

Piet Lens

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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.

624
papers

21,287
citations

70
h-index

112
g-index

655
ext. papers

24,743
ext. citations

6.4
avg, IF

7.42
L-index

#	Paper	IF	Citations
624	Pretreatment methods to enhance anaerobic digestion of organic solid waste. <i>Applied Energy</i> , 2014 , 123, 143-156	10.7	563
623	A review on dark fermentative biohydrogen production from organic biomass: Process parameters and use of by-products. <i>Applied Energy</i> , 2015 , 144, 73-95	10.7	554
622	Anaerobic sludge granulation. <i>Water Research</i> , 2004 , 38, 1376-89	12.5	452
621	Biotechnological Treatment of Sulfate-Rich Wastewaters. <i>Critical Reviews in Environmental Science and Technology</i> , 1998 , 28, 41-88	11.1	355
620	Microbial fuel cells for sulfide removal. <i>Environmental Science & Technology</i> , 2006 , 40, 5218-24	10.3	321
619	The ins and outs of microorganism-electrode electron transfer reactions. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	276
618	The essential toxin: the changing perception of selenium in environmental sciences. <i>Science of the Total Environment</i> , 2009 , 407, 3620-33	10.2	268
617	Metals removal and recovery in bioelectrochemical systems: A review. <i>Bioresource Technology</i> , 2015 , 195, 102-14	11	250
616	Low-frequency ultrasound in biotechnology: state of the art. <i>Trends in Biotechnology</i> , 2009 , 27, 298-306	15.1	247
615	Selenium: environmental significance, pollution, and biological treatment technologies. <i>Biotechnology Advances</i> , 2016 , 34, 886-907	17.8	231
614	Ecology and biotechnology of selenium-respiring bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2015 , 79, 61-80	13.2	226
613	Extraction of extracellular polymeric substances (EPS) from anaerobic granular sludges: comparison of chemical and physical extraction protocols. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1589-99	5.7	196
612	Anaerobic treatment of sulphate-containing waste streams. <i>Antonie Van Leeuwenhoek</i> , 1995 , 67, 29-46	2.1	193
611	Biological and Bioelectrochemical Recovery of Critical and Scarce Metals. <i>Trends in Biotechnology</i> , 2016 , 34, 137-155	15.1	187
610	Metal immobilisation by biofilms: Mechanisms and analytical tools. <i>Reviews in Environmental Science and Biotechnology</i> , 2003 , 2, 9-33	13.9	170
609	Treatment of Waste Gases Contaminated with Odorous Sulfur Compounds. <i>Critical Reviews in Environmental Science and Technology</i> , 1998 , 28, 89-117	11.1	168
608	Anaerobic treatment of sulphate-rich wastewaters. <i>Biodegradation</i> , 1998 , 9, 213-24	4.1	167

607	Electron donors for autotrophic denitrification. <i>Chemical Engineering Journal</i> , 2019 , 362, 922-937	14.7	160
606	Developments in Bioremediation of Soils and Sediments Polluted with Metals and Radionuclides □ 1. Microbial Processes and Mechanisms Affecting Bioremediation of Metal Contamination and Influencing Metal Toxicity and Transport. <i>Reviews in Environmental Science and Biotechnology</i> , 2005 , 4, 115-156	13.9	155
605	Selenium biomineralization for biotechnological applications. <i>Trends in Biotechnology</i> , 2015 , 33, 323-30	15.1	153
604	Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems. <i>Bioresource Technology</i> , 2016 , 215, 173-185	11	152
603	Fungal pelleted reactors in wastewater treatment: Applications and perspectives. <i>Chemical Engineering Journal</i> , 2016 , 283, 553-571	14.7	138
602	Removal of heavy metals and cyanide from gold mine wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2010 , 85, 590-613	3.5	137
601	Electronic waste as a secondary source of critical metals: Management and recovery technologies. <i>Resources, Conservation and Recycling</i> , 2018 , 135, 296-312	11.9	133
600	Two-step bioleaching of copper and gold from discarded printed circuit boards (PCB). <i>Waste Management</i> , 2016 , 57, 149-157	8.6	126
599	Removal of estrone, 17alpha-ethinylestradiol, and 17beta-estradiol in algae and duckweed-based wastewater treatment systems. <i>Environmental Science and Pollution Research</i> , 2010 , 17, 824-33	5.1	121
598	Sulfide-iron interactions in domestic wastewater from a gravity sewer. <i>Water Research</i> , 2005 , 39, 2747-55	2.5	120
597	Trace Metals in Anaerobic Granular Sludge Reactors: Bioavailability and Dosing Strategies. <i>Engineering in Life Sciences</i> , 2006 , 6, 293-301	3.4	120
596	Sustainable sanitation technology options for urban slums. <i>Biotechnology Advances</i> , 2012 , 30, 964-78	17.8	118
595	Photo-oxygenation to support nitrification in an algal-bacterial consortium treating artificial wastewater. <i>Bioresource Technology</i> , 2013 , 134, 244-50	11	118
594	Distribution of sulfate-reducing and methanogenic bacteria in anaerobic aggregates determined by microsensor and molecular analyses. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 4618-29	4.8	118
593	Extracellular polymeric substances govern the surface charge of biogenic elemental selenium nanoparticles. <i>Environmental Science & Technology</i> , 2015 , 49, 1713-20	10.3	117
592	Enhanced anaerobic digestion of food waste by thermal and ozonation pretreatment methods. <i>Journal of Environmental Management</i> , 2014 , 146, 142-149	7.9	117
591	Selenate removal in methanogenic and sulfate-reducing upflow anaerobic sludge bed reactors. <i>Water Research</i> , 2008 , 42, 2184-94	12.5	111
590	Heavy metal removal in duckweed and algae ponds as a polishing step for textile wastewater treatment. <i>Ecological Engineering</i> , 2012 , 44, 102-110	3.9	110

589	The Anaerobic Digestion of Rice Straw: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 895-915	11.1	110
588	Effect of upward velocity and sulphide concentration on volatile fatty acid degradation in a sulphidogenic granular sludge reactor. <i>Process Biochemistry</i> , 1996 , 31, 699-710	4.8	110
587	Application of bacteria involved in the biological sulfur cycle for paper mill effluent purification. <i>Science of the Total Environment</i> , 2009 , 407, 1333-43	10.2	107
586	Comparison of three sequential extraction procedures to describe metal fractionation in anaerobic granular sludges. <i>Talanta</i> , 2005 , 65, 549-58	6.2	107
585	Chemolithotrophic denitrification in biofilm reactors. <i>Chemical Engineering Journal</i> , 2015 , 280, 643-657	14.7	104
584	Cluster structure of anaerobic aggregates of an expanded granular sludge bed reactor. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 3683-92	4.8	103
583	Adsorption of zinc by biogenic elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2015 , 260, 855-863	14.7	101
582	Increased biogas production from wheat straw by chemical pretreatments. <i>Renewable Energy</i> , 2018 , 119, 608-614	8.1	99
581	Enhancement of aerobic granulation and nutrient removal by an algal-bacterial consortium in a lab-scale photobioreactor. <i>Chemical Engineering Journal</i> , 2018 , 334, 2373-2382	14.7	99
580	High rate sulfate reduction in a submerged anaerobic membrane bioreactor (SAMBaR) at high salinity. <i>Journal of Membrane Science</i> , 2005 , 253, 217-232	9.6	98
579	Metal supplementation to UASB bioreactors: from cell-metal interactions to full-scale application. <i>Science of the Total Environment</i> , 2009 , 407, 3652-67	10.2	97
578	Application of Quantitative Microbial Risk Assessment to analyze the public health risk from poor drinking water quality in a low income area in Accra, Ghana. <i>Science of the Total Environment</i> , 2013 , 449, 134-42	10.2	92
577	Combined removal of sulfur compounds and nitrate by autotrophic denitrification in bioaugmented activated sludge system. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 551-60	4.9	92
576	Microalgal-bacterial consortia: From interspecies interactions to biotechnological applications. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 118, 109563	16.2	92
575	Impacts of sulfur source and temperature on sulfur-driven denitrification by pure and mixed cultures of Thiobacillus. <i>Process Biochemistry</i> , 2016 , 51, 1576-1584	4.8	91
574	LONG-TERM COMPETITION BETWEEN SULPHATE-REDUCING AND METHANE-PRODUCING BACTERIA DURING FULL-SCALE ANAEROBIC TREATMENT OF CITRIC ACID PRODUCTION WASTEWATER. <i>Water Research</i> , 1998 , 32, 815-825	12.5	89
573	Desulfotomaculum carboxydvorans sp. nov., a novel sulfate-reducing bacterium capable of growth at 100% CO ₂ . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005 , 55, 2159-2165	2.2	88
572	Effect of ammoniacal nitrogen on one-stage and two-stage anaerobic digestion of food waste. <i>Waste Management</i> , 2015 , 38, 388-98	8.6	86

571	Performance of a sulfide-oxidizing expanded-bed reactor supplied with dissolved oxygen. <i>Biotechnology and Bioengineering</i> , 1997 , 53, 32-40	4.9	86
570	Microbial community composition and ultrastructure of granules from a full-scale anammox reactor. <i>Microbial Ecology</i> , 2015 , 70, 118-31	4.4	85
569	Microbial CO conversions with applications in synthesis gas purification and bio-desulfurization. <i>Critical Reviews in Biotechnology</i> , 2006 , 26, 41-65	9.4	85
568	Dark fermentation of complex waste biomass for biohydrogen production by pretreated thermophilic anaerobic digestate. <i>Journal of Environmental Management</i> , 2015 , 152, 43-8	7.9	83
567	Quantification of microbial risks to human health caused by waterborne viruses and bacteria in an urban slum. <i>Journal of Applied Microbiology</i> , 2014 , 116, 447-63	4.7	83
566	Removal of Cu(II) by biosorption onto coconut shell in fixed-bed column systems. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 841-848	6.3	81
565	Extension of Anaerobic Digestion Model No. 1 with processes of sulfate reduction. <i>Applied Biochemistry and Biotechnology</i> , 2003 , 109, 33-45	3.2	81
564	Production of biohythane from food waste via an integrated system of continuously stirred tank and anaerobic fixed bed reactors. <i>Bioresource Technology</i> , 2016 , 220, 312-322	11	77
563	Selective precipitation of Cu from Zn in a pS controlled continuously stirred tank reactor. <i>Journal of Hazardous Materials</i> , 2009 , 165, 256-65	12.8	77
562	Developments and constraints in fermentative hydrogen production. <i>Biofuels, Bioproducts and Biorefining</i> , 2007 , 1, 201-214	5.3	76
561	Sorption of cobalt and nickel on anaerobic granular sludges: isotherms and sequential extraction. <i>Chemosphere</i> , 2005 , 58, 493-505	8.4	76
560	Sulfate reducing and methane producing bacteria in aerobic wastewater treatment systems. <i>Water Research</i> , 1995 , 29, 871-880	12.5	75
559	Anaerobic treatment of partly acidified wastewater in a two-stage expanded granular sludge bed (EGSB) system at 8°C. <i>Water Science and Technology</i> , 1997 , 36, 317-324	2.2	74
558	Perspectives of sulfate reducing bioreactors in environmental biotechnology. <i>Reviews in Environmental Science and Biotechnology</i> , 2002 , 1, 311-325	13.9	74
557	Acid Mine Drainage Treatment in Fluidized-Bed Bioreactors by Sulfate-Reducing Bacteria: A Critical Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 2545-2580	11.1	72
556	Enrichment of anaerobic methanotrophs in sulfate-reducing membrane bioreactors. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 458-70	4.9	72
555	Effect of NaCl on thermophilic (55 degrees C) methanol degradation in sulfate reducing granular sludge reactors. <i>Water Research</i> , 2003 , 37, 2269-80	12.5	71
554	Selection of sustainable sanitation technologies for urban slums--a case of Bwaise III in Kampala, Uganda. <i>Science of the Total Environment</i> , 2010 , 409, 52-62	10.2	70

553	Metal chalcogenide quantum dots: biotechnological synthesis and applications. <i>RSC Advances</i> , 2016 , 6, 41477-41495	3.7	70
552	Characterization of the mineral fraction associated to extracellular polymeric substances (EPS) in anaerobic granular sludges. <i>Environmental Science & Technology</i> , 2010 , 44, 412-8	10.3	69
551	Biological reduction of nitric oxide in aqueous Fe(II)EDTA solutions. <i>Biotechnology Progress</i> , 2003 , 19, 1323-8	2.8	67
550	Phytoremediation of Landfill Leachate with <i>Colocasia esculenta</i> , <i>Gynerum sagittatum</i> and <i>Heliconia psittacorum</i> in Constructed Wetlands. <i>International Journal of Phytoremediation</i> , 2015 , 17, 16-24	3.9	65
549	Trace elements dosing and alkaline pretreatment in the anaerobic digestion of rice straw. <i>Bioresource Technology</i> , 2018 , 247, 897-903	11	65
548	Effects of operational parameters on dark fermentative hydrogen production from biodegradable complex waste biomass. <i>Waste Management</i> , 2016 , 50, 55-64	8.6	65
547	Distribution of extracellular polysaccharides and flotation of anaerobic sludge. <i>Applied Microbiology and Biotechnology</i> , 1996 , 46, 197-201	5.7	64
546	Direct treatment of domestic wastewater by percolation over peat, bark and woodchips. <i>Water Research</i> , 1994 , 28, 17-26	12.5	63
545	Copper Metallurgical Slags [Current Knowledge and Fate: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 2424-2488	11.1	62
544	Carbon monoxide conversion by anaerobic bioreactor sludges. <i>FEMS Microbiology Ecology</i> , 2003 , 44, 271-273	4.3	62
543	Effect of staging on volatile fatty acid degradation in a sulfidogenic granular sludge reactor. <i>Water Research</i> , 1998 , 32, 1178-1192	12.5	61
542	Biosorption of Pb(II) Ions from Aqueous Solutions by Waste Biomass from Biotrickling Filters: Kinetics, Isotherms, and Thermodynamics. <i>Journal of Environmental Engineering, ASCE</i> , 2016 , 142,	2	60
541	Biobleaching of metals from WEEE shredding dust. <i>Journal of Environmental Management</i> , 2018 , 210, 180-190	7.9	60
540	Removal of colloidal biogenic selenium from wastewater. <i>Chemosphere</i> , 2015 , 125, 130-8	8.4	59
539	Environmental performance comparison of bioplastics and petrochemical plastics: A review of life cycle assessment (LCA) methodological decisions. <i>Resources, Conservation and Recycling</i> , 2021 , 168, 105451	11.9	58
538	Performance comparison and economics analysis of waste stabilization ponds and horizontal subsurface flow constructed wetlands treating domestic wastewater: a case study of the Juja sewage treatment works. <i>Journal of Environmental Management</i> , 2013 , 128, 220-5	7.9	57
537	Degradation of methanethiol by methylotrophic methanogenic archaea in a lab-scale upflow anaerobic sludge blanket reactor. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 7540-7	4.8	56
536	Viscosity evolution of anaerobic granular sludge. <i>Biochemical Engineering Journal</i> , 2006 , 27, 315-322	4.2	56

535	Anaerobic bioprocessing of organic wastes. <i>World Journal of Microbiology and Biotechnology</i> , 1996 , 12, 221-38	4.4	56
534	Mathematical modelling as a tool to study population dynamics between sulfate reducing and methanogenic bacteria. <i>Biodegradation</i> , 1998 , 9, 187-99	4.1	55
533	Biohydrogen production from food waste by coupling semi-continuous dark-photofermentation and residue post-treatment to anaerobic digestion: A synergy for energy recovery. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16045-16055	6.7	54
532	Bioaugmentation of UASB reactors with immobilized <i>Sulfurospirillum barnesii</i> for simultaneous selenate and nitrate removal. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 377-88	5.7	54
531	Leaching and selective zinc recovery from acidic leachates of zinc metallurgical leach residues. <i>Journal of Hazardous Materials</i> , 2017 , 324, 71-82	12.8	53
530	Effect of temperature on selenium removal from wastewater by UASB reactors. <i>Water Research</i> , 2016 , 94, 146-154	12.5	53
529	Algae based microbial fuel cells for wastewater treatment and recovery of value-added products. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 132, 110041	16.2	53
528	Fluorescence detection to determine proteins and humic-like substances fingerprints of exopolymeric substances (EPS) from biological sludges performed by size exclusion chromatography (SEC). <i>Bioresource Technology</i> , 2013 , 131, 159-65	11	52
527	Growth of anaerobic methane-oxidizing archaea and sulfate-reducing bacteria in a high-pressure membrane capsule bioreactor. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1286-96	4.8	52
526	Characterization of the diffusive properties of biofilms using pulsed field gradient-nuclear magnetic resonance. <i>Biotechnology and Bioengineering</i> , 1998 , 60, 283-91	4.9	52
525	Use of biogenic sulfide for ZnS precipitation. <i>Separation and Purification Technology</i> , 2006 , 51, 31-39	8.3	52
524	Heterogeneous Distribution of Microbial Activity in Methanogenic Aggregates: pH and Glucose Microprofiles. <i>Applied and Environmental Microbiology</i> , 1993 , 59, 3803-15	4.8	52
523	Effect of sulfide concentration on the location of the metal precipitates in inversed fluidized bed reactors. <i>Journal of Hazardous Materials</i> , 2011 , 192, 200-7	12.8	51
522	Effects of extraction procedures on metal binding properties of extracellular polymeric substances (EPS) from anaerobic granular sludges. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 80, 161-8	6	51
521	Effect of feed composition and upflow velocity on aggregate characteristics in anaerobic upflow reactors. <i>Applied Microbiology and Biotechnology</i> , 1997 , 47, 102-107	5.7	51
520	Effect of Na ⁺ and Ca ²⁺ on the aggregation properties of sieved anaerobic granular sludge. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 306, 142-149	5.1	51
519	Microbial synthesis of chalcogenide semiconductor nanoparticles: a review. <i>Microbial Biotechnology</i> , 2016 , 9, 11-21	6.3	51
518	Solvent Pretreatments of Lignocellulosic Materials to Enhance Biogas Production: A Review. <i>Energy & Fuels</i> , 2016 , 30, 1892-1903	4.1	50

517	Quantitative Microbial Risk Analysis to evaluate health effects of interventions in the urban water system of Accra, Ghana. <i>Journal of Water and Health</i> , 2010 , 8, 417-30	2.2	50
516	Selective enrichment of biocatalysts for bioelectrochemical systems: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 109, 10-23	16.2	49
515	Performance Evaluation of Horizontal Subsurface Flow Constructed Wetlands for the Treatment of Domestic Wastewater in the Tropics. <i>Journal of Environmental Engineering, ASCE</i> , 2013 , 139, 358-367	2	49
514	Nitrification by microalgal-bacterial consortia for ammonium removal in flat panel sequencing batch photo-bioreactors. <i>Bioresource Technology</i> , 2017 , 245, 81-89	11	49
513	Elemental sulfur-based autotrophic denitrification and denitritation: microbially catalyzed sulfur hydrolysis and nitrogen conversions. <i>Journal of Environmental Management</i> , 2018 , 211, 313-322	7.9	48
512	Decreased activity of a propionate degrading community in a UASB reactor fed with synthetic medium without molybdenum, tungsten and selenium. <i>Enzyme and Microbial Technology</i> , 2009 , 45, 139-145	2.8	48
511	Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2016 , 284, 917-925	14.7	47
510	Hydrogen Production by the Thermophilic Bacterium <i>Thermotoga neapolitana</i> . <i>International Journal of Molecular Sciences</i> , 2015 , 16, 12578-600	6.3	47
509	Granular sludge in full-scale anaerobic bioreactors: Trace element content and deficiencies. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 337-346	3.8	47
508	The use of microsensors to determine population distributions in UASB aggregates. <i>Water Science and Technology</i> , 1995 , 31, 273-280	2.2	47
507	Design considerations for a farm-scale biogas plant based on pilot-scale anaerobic digesters loaded with rice straw and piggery wastewater. <i>Biomass and Bioenergy</i> , 2012 , 46, 469-478	5.3	46
506	Development and start up of a gas-lift anaerobic membrane bioreactor (GI-AnMBR) for conversion of sewage to energy, water and nutrients. <i>Journal of Membrane Science</i> , 2013 , 441, 158-167	9.6	46
505	Effect of methanogenic substrates on anaerobic oxidation of methane and sulfate reduction by an anaerobic methanotrophic enrichment. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 1499-506	5.7	46
504	Developments in Bioremediation of Soils and Sediments Polluted with Metals and Radionuclides. 3. Influence of Chemical Speciation and Bioavailability on Contaminants Immobilization/Mobilization Bio-processes. <i>Reviews in Environmental Science and Biotechnology</i> , 2005 , 4, 185-212	13.9	46
503	A comparison of fate and toxicity of selenite, biogenically, and chemically synthesized selenium nanoparticles to zebrafish (<i>Danio rerio</i>) embryogenesis. <i>Nanotoxicology</i> , 2017 , 11, 87-97	5.3	45
502	3D model for a secondary facultative pond. <i>Ecological Modelling</i> , 2011 , 222, 1592-1603	3	45
501	Methanol degradation in granular sludge reactors at sub-optimal metal concentrations: role of iron, nickel and cobalt. <i>Enzyme and Microbial Technology</i> , 2003 , 33, 190-198	3.8	45
500	Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge. <i>Bioresource Technology</i> , 2016 , 206, 1-8	11	44

499	Effect of environmental conditions on sulfate reduction with methane as electron donor by an Eckemfde Bay enrichment. <i>Environmental Science & Technology</i> , 2009 , 43, 6553-9	10.3	44
498	Enzymatic versus nonenzymatic conversions during the reduction of EDTA-chelated Fe(III) in BioDeNOx reactors. <i>Environmental Science & Technology</i> , 2005 , 39, 2616-23	10.3	44
497	Effect of carbon monoxide, hydrogen and sulfate on thermophilic (55 degrees C) hydrogenogenic carbon monoxide conversion in two anaerobic bioreactor sludges. <i>Applied Microbiology and Biotechnology</i> , 2004 , 64, 421-8	5.7	44
496	HS removal and microbial community composition in an anoxic biotrickling filter under autotrophic and mixotrophic conditions. <i>Journal of Hazardous Materials</i> , 2019 , 367, 397-406	12.8	44
495	Entrapped elemental selenium nanoparticles affect physicochemical properties of selenium fed activated sludge. <i>Journal of Hazardous Materials</i> , 2015 , 295, 193-200	12.8	43
494	Lead sorption by biochar produced from digestates: Consequences of chemical modification and washing. <i>Journal of Environmental Management</i> , 2018 , 219, 277-284	7.9	43
493	Enhanced methane production from rice straw co-digested with anaerobic sludge from pulp and paper mill treatment process. <i>Bioresource Technology</i> , 2013 , 148, 135-43	11	43
492	Cd(II) and Pb(II) sorption by extracellular polymeric substances (EPS) extracted from anaerobic granular biofilms: Evidence of a pH sorption-edge. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012 , 43, 444-449	5.3	43
491	Selective recovery of nickel over iron from a nickel-iron solution using microbial sulfate reduction in a gas-lift bioreactor. <i>Water Research</i> , 2009 , 43, 853-61	12.5	43
490	NOx removal from flue gas by an integrated physicochemical absorption and biological denitrification process. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 433-41	4.9	43
489	Comparison of Cu, Zn and Fe bioleaching from Cu-metallurgical slags in the presence of <i>Pseudomonas fluorescens</i> and <i>Acidithiobacillus thiooxidans</i> . <i>Applied Geochemistry</i> , 2016 , 68, 39-52	3.5	43
488	Continuous biohydrogen production by thermophilic dark fermentation of cheese whey: Use of buffalo manure as buffering agent. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4861-4869	6.7	42
487	Effect of pH on Cu, Ni and Zn removal by biogenic sulfide precipitation in an inversed fluidized bed bioreactor. <i>Hydrometallurgy</i> , 2015 , 158, 94-100	4	42
486	Effect of sulfur compounds on biological reduction of nitric oxide in aqueous Fe(II)EDTA ²⁻ solutions. <i>Nitric Oxide - Biology and Chemistry</i> , 2006 , 15, 40-9	5	42
485	Effect of specific gas loading rate on thermophilic (55 degrees C) acidifying (pH 6) and sulfate reducing granular sludge reactors. <i>Water Research</i> , 2003 , 37, 1033-47	12.5	42
484	Selenite Reduction by Anaerobic Microbial Aggregates: Microbial Community Structure, and Proteins Associated to the Produced Selenium Spheres. <i>Frontiers in Microbiology</i> , 2016 , 7, 571	5.7	42
483	Selenite reduction and ammoniacal nitrogen removal in an aerobic granular sludge sequencing batch reactor. <i>Water Research</i> , 2018 , 131, 131-141	12.5	42
482	Graphene Facilitates Biomethane Production from Protein-Derived Glycine in Anaerobic Digestion. <i>IScience</i> , 2018 , 10, 158-170	6.1	42

481	Biokinetics of microbial consortia using biogenic sulfur as a novel electron donor for sustainable denitrification. <i>Bioresource Technology</i> , 2018 , 270, 359-367	11	42
480	Effects of selenium oxyanions on the white-rot fungus <i>Phanerochaete chrysosporium</i> . <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 2405-18	5.7	41
479	Hexavalent chromium reduction in a sulfur reducing packed-bed bioreactor. <i>Journal of Hazardous Materials</i> , 2012 , 219-220, 253-9	12.8	41
478	Nickel and cobalt sorption on anaerobic granular sludges: kinetic and equilibrium studies. <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 1219-1227	3.5	41
477	Effect of light intensity on the characteristics of algal-bacterial granular sludge and the role of N-acyl-homoserine lactone in the granulation. <i>Science of the Total Environment</i> , 2019 , 659, 372-383	10.2	41
476	Characterization and pH-dependent leaching behaviour of historical and modern copper slags. <i>Journal of Geochemical Exploration</i> , 2016 , 160, 1-15	3.8	40
475	Metal binding properties of extracellular polymeric substances extracted from anaerobic granular sludges. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 4509-19	5.1	40
474	NMR and MALDI-TOF MS based characterization of exopolysaccharides in anaerobic microbial aggregates from full-scale reactors. <i>Scientific Reports</i> , 2015 , 5, 14316	4.9	40
473	Evaluation of size exclusion chromatography (SEC) for the characterization of extracellular polymeric substances (EPS) in anaerobic granular sludges. <i>Bioresource Technology</i> , 2009 , 100, 6258-68	11	40
472	Effect of cobalt sorption on metal fractionation in anaerobic granular sludge. <i>Journal of Environmental Quality</i> , 2004 , 33, 1256-70	3.4	40
471	Effect of sulfate on methanol degradation in thermophilic (55°C) methanogenic UASB reactors. <i>Enzyme and Microbial Technology</i> , 2003 , 32, 676-687	3.8	40
470	Grey water characterisation and pollutant loads in an urban slum. <i>International Journal of Environmental Science and Technology</i> , 2015 , 12, 423-436	3.3	39
469	Electrocoagulation of colloidal biogenic selenium. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 3127-37	5.1	39
468	<i>Pseudomonas moraviensis</i> subsp. <i>stanleyae</i> , a bacterial endophyte of hyperaccumulator <i>Stanleya pinnata</i> , is capable of efficient selenite reduction to elemental selenium under aerobic conditions. <i>Journal of Applied Microbiology</i> , 2015 , 119, 400-10	4.7	39
467	Zn/Ni sulfide selective precipitation: The role of supersaturation. <i>Separation and Purification Technology</i> , 2010 , 74, 108-118	8.3	39
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2	Role of Extracellular Polymeric Substances (EPS) in Cell Surface Hydrophobicity 2019 , 128-153		
1	Effect of ammonium, electron donor and sulphate transient feeding conditions on sulphidogenesis in sequencing batch bioreactors. <i>Bioresource Technology</i> , 2019 , 276, 288-299	11	