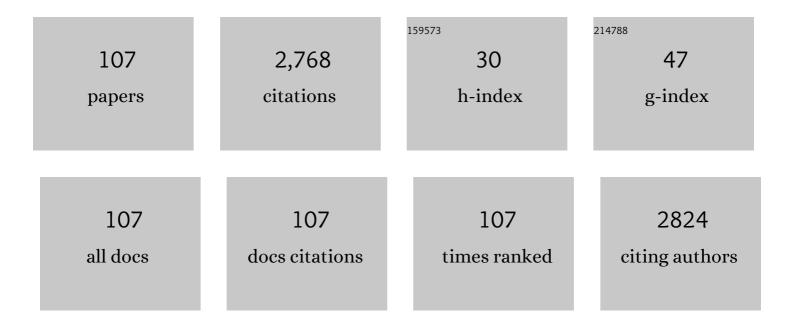
List of Publications by Year in descending order

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SIDCHENDU DE

#	Article	lF	CITATIONS
1	Aluminium fumarate metal-organic framework: A super adsorbent for fluoride from water. Journal of Hazardous Materials, 2016, 303, 10-20.	12.4	184
2	Optimizing pectinase usage in pretreatment of mosambi juice for clarification by response surface methodology. Journal of Food Engineering, 2004, 64, 397-403.	5.2	121
3	Lipase applications in oil hydrolysis with a case study on castor oil: a review. Critical Reviews in Biotechnology, 2013, 33, 81-96.	9.0	99
4	Smart responsive materials for water purification: an overview. Journal of Materials Chemistry A, 2017, 5, 22095-22112.	10.3	98
5	Adsorptive removal of nitrate from aqueous solution by polyacrylonitrile–alumina nanoparticle mixed matrix hollow-fiber membrane. Journal of Membrane Science, 2014, 466, 281-292.	8.2	95
6	Effect of various pretreatment methods on permeate flux and quality during ultrafiltration of mosambi juice. Journal of Food Engineering, 2007, 78, 561-568.	5.2	89
7	Adsorptive removal of phenolic compounds using cellulose acetate phthalate–alumina nanoparticle mixed matrix membrane. Journal of Hazardous Materials, 2014, 265, 8-19.	12.4	89
8	Resistance in series model for ultrafiltration of mosambi (Citrus sinensis (L.) Osbeck) juice in a stirred continuous mode. Journal of Membrane Science, 2006, 283, 116-122.	8.2	81
9	Adsorptive removal of heavy metals from battery industry effluent using MOF incorporated polymeric beads: A combined experimental and modeling approach. Journal of Hazardous Materials, 2021, 403, 123624.	12.4	66
10	Prediction of the viscosity of clarified fruit juice using artificial neural network: a combined effect of concentration and temperature. Journal of Food Engineering, 2005, 68, 527-533.	5.2	65
11	Separation of aromatic alcohols using micellar-enhanced ultrafiltration and recovery of surfactant. Journal of Membrane Science, 2005, 250, 47-59.	8.2	65
12	Membrane filtration of leather plant effluent: Flux decline mechanism. Journal of Membrane Science, 2005, 258, 85-96.	8.2	61
13	Optimisation of low temperature extraction of banana juice using commercial pectinase. Food Chemistry, 2014, 151, 182-190.	8.2	58
14	Synthesis of NiAl- layered double hydroxide with nitrate intercalation: Application in cyanide removal from steel industry effluent. Journal of Hazardous Materials, 2019, 373, 791-800.	12.4	58
15	Antibacterial polymeric membranes: a short review. Environmental Science: Water Research and Technology, 2018, 4, 1078-1104.	2.4	56
16	Mechanism of Permeate Flux Decline during Microfiltration of Watermelon (Citrullus lanatus) Juice. Food and Bioprocess Technology, 2010, 3, 545-553.	4.7	52
17	Modeling the performance of batch ultrafiltration of synthetic fruit juice and mosambi juice using artificial neural network. Journal of Food Engineering, 2005, 71, 273-281.	5.2	43
18	Aromatic conjugated polymers for removal of heavy metal ions from wastewater: a short review. Environmental Science: Water Research and Technology, 2017, 3, 793-805.	2.4	43

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19	Electroviscous effects in purely pressure driven flow and stationary plane analysis in electroosmotic flow of power-law fluids in a slit microchannel. International Journal of Engineering Science, 2010, 48, 1641-1658.	5.0	42
20	Comparison of treated laterite as arsenic adsorbent from different locations and performance of best filter under field conditions. Journal of Hazardous Materials, 2013, 262, 1176-1186.	12.4	42
21	Preparation, characterization and humic acid removal capacity of chitosan coated iron-oxide- polyacrylonitrile mixed matrix membrane. Journal of Water Process Engineering, 2015, 6, 93-104.	5.6	40
22	Clarification of Stevia extract by ultrafiltration: Selection criteria of the membrane and effects of operating conditions. Food and Bioproducts Processing, 2012, 90, 525-532.	3.6	38
23	Application of nanofiltration membrane for treatment of chloride rich steel plant effluent. Journal of Environmental Chemical Engineering, 2016, 4, 1-9.	6.7	37
24	Adsorptive removal of potentially toxic metals (cadmium, copper, nickel and zinc) by chemically treated laterite: Single and multicomponent batch and column study. Journal of Environmental Chemical Engineering, 2017, 5, 3273-3289.	6.7	37
25	Investigation of antifouling and disinfection potential of chitosan coated iron oxide-PAN hollow fiber membrane using Gram-positive and Gram-negative bacteria. Materials Science and Engineering C, 2017, 75, 133-148.	7.3	35
26	Identification of Fouling Mechanism During Ultrafiltration of Stevia Extract. Food and Bioprocess Technology, 2013, 6, 931-940.	4.7	34
27	Sherwood number in flow through parallel porous plates (Microchannel) due to pressure and electroosmotic flow. AICHE Journal, 2012, 58, 1693-1703.	3.6	33
28	Sherwood number in porous microtube due to combined pressure and electroosmotically driven flow. Chemical Engineering Science, 2011, 66, 6515-6524.	3.8	32
29	Defluoridation using novel chemically treated carbonized bone meal: batch and dynamic performance with scale-up studies. Environmental Science and Pollution Research, 2018, 25, 18161-18178.	5.3	32
30	Removal of cyanide from steel plant effluent using coke breeze, a waste product of steel industry. Journal of Water Process Engineering, 2019, 28, 135-143.	5.6	32
31	Polyaniline doped ultrafiltration membranes: Mechanism of membrane formation and pH response characteristics. Polymer, 2018, 153, 201-213.	3.8	31
32	Selective Extraction of (â^')Epigallocatechin Gallate from Green Tea Leaves Using Two-Stage Infusion Coupled with Membrane Separation. Food and Bioprocess Technology, 2012, 5, 2568-2577.	4.7	30
33	Ultrafiltration of Banana (Musa acuminata) Juice Using Hollow Fibers for Enhanced Shelf Life. Food and Bioprocess Technology, 2014, 7, 2711-2722.	4.7	28
34	Ultrafiltration of oily waste water: Contribution of surface roughness in membrane properties and fouling characteristics of polyacrylonitrile membranes. Canadian Journal of Chemical Engineering, 2015, 93, 2031-2042.	1.7	28
35	Optimization of process variables in castor oil hydrolysis by Candida rugosa lipase with buffer as dispersion medium. Biotechnology and Bioprocess Engineering, 2009, 14, 220-224.	2.6	27
36	Clarification and storage study of bottle gourd (Lagenaria siceraria) juice by hollow fiber ultrafiltration. Food and Bioproducts Processing, 2016, 100, 1-15.	3.6	25

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37	Highly efficient reduction of p-Nitrophenol by sodium borohydride over binary ZIF-67/g-C3N4 heterojunction catalyst. Journal of Environmental Chemical Engineering, 2021, 9, 106677.	6.7	25
38	ALTERNATIVE PRETREATMENT METHODS TO ENZYMATIC TREATMENT FOR CLARIFICATION OF MOSAMBI JUICE USING ULTRAFILTRATION. Journal of Food Process Engineering, 2006, 29, 202-218.	2.9	24
39	Treatment of fatliquoring effluent from a tannery using membrane separation process: Experimental and modeling. Journal of Hazardous Materials, 2010, 176, 434-443.	12.4	24
40	A socio-economic study along with impact assessment for laterite based technology demonstration for arsenic mitigation. Science of the Total Environment, 2017, 583, 142-152.	8.0	23
41	QUANTIFICATION OF FLUX DECLINE AND DESIGN OF ULTRAFILTRATION SYSTEM FOR CLARIFICATION OF TENDER COCONUT WATER. Journal of Food Process Engineering, 2010, 33, 128-143.	2.9	21
42	Improved antifouling characteristics of acrylonitrile co-polymer membrane by low temperature pulsed ammonia plasma in the treatment of oil–water emulsion. Vacuum, 2016, 131, 293-304.	3.5	21
43	Treatment of soaking effluent from a tannery using membrane separation processes. Desalination, 2007, 216, 160-173.	8.2	20
44	UNDERSTANDING ULTRAFILTRATION PERFORMANCE WITH MOSAMBI JUICE IN AN UNSTIRRED BATCH CELL. Journal of Food Process Engineering, 2005, 28, 166-180.	2.9	19
45	Modeling of Sucrose Permeation through a Pectin Gel During Ultrafiltration of Depectinized Mosambi [Citrus sinensis (L.) Osbeck] Juice. Journal of Food Science, 2006, 71, E87.	3.1	19
46	Mass transport in a porous microchannel for nonâ€< scp>Newtonian fluid with electrokinetic effects. Electrophoresis, 2013, 34, 668-673.	2.4	19
47	Effects of polymer molecular weight, concentration, and role of polyethylene glycol as additive on polyacrylonitrile homopolymer membranes. Polymer Engineering and Science, 2014, 54, 2375-2391.	3.1	18
48	Stability of Poiseuille flow of a Bingham fluid overlying an anisotropic and inhomogeneous porous layer. Journal of Fluid Mechanics, 2019, 874, 573-605.	3.4	18
49	Flux decline during electric field-assisted cross-flow ultrafiltration of mosambi (Citrus sinensis (L.)) Tj ETQq1 1 0.7	84314 rgi 8.2	BT Overlock 17
50	Comparison between Centrifugation and Microfiltration As Primary Clarification of Bottle Gourd (<i>Lagenaria siceraria)</i> Juice. Journal of Food Processing and Preservation, 2016, 40, 226-238.	2.0	17
51	Modeling of solution thermodynamics: A method for tuning the properties of blend polymeric membranes. Journal of Membrane Science, 2017, 540, 485-495.	8.2	17
52	Role of thermodynamic and kinetic interaction of poly(vinylidene fluoride) with various solvents for tuning phase inversion membranes. Polymer Engineering and Science, 2018, 58, 1062-1073.	3.1	17
53	Prediction of permeate flux during osmotic pressure-controlled electric field-enhanced cross-flow ultrafiltration. Journal of Colloid and Interface Science, 2008, 319, 236-246.	9.4	16
54	Modeling of extraction of dyes and their mixtures from aqueous solution using emulsion liquid membrane. Journal of Membrane Science, 2010, 360, 190-201.	8.2	16

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55	A combined complete pore blocking and cake filtration model for steadyâ€state electric fieldâ€assisted ultrafiltration. AICHE Journal, 2012, 58, 1435-1446.	3.6	16
56	Performance evaluation of two stage nanofiltration for treatment of textile effluent containing reactive dyes. Journal of Environmental Chemical Engineering, 2015, 3, 1678-1690.	6.7	16
57	Mass transfer coefficient with suction for laminar non-Newtonian flow in application to membrane separations. Journal of Food Engineering, 2004, 64, 53-61.	5.2	14
58	CLARIFICATION OF WATERMELON (<i>CITRULLUS LANATUS</i>) JUICE BY MICROFILTRATION. Journal of Food Process Engineering, 2008, 31, 768-782.	2.9	14
59	STORAGE STUDY OF ULTRAFILTERED MOSAMBI (CITRUS SINENSIS(L.) OSBECK) JUICE. Journal of Food Processing and Preservation, 2008, 32, 923-934.	2.0	14
60	Preparation, characterization and application of powdered activated carbonâ€cellulose acetate phthalate mixed matrix membrane for treatment of steel plant effluent. Polymers for Advanced Technologies, 2016, 27, 444-459.	3.2	14
61	Removal of reactive dyes using a high throughput-hybrid separation process. Desalination and Water Treatment, 2016, 57, 10295-10311.	1.0	14
62	Preparation, characterization, and performance of a novel hollow fiber nanofiltration membrane. Polymers for Advanced Technologies, 2015, 26, 1155-1167.	3.2	13
63	State-of-the-Art Materials and Spinning Technology for Hemodialyzer Membranes. Separation and Purification Reviews, 2017, 46, 216-240.	5.5	13
64	Theoretical investigation of cross flow ultrafiltration by mixed matrix membrane: A case study on fluoride removal. Desalination, 2015, 365, 347-354.	8.2	12
65	Fundamental Understanding of Fouling Mechanisms During Microfiltration of Bitter Gourd (Momordica charantia) Extract and Their Dependence on Operating Conditions. Food and Bioprocess Technology, 2018, 11, 1012-1026.	4.7	12
66	Effect of Couette component on the stability of Poiseuille flow of a Bingham fluid–porous system: Modal and non-modal approaches. Physics of Fluids, 2020, 32, 064103.	4.0	12
67	In situ photodecyanation of steel industry wastewater in a pilot scale. Environmental Science and Pollution Research, 2020, 27, 33226-33233.	5.3	12
68	QUANTIFICATION OF FLUX DECLINE OF DEPECTINIZED MOSAMBI (CITRUS SINENSIS[L.] OSBECK) JUICE USING UNSTIRRED BATCH ULTRAFILTRATION. Journal of Food Process Engineering, 2005, 28, 359-377.	2.9	11
69	Steady state modeling for membrane separation of pretreated liming effluent under cross-flow mode. Journal of Membrane Science, 2009, 338, 175-181.	8.2	11
70	Adsorption oncentration polarization model for ultrafiltration in mixed matrix membrane. AICHE Journal, 2014, 60, 2354-2364.	3.6	10
71	Potential of extraction of Steviol glycosides using cellulose acetate phthalate (CAP) – polyacrylonitrile (PAN) blend hollow fiber membranes. Journal of Food Science and Technology, 2015, 52, 7081-7091.	2.8	10
72	Robust self cleaning polypyrroleâ€polysulfone blend hollow fiber membrane for biofouling mitigation. Journal of Chemical Technology and Biotechnology, 2018, 93, 3185-3198.	3.2	10

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73	Nanofiltration range desalination by high flux graphene oxide impregnated ultrafiltration hollow fiber mixed matrix membrane. Journal of Cleaner Production, 2019, 213, 393-405.	9.3	10
74	Modeling of Gel Layer-Controlled Fruit Juice Microfiltration in a Radial Cross Flow Cell. Food and Bioprocess Technology, 2014, 7, 355-370.	4.7	9
75	Modeling of cross-flow osmotic pressure controlled membrane separation processes under turbulent flow conditions. Journal of Membrane Science, 2002, 201, 203-212.	8.2	8
76	Mass transfer of a neutral solute in porous microchannel under streaming potential. Electrophoresis, 2014, 35, 681-690.	2.4	8
77	Effects of overlapping electric double layer on mass transport of a macroâ€solute across porous wall of a micro/nanochannel for power law fluid. Electrophoresis, 2017, 38, 1301-1309.	2.4	8
78	Effect of different operating conditions in cloud point assisted extraction of thymol from Ajwain (Trachyspermum Ammi L.) seeds and recovery using solvent. Journal of Food Science and Technology, 2017, 54, 4353-4361.	2.8	8
79	Understanding and tuning of polymer surfaces for dialysis applications. Polymers for Advanced Technologies, 2017, 28, 174-187.	3.2	8
80	Hydrophilic surface modification of polyacrylonitrile based membrane: effect of low temperature radio frequency carbon dioxide plasma. Polymer Bulletin, 2018, 75, 3567-3586.	3.3	8
81	Integral Method of Analysis for Combined Concentration Polarization and Pore Flow Model for Prediction of the Performance of a Nanofiltration Membrane. Industrial & Engineering Chemistry Research, 2020, 59, 4108-4118.	3.7	8
82	Mass transfer coefficient with suction for turbulent non-Newtonian flow in application to membrane separations. Journal of Food Engineering, 2004, 65, 533-541.	5.2	7
83	Pressure driven transport of neutral macro-solute in microchannel with porous wall at high surface potential. International Journal of Heat and Mass Transfer, 2017, 104, 574-583.	4.8	7
84	Purification of Polyphenols from Green Tea Leaves and Performance Prediction Using the Blend Hollow Fiber Ultrafiltration Membrane. Food and Bioprocess Technology, 2019, 12, 933-953.	4.7	7
85	Erucic acid production using porcine pancreas lipase: Enhancement by mixed surfactants. Biotechnology and Bioprocess Engineering, 2011, 16, 327-336.	2.6	6
86	Quantification of Selective Transport of Fructose and Glucose During Membrane Filtration of Pomegranate Juice. Food and Bioprocess Technology, 2021, 14, 272-286.	4.7	6
87	Effect of mixed solvents on phase inversion of polymeric membranes. Polymer International, 2020, 69, 920-932.	3.1	5
88	Modeling of turbulent cross flow microfiltration of pomegranate juice using hollow fiber membranes. AICHE Journal, 2014, 60, 4279-4291.	3.6	4
89	Treatment of polyacrylonitrile coâ€polymer membrane by low temperature radioâ€frequency nitrogen plasma. Polymers for Advanced Technologies, 2018, 29, 775-784.	3.2	4
90	Comparative study of hydrophilic modification of polyacrylonitrile membranes by nitrogen and carbon dioxide RF plasma. Polymer Engineering and Science, 2019, 59, 2148-2158.	3.1	4

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91	Effect of electrolyte nature in mass transport of a neutral solute in a microtube with porous wall. AICHE Journal, 2020, 66, e16765.	3.6	4
92	Solubility parameter estimation and phase inversion modeling of bentoniteâ€doped polymeric membrane systems. Journal of Applied Polymer Science, 2020, 137, 48450.	2.6	4
93	Long-time instability and transient behavior of pressure-driven flow of a power-law fluid in a plane channel overlying a porous layer. Physics of Fluids, 2021, 33, 054109.	4.0	4
94	Electrohydrodynamic transport of nonâ€symmetric electrolyte through porous wall of a microtube. Electrophoresis, 2019, 40, 720-729.	2.4	3
95	Fast purification of graphene oxide solution by continuous counter current hollow fibre dialysis: A step towards large scale production. Canadian Journal of Chemical Engineering, 2019, 97, 1596-1604.	1.7	3
96	Mass transport in electrokinetic microflows with the wall reaction affecting the hydrodynamics. Theoretical and Computational Fluid Dynamics, 2021, 35, 39-60.	2.2	3
97	Multicomponent transport model-based scaling up of long-term fixed bed adsorption of reactive dyes from textile effluent using aminated PAN beads. Environmental Science and Pollution Research, 2021, 28, 43483-43506.	5.3	3
98	Effect of the transition layer on the stability of a fluid-porous configuration: Impact on power-law rheology. Physical Review Fluids, 2021, 6, .	2.5	3
99	Modelling of crossâ€flow microfiltration of dyeâ€loaded activated carbon in a ceramic tubular membrane module. Canadian Journal of Chemical Engineering, 2015, 93, 2005-2014.	1.7	2
100	Effect of process parameters on aqueous extraction of thymol and other phytonutrients from herbal seed Ajwain (Trachyspermum ammi L.). Journal of Applied Research on Medicinal and Aromatic Plants, 2018, 11, 27-36.	1.5	2
101	Permeate flux hysteresis with transmembrane pressure in the gel controlling membrane filtration. Journal of Food Engineering, 2020, 264, 109689.	5.2	2
102	Mass transfer of a neutral solute in polyelectrolyte grafted soft nanochannel with porous wall. Electrophoresis, 2020, 41, 578-587.	2.4	2
103	PERFORMANCE PREDICTION OF MEMBRANE MODULES INCORPORATING THE EFFECTS OF SUCTION IN THE MASS TRANSFER COEFFICIENT UNDER LAMINAR AND TURBULENT FLOW CONDITIONS FOR NONâ€NEWTONIAN FLUIDS. Journal of Food Process Engineering, 2009, 32, 752-774.	2.9	1
104	Effects of finite ion size on transport of neutral solute across porous wall of a nanotube. Theoretical and Computational Fluid Dynamics, 2020, 34, 659-677.	2.2	1
105	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. Advanced Materials Interfaces, 0, , 2101712.	3.7	1
106	Criteria for a unique steady state for enzymatic depectinization of bael (Aegle marmelos) juice in a continuous stirred tank reactor. Reaction Chemistry and Engineering, 2018, 3, 333-343.	3.7	0
107	Effects of operating conditions during hollow fiber ultrafiltration of bitter gourd (Mormordica) Tj ETQq1 1 0.7843 Process Engineering, 2019, 42, e13118.	14 rgBT / 2.9	Overlock 10 0