial compaction method for the treatment of oily wastewater. International Journal of Nano and Biomaterials, 2014, 5, 75.	0.1	1
88	Cross-flow microfiltration of oil-in-water emulsions using low cost ceramic membranes. Desalination, 2013, 320, 86-95.	4.0	108
89	Performance of Low Cost Ceramic Microfiltration Membranes for the Treatment of Oil-in-water Emulsions. Separation Science and Technology, 2013, 48, 849-858.	1.3	23
90	Structural and thermal properties of polystyrene/CoAl-layered double hydroxide nanocomposites prepared via solvent blending: effect of LDH loading. Journal of Experimental Nanoscience, 2013, 8, 19-31.	1.3	20

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91	Effect of Organomodified Ni-Al Layered Double Hydroxide (OLDH) on the Properties of Polypropylene (PP)/LDH Nanocomposites. International Journal of Polymeric Materials and Polymeric Biomaterials, 2012, 61, 931-948.	1.8	34
92	Biomass assisted microfiltration of chromium(VI) using Baker's yeast by ceramic membrane prepared from low cost raw materials. Desalination, 2012, 285, 239-244.	4.0	27
93	Development of sulfonated poly(ether ether ketone)/zirconium titanium phosphate composite membranes for direct methanol fuel cell. Journal of Applied Polymer Science, 2012, 124, E45.	1.3	19
94	Characterization of Polystyrene (PS)/Organomodified Layered Double Hydroxide (OLDH) Nanocomposites Prepared by <i>In Situ</i> Polymerization. Advanced Materials Research, 2011, 410, 164-167.	0.3	3
95	Influence of Sintering Temperature on the Properties of Porous Ceramic Support Prepared by Uniaxial Dry Compaction Method Using Low-Cost Raw Materials for Membrane Applications. Separation Science and Technology, 2011, 46, 1241-1249.	1.3	51
96	Effect of TiO ₂ addition on the fabrication of ceramic membrane supports: A study on the separation of oil droplets and bovine serum albumin (BSA) from its solution. Desalination, 2011, 279, 104-114.	4.0	85
97	Utilization of ball clay adsorbents for the removal of crystal violet dye from aqueous solution. Clean Technologies and Environmental Policy, 2011, 13, 141-151.	2.1	33
98	Properties and thermal degradation kinetics of polystyrene/organoclay nanocomposites synthesized by solvent blending method: Effect of processing conditions and organoclay loading. Journal of Applied Polymer Science, 2011, 120, 1322-1336.	1.3	40
99	Properties of polystyrene/organically modified layered double hydroxide nanocomposites synthesized by solvent blending method. Journal of Applied Polymer Science, 2011, 120, 2485-2495.	1.3	33
100	Fabrication and properties of low cost ceramic microfiltration membranes for separation of oil and bacteria from its solution. Journal of Membrane Science, 2011, 379, 154-163.	4.1	178
101	Separation of bovine serum albumin (BSA) using γ -Al ₂ O ₃ -clay composite ultrafiltration membrane. Journal of Chemical Technology and Biotechnology, 2010, 85, 545-554.	1.6	12
102	Comparative Study of Ultrasound Stimulation and Conventional Heating Methods on the Preparation of Nanosized γ -Al ₂ O ₃ . Industrial & Engineering Chemistry Research, 2010, 49, 4710-4719.	1.8	12
103	Influence of Processing Conditions on the Properties of Polystyrene (PS)/organomontmorillonite (OMMT) Nanocomposites Prepared via Solvent Blending Method. International Journal of Polymeric Materials and Polymeric Biomaterials, 2010, 60, 144-162.	1.8	21
104	Adsorption of crystal violet dye from aqueous solution using mesoporous materials synthesized at room temperature. Adsorption, 2009, 15, 390-405.	1.4	137
105	Fabrication and characterization of γ -Al ₂ O ₃ -clay composite ultrafiltration membrane for the separation of electrolytes from its aqueous solution. Journal of Membrane Science, 2009, 340, 181-191.	4.1	41
106	Removal of Crystal Violet Dye from Aqueous Solution Using Calcined and Uncalcined Mixed Clay Adsorbents. Separation Science and Technology, 2009, 45, 94-104.	1.3	25
107	Modeling and Simulation of Stirred Dead End Ultrafiltration Process Using the Aspen Engineering Suite. Industrial & Engineering Chemistry Research, 2009, 48, 4428-4439.	1.8	3
108	Chromium (VI) separation from aqueous solution using anion exchange membrane. AIChE Journal, 2005, 51, 2001-2010.	1.8	8

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109	Separation of chromium (VI) using modified ultrafiltration charged carbon membrane and its mathematical modeling. <i>Journal of Membrane Science</i> , 2005, 254, 229-239.	4.1	76
110	Preparation of NO _x modified PMMA-EGDM composite membrane for the recovery of chromium (VI). <i>European Polymer Journal</i> , 2003, 39, 2383-2391.	2.6	37
111	Influence of Organomodified Ni-Al Layered Double Hydroxide (LDH) Content on the Thermal Properties and Degradation Kinetics of Polystyrene (PS)/Ni-Al LDH Nanocomposites Prepared via Solvent Blending Method. <i>Advanced Materials Research</i> , 0, 747, 23-26.	0.3	4
112	Synthesis of ceramic tubular membrane from low-cost clay precursors for blood purification application as substitution to commercial dialysis membrane. <i>Journal of Chemical Technology and Biotechnology</i> , 0, , .	1.6	2