

Priyabrata Pal

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

768
citations

430442

18
h-index

552369

26
g-index

50
all docs

50
docs citations

50
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of aqueous methyldiethanolamine (MDEA) as solvent in natural gas sweetening unit and process contaminants with probable reaction pathway. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 124-131.	2.1	52
2	Adsorptive removal of heat stable salt anions from industrial lean amine solvent using anion exchange resins from gas sweetening unit. <i>Journal of Natural Gas Science and Engineering</i> , 2013, 15, 14-21.	2.1	51
3	Green synthesis of bimetallic copper-silver nanoparticles and their application in catalytic and antibacterial activities. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 269-277.	2.1	46
4	Comparison of heavy metal ions removal from industrial lean amine solvent using ion exchange resins and sand coated with chitosan. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 18, 227-236.	2.1	43
5	Regeneration and reuse of bio-surfactant to produce colloidal gas aphrons for heavy metal ions removal using single and multistage cascade flotation. <i>Journal of Cleaner Production</i> , 2019, 217, 493-502.	4.6	43
6	Foaming study combined with physical characterization of aqueous MDEA gas sweetening solutions. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 17, 49-57.	2.1	42
7	Alginate clay hybrid composite adsorbents for the reclamation of industrial lean methyldiethanolamine solutions. <i>Applied Clay Science</i> , 2018, 156, 213-223.	2.6	41
8	The Detection of Mercury, Cadmium, and Arsenic by the Deactivation of Urease on Rhodized Carbon. <i>Environmental Engineering Science</i> , 2009, 26, 25-32.	0.8	34
9	Enhanced removal of mixed metal ions from aqueous solutions using flotation by colloidal gas aphrons stabilized with sodium alginate. <i>Separation and Purification Technology</i> , 2018, 202, 103-110.	3.9	30
10	Alginate derived porous graphitic carbon for highly efficient remediation of sulfide from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1998-2009.	3.3	28
11	Low-cost field test kits for arsenic detection in water. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 108-115.	0.9	26
12	Effect of MDEA degradation products on foaming behavior and physical properties of aqueous MDEA solutions. <i>International Journal of Greenhouse Gas Control</i> , 2015, 37, 280-286.	2.3	23
13	Sweetening liquefied petroleum gas (LPG): Parametric sensitivity analysis using Aspen HYSYS. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 1011-1017.	2.1	22
14	Removal of sulfide from aqueous solutions using novel alginate-iron oxide magnetic hydrogel composites. <i>Polymer Bulletin</i> , 2018, 75, 5455-5475.	1.7	22
15	Removal of arsenic from drinking water by ferric hydroxide microcapsule-loaded alginate beads in packed adsorption column. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010, 45, 1750-1757.	0.9	21
16	Effect of operating parameters and corrosion inhibitors on foaming behavior of aqueous methyldiethanolamine solutions. <i>Journal of Petroleum Science and Engineering</i> , 2018, 165, 358-364.	2.1	21
17	Accumulation of heat stable salts and degraded products during thermal degradation of aqueous methyldiethanolamine (MDEA) using microwave digester and high pressure reactor. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 1043-1047.	2.1	18
18	Gelatin-bentonite composite as reusable adsorbent for the removal of lead from aqueous solutions: Kinetic and equilibrium studies. <i>Journal of Water Process Engineering</i> , 2017, 20, 40-50.	2.6	18

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19	Isolation and characterization of phenol utilizing bacteria from industrial effluent-contaminated soil and kinetic evaluation of their biodegradation potential. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 67-77.	0.9	16
20	Calcium alginate gel and hard beads for the removal of total organic acid anions and heavy metal ions from industrial lean methyldiethanolamine solvent. <i>Polymer Bulletin</i> , 2019, 76, 103-118.	1.7	16
21	Simultaneous removal of single and mixed cationic/anionic dyes from aqueous solutions using flotation by colloidal gas aphanes. <i>Separation and Purification Technology</i> , 2021, 255, 117684.	3.9	16
22	Comparison of thermal degradation between fresh and industrial aqueous methyldiethanolamine with continuous injection of H ₂ S/CO ₂ in high pressure reactor. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 29, 479-487.	2.1	14
23	Removal of Contaminants from Industrial Lean Amine Solvent Using Polyacrylamide Hydrogels Optimized by Response Surface Methodology. <i>Adsorption Science and Technology</i> , 2015, 33, 9-24.	1.5	11
24	Total organic acid adsorption using alginate/clay hybrid composite for industrial lean amine reclamation using fixed-bed: Parametric study coupled with foaming. <i>International Journal of Greenhouse Gas Control</i> , 2020, 94, 102907.	2.3	11
25	Effect of temperature and use of regenerated surfactants on the removal of oil from water using colloidal gas aphanes. <i>Separation and Purification Technology</i> , 2019, 227, 115678.	3.9	10
26	Efficient removal of different basic dyes using graphene. , 0, 68, 226-235.		9
27	Electrochemical Acetylcholine Chloride Biosensor Using an Acetylcholine Esterase Biomimic. <i>Analytical Letters</i> , 2008, 41, 1387-1397.	1.0	8
28	Defoaming of industrial lean methyldiethanolamine solution using ultrasonic waves and their kinetic studies. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 81, 103478.	2.1	8
29	Removal of the total organic acid anions from an industrial lean diglycolamine solvent using a calcium alginate carbon adsorbent, and molecular modeling studies. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 82, 103516.	2.1	8
30	Separation and enrichment of micro and nano sized particles from aqueous solutions by flotation using colloidal gas aphanes. <i>Journal of Water Process Engineering</i> , 2019, 28, 123-128.	2.6	7
31	Optimization of the Cementation Process for the Removal of Copper in Process Effluent Discharges. <i>Chemical Engineering and Technology</i> , 2012, 35, 1744-1750.	0.9	6
32	Treatment of polycyclic aromatic hydrocarbons (PAHs) from aqueous solutions by flotation using colloidal gas aphanes. <i>Separation and Purification Technology</i> , 2022, 285, 120367.	3.9	6
33	Prediction of foaming and surface tension of lean MDEA solutions with corrosion inhibitor (bis(2-hydroxyethyl)cocoalkylamine) in continuous foam fractionation column. <i>Chemical Engineering Communications</i> , 2018, 205, 871-880.	1.5	5
34	Microalgae harvesting using colloidal gas aphanes generated from single and mixed surfactants. <i>Chemosphere</i> , 2021, 273, 128568.	4.2	5
35	Soxhlet Extraction of Neem Pigment to Synthesize Iron Oxide Nanoparticles and Its Catalytic and Adsorption Activity for Methylene Blue Removal. <i>BioNanoScience</i> , 2017, 7, 546-553.	1.5	4
36	Design of adsorption column for reclamation of methyldiethanolamine using homogeneous surface diffusion model. <i>Oil and Gas Science and Technology</i> , 2020, 75, 82.	1.4	4

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37	Amine contaminants removal using alginate clay hybrid composites and its effect on foaming. International Journal of Industrial Chemistry, 2019, 10, 145-158.	3.1	3
38	Selective removal of diethanolamine from methyldiethanolamine solution using chemically reduced single-layer graphene and activated carbon. Separation Science and Technology, 2019, 54, 2671-2681.	1.3	3
39	Use of chicken feathers as potential adsorbent for the reclamation of industrial lean methyl diethanolamine solutions. Separation Science and Technology, 2022, 57, 372-387.	1.3	3
40	Indirect Solar Cooking Using a Novel Fresnel Lens and Determination of its Energy and Exergy Efficiencies. , 2014, , .		2
41	Copper Deposition and Formation of Nano-Particles. Separation Science and Technology, 2014, 49, 2728-2733.	1.3	2
42	Removal of metal ions and heat stable salts from industrial lean amine solvent using polymeric hydrogels from gas sweetening unit. , 2015, , 173-184.		2
43	Foaming of industrial lean methyldiethanolamine solution in the presence of hydrocarbon and fatty acid based corrosion inhibitors. Oil and Gas Science and Technology, 2018, 73, 76.	1.4	2
44	Rapid quantification of degraded products from methyldiethanolamine solution using automated direct sample analysis mass spectrometry and their removal. Chemical Engineering Communications, 2020, 207, 350-357.	1.5	2
45	Development of Some Electrochemical Systems for Detection of Arsenic in Drinking Water. Sensor Letters, 2010, 8, 577-583.	0.4	2
46	Extraction of crystalline nanocellulose from palm tree date seeds (<i>Phoenix dactylifera L.</i>). Chemical Engineering Communications, 2023, 210, 61-73.	1.5	2
47	Copper cementation on iron using copper sulphate solution with different organic solvents. International Journal of Environmental Engineering, 2014, 6, 415.	0.1	0
48	Bio-Derived Porous Graphitic Carbon as Highly Efficient Mercury Scavenger from Natural Gas Streams. , 2017, , .		0
49	Experimental Mutual Solubility Data for Cyclohexane and Water in Aqueous Solutions of Diethanolamine. Journal of Chemical & Engineering Data, 2019, 64, 2363-2367.	1.0	0
50	Foaming of industrial lean methyldiethanolamine solvents and its reclamation using bio-polymer adsorbents. , 2018, , .		0