

# Prabirkumar Saha

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,222  
citations

331670

21  
h-index

361022

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1042  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth kinetics of an indigenous mixed microbial consortium during phenol degradation in a batch reactor. <i>Bioresource Technology</i> , 2008, 99, 205-209.	9.6	156
2	Separation of mercury from its aqueous solution through supported liquid membrane using environmentally benign diluent. <i>Journal of Membrane Science</i> , 2010, 350, 395-401.	8.2	77
3	Supported liquid membrane-based simultaneous separation of cadmium and lead from wastewater. <i>Journal of Membrane Science</i> , 2014, 459, 256-263.	8.2	71
4	Simultaneous separation of mercury and lignosulfonate from aqueous solution using supported liquid membrane. <i>Journal of Membrane Science</i> , 2010, 346, 37-44.	8.2	66
5	Supported liquid membrane based removal of lead(II) and cadmium(II) from mixed feed: Conversion to solid waste by precipitation. <i>Journal of Hazardous Materials</i> , 2015, 299, 504-512.	12.4	64
6	Batch growth kinetics of an indigenous mixed microbial culture utilizing m-cresol as the sole carbon source. <i>Journal of Hazardous Materials</i> , 2009, 162, 476-481.	12.4	58
7	Biodegradation of phenol and m-cresol in a batch and fed batch operated internal loop airlift bioreactor by indigenous mixed microbial culture predominantly <i>Pseudomonas</i> sp.. <i>Bioresource Technology</i> , 2008, 99, 8553-8558.	9.6	57
8	Extraction and recovery of lignosulfonate from its aqueous solution using bulk liquid membrane. <i>Journal of Membrane Science</i> , 2009, 330, 135-144.	8.2	50
9	MODELING AND PREDICTIVE CONTROL OF MIMO NONLINEAR SYSTEMS USING WIENER-LAGUERRE MODELS. <i>Chemical Engineering Communications</i> , 2004, 191, 1083-1119.	2.6	43
10	Separation of lignosulfonate from its aqueous solution using emulsion liquid membrane. <i>Journal of Membrane Science</i> , 2010, 360, 34-39.	8.2	43
11	Nonlinear system identification using Wiener type Laguerre-Wavelet network model. <i>Chemical Engineering Science</i> , 2008, 63, 3932-3941.	3.8	42
12	Kinetics of phenol and m-cresol biodegradation by an indigenous mixed microbial culture isolated from a sewage treatment plant. <i>Journal of Environmental Sciences</i> , 2008, 20, 1508-1513.	6.1	39
13	Separation of cadmium and lead from wastewater using supported liquid membrane integrated with in-situ electrodeposition. <i>Electrochimica Acta</i> , 2017, 229, 1-7.	5.2	34
14	Improved branch and bound method for control structure screening. <i>Chemical Engineering Science</i> , 2005, 60, 1555-1564.	3.8	33
15	Separation of lignosulfonate from its aqueous solution using supported liquid membrane. <i>Journal of Membrane Science</i> , 2009, 340, 84-91.	8.2	29
16	Separation of hexavalent chromium from industrial effluent through liquid membrane using environmentally benign solvent: A study of experimental optimization through response surface methodology. <i>Chemical Engineering Research and Design</i> , 2018, 132, 564-583.	5.6	28
17	Treatment of phenolics containing synthetic wastewater in an internal loop airlift bioreactor (ILALR) using indigenous mixed strain of <i>Pseudomonas</i> sp. under continuous mode of operation. <i>Bioresource Technology</i> , 2009, 100, 4111-4116.	9.6	27
18	Experimental evaluation of an augmented IMC for nonlinear systems. <i>Control Engineering Practice</i> , 2000, 8, 1167-1176.	5.5	26

#	ARTICLE	IF	CITATIONS
19	Degradation of phenol by TiO <sub>2</sub> -based heterogeneous photocatalysts in presence of sunlight. Journal of Hydro-Environment Research, 2009, 3, 45-50.	2.2	24
20	Study of the supported liquid membrane for the estimation of the synergistic effects of influential parameters on its stability. Journal of Environmental Chemical Engineering, 2016, 4, 943-949.	6.7	24
21	Transportation of Catechin ( $\pm$ C) Using Physiologically Benign Vegetable Oil As Liquid Membrane. Industrial & Engineering Chemistry Research, 2012, 51, 15207-15216.	3.7	21
22	Separation of toxic heavy metals from its aqueous solution using environmentally benign vegetable oil as liquid membrane. RSC Advances, 2015, 5, 88331-88338.	3.6	20
23	Transportation of bioactive (+)catechin from its aqueous solution using flat sheet supported liquid membrane. Journal of Membrane Science, 2013, 447, 325-334.	8.2	19
24	Measurement and Modeling of Adsorption of Lower Hydrocarbons on Activated Carbon. Journal of Chemical & Engineering Data, 2013, 58, 1606-1612.	1.9	17
25	Separation of medicinal catechins from tea leaves (Camellia sinensis) extract using hollow fiber supported liquid membrane (HF-SLM) module. Journal of Membrane Science, 2014, 471, 219-226.	8.2	17
26	Iron complexation of pharmaceutical catechins through selective separation. RSC Advances, 2014, 4, 26247-26250.	3.6	15
27	Studies on the stability of a supported liquid membrane and its cleaning protocol. RSC Advances, 2015, 5, 71999-72008.	3.6	15
28	Separation and Recovery of Nickel and Zinc from Synthetic Wastewater Using Supported Liquid Membranes with <i>in Situ</i> Electrodeposition. Industrial & Engineering Chemistry Research, 2019, 58, 9970-9987.	3.7	14
29	Separation of Hg(II) from Its Aqueous Solution Using Bulk Liquid Membrane. Industrial & Engineering Chemistry Research, 2010, 49, 2889-2894.	3.7	13
30	Separation of Cd(II) from its aqueous solution using environmentally benign vegetable oil as liquid membrane. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 775-785.	1.5	11
31	Biodegradation kinetics of phenol by predominantly <i>Pseudomonas</i> sp. in a batch shake flask. Desalination and Water Treatment, 2011, 36, 99-104.	1.0	8
32	Modelling and control of nonlinear resonating processes: part I—system identification using orthogonal basis function. International Journal of Dynamics and Control, 2017, 5, 1222-1236.	2.5	8
33	Removal of hexavalent chromium from wastewater using supported liquid membrane: synthesis of chromium-iron complex through electrochemical reaction. Water and Environment Journal, 2020, 34, 753-771.	2.2	8
34	Studies on growth kinetics of predominantly <i>Pseudomonas</i> sp. in internal loop airlift bioreactor using phenol and m-cresol. Korean Journal of Chemical Engineering, 2011, 28, 1550-1555.	2.7	5
35	Model predictive control of resonant systems using Kautz model. International Journal of Automation and Computing, 2016, 13, 501-515.	4.5	5
36	Stochastic identification of bioreactor process exhibiting input multiplicity. Bioprocess and Biosystems Engineering, 2007, 30, 165-172.	3.4	4

#	ARTICLE	IF	CITATIONS
37	Hydrodynamics and batch biodegradation of phenol in an Internal Loop Airlift Reactor. International Journal of Environmental Engineering, 2010, 2, 303.	0.1	4
38	Liquid “ Membrane Filters. , 2015, , 155-205.		4
39	Adaptive nonlinear DMC of hydrodealkylation process using Aspen Engineering Suite. Asia-Pacific Journal of Chemical Engineering, 2008, 3, 680-687.	1.5	3
40	Modeling and Simulation of Stirred Dead End Ultrafiltration Process Using the Aspen Engineering Suite. Industrial & Engineering Chemistry Research, 2009, 48, 4428-4439.	3.7	3
41	Kautz filters based model predictive control for resonating systems. International Journal of Dynamics and Control, 2017, 5, 477-495.	2.5	3
42	MODELING AND PREDICTIVE CONTROL OF MIMO NONLINEAR SYSTEMS USING WIENER-LAGUERRE MODELS. Chemical Engineering Communications, 2004, 191, 1083-1119.	2.6	3
43	Globally optimal control structure selection using Hankel singular value through branch and bound method. Computer Aided Chemical Engineering, 2003, 15, 1014-1019.	0.5	2
44	Modelling and control of nonlinear resonating processes: part II “model based control using orthogonal basis function based Wiener models. International Journal of Dynamics and Control, 2017, 5, 1237-1251.	2.5	2
45	A Nash game approach to mixed $\frac{H_2}{H_\infty}$ model predictive control: part 2 “stability and robustness. International Journal of Dynamics and Control, 2017, 5, 1073-1088.	2.5	2
46	Kinetics of growth and multi substrate degradation by an indigenous mixed microbial culture isolated from a wastewater treatment plant in Guwahati, India. Water Science and Technology, 2008, 58, 1101-1106.	2.5	1
47	Computer Aided Design of Distillation Column Suitable for Classroom Teaching. , 2014, , .		1
48	A Nash game approach to mixed $\frac{H_2}{H_\infty}$ model predictive control: part 3 “ Output Feedback Case. International Journal of Dynamics and Control, 2017, 5, 1063-1072.	2.5	1
49	A Nash Game Approach to Mixed $H_2/H_\infty$ Model Predictive Control: Part 3 “ Output Feedback Case. International Journal of Automation and Computing, 2018, 15, 616-624.	4.5	1
50	Spectroscopic, thermodynamic and ultrasonic properties of pseudo-binary mixtures of organic extractants and vegetable oil at 25 “60 °C under atmospheric pressure. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2650.	1.5	1
51	Modeling and Control of a Complex Interacting Process. Advanced Materials Research, 2011, 403-408, 3758-3762.	0.3	0
52	Real Time Model Predictive Control of a Four Tank Interacting Storage System. Computer Aided Chemical Engineering, 2012, 31, 335-339.	0.5	0
53	Synthesis of cadmium sulphide nanoparticles through liquid membrane pathway. International Journal of Nanoparticles, 2019, 11, 202.	0.3	0
54	Synthesis of cadmium sulphide nanoparticles through liquid membrane pathway. International Journal of Nanoparticles, 2019, 11, 202.	0.3	0