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## Overview of flotation as a wastewater treatment technique

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640	Sulphate and molybdate ions uptake by chitin-based shrimp shells. <i>Minerals Engineering</i> , <b>2003</b> , 16, 715-722		59
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437	Microbubble-inducing characteristics depending on various nozzle and pressure in dissolved air flotation process. <b>2015</b> , 19, 558-563	6
436	A new 3D cobalt (II) metal-organic framework nanostructure for heavy metal adsorption. <b>2015</b> , 430, 261-267	50
435	Removal of Dyes from Effluents Using Biowaste-Derived Adsorbents. <b>2015</b> , 139-201	5
434	Durable superhydrophobic/superoleophilic epoxy/attapulgite nanocomposite coatings for oil/water separation. <b>2015</b> , 272, 285-290	50
433	Oil Removal from Produced Water during Laboratory- and Pilot-Scale Gas Flotation: The Influence of Interfacial Adsorption and Induction Times. <b>2015</b> , 29, 7734-7740	27
432	Comparison study of biosorption and coagulation/air flotation methods for chromium removal from wastewater: experiments and neural network modeling. <b>2015</b> , 5, 91776-91784	20
431	Ion flotation for removal of Ni(II) and Zn(II) ions from wastewaters. <b>2015</b> , 143, 131-137	51
430	Prospects for biodiesel production from algae-based wastewater treatment in Brazil: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 52, 1834-1846	16.2 88
429	Aphron applications--a review of recent and current research. <b>2015</b> , 216, 36-54	40
428	Separation of transition metals and chelated complexes in wastewaters. <b>2015</b> , 34, 761-783	12
427	Three dimensional electro catalytic oxidation of aniline by boron doped mesoporous activated carbon. <b>2015</b> , 21, 942-950	37

426	Harvesting techniques applied to microalgae: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 41, 1489-1500	16.2	549
425	Adsorption of hydrocarbons from industrial wastewater onto a silica mesoporous material: Structural and thermal study. <b>2015</b> , 203, 139-150		19
424	The present status of landfill leachate treatment and its development trend from a technological point of view. <b>2015</b> , 14, 93-122		103
423	Thermodynamics and kinetics of bivalent cadmium biosorption onto nanoparticles of chitosan-based biopolymers. <b>2015</b> , 47, 79-90		35
422	Investigation of equilibrium and kinetics of Cr(VI) adsorption by dried <i>Bacillus cereus</i> using response surface methodology. <b>2016</b> , 73, 617-27		6
421	Generation of bubbles and foams. 155-193		1
420	The fundamental phenomena of nanobubbles and their behavior in wastewater treatment technologies. <b>2016</b> , 19, 133-142		36
419	Ligational, potentiometric and floatation studies on Cu(II) complexes of hydrazones derived from p and o-vanillin condensed with diketo hydrazide. <b>2016</b> , 220, 939-953		8
418	Adsorption and chemical precipitation of lead and zinc from contaminated solutions in porous rocks: Possible application in environmental protection. <b>2016</b> , 122, 98-106		21
417	Frother structure-property relationship: Effect of hydroxyl position in alcohols on bubble rise velocity. <i>Minerals Engineering</i> , <b>2016</b> , 92, 1-8	4.9	9
416	Application of bifunctional <i>Mangifera indica</i> L.-loaded <i>Saccharomyces cerevisiae</i> as efficacious biosorbent for bivalent cobalt and nickel cations from different wastewaters: equilibrium and kinetic studies. <b>2016</b> , 57, 8967-8980		8
415	Core-shell structured electrospun nanofibrous membranes for oil/water separation. <b>2016</b> , 6, 41861-41870		53
414	Treatment and toxicity reduction of textile dyeing wastewater using the electrocoagulation-electroflotation process. <b>2016</b> , 51, 661-8		3
413	Alkaline-induced superhydrophilic/underwater superoleophobic polyacrylonitrile membranes with ultralow oil-adhesion for high-efficient oil/water separation. <b>2016</b> , 513, 67-73		125
412	Facile solid-state synthesis of Fe/FeOOH hierarchical nanostructures assembled from ultrathin nanosheets and their application in water treatment. <b>2016</b> , 18, 8465-8471		5
411	Translational viscous drags of an ellipsoid straddling an interface between two fluids. <b>2016</b> , 94, 012602		8
410	Application of industrial ecology in water utilization of coal chemical industry: A case study in Erdos, China. <b>2016</b> , 135, 20-29		31
409	The effect of aeration on advanced coagulation, flotation and advanced oxidation processes for color removal from wastewater. <b>2016</b> , 223, 75-80		19

408	Flotation: A promising microalgae harvesting and dewatering technology for biofuels production. <b>2016</b> , 11, 315-26		42
407	Bio-treatment and water reuse as feasible treatment approaches for improving wastewater management during flotation of copper ores. <b>2016</b> , 13, 2505-2520		11
406	Harvesting of microalgae biomass from the phycoremediation process of greywater. <b>2016</b> , 23, 24624-24641		32
405	Analysis of attachment process of bubbles to high-density oil: Influence of bubble size and water chemistry. <b>2016</b> , 68, 192-200		10
404	Results of fibre and toner flotation depending on oleic acid dosage. <b>2016</b> , 34, 969-74		
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402	Evaluating the primary and ready biodegradability of dianilinodithiophosphoric acid. <b>2016</b> , 188, 232		2
401	Frother structure-property relationship: Aliphatic alcohols and bubble rise velocity. <i>Minerals Engineering</i> , <b>2016</b> , 96-97, 33-38	4.9	15
400	A Co <sub>3</sub> O <sub>4</sub> nano-needle mesh for highly efficient, high-flux emulsion separation. <b>2016</b> , 4, 12014-12019		87
399	Colloidal particle adsorption at liquid interfaces: capillary driven dynamics and thermally activated kinetics. <b>2016</b> , 12, 6365-72		20
398	Electrospun fibers for oil/water separation. <b>2016</b> , 6, 12868-12884		137
397	Offshore produced water management: A review of current practice and challenges in harsh/Arctic environments. <b>2016</b> , 104, 7-19		74
396	Flotation harvesting of microalgae. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 58, 75-86	16.2	116
395	Cyclonic state micro-bubble flotation column in oil-in-water emulsion separation. <b>2016</b> , 165, 101-106		51
394	Methods of arsenic wastes recycling: Focus on flotation. <b>2016</b> , 214, 37-45		14
393	Removal of sulfate ions by dissolved air flotation (DAF) following precipitation and flocculation. <b>2016</b> , 149, 1-8		56
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391	Understanding the separations of oil/water mixtures from immiscible to emulsions on super-wettable surfaces. <b>2016</b> , 13, 1-29		77

390	Separation of amine-insoluble species by flotation with nano and microbubbles. <i>Minerals Engineering</i> , <b>2016</b> , 89, 24-29	4.9	55
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388	A novel modification and selective route for the adsorption of Pb <sup>2+</sup> by oak charcoal functionalized with glutaraldehyde. <b>2016</b> , 27, 631-637		15
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386	Effects of process water recycling during flotation of copper and cobalt oxidised ores from Luiswishi deposit in the Democratic Republic of Congo. <b>2016</b> , 57, 15326-15342		2
385	Flotation of Mineral and Dyes: A Laboratory Experiment for Separation Method Molecular Hitchhikers. <b>2016</b> , 93, 708-712		3
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383	Capturing Cd(ii) and Pb(ii) from contaminated water sources by electro-deposition on hydrocalcite-like compounds. <b>2016</b> , 18, 1838-45		30
382	Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. <b>2016</b> , 157, 141-161		743
381	Optimizing the addition of flocculants for recycling mineral-processing wastewater. <b>2016</b> , 19, 83-88		10
380	Application of low purity horseradish peroxidase enzyme to removal of oil from oily wastewater. <b>2016</b> , 57, 19760-19767		3
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377	New Poly(aniline-co-o-phenylenediamine)/Kaolinite Microcomposites for Water Decontamination. <b>2017</b> , 25, 35-45		26
376	Switchable oil/water separation with efficient and robust Janus nanofiber membranes. <b>2017</b> , 115, 477-485		100
375	Removal of Cs <sup>+</sup> , Sr <sup>2+</sup> , and Co <sup>2+</sup> Ions from the Mixture of Organics and Suspended Solids Aqueous Solutions by Zeolites. <b>2017</b> , 49, 556-561		39
374	In situ surface modification of thin film composite forward osmosis membranes with sulfonated poly(arylene ether sulfone) for anti-fouling in emulsified oil/water separation. <b>2017</b> , 527, 26-34		57
373	Copolymer based on lauryl methacrylate and poly(ethylene glycol) methyl ether methacrylate as amphiphilic macro surfactant: Synthesis, characterization and their application as dispersing agent for carbon nanotubes. <b>2017</b> , 87, 308-317		15



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371	Application of House of Quality in assessment of seawater pretreatment technologies. <b>2017</b> , 148, 223-232	19
370	Life cycle analysis of a large-scale limonene production facility utilizing filamentous N <sub>2</sub> -fixing cyanobacteria. <b>2017</b> , 23, 1-11	15
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367	Bioinspired, Mechano-Regulated Interfaces for Rationally Designed, Dynamically Controlled Collection of Oil Spills from Water. <b>2017</b> , 1, 1600014	6
366	Molecular Dynamics Study of the Bulk and Interface Properties of Frother and Oil with Saltwater and Air. <b>2017</b> , 121, 2788-2796	9
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364	Production of Protein Concentrate and 1,3-Propanediol by Wheat-Based Thin Stillage Fermentation. <b>2017</b> , 65, 3858-3867	8
363	Facilitated Transport of Cd(II) Through Supported Liquid Membrane with Tridodecylamine as Carrier. <b>2017</b> , 34, 585-598	6
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361	Superhydrophilic and underwater superoleophobic nanofibrous membrane with hierarchical structured skin for effective oil-in-water emulsion separation. <b>2017</b> , 5, 497-502	253
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358	Ion adsorption and desorption behaviors of thermosensitive NIPAM-co-DMAAPS gel by temperature swing. <b>2017</b> ,	5
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356	Evaluation of sorptive flotation technique for enhanced removal of radioactive Eu(III) from aqueous solutions. <b>2017</b> , 105, 205-213	8
355	Numerical studies on dynamic characteristics of oil-water separation in loop flotation column using a population balance model. <b>2017</b> , 176, 134-144	18

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353	Automation and Control of a Dissolved Air Flotation Pilot Plant. <b>2017</b> , 50, 3911-3916	4
352	Enhanced Hydrophilic and Antipollution Properties of PES Membrane by Anchoring SiO <sub>2</sub> /HPAN Nanomaterial. <b>2017</b> , 5, 7812-7823	18
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350	Effect of bubble size on bubble-particle attachment and film drainage kinetics - A theoretical study. <b>2017</b> , 322, 140-146	15
349	Surface functionalization of TFC FO membranes with zwitterionic polymers: Improvement of antifouling and salt-responsive cleaning properties. <b>2017</b> , 544, 368-377	50
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346	The hydrophobic force for bubble-particle attachment in flotation - a brief review. <b>2017</b> , 19, 24421-24435	36
345	Management and dewatering of brines extracted from geologic carbon storage sites. <b>2017</b> , 63, 194-214	15
344	Biopolymers for dye removal via foam separation. <b>2017</b> , 188, 451-457	35
343	Micro and nanobubble technologies as a new horizon for water-treatment techniques: A review. <b>2017</b> , 246, 40-51	233
342	Recovery of perfluorooctane sulfonate (PFOS) and perfluorooctanoate (PFOA) from dilute water solution by foam flotation. <b>2017</b> , 173, 280-285	32
341	Microalgae as a potential source for biodiesel production: techniques, methods, and other challenges. <b>2017</b> , 41, 761-789	51
340	CFD simulation of oil/water separation characteristics in a compact flotation unit by population balance modeling. <b>2017</b> , 38, 1435-1447	8
339	Microbubble Generation with the Aid of a Centrifugal Pump. <b>2017</b> , 40, 138-144	4
338	Treatment of industrial wastewater contaminated with recalcitrant metal working fluids by the photo-Fenton process as post-treatment for DAF. <b>2017</b> , 45, 412-420	24
337	Surface modified glass fiber membranes with superior chemical and thermal resistance for O/W separation. <b>2017</b> , 309, 30-40	32

336	Application of micro-bubbles on oral care. <b>2017</b> , 25, 1195-1200	
335	Dissolved Air Flotation with Saturation of Liquid in Spray-Type Saturator. <b>2017</b> , 262, 012222	1
334	A review of treating oily wastewater. <b>2017</b> , 10, S1913-S1922	342
333	Metal Removal by Seaweed Biomass. <b>2017</b> ,	4
332	Electroflotation of precipitated phosphate from synthetic solution. <b>2017</b> , 34, 821-830	2
331	Preparation and Investigation of Foaming Amphiphilic Fluorinated Nanoparticles for Enhanced Oil Recovery. <b>2017</b> , 10,	7
330	Processing Techniques of Algae-Based Materials. <b>2017</b> , 671-686	
329	Methodologies for removal of heavy metal ions from wastewater: an overview. <b>2017</b> , 18, 124	48
328	Novel Fluorinated Tensioactive Extractant Combined with Flotation for Decontamination of Extractant Residual during Solvent Extraction. <b>2017</b> , 104, 012014	
327	The Use of Acrylic-Based Polymers in Environmental Remediation Studies. <b>2017</b> ,	2
326	Numerical investigation of COD reduction in compact bioreactor with bubble plumes. <b>2018</b> , 185, 1-17	3
325	Microalgae harvesting techniques: A review. <b>2018</b> , 217, 499-508	239
324	The application of atomic force microscopy in mineral flotation. <b>2018</b> , 256, 373-392	72
323	Intelligent environmental nanomaterials. <b>2018</b> , 5, 811-836	42
322	Treatment and reclamation of hydrocarbon-bearing oily wastewater as a hazardous pollutant by different processes and technologies: a state-of-the-art review. <b>2018</b> , 35, 73-108	30
321	Fungal-Based Nanotechnology for Heavy Metal Removal. <b>2018</b> , 229-253	2
320	Nanotechnology, Food Security and Water Treatment. <b>2018</b> ,	5
319	Highly efficient recovery of graphene oxide by froth flotation using a common surfactant. <b>2018</b> , 135, 164-170	9

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317	Venturi-type injection system as a potential H <sub>2</sub> mass transfer technology for full-scale in situ biomethanation. <b>2018</b> , 222, 840-846	32
316	Photoautotrophic Microalgal Cultivation and Conversion. <b>2018</b> , 81-115	3
315	High-rate anaerobic treatment system for solid/lipid-rich wastewater using anaerobic baffled reactor with scum recovery. <b>2018</b> , 263, 145-152	25
314	Flotation technique: Its mechanisms and design parameters. <b>2018</b> , 127, 249-270	65
313	Enhanced removal of mixed metal ions from aqueous solutions using flotation by colloidal gas aphanes stabilized with sodium alginate. <b>2018</b> , 202, 103-110	23
312	Removal of diatom <i>Nitzschia</i> sp. cells via ozonation process catalyzed by martite nanoparticles. <b>2018</b> , 186, 475-489	5
311	The dynamics of rising oil-coated bubbles: experiments and simulations. <b>2018</b> , 14, 2724-2734	10
310	Melanoidin removal from aqueous systems by a hybrid flotation-filtration technique. <b>2018</b> , 93, 2422-2428	7
309	Research of novel process route and scale-up based on oil-water separation flotation column. <b>2018</b> , 8, 111-122	3
308	Adsorption of sodium dodecyl sulfate onto precipitate in treatment of vat dark blue BO by dissolved air flotation. <b>2018</b> , 39, 1908-1913	2
307	Ultrahigh flux of polydopamine-coated PVDF membranes quenched in air via thermally induced phase separation for oil/water emulsion separation. <b>2018</b> , 192, 348-359	61
306	A novel photocatalytic membrane decorated with RGO-Ag-TiO <sub>2</sub> for dye degradation and oil/water emulsion separation. <b>2018</b> , 93, 761-775	47
305	An ultrasound-conductivity method for measuring gas holdup in a microbubble-based gas-liquid system. <b>2018</b> , 96, 1005-1011	5
304	An innovative unit operation of particle separation/classification by irradiating low-frequency ultrasound into water. <b>2018</b> , 64, 1564-1572	2
303	Contact angle and vacuum floatability of ultrafine size particles. <b>2018</b> , 53, 999-1005	2
302	Challenges and opportunities in the removal of sulphate ions in contaminated mine water: A review. <i>Minerals Engineering</i> , <b>2018</b> , 117, 74-90	4-9 95
301	New Water Treatment Index System toward Zero Liquid Discharge for Sustainable Coal Chemical Processes. <b>2018</b> , 6, 1370-1378	29

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293	Two-step modification towards enhancing the adsorption capacity of fly ash for both inorganic Cu(II) and organic methylene blue from aqueous solution. <b>2018</b> , 25, 36449-36461		8
292	Solid-liquid separation: an emerging issue in heavy metal wastewater treatment. <b>2018</b> , 25, 17250-17267		12
291	Nutrient removal and biomass production: advances in microalgal biotechnology for wastewater treatment. <b>2018</b> , 38, 1244-1260		49
290	The rising behaviors of single bubbles in stagnant turpentine and pine resin solutions. <b>2018</b> , 98, 170-180		13
289	Adsorption of hexavalent chromium in aqueous solution on activated carbon prepared from apple peels. <b>2018</b> , 7, 9-16		149
288	Synthesis of amphiphilic fluorinated Janus particles with applications in stabilizing surfactant-free foams. <b>2018</b> , 41, 112-117		2
287	Activated Biochar as an Effective Sorbent for Organic and Inorganic Contaminants in Water. <b>2018</b> , 229, 1		33
286	Design of Wastewater Bioremediation Plant and Systems. <b>2018</b> , 265-313		2
285	Optimal design and control of Eastman organic wastewater treatment process. <b>2018</b> , 198, 333-350		19
284	Use of bacterial biosurfactants as natural collectors in the dissolved air flotation process for the treatment of oily industrial effluent. <b>2018</b> , 41, 1599-1610		9
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278	A comprehensive review on harvesting of microalgae for biodiesel [Key challenges and future directions. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 91, 1103-1120	16.2	148
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274	Process optimization via response surface methodology in the physico-chemical treatment of vegetable oil refinery wastewater. <b>2019</b> , 26, 18993-19011		22
273	The process analysis and dynamic force calculation of an air bubble detaching from a flat coal surface. <b>2019</b> , 1-11		
272	Remediation of Textile Effluents via Physical and Chemical Methods for a Safe Environment. <b>2019</b> , 191-234		3
271	A mechanistic model for oil recovery in a region of high oil droplet concentration from multiphase fermentations. <b>2019</b> , 3, 100033		4
270	Coalescence or Bounce? How Surfactant Adsorption in Milliseconds Affects Bubble Collision. <b>2019</b> , 10, 5662-5666		9
269	Bulk nanobubbles in the mineral and environmental areas: Updating research and applications. <b>2019</b> , 271, 101992		55
268	A review of the applications of ion flotation: wastewater treatment, mineral beneficiation and hydrometallurgy. <b>2019</b> , 9, 20226-20239		39
267	Ultrafast nano-structuring of superwetting Ti foam with robust antifouling and stability towards efficient oil-in-water emulsion separation. <b>2019</b> , 11, 17607-17614		67
266	A system of conservation laws with discontinuous flux modelling flotation with sedimentation. <b>2019</b> , 84, 930-973		5
265	Opposite superwetting magnetic stainless-steel mesh for multiple types of oil/water separation. <b>2019</b> , 6, 105548		1

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263	Intelligent Micro/Nanomotors in Environmental Sensing and Remediation. <b>2019</b> , 227-264		
262	Protein Skimming, Flotation, Coagulation and Flocculation. <b>2019</b> , 97-133		
261	Cardiac Surgery without Donor Blood Transfusion at a Referral Cardiac Institute in Bangladesh. <b>2019</b> , 5, 53-58		
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259	Efficient microalgae harvesting using a thermal flotation method with response surface methodology. <b>2019</b> , 80, 426-436		3
258	Photoswitchable de/adsorption of an azobenzene-derived surfactant on a silica surface. <b>2019</b> , 21, 21030-21037		4
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256	Synthesis of activated carbon from biowaste of fir bark for methylene blue removal. <b>2019</b> , 6, 190523		6
255	Microbubble generation with shear flow on large-area membrane for fine particle flotation. <b>2019</b> , 145, 107671		12
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253	Regeneration and reuse of bio-surfactant to produce colloidal gas aphrons for heavy metal ions removal using single and multistage cascade flotation. <b>2019</b> , 217, 493-502		27
252	Feasibility of Microalgal Technologies in Pathogen Removal from Wastewater. <b>2019</b> , 237-268		2
251	New terpolymer-matrix microcomposites for heavy metal removal. <b>2019</b> , 56, 887-898		11
250	Estimation of flotation rate constant and particle-bubble interactions considering key hydrodynamic parameters and their interrelations. <i>Minerals Engineering</i> , <b>2019</b> , 141, 105836	4-9	24
249	Treatment of oily effluent using a low-cost biosurfactant in a flotation system. <b>2019</b> , 30, 335-350		13
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