

Sirshendu De

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107 papers	2,133 citations	26 h-index	41 g-index
107 ext. papers	2,438 ext. citations	5.4 avg, IF	5.65 L-index

#	Paper	IF	Citations
107	Highly efficient reduction of p-Nitrophenol by sodium borohydride over binary ZIF-67/g-C ₃ N ₄ heterojunction catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106677	6.8	4
106	Multicomponent transport model-based scaling up of long-term fixed bed adsorption of reactive dyes from textile effluent using aminated PAN beads. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 43483-43506	5.1	1
105	Long-time instability and transient behavior of pressure-driven flow of a power-law fluid in a plane channel overlying a porous layer. <i>Physics of Fluids</i> , 2021 , 33, 054109	4.4	2
104	Effect of the transition layer on the stability of a fluid-porous configuration: Impact on power-law rheology. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	1
103	Adsorptive removal of heavy metals from battery industry effluent using MOF incorporated polymeric beads: A combined experimental and modeling approach. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123624	12.8	25
102	Mass transport in electrokinetic microflows with the wall reaction affecting the hydrodynamics. <i>Theoretical and Computational Fluid Dynamics</i> , 2021 , 35, 39-60	2.3	2
101	. <i>Food and Bioprocess Technology</i> , 2021 , 14, 272-286	5.1	3
100	Effect of mixed solvents on phase inversion of polymeric membranes. <i>Polymer International</i> , 2020 , 69, 920-932	3.3	1
99	Effect of Couette component on the stability of Poiseuille flow of a Bingham fluid in a porous system: Modal and non-modal approaches. <i>Physics of Fluids</i> , 2020 , 32, 064103	4.4	7
98	In situ photodecyanation of steel industry wastewater in a pilot scale. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 33226-33233	5.1	4
97	Solubility parameter estimation and phase inversion modeling of bentonite-doped polymeric membrane systems. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48450	2.9	3
96	Integral Method of Analysis for Combined Concentration Polarization and Pore Flow Model for Prediction of the Performance of a Nanofiltration Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4108-4118	3.9	4
95	Mass transfer of a neutral solute in polyelectrolyte grafted soft nanochannel with porous wall. <i>Electrophoresis</i> , 2020 , 41, 578-587	3.6	1
94	Effects of finite ion size on transport of neutral solute across porous wall of a nanotube. <i>Theoretical and Computational Fluid Dynamics</i> , 2020 , 34, 659-677	2.3	1
93	Permeate flux hysteresis with transmembrane pressure in the gel controlling membrane filtration. <i>Journal of Food Engineering</i> , 2020 , 264, 109689	6	1
92	Effect of electrolyte nature in mass transport of a neutral solute in a microtube with porous wall. <i>AIChE Journal</i> , 2020 , 66, e16765	3.6	1
91	Removal of cyanide from steel plant effluent using coke breeze, a waste product of steel industry. <i>Journal of Water Process Engineering</i> , 2019 , 28, 135-143	6.7	17

90	Effects of operating conditions during hollow fiber ultrafiltration of bitter gourd (<i>Momordica charantia</i>) extract and analysis of nutritional qualities in subsequent storage study. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13118	2.4	
89	Purification of Polyphenols from Green Tea Leaves and Performance Prediction Using the Blend Hollow Fiber Ultrafiltration Membrane. <i>Food and Bioprocess Technology</i> , 2019 , 12, 933-953	5.1	5
88	Synthesis of NiAl- layered double hydroxide with nitrate intercalation: Application in cyanide removal from steel industry effluent. <i>Journal of Hazardous Materials</i> , 2019 , 373, 791-800	12.8	31
87	Comparative study of hydrophilic modification of polyacrylonitrile membranes by nitrogen and carbon dioxide RF plasma. <i>Polymer Engineering and Science</i> , 2019 , 59, 2148-2158	2.3	1
86	Stability of Poiseuille flow of a Bingham fluid overlying an anisotropic and inhomogeneous porous layer. <i>Journal of Fluid Mechanics</i> , 2019 , 874, 573-605	3.7	11
85	Nanofiltration range desalination by high flux graphene oxide impregnated ultrafiltration hollow fiber mixed matrix membrane. <i>Journal of Cleaner Production</i> , 2019 , 213, 393-405	10.3	6
84	Electrohydrodynamic transport of non-symmetric electrolyte through porous wall of a microtube. <i>Electrophoresis</i> , 2019 , 40, 720-729	3.6	2
83	Fast purification of graphene oxide solution by continuous counter current hollow fibre dialysis: A step towards large scale production. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1596-1604	2.3	1
82	Defluoridation using novel chemically treated carbonized bone meal: batch and dynamic performance with scale-up studies. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 18161-18178	5.1	18
81	Criteria for a unique steady state for enzymatic depectinization of bael (<i>Aegle marmelos</i>) juice in a continuous stirred tank reactor. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 333-343	4.9	
80	Fundamental Understanding of Fouling Mechanisms During Microfiltration of Bitter Gourd (<i>Momordica charantia</i>) Extract and Their Dependence on Operating Conditions. <i>Food and Bioprocess Technology</i> , 2018 , 11, 1012-1026	5.1	10
79	Treatment of polyacrylonitrile co-polymer membrane by low temperature radio-frequency nitrogen plasma. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 775-784	3.2	1
78	Polyaniline doped ultrafiltration membranes: Mechanism of membrane formation and pH response characteristics. <i>Polymer</i> , 2018 , 153, 201-213	3.9	18
77	Antibacterial polymeric membranes: a short review. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1078-1104	4.2	41
76	Hydrophilic surface modification of polyacrylonitrile based membrane: effect of low temperature radio frequency carbon dioxide plasma. <i>Polymer Bulletin</i> , 2018 , 75, 3567-3586	2.4	4
75	Role of thermodynamic and kinetic interaction of poly(vinylidene fluoride) with various solvents for tuning phase inversion membranes. <i>Polymer Engineering and Science</i> , 2018 , 58, 1062-1073	2.3	10
74	Effect of process parameters on aqueous extraction of thymol and other phytonutrients from herbal seed Ajwain (<i>Trachyspermum ammi</i> L.). <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2018 , 11, 27-36	2.6	2
73	Robust self cleaning polypyrrole-polysulfone blend hollow fiber membrane for biofouling mitigation. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 3185-3198	3.5	7

72	A socio-economic study along with impact assessment for laterite based technology demonstration for arsenic mitigation. <i>Science of the Total Environment</i> , 2017 , 583, 142-152	10.2	17
71	Investigation of antifouling and disinfection potential of chitosan coated iron oxide-PAN hollow fiber membrane using Gram-positive and Gram-negative bacteria. <i>Materials Science and Engineering C</i> , 2017 , 75, 133-148	8.3	27
70	Effects of overlapping electric double layer on mass transport of a macro-solute across porous wall of a micro/nanochannel for power law fluid. <i>Electrophoresis</i> , 2017 , 38, 1301-1309	3.6	5
69	Adsorptive removal of potentially toxic metals (cadmium, copper, nickel and zinc) by chemically treated laterite: Single and multicomponent batch and column study. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3273-3289	6.8	26
68	Effect of different operating conditions in cloud point assisted extraction of thymol from Ajwain (L.) seeds and recovery using solvent. <i>Journal of Food Science and Technology</i> , 2017 , 54, 4353-4361	3.3	6
67	Smart responsive materials for water purification: an overview. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22095-22112	13	72
66	Modeling of solution thermodynamics: A method for tuning the properties of blend polymeric membranes. <i>Journal of Membrane Science</i> , 2017 , 540, 485-495	9.6	12
65	Aromatic conjugated polymers for removal of heavy metal ions from wastewater: a short review. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 793-805	4.2	33
64	State-of-the-Art Materials and Spinning Technology for Hemodialyzer Membranes. <i>Separation and Purification Reviews</i> , 2017 , 46, 216-240	7.3	7
63	Understanding and tuning of polymer surfaces for dialysis applications. <i>Polymers for Advanced Technologies</i> , 2017 , 28, 174-187	3.2	4
62	Pressure driven transport of neutral macro-solute in microchannel with porous wall at high surface potential. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 574-583	4.9	5
61	Removal of reactive dyes using a high throughput-hybrid separation process. <i>Desalination and Water Treatment</i> , 2016 , 57, 10295-10311		12
60	Clarification and storage study of bottle gourd (<i>Lagenaria siceraria</i>) juice by hollow fiber ultrafiltration. <i>Food and Bioprocesses Processing</i> , 2016 , 100, 1-15	4.9	17
59	Preparation, characterization and application of powdered activated carbon-cellulose acetate phthalate mixed matrix membrane for treatment of steel plant effluent. <i>Polymers for Advanced Technologies</i> , 2016 , 27, 444-459	3.2	11
58	Application of nanofiltration membrane for treatment of chloride rich steel plant effluent. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 1-9	6.8	26
57	Aluminium fumarate metal-organic framework: A super adsorbent for fluoride from water. <i>Journal of Hazardous Materials</i> , 2016 , 303, 10-20	12.8	129
56	Comparison between Centrifugation and Microfiltration As Primary Clarification of Bottle Gourd (<i>Lagenaria siceraria</i>) Juice. <i>Journal of Food Processing and Preservation</i> , 2016 , 40, 226-238	2.1	11
55	Improved antifouling characteristics of acrylonitrile co-polymer membrane by low temperature pulsed ammonia plasma in the treatment of oil/water emulsion. <i>Vacuum</i> , 2016 , 131, 293-304	3.7	12

54	Performance evaluation of two stage nanofiltration for treatment of textile effluent containing reactive dyes. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 1678-1690	6.8	12
53	Potential of extraction of Steviol glycosides using cellulose acetate phthalate (CAP) □ polyacrylonitrile (PAN) blend hollow fiber membranes. <i>Journal of Food Science and Technology</i> , 2015 , 52, 7081-7091	3.3	7
52	Preparation, characterization and humic acid removal capacity of chitosan coated iron-oxide-polyacrylonitrile mixed matrix membrane. <i>Journal of Water Process Engineering</i> , 2015 , 6, 93-104	6.7	34
51	Preparation, characterization, and performance of a novel hollow fiber nanofiltration membrane. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1155-1167	3.2	10
50	Modelling of cross-flow microfiltration of dye-loaded activated carbon in a ceramic tubular membrane module. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 2005-2014	2.3	2
49	Ultrafiltration of oily waste water: Contribution of surface roughness in membrane properties and fouling characteristics of polyacrylonitrile membranes. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 2031-2042	2.3	22
48	Theoretical investigation of cross flow ultrafiltration by mixed matrix membrane: A case study on fluoride removal. <i>Desalination</i> , 2015 , 365, 347-354	10.3	11
47	Adsorption-concentration polarization model for ultrafiltration in mixed matrix membrane. <i>AIChE Journal</i> , 2014 , 60, 2354-2364	3.6	7
46	Optimisation of low temperature extraction of banana juice using commercial pectinase. <i>Food Chemistry</i> , 2014 , 151, 182-90	8.5	48
45	Effects of polymer molecular weight, concentration, and role of polyethylene glycol as additive on polyacrylonitrile homopolymer membranes. <i>Polymer Engineering and Science</i> , 2014 , 54, 2375-2391	2.3	15
44	Modeling of turbulent cross flow microfiltration of pomegranate juice using hollow fiber membranes. <i>AIChE Journal</i> , 2014 , 60, 4279-4291	3.6	4
43	Adsorptive removal of phenolic compounds using cellulose acetate phthalate-alumina nanoparticle mixed matrix membrane. <i>Journal of Hazardous Materials</i> , 2014 , 265, 8-19	12.8	73
42	Ultrafiltration of Banana (<i>Musa acuminata</i>) Juice Using Hollow Fibers for Enhanced Shelf Life. <i>Food and Bioprocess Technology</i> , 2014 , 7, 2711-2722	5.1	21
41	Mass transfer of a neutral solute in porous microchannel under streaming potential. <i>Electrophoresis</i> , 2014 , 35, 681-90	3.6	8
40	Adsorptive removal of nitrate from aqueous solution by polyacrylonitrile-alumina nanoparticle mixed matrix hollow-fiber membrane. <i>Journal of Membrane Science</i> , 2014 , 466, 281-292	9.6	77
39	Modeling of Gel Layer-Controlled Fruit Juice Microfiltration in a Radial Cross Flow Cell. <i>Food and Bioprocess Technology</i> , 2014 , 7, 355-370	5.1	9
38	Identification of Fouling Mechanism During Ultrafiltration of Stevia Extract. <i>Food and Bioprocess Technology</i> , 2013 , 6, 931-940	5.1	30
37	Comparison of treated laterite as arsenic adsorbent from different locations and performance of best filter under field conditions. <i>Journal of Hazardous Materials</i> , 2013 , 262, 1176-86	12.8	31

36	Mass transport in a porous microchannel for non-Newtonian fluid with electrokinetic effects. <i>Electrophoresis</i> , 2013 , 34, 668-73	3.6	17
35	Lipase applications in oil hydrolysis with a case study on castor oil: a review. <i>Critical Reviews in Biotechnology</i> , 2013 , 33, 81-96	9.4	79
34	Clarification of Stevia extract by ultrafiltration: Selection criteria of the membrane and effects of operating conditions. <i>Food and Bioproducts Processing</i> , 2012 , 90, 525-532	4.9	35
33	Selective Extraction of (E)Epigallocatechin Gallate from Green Tea Leaves Using Two-Stage Infusion Coupled with Membrane Separation. <i>Food and Bioprocess Technology</i> , 2012 , 5, 2568-2577	5.1	27
32	A combined complete pore blocking and cake filtration model for steady-state electric field-assisted ultrafiltration. <i>AIChE Journal</i> , 2012 , 58, 1435-1446	3.6	15
31	Sherwood number in flow through parallel porous plates (Microchannel) due to pressure and electroosmotic flow. <i>AIChE Journal</i> , 2012 , 58, 1693-1703	3.6	30
30	Sherwood number in porous microtube due to combined pressure and electroosmotically driven flow. <i>Chemical Engineering Science</i> , 2011 , 66, 6515-6524	4.4	27
29	Erucic acid production using porcine pancreas lipase: Enhancement by mixed surfactants. <i>Biotechnology and Bioprocess Engineering</i> , 2011 , 16, 327-336	3.1	6
28	QUANTIFICATION OF FLUX DECLINE AND DESIGN OF ULTRAFILTRATION SYSTEM FOR CLARIFICATION OF TENDER COCONUT WATER. <i>Journal of Food Process Engineering</i> , 2010 , 33, 128-143	2.4	19
27	Treatment of fatliquoring effluent from a tannery using membrane separation process: experimental and modeling. <i>Journal of Hazardous Materials</i> , 2010 , 176, 434-43	12.8	20
26	Mechanism of Permeate Flux Decline during Microfiltration of Watermelon (<i>Citrullus lanatus</i>) Juice. <i>Food and Bioprocess Technology</i> , 2010 , 3, 545-553	5.1	47
25	Electroviscous effects in purely pressure driven flow and stationary plane analysis in electroosmotic flow of power-law fluids in a slit microchannel. <i>International Journal of Engineering Science</i> , 2010 , 48, 1641-1658	5.7	37
24	Modeling of extraction of dyes and their mixtures from aqueous solution using emulsion liquid membrane. <i>Journal of Membrane Science</i> , 2010 , 360, 190-201	9.6	15
23	Steady state modeling for membrane separation of pretreated liming effluent under cross-flow mode. <i>Journal of Membrane Science</i> , 2009 , 338, 175-181	9.6	10
22	Optimization of process variables in castor oil hydrolysis by <i>Candida rugosa</i> lipase with buffer as dispersion medium. <i>Biotechnology and Bioprocess Engineering</i> , 2009 , 14, 220-224	3.1	23
21	PERFORMANCE PREDICTION OF MEMBRANE MODULES INCORPORATING THE EFFECTS OF SUCTION IN THE MASS TRANSFER COEFFICIENT UNDER LAMINAR AND TURBULENT FLOW CONDITIONS FOR NON-NEWTONIAN FLUIDS. <i>Journal of Food Process Engineering</i> , 2009 , 32, 752-774	2.4	1
20	Flux decline during electric field-assisted cross-flow ultrafiltration of mosambi (<i>Citrus sinensis</i> (L.) Osbeck) juice. <i>Journal of Membrane Science</i> , 2009 , 331, 75-83	9.6	17
19	Prediction of permeate flux during osmotic pressure-controlled electric field-enhanced cross-flow ultrafiltration. <i>Journal of Colloid and Interface Science</i> , 2008 , 319, 236-46	9.3	16

18	CLARIFICATION OF WATERMELON (CITRULLUS LANATUS) JUICE BY MICROFILTRATION. <i>Journal of Food Process Engineering</i> , 2008 , 31, 768-782	2.4	12
17	STORAGE STUDY OF ULTRAFILTERED MOSAMBI (CITRUS SINENSIS (L.) OSBECK) JUICE. <i>Journal of Food Processing and Preservation</i> , 2008 , 32, 923-934	2.1	12
16	Treatment of soaking effluent from a tannery using membrane separation processes. <i>Desalination</i> , 2007 , 216, 160-173	10.3	19
15	Effect of various pretreatment methods on permeate flux and quality during ultrafiltration of mosambi juice. <i>Journal of Food Engineering</i> , 2007 , 78, 561-568	6	73
14	Resistance in series model for ultrafiltration of mosambi (Citrus sinensis (L.) Osbeck) juice in a stirred continuous mode. <i>Journal of Membrane Science</i> , 2006 , 283, 116-122	9.6	72
13	ALTERNATIVE PRETREATMENT METHODS TO ENZYMATIC TREATMENT FOR CLARIFICATION OF MOSAMBI JUICE USING ULTRAFILTRATION. <i>Journal of Food Process Engineering</i> , 2006 , 29, 202-218	2.4	20
12	Modeling of Sucrose Permeation through a Pectin Gel During Ultrafiltration of Depectinized Mosambi [Citrus sinensis (L.) Osbeck] Juice. <i>Journal of Food Science</i> , 2006 , 71, E87-E94	3.4	17
11	Prediction of the viscosity of clarified fruit juice using artificial neural network: a combined effect of concentration and temperature. <i>Journal of Food Engineering</i> , 2005 , 68, 527-533	6	52
10	Modeling the performance of batch ultrafiltration of synthetic fruit juice and mosambi juice using artificial neural network. <i>Journal of Food Engineering</i> , 2005 , 71, 273-281	6	38
9	Separation of aromatic alcohols using micellar-enhanced ultrafiltration and recovery of surfactant. <i>Journal of Membrane Science</i> , 2005 , 250, 47-59	9.6	59
8	QUANTIFICATION OF FLUX DECLINE OF DEPECTINIZED MOSAMBI (CITRUS SINENSIS[L.] OSBECK) JUICE USING UNSTIRRED BATCH ULTRAFILTRATION. <i>Journal of Food Process Engineering</i> , 2005 , 28, 359-377	3.4	11
7	UNDERSTANDING ULTRAFILTRATION PERFORMANCE WITH MOSAMBI JUICE IN AN UNSTIRRED BATCH CELL. <i>Journal of Food Process Engineering</i> , 2005 , 28, 166-180	2.4	18
6	Membrane filtration of leather plant effluent: Flux decline mechanism. <i>Journal of Membrane Science</i> , 2005 , 258, 85-96	9.6	56
5	Optimizing pectinase usage in pretreatment of mosambi juice for clarification by response surface methodology. <i>Journal of Food Engineering</i> , 2004 , 64, 397-403	6	107
4	Mass transfer coefficient with suction for laminar non-Newtonian flow in application to membrane separations. <i>Journal of Food Engineering</i> , 2004 , 64, 53-61	6	13
3	Mass transfer coefficient with suction for turbulent non-Newtonian flow in application to membrane separations. <i>Journal of Food Engineering</i> , 2004 , 65, 533-541	6	6
2	Modeling of cross-flow osmotic pressure controlled membrane separation processes under turbulent flow conditions. <i>Journal of Membrane Science</i> , 2002 , 201, 203-212	9.6	8
1	Discretization and Encapsulation of Palladium inside the Cavity of Crown Ether within the Interlayer of Layered Double Hydroxide for Enhanced Activity: A Case Study with Hydrogenation Reaction. <i>Advanced Materials Interfaces</i> , 2101712	4.6	0

