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Extracellular polymeric substances (EPS) of microbial aggregates in biological wastewater treatment systems: a review

DOI: 10.1016/j.biotechadv.2010.08.001

Biotechnology Advances, 2010, 28, 882-94.

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**Version:** 2024-04-10

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2036	Characterisation of the mineral fraction in extracellular polymeric substances (EPS) from activated sludges extracted by eight different methods. <b>2011</b> , 102, 7124-30		25
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2032	Biofouling of water treatment membranes: a review of the underlying causes, monitoring techniques and control measures. <b>2012</b> , 2, 804-40		470
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1670	Mechanistic understanding of reduced AgNP phytotoxicity induced by extracellular polymeric substances. <b>2016</b> , 308, 21-8	34
1669	Extracellular Polymeric Substances Level Determines the Sludge Dewaterability in Bioleaching Process. <b>2016</b> , 142, 04015060	7
1668	Evaluation of energy-distribution of a hybrid microbial fuel cell-membrane bioreactor (MFC-MBR) for cost-effective wastewater treatment. <b>2016</b> , 200, 420-5	56
1667	Simultaneous nitrification-denitrification for the treatment of high-strength nitrogen in hypersaline wastewater by aerobic granular sludge. <b>2016</b> , 88, 329-336	96
1666	A review of anaerobic side-stream reactor for excess sludge reduction: Configurations, mechanisms, and efficiency. <b>2016</b> , 46, 382-405	38
1665	Role of extracellular polymeric substances in enhancement of phosphorus release from waste activated sludge by rhamnolipid addition. <b>2016</b> , 202, 59-66	35

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1663	Formation and performance of partial nitrification granular sludge treating domestic sewage. <b>2016</b> , 57, 3430-3439	4
1662	Glycine induced culture-harvesting strategy for <i>Botryococcus braunii</i> . <b>2016</b> , 121, 424-30	5
1661	Functional metal sulfides and selenides for the removal of hazardous dyes from Water. <b>2016</b> , 159, 33-41	38
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1659	Effects of additional fermented food wastes on nitrogen removal enhancement and sludge characteristics in a sequential batch reactor for wastewater treatment. <b>2016</b> , 23, 12890-9	21
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1657	Adsorptive removal of vinyl polymer tanning agents from aqueous solution using wastewater activated sludge. <b>2016</b> , 57, 11422-11432	2
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1654	Enhanced dewatering of waste-activated sludge by composite hydrolysis enzymes. <b>2016</b> , 39, 627-39	26
1653	Insight into the short- and long-term effects of inorganic phosphate on anammox granule property. <b>2016</b> , 208, 161-169	50
1652	Antibiotic resistance genes as an emerging environmental contaminant. <b>2016</b> , 24, 205-218	101
1651	Effects of total solids content on waste activated sludge thermophilic anaerobic digestion and its sludge dewaterability. <b>2016</b> , 217, 265-70	27
1650	Exploring the relationship between the EPS property and the toxicity of sludge for treating 4-chlorophenol synthetic wastewater in a sequencing batch reactor. <b>2016</b> , 110, 24-31	16
1649	Use of cationic polymers to reduce pathogen levels during dairy manure separation. <b>2016</b> , 166, 260-6	8
1648	Effects of potassium peroxymonosulfate on disintegration of waste sludge and properties of extracellular polymeric substances. <b>2016</b> , 106, 170-177	40
1647	Effect of bio-reduced graphene oxide on anaerobic biotransformation of nitrobenzene in an anaerobic reactor. <b>2016</b> , 37, 39-45	6



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1645	Calcium ion on membrane fouling reduction and biofloculation promotion in membrane bioreactor at high salt shock. <b>2016</b> , 200, 535-40	32
1644	The influences of shear stress on Extracellular Polymeric Substances of activated sludge. <b>2016</b> , 57, 15835-15842	3
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1640	Biofilm formation and extracellular polymeric substances (EPS) production by <i>Bacillus subtilis</i> depending on nutritional conditions in the presence of polyester film. <b>2016</b> , 61, 91-100	14
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1638	Using adsorbent made from sewage sludge to enhance wastewater treatment and control fouling in a membrane bioreactor. <b>2016</b> , 57, 9070-9081	10
1637	Treatment of low-strength municipal wastewater containing phenanthrene using activated sludge and biofilm process. <b>2016</b> , 57, 12047-12057	8
1636	Feasibility study of biodiesel production using lipids of <i>Hermetia illucens</i> larva fed with organic waste. <b>2016</b> , 47, 84-90	80
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1632	Role of Layered Double Hydroxide in Improving the Stability of Aerobic Granular Sludge. <b>2017</b> , 45, 1500943	3
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1629	Biological phosphorus removal in an extended ASM2 model: Roles of extracellular polymeric substances and kinetic modeling. <b>2017</b> , 232, 412-416	20



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1626	Thermodynamics of binding interactions between extracellular polymeric substances and heavy metals by isothermal titration microcalorimetry. <b>2017</b> , 232, 354-363	49
1625	Stratification of Extracellular Polymeric Substances (EPS) for Aggregated Anammox Microorganisms. <b>2017</b> , 51, 3260-3268	194
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1623	Comprehensive utilization of activated sludge for the preparation of hydrolytic enzymes, polyhydroxyalkanoates, and water-retaining organic fertilizer. <b>2017</b> , 47, 611-618	12
1622	Qualitative and quantitative analysis of extracellular polymeric substances in partial nitrification and full nitrification reactors. <b>2017</b> , 240, 171-176	24
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1620	Effects of submerged zone, media aging, and antecedent dry period on the performance of biochar-amended biofilters in removing fecal indicators and nutrients from natural stormwater. <b>2017</b> , 102, 320-330	50
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1618	Formation and Degradation of Soluble Biopolymers during Wet Oxidation of Sludge. <b>2017</b> , 5, 3011-3018	11
1617	Exploiting extracellular polymeric substances (EPS) controlling strategies for performance enhancement of biological wastewater treatments: An overview. <b>2017</b> , 180, 396-411	231
1616	Novel extracellular polymeric substances produced by <i>Cupriavidus necator</i> IPT 027 grown on glucose and crude glycerol originated from biodiesel. <b>2017</b> , 28, 549-556	5
1615	The role of extracellular polymeric substances on carbon capture in a high rate activated sludge A-stage system. <b>2017</b> , 322, 428-434	26
1614	Rhizofiltration of a Bordeaux mixture effluent in pilot-scale constructed wetland using <i>Arundo donax</i> L. coupled with potential Cu-ecocatalyst production. <b>2017</b> , 105, 296-305	22
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1609	Pollutant removal and microorganism evolution of activated sludge under ofloxacin selection pressure. <b>2017</b> , 241, 849-856	50
1608	The investigation of paper mill industry wastewater treatment and activated sludge properties in a submerged membrane bioreactor. <b>2017</b> , 76, 1715-1725	10
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1593	Acidification during aerobic treatment of digested swine wastewater and its effect on pollutant removal. <b>2017</b> , 33, 403-419	5

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1582	Ammonium conversion and its feedback effect on methane oxidation of <i>Methylosinus sporium</i> . <b>2017</b> , 123, 466-473	11
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1579	Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor. <b>2017</b> , 327, 79-88	36
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1573	Citric acid application for denitrification process support in biofilm reactor. <b>2017</b> , 171, 512-519	15
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- <sup>1488</sup> Increasing the bioflocculant production and identifying the effect of overexpressing *epsB* on the synthesis of polysaccharide and  $\alpha$ -PGA in *Bacillus licheniformis*. **2017**, 16, 163 12
- <sup>1487</sup> Characterisation of extracellular polymeric substances from different cyanobacterial species and their influence on biocalcification processes. **2017**, 14, 254 3
- <sup>1486</sup> DISINTEGRATION AND SOLUBILISATION OF ACTIVATED SLUDGE FROM RUBBER PROCESSING INDUSTRY BY OZONATION. **2017**, 80,
- <sup>1485</sup> Combined polyhydroxyalkanoates (PHA) and 1,3-propanediol production from crude glycerol: Selective conversion of volatile fatty acids into PHA by mixed microbial consortia. **2018**, 136, 180-191 38



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1461	Anti-fouling characteristic of carbon nanotubes hollow fiber membranes by filtering natural organic pollutants. <b>2018</b> , 35, 964-973	14
1460	Altered biofilm formation at plasma bonded surfaces in microchannels studied by attenuated total reflection infrared spectroscopy. <b>2018</b> , 676, 56-60	12
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1454	Hydrolysis, adsorption, and biodegradation of bensulfuron methyl under methanogenic conditions. <b>2018</b> , 199, 138-146	15
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1451	Optimization of F/M ratio for stability of aerobic granular process via quantitative sludge discharge. <b>2018</b> , 252, 150-156	51
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1434	Purification and molecular weight distribution of a key exopolysaccharide component of <i>Bacillus megaterium</i> TF10. <b>2018</b> , 63, 9-15	7
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1432	Determination of quorum-sensing signal substances in water and solid phases of activated sludge systems using liquid chromatography-mass spectrometry. <b>2018</b> , 69, 85-94	22
1431	Nitrate removal and extracellular polymeric substances of autohydrogenotrophic bacteria under various pH and hydrogen flow rates. <b>2018</b> , 63, 50-57	9

1430	Fast start-up anammox process using Acyl-homoserine lactones (AHLs) containing supernatant. <b>2018</b> , 65, 127-132	26
1429	Biosorption of high-concentration Cu (II) by periphytic biofilms and the development of a fiber periphyton bioreactor (FPBR). <b>2018</b> , 248, 127-134	25
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1110	The Influence of Cooper and Chromium Ions on the Production of Exopolysaccharide and Polyhydroxybutyrate by <i>Rhizobium tropici</i> LBMP-C01. <b>2019</b> , 27, 445-455	3
1109	Optimal hydraulic shear strength and mechanism of activated sludge floc re-growth after breakage. <b>2019</b> , 176, 202-211	2
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1105	Evaluation of the secondary structures of protein in the extracellular polymeric substances extracted from activated sludge by different methods. <b>2019</b> , 80, 128-136	14
1104	Low concentrations of copper oxide nanoparticles alter microbial community structure and function of sediment biofilms. <b>2019</b> , 653, 705-713	23
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1099	Rapid reformation of larger aerobic granular sludge in an internal-circulation membrane bioreactor after long-term operation: Effect of short-time aeration. <b>2019</b> , 273, 462-467	12
1098	Antimicrobial strategies for urinary catheters. <b>2019</b> , 107, 445-467	50
1097	The roles of free ammonia (FA) in biological wastewater treatment processes: A review. <b>2019</b> , 123, 10-19	157
1096	Combined use of inorganic coagulants and cationic polyacrylamide for enhancing dewaterability of sewage sludge. <b>2019</b> , 211, 387-395	40
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1093	Linking Exoproteome Function and Structure to Anammox Biofilm Development. <b>2019</b> , 53, 1490-1500	42
1092	Bacterial based admixed or spray treatment to improve properties of concrete. <b>2019</b> , 44, 1	3
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1090	Properties and potential application of efficient biosurfactant produced by Pseudomonas sp. KZ1 strain. <b>2019</b> , 54, 110-117	4
1089	A highly efficient conditioning process to improve sludge dewaterability by combining calcium hypochlorite oxidation, ferric coagulant re-flocculation, and walnut shell skeleton construction. <b>2019</b> , 361, 1462-1478	40



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1087	Monitoring biofouling based on aerobic respiration in reverse osmosis system. <b>2019</b> , 78, 247-256	2
1086	Reactivation and pilot-scale application of long-term storage denitrification biofilm based on flow cytometry. <b>2019</b> , 148, 368-377	23
1085	Evaluation of acidification and oxidation of sludge to improve the effect of a starch-based flocculant on the dewaterability of sewage sludge. <b>2019</b> , 231, 405-412	15
1084	Carbon-based materials reinforced waste activated sludge electro-dewatering for synchronous fuel treatment. <b>2019</b> , 149, 533-542	27
1083	Enhanced aerobic granulation by applying the low-intensity direct current electric field via reactive iron anode. <b>2019</b> , 149, 159-168	23
1082	Understanding of aerobic sludge granulation enhanced by sludge retention time in the aspect of quorum sensing. <b>2019</b> , 272, 226-234	23
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1075	In vitro evaluation of mercury (Hg) effects on biofilm formation by clinical and environmental isolates of <i>Klebsiella pneumoniae</i> . <b>2019</b> , 169, 669-677	11
1074	Potential of Crystalline and Amorphous Ferric Oxides for Biostimulation of Anaerobic Digestion. <b>2019</b> , 7, 697-708	29
1073	Effects of biomass pyrolysis derived wood vinegar (WVG) on extracellular polymeric substances and performances of activated sludge. <b>2019</b> , 274, 25-32	14
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1071	Impact of rheological properties of substrate on anaerobic digestion and digestate dewaterability: New insights through rheological and physico-chemical interaction. <b>2019</b> , 150, 56-67	22

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1069	Differences in the colloid properties of sodium alginate and polysaccharides in extracellular polymeric substances with regard to membrane fouling. <b>2019</b> , 535, 318-324	22
1068	Current Status and Future Prospects of Membrane Bioreactors (MBRs) and Fouling Phenomena: A Systematic Review. <b>2019</b> , 97, 32-58	42
1067	Overcoming floc formation limitations in high-rate activated sludge systems. <b>2019</b> , 215, 342-352	13
1066	Effect of CaCO <sub>3</sub> Nucleation Modes on Algae Removal from Alkaline Water. <b>2019</b> , 53, 11694-11703	7
1065	Influence of Al(III) on biofilm and its extracellular polymeric substances in sequencing batch biofilm reactors. <b>2019</b> , 40, 53-59	5
1064	Attachment of anaerobic ammonium-oxidizing bacteria to augmented carrier material. <b>2019</b> , 40, 576-583	16
1063	Sources for isolation of extracellular polymeric substances (EPSs) producing bacterial strains which are capable of using wastewater sludge as solo substrate. <b>2019</b> , 40, 2215-2224	2
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1061	Effect of SDS and Neutral Protease on the Release of Extracellular Polymeric Substances (EPS) from Mechanical Dewatered Sludge. <b>2019</b> , 10, 1053-1064	3
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1053	Comparison and optimization of extraction protocol for intracellular phosphorus and its polyphosphate in enhanced biological phosphorus removal (EBPR) sludge. <b>2020</b> , 699, 134389	7

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1047	Effects of microplastics on wastewater and sewage sludge treatment and their removal: A review. <b>2020</b> , 382, 122955	169
1046	Upflow anaerobic dynamic membrane bioreactor (AnDMBR) for wastewater treatment at room temperature and short HRTs: Process characteristics and practical applicability. <b>2020</b> , 383, 123186	27
1045	Novel external extractive membrane bioreactor (EMBR) using electrospun polydimethylsiloxane/polymethyl methacrylate membrane for phenol-laden saline wastewater. <b>2020</b> , 383, 123179	15
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1033	Enhanced dewaterability of anaerobically digested sludge by in-situ free nitrous acid treatment. <b>2020</b> , 169, 115264	38
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933	Enhancement of nitrification efficiency during sludge bulking by magnetic field under long sludge retention time. <b>2020</b> , 10, 408		1
932	Autochthonous tropical groundwater bacteria involved in manganese(II) oxidation and removal. <b>2020</b> , 6, 3132-3141		2
931	Improving primary sludge dewaterability by oxidative conditioning process with ferrous ion-activated peroxymonosulfate. <b>2020</b> , 37, 1498-1506		1
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929	Characterization of the nano-bio interaction between metallic oxide nanomaterials and freshwater microalgae using flow cytometry. <b>2020</b> , 14, 1082-1095		6
928	Effect of potassium persulphate addition on sludge disintegration of a mesophilic anaerobic fermentation system. <b>2020</b> , 1-14		2
927	Effect of PAC on the Behavior of Dynamic Membrane Bioreactor Filtration Layer Based on the Analysis of Mixed Liquid Properties and Model Fitting. <b>2020</b> , 10,		0

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924	Performance of anaerobic denitrifying upflow anaerobic sludge bed bioreactor (AD-UASB). <b>2020</b> , 508, 012157	
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915	Molecular Insights into Extracellular Polymeric Substances in Activated Sludge. <b>2020</b> , 54, 7742-7750	78
914	Defensive responses of microalgal-bacterial granules to tetracycline in municipal wastewater treatment. <b>2020</b> , 312, 123605	21
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910	Critical review on dewatering of sewage sludge: Influential mechanism, conditioning technologies and implications to sludge re-utilizations. <b>2020</b> , 180, 115912	144
909	Impacts of aeration and biochar addition on extracellular polymeric substances and microbial communities in constructed wetlands for low C/N wastewater treatment: Implications for clogging. <b>2020</b> , 396, 125349	29

908	Ultrasonic coupled bioleaching pretreatment for enhancing sewage sludge dewatering: Simultaneously mitigating antibiotic resistant genes and changing microbial communities. <b>2020</b> , 193, 110349	16
907	An overview of organic matters in municipal wastewater: Removal via self-assembly flocculating mechanism and the molecular level characterization. <b>2020</b> , 266, 110572	2
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905	In-situ monitoring of the unstable bacterial adhesion process during wastewater biofilm formation: A comprehensive study. <b>2020</b> , 140, 105722	14
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902	Optimizing and understanding the pressurized vertical electro-osmotic dewatering of activated sludge. <b>2020</b> , 140, 392-402	9
901	Performance, kinetics characteristics and enhancement mechanisms in anammox process under Fe(II) enhanced conditions. <b>2020</b> , 31, 223-234	8
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896	Moving forward with A-stage and high-rate contact-stabilization for energy efficient water resource recovery facility: Mechanisms, factors, practical approach, and guidelines. <b>2020</b> , 36, 101329	8
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889	Peroxide/Zero-valent iron (Fe) pretreatment for promoting dewaterability of anaerobically digested sludge: A mechanistic study. <b>2020</b> , 400, 123112	35
888	Influence of chlortetracycline as an antibiotic residue on nitrous oxide emissions from wastewater treatment. <b>2020</b> , 313, 123696	6
887	Enhancement of phosphorus release from waste activated sludge by electrochemical treatment. <b>2021</b> , 42, 3698-3706	3
886	Effects of Four Kinds of Oxide Nanoparticles on Proteins in Extracellular Polymeric Substances of Sludge. <b>2020</b> , 2020, 1754134	1
885	Preparation and antifouling performance of PVDF-DCOIT composite hollow fiber membranes. <b>2020</b> , 37, 497-504	1
884	Anaerobic membrane bioreactors for antibiotic wastewater treatment. <b>2020</b> , 219-239	3
883	Mechanism of Membrane Fouling Control by HMBR: Effect of Microbial Community on EPS. <b>2020</b> , 17,	1
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878	Effect of high-temperature thermal hydrolysis on rheological properties and dewaterability of sludge. <b>2021</b> , 42, 3707-3715	3
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876	A review of biochemical and thermochemical energy conversion routes of wastewater grown algal biomass. <b>2020</b> , 726, 137961	46
875	Rapid aerobic sludge granulation in an integrated oxidation ditch with two-zone clarifiers. <b>2020</b> , 175, 115704	13
874	Protein to carbohydrate (P/C) ratio changes in microbial extracellular polymeric substances induced by oil and Corexit. <b>2020</b> , 223, 103789	12
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869	Potential of residual fungal biomass: a review. <b>2020</b> , 27, 13019-13031	6
868	Facilitating sludge granulation and favoring glycogen accumulating organisms by increased salinity in an anaerobic/micro-aerobic simultaneous partial nitrification, denitrification and phosphorus removal (SPNDPR) process. <b>2020</b> , 313, 123698	17
867	Enhancing anaerobic digestion performance of synthetic brewery wastewater with direct voltage. <b>2020</b> , 315, 123764	8
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865	A Review on the Physical Dewatering Methods of Sludge Pretreatment in Recent Ten Years. <b>2020</b> , 455, 012189	2
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861	Comparative study on ciprofloxacin removal in sulfur-mediated biological systems. <b>2020</b> , 31, 1432-1437	9
860	Enhanced deflocculation of dehydrated sludge by rhamnolipid treatment coupled with thermal hydrolysis. <b>2020</b> , 110, 66-73	3
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857	Microbial extracellular polysaccharide production and aggregate stability controlled by switchgrass ( <i>Panicum virgatum</i> ) root biomass and soil water potential. <b>2020</b> , 143, 107742	28
856	Effects of various side stream phosphorus recovery volume on the performance and microbial structures of mainstream biological system. <b>2021</b> , 42, 3411-3420	
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854	Fate and role of fluorescence moieties in extracellular polymeric substances during biological wastewater treatment: A review. <b>2020</b> , 718, 137291	22
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851	Soil organic carbon, extracellular polymeric substances (EPS), and soil structural stability as affected by previous and current land-use. <b>2020</b> , 363, 114143	25
850	Fe(II) catalyzing sodium percarbonate facilitates the dewaterability of waste activated sludge: Performance, mechanism, and implication. <b>2020</b> , 174, 115626	72
849	Effects of Al on the microstructure and bioflocculation of anoxic sludge. <b>2020</b> , 91, 212-221	51
848	Micron-sized silica particles in wastewater influenced the distribution of organic matters in sludge and their anaerobic degradation. <b>2020</b> , 393, 122340	7
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845	Profiling of amino acids and their interactions with proteinaceous compounds for sewage sludge dewatering by Fenton oxidation treatment. <b>2020</b> , 175, 115645	14
844	Enhanced Microalgal Harvesting Using Microalgae-Derived Extracellular Polymeric Substance as Flocculation Aid. <b>2020</b> , 8, 4069-4075	17
843	Comparison of novel functionalized nanofiber forward osmosis membranes for application in antibacterial activity and TRGs rejection. <b>2020</b> , 392, 122250	14
842	Microbial community composition in different carbon source types of biofilm A/O-MBR systems with complete sludge retention. <b>2021</b> , 42, 2950-2967	1
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839	Exploring the effects of carbon source level on the degradation of 2,4,6-trichlorophenol in the co-metabolism process. <b>2020</b> , 392, 122293	14
838	Nutrients removal from piggery wastewater coupled to lipid production by a newly isolated self-flocculating microalga <i>Desmodesmus</i> sp. PW1. <b>2020</b> , 302, 122806	38
837	Recent development of biofuel cell based self-powered biosensors. <b>2020</b> , 8, 3393-3407	32



836	Anaerobically-digested sludge disintegration by transition metal ions-activated peroxymonosulfate (PMS): Comparison between Co, Cu, Fe and Mn. <b>2020</b> , 713, 136530	28
835	Pre-acidification greatly improved granules physicochemical properties and operational stability of Upflow anaerobic sludge Blanket (UASB) reactor treating low-strength starch wastewater. <b>2020</b> , 302, 122810	10
834	New insights into filamentous sludge bulking: The potential role of extracellular polymeric substances in sludge bulking in the activated sludge process. <b>2020</b> , 248, 126012	14
833	Effects of extracellular polymeric substance fractions on polyacrylamide demand and dewatering performance of digested sludges. <b>2020</b> , 239, 116557	7
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831	Unignorable toxicity of formaldehyde on electroactive bacteria in bioelectrochemical systems. <b>2020</b> , 183, 109143	15
830	Bioaugmentation treatment of nitrogen-rich wastewater with a denitrifier with biofilm-formation and nitrogen-removal capacities in a sequencing batch biofilm reactor. <b>2020</b> , 303, 122905	21
829	Redox state of microbial extracellular polymeric substances regulates reduction of selenite to elemental selenium accompanying with enhancing microbial detoxification in aquatic environments. <b>2020</b> , 172, 115538	24
828	Effects of oxygen tension on the microbial community and functional gene expression of aerobic methane oxidation coupled to denitrification systems. <b>2020</b> , 27, 12280-12292	4
827	Effect of anolytic nitrite concentration on electricity generation and electron transfer in a dual-chamber microbial fuel cell. <b>2020</b> , 27, 9910-9918	2
826	Long-term aerobic granular sludge stability through anaerobic slow feeding, fixed feast-famine period ratio, and fixed SRT. <b>2020</b> , 8, 103681	14
825	Enhanced reduction of sulfate and chromium under sulfate-reducing condition by synergism between extracellular polymeric substances and graphene oxide. <b>2020</b> , 183, 109157	15
824	Understanding the dewaterability of aerobic granular sludge formed in continuous flow bioreactors treating real domestic wastewater: Is it really better than that of activated sludge?. <b>2020</b> , 36, 101253	4
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8 <sub>18</sub>	Development of thermal treatment for the extraction of extracellular polymeric substances from Microcystis: Evaluating extraction efficiency and cell integrity. <b>2020</b> , 48, 101879	7
8 <sub>17</sub>	Exploration of potential jarosite biomineralization mechanism based on extracellular polymer substances of <i>Purpureocillium lilacinum</i> Y3. <b>2020</b> , 150, 104941	6
8 <sub>16</sub>	Comprehensive investigation of the relationship between organic content and waste activated sludge dewaterability. <b>2020</b> , 394, 122547	12
8 <sub>15</sub>	Full-scale membrane bioreactor process WWTPs in East Taihu basin: Wastewater characteristics, energy consumption and sustainability. <b>2020</b> , 723, 137983	14
8 <sub>14</sub>	Effects of ZnO nanoparticles on aerobic denitrifying bacteria <i>Enterobacter cloacae</i> strain HNR. <b>2020</b> , 725, 138284	5
8 <sub>13</sub>	Impact of COD/N on anammox granular sludge with different biological carriers. <b>2020</b> , 728, 138557	13
8 <sub>12</sub>	Extracellular polymeric substance decomposition linked to hydrogen recovery from waste activated sludge: Role of peracetic acid and free nitrous acid co-pretreatment in a prefermentation-bioelectrolysis cascading system. <b>2020</b> , 176, 115724	25
8 <sub>11</sub>	Insights into spatial effects of ceria nanoparticles on oxygen mass transfer in wastewater biofilms: Interfacial microstructure, in-situ microbial activity and metabolism regulation mechanism. <b>2020</b> , 176, 115731	11
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8 <sub>09</sub>	Performance and Biomass Characteristics of SBs Treating High-Salinity Wastewater at Presence of Anionic Surfactants. <b>2020</b> , 17,	2
8 <sub>08</sub>	Development of Amyloid-Fibrils-like Functional Materials from Both Anaerobically Digested Sludge and Waste Activated Sludge for Heavy Metal Adsorption. <b>2020</b> , 8, 7795-7805	4
8 <sub>07</sub>	Transport of bacterial cell ( <i>E. coli</i> ) from different recharge water resources in porous media during simulated artificial groundwater recharge. <b>2020</b> , 14, 1	4
8 <sub>06</sub>	Electrochemical behavior of biochar and its effects on microbial nitrate reduction: Role of extracellular polymeric substances in extracellular electron transfer. <b>2020</b> , 395, 125077	48
8 <sub>05</sub>	Enhanced excretion of extracellular polymeric substances associated with nonylphenol tolerance in <i>Dictyosphaerium</i> sp. <b>2020</b> , 395, 122644	18
8 <sub>04</sub>	Acetate limitation selects <i>Geobacter</i> from mixed inoculum and reduces polysaccharide in electroactive biofilm. <b>2020</b> , 177, 115776	36
8 <sub>03</sub>	Extracellular organic matter (EOM) distribution characteristic in algae electro-dewatering process. <b>2020</b> , 265, 110541	6
8 <sub>02</sub>	Granular biofilms: Function, application, and new trends as model microbial communities. <b>2021</b> , 51, 1702-1725	9
8 <sub>01</sub>	Interaction of perfluorooctanoic acid with extracellular polymeric substances - Role of protein. <b>2021</b> , 401, 123381	15

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796	Enhanced adsorption of hexavalent chromium and the microbial effect on quartz sand modified with Al-layered double hydroxides. <b>2021</b> , 762, 143094	6
795	Quantifying the occurrence and transformation potential of extracellular polymeric substances (EPS)-associated antibiotic resistance genes in activated sludge. <b>2021</b> , 408, 124428	23
794	New insights into mechanisms of sunlight- and dark-mediated high-temperature accelerated diurnal production-degradation of fluorescent DOM in lake waters. <b>2021</b> , 760, 143377	8
793	Roles of nitrite in mediating the composition and metacommunity of multispecies biofilms. <b>2021</b> , 40, 101764	5
792	Dewaterability of sewage sludge conditioned with a graft cationic starch-based flocculant: Role of structural characteristics of flocculant. <b>2021</b> , 189, 116578	16
791	Inhibitory effect of released phosphate on the ability of nano zero valent iron to boost anaerobic digestion of waste-activated sludge and the remediation method. <b>2021</b> , 405, 126506	9
790	Interfacial interactions between collected nylon microplastics and three divalent metal ions (Cu(II), Ni(II), Zn(II)) in aqueous solutions. <b>2021</b> , 403, 123548	42
789	Integration of electrochemical and calcium hypochlorite oxidation for simultaneous sludge deep dewatering, stabilization and phosphorus fixation. <b>2021</b> , 750, 141408	12
788	A review of quorum sensing improving partial nitrification-anammox process: Functions, mechanisms and prospects. <b>2021</b> , 765, 142703	14
787	Evaluating method and potential risks of chlorine-resistant bacteria (CRB): A review. <b>2021</b> , 188, 116474	35
786	Extracellular biopolymers recovered as raw biomaterials from waste granular sludge and potential applications: A critical review. <b>2021</b> , 753, 142051	21
785	Constructing zwitterionic nanofiber film for anti-adhesion of marine corrosive microorganisms. <b>2021</b> , 70, 145-155	3
784	Advanced protein adsorption properties of a novel silicate-based bioceramic: A proteomic analysis. <b>2021</b> , 6, 208-218	10
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778	Virus removal by membrane bioreactors: A review of mechanism investigation and modeling efforts. <b>2021</b> , 188, 116522	18
777	Effects of ZnO nanoparticles on flocculation and sedimentation of activated sludge in wastewater treatment process. <b>2021</b> , 192, 110256	6
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774	Novel Insights into Extracellular Polymeric Substance Degradation, Hydrophilic/Hydrophobic Characteristics, and Dewaterability of Waste Activated Sludge Pretreated by Hydroxylamine Enhanced Fenton Oxidation. <b>2021</b> , 1, 385-392	12
773	Comparative toxicological effects of planktonic <i>Microcystis</i> and benthic <i>Oscillatoria</i> on zebrafish embryonic development: Implications for cyanobacteria risk assessment. <b>2021</b> , 274, 115852	7
772	Understanding of the mechanism of extracellular polymeric substances of aerobic granular sludge against tetracycline from the perspective of fluorescence properties. <b>2021</b> , 756, 144054	9
771	Effects of poly (1,4-butanediol succinate) carrier on the nitrogen removal performance and microbial community of sequencing batch reactors. <b>2021</b> , 291, 125279	3
770	Application of zero-valent iron/sulfite system for aerobically digested sludge conditioning. <b>2021</b> , 420, 127650	0
769	Insight into how high dissolved oxygen favors the startup of nitrification with aerobic granules. <b>2021</b> , 270, 128643	6
768	An external magnetic field moderating Cr(VI) stress for simultaneous enhanced acetate production and Cr(VI) removal in microbial electrosynthesis system. <b>2021</b> , 193, 110550	3
767	Enhancing methane production of synthetic brewery water with granular activated carbon modified with nanoscale zero-valent iron (NZVI) in anaerobic system. <b>2021</b> , 760, 143933	18
766	Cd(II) sorption by <i>Nostoc</i> sp. JRD1: Kinetic, thermodynamic and isotherm studies. <b>2021</b> , 21, 101283	5
765	Organoarsenic feed additives in biological wastewater treatment processes: Removal, biotransformation, and associated impacts. <b>2021</b> , 406, 124789	7

764	Comparative study on production and characterisation of extracellular polymeric substances (EPS) using activated sludge fortified with crude glycerol from different biodiesel companies. <b>2021</b> , 1, 208-222	3
763	Evolution of extracellular polymeric substances (EPS) in aerobic sludge granulation: Composition, adherence and viscoelastic properties. <b>2021</b> , 262, 128033	20
762	Accumulation and characteristics of fluorescent dissolved organic matter in loess soil-based subsurface wastewater infiltration system with aeration and biochar addition. <b>2021</b> , 269, 116100	9
761	Effect of C/N substrates for enhanced extracellular polymeric substances (EPS) production and Poly Cyclic Aromatic Hydrocarbons (PAHs) degradation. <b>2021</b> , 275, 116035	26
760	New insights into interaction of proteins in extracellular polymeric substances of activated sludge with ciprofloxacin using quartz crystal microbalance with dissipation. <b>2021</b> , 263, 128044	5
759	Effects of alkalinity on interaction between EPS and hydroxy-aluminum with different speciation in wastewater sludge conditioning with aluminum based inorganic polymer flocculant. <b>2021</b> , 100, 257-268	7
758	The diversity of molecular mechanisms of carbonate biomineralization by bacteria. <b>2021</b> , 1, 1	14
757	Effect of tannic acid on the dewaterability of dredged sediment and the conditioning mechanism. <b>2021</b> , 9, 104899	0
756	Interaction between tetracycline and microorganisms during wastewater treatment: A review. <b>2021</b> , 757, 143981	37
755	Effects of alkali, autoclaving, and Fe <sup>+</sup> autoclaving pretreatment on anaerobic digestion performance of coking sludge from the perspective of sludge extracts and methane production. <b>2021</b> , 28, 13151-13161	2
754	Response of anaerobic digestion of waste activated sludge to residual ferric ions. <b>2021</b> , 322, 124536	25
753	Response of periphytic biofilm in water to estrone exposure: Phenomenon and mechanism. <b>2021</b> , 207, 111513	3
752	The co-effect of ampicillin and multi-walled carbon nanotubes on activated sludge in sequencing batch reactors: microbial status, microbial community structure and ARGs propagation. <b>2021</b> , 8, 204-216	2
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750	Role of extracellular polymeric substances in anaerobic granular sludge: Assessing dewaterability during Fe(II)-peroxydisulfate conditioning and granulation processes. <b>2021</b> , 286, 124968	7
749	A model of extracellular polymeric substances on crystal growth and morphogenesis of struvite: Effects of sodium alginate. <b>2021</b> , 380, 80-88	2
748	Influence of NaCl salinity on the aggregation performance of anammox granules. <b>2021</b> , 39, 101687	6
747	Recent advances in biopolymers/carbohydrate polymers as effective corrosion inhibitive macro-molecules: A review study from experimental and theoretical views. <b>2021</b> , 325, 115110	21

746	Direct membrane filtration of municipal wastewater: Linking periodical physical cleaning with fouling mechanisms. <b>2021</b> , 259, 118125	10
745	Initialization, enhancement and mechanisms of aerobic granulation in wastewater treatment. <b>2021</b> , 260, 118220	4
744	Influence of ferric iron dosing on aerobic granular sludge: granule formation, nutrient removal and microbial community. <b>2021</b> , 96, 1277-1284	1
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742	Intrinsically antibacterial thin film composite membranes with supramolecularly assembled lysozyme nanofilm as selective layer for molecular separation. <b>2021</b> , 254, 117585	3
741	A 571 million-year-old alkaline volcanic lake photosynthesizing microbial community, the Anti-atlas, Morocco. <b>2021</b> , 19, 105-124	0
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739	CO Biomethanation with Different Anaerobic Granular Sludges. <b>2021</b> , 12, 3913-3925	0
738	In situ prepared algae-supported iron sulfide to remove hexavalent chromium. <b>2021</b> , 274, 115831	3
737	Effects of sludge characteristics on electrical resistance and energy consumption during electro-dewatering process. <b>2021</b> , 101, 339-350	7
736	Effect of saltwater intrusion on activated sludge flocculation. <b>2021</b> , 93, 750-761	1
735	Enhancement of ethylbenzene removal from contaminated gas and corresponding mechanisms in biotrickling filters by a biosurfactant from piggery wastewater. <b>2021</b> , 277, 111411	3
734	Adsorption at Natural Minerals/Water Interfaces. <b>2021</b> ,	2
733	Stability of pure oxygen aeration-activated sludge system under non-steady food-to-microorganism ratio conditions during petrochemical wastewater treatment. <b>2021</b> , 56, 21-31	1
732	Understanding the mechanism of how anaerobic fermentation deteriorates sludge dewaterability. <b>2021</b> , 404, 127026	18
731	Comparative evaluation of <i>Hermetia illucens</i> larvae reared on different substrates for red tilapia diet: effect on growth and body composition. <b>2021</b> , 7, 79-88	5
730	A review on anammox process for the treatment of antibiotic-containing wastewater: Linking effects with corresponding mechanisms. <b>2021</b> , 15, 1	31
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727	Spectroscopic investigation of the interaction between extracellular polymeric substances and tetracycline during sorption onto anaerobic ammonium-oxidising sludge. <b>2021</b> , 42, 1787-1797	2
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725	Biofilm mechanics in an extremely acidic environment: microbiological significance. <b>2021</b> , 17, 3672-3680	1
724	Environmental Impacts of Recovery of Resources From Industrial Wastewater. <b>2021</b> , 121-162	3
723	Mycoremediation of heavy metals: processes, mechanisms, and affecting factors. <b>2021</b> , 28, 10375-10412	18
722	Role of Microbial Extracellular Polymeric Substances in Soil Fertility. <b>2021</b> , 341-354	
721	Integration of bacterial and algal metabolic repertoire in the removal of heavy metals from wastewater. <b>2021</b> , 375-402	
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713	Biofilms and nanoparticles: applications in agriculture. <b>2021</b> , 66, 159-170	5
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710	A novel sequence batch treatment of wastewater using <i>Bacillus</i> sp. IITRDVM-5 mixing with paper mill and sewage sludge powders. <b>2021</b> , 21, 101288	4
709	Predictive performance of auto-aerated immobilized biomass reactor treating anaerobic effluent of cardboard wastewater enriched with bronopol (2-bromo-2-nitropropan-1,3-diol) via artificial neural network. <b>2021</b> , 21, 101327	7
708	Bacterial tolerance strategies against lead toxicity and their relevance in bioremediation application. <b>2021</b> , 28, 14271-14284	5
707	Response and recovery of mature algal-bacterial aerobic granular sludge to sudden salinity disturbance in influent wastewater: Granule characteristics and nutrients removal/accumulation. <b>2021</b> , 321, 124492	12
706	Sludge digestibility and functionally active microorganisms in methanogenic sludge digesters revealed by <i>E. coli</i> -fed digestion and microbial source tracking. <b>2021</b> , 193, 110539	7
705	Blended Sewage SludgePalm Kernel Expeller to Enhance the Palatability of Black Soldier Fly Larvae for Biodiesel Production. <b>2021</b> , 9, 297	7
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697	Aerobic degradation of nonhalogenated organophosphate flame esters (OPEs) by enriched cultures from sludge: Kinetics, pathways, bacterial community evolution, and toxicity evaluation. <b>2021</b> , 760, 143385	6
696	The Effect of pH and Light on the Colony Formation and Buoyancy of <i>Microcystis aeruginosa</i> UTEX-2061. <b>2021</b> , 232, 1	1
695	Enhancing nitrogen removal performance of anammox process after short-term pH and temperature shocks by coupling with iron-carbon micro-electrolysis. <b>2021</b> , 289, 125753	6
694	Biodegradation of tetracycline using hybrid material (UCPs-TiO) coupled with biofilms under visible light. <b>2021</b> , 323, 124638	8
693	Characteristics of the extracellular products of pure oxygen aerated activated sludge in batch mode. <b>2021</b> , 83, 1946-1957	1

692	The differences in characteristics of extracellular polymeric substances of flocs and anammox granules impacted aggregation. <b>2021</b> , 44, 1711-1720	5
691	Mechanism of contaminant removal by algae-bacteria symbiosis in a PBR system during the treatment of anaerobic digestion effluents. <b>2021</b> , 247, 106556	4
690	Combined forms of Pb and its detoxification and absorption in <i>Cladophora rupestris</i> subcells. <b>2021</b> , 248, 119190	2
689	Exogenous N-acyl-homoserine lactones promote the degradation of refractory organics in oligotrophic anaerobic granular sludge. <b>2021</b> , 761, 143289	6
688	Response of soil bacterial communities to sulfadiazine present in manure: Protection and adaptation mechanisms of extracellular polymeric substances. <b>2021</b> , 408, 124887	9
687	Process Optimization of Waste Activated Sludge in Anaerobic Digestion and Biogas Production by Electrochemical Pre-Treatment Using Ruthenium Oxide Coated Titanium Electrodes. <b>2021</b> , 13, 4874	4
686	Removal of trace organic contaminants in municipal wastewater by anaerobic membrane bioreactor: Efficiencies, fates and impact factors. <b>2021</b> , 40, 101953	7
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683	Differences in exopolysaccharides of three microbial aggregates. <b>2021</b> , 1-13	2
682	Insight: High intensity and activity carrier granular sludge cultured using polyvinyl alcohol/chitosan and polyvinyl alcohol/chitosan/iron gel beads. <b>2021</b> , 326, 124778	7
681	In-situ alkaline pretreatment of waste activated sludge in microbial fuel cell enhanced power production. <b>2021</b> , 491, 229616	2
680	Biotoxicity evaluation of zinc oxide nanoparticles on bacterial performance of activated sludge at COD, nitrogen, and phosphorus reduction. <b>2021</b> , 16, 1	3
679	Biodegradation of natural and synthetic endocrine-disrupting chemicals by aerobic granular sludge reactor: Evaluating estrogenic activity and estrogens fate. <b>2021</b> , 274, 116551	10
678	Upgrading sequencing batch reactor using attached biofilm. <b>2021</b> , 93, 1700-1713	
677	Interactions Between Microplastics and Heavy Metals in Aquatic Environments: A Review. <b>2021</b> , 12, 652520	13
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- 673 Inhibitory Effect of Salinity and Humic Acid on the Performance of Anaerobic Ammonium Oxidation Process and Recovery of Anammox Activity. 1
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- 660 Application of boundary electro-osmotic pulse to reduce sludge-to-wall adhesion. **2021**, 195, 116982 2
- 659 Enhancement of sewage sludge dewaterability by fungal conditioning with *Penicillium simplicissimum* NJ12: from bench- to pilot-scale consecutive multi-batch investigations. **2021**, 28, 62255-62265<sup>O</sup>
- 658 Electrochemical pretreatment (EPT) of waste activated sludge: Extracellular polymeric substances matrix destruction, sludge solubilisation and overall digestibility. **2021**, 330, 125000 8
- 657 Interactions of microalgae-bacteria consortia for nutrient removal from wastewater: A review.. **2021**, 272, 129878 52

656	A review on energy and cost effective phase separated pretreatment of biosolids. <b>2021</b> , 198, 117169	8
655	Effects of polystyrene nanoplastics on extracellular polymeric substance composition of activated sludge: The role of surface functional groups. <b>2021</b> , 279, 116904	8
654	Quantitative assessment of extraction methods for bound extracellular polymeric substances (B-EPSs) produced by <i>Microcystis</i> sp. and <i>Scenedesmus</i> sp.. <b>2021</b> , 56, 102289	6
653	Effect of carbon source on nitrous oxide emission characteristics and sludge properties during anoxic/aerobic wastewater treatment process. <b>2021</b> , 28, 57557-57568	1
652	Identification, characterization, and lipid profiling of microalgae sp. NC1, isolated from coal mine effluent with potential for biofuel production. <b>2021</b> , 30, e00621	4
651	Performance and responses of aerobic granular sludge at different concentrations of graphene oxide after a single administered dose. <b>2021</b> , 93, 2210-2222	0
650	Rapid recovery of inhibited denitrification with cascade Cr(VI) exposure by bio-accelerant: Characterization of chromium distributions, EPS compositions and denitrifying communities. <b>2021</b> , 411, 125087	13
649	Insight into the evolution of microbial community and antibiotic resistance genes in anammox process induced by copper after recovery from oxytetracycline stress. <b>2021</b> , 330, 124945	5
648	New insights into the evolution of bacterial community during the domestication of phthalate-degrading consortium. <b>2021</b> , 303, 127064	7
647	A review of the factors affecting the performance of anaerobic membrane bioreactor and strategies to control membrane fouling. <b>2021</b> , 20, 607-644	6
646	Roles of bacterial cell and extracellular polymeric substance on adsorption of Cu(II) in activated sludges: A comparative study. <b>2021</b> , 41, 102094	6
645	Effect of magnetic field on biomass properties and their role in biodegradation under condition of low dissolved oxygen. <b>2021</b> , 11, 1	2
644	Pore-forming treatments induce aggregation of <i>Salmonella</i> Senftenberg through protein leakage. <b>2021</b> , 96, 103721	5
643	Rapid granulation of aerobic sludge in a continuous-flow reactor with a two-zone sedimentation tank by the addition of dewatered sludge. <b>2021</b> , 41, 101941	6
642	High value-added biomaterials recovery from granular sludge based wastewater treatment process. <b>2021</b> , 169, 105481	10
641	Deciphering Single-Bacterium Adhesion Behavior Modulated by Extracellular Electron Transfer. <b>2021</b> , 21, 5105-5115	0
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637	Evaluation of hydrophobically associating cationic starch-based flocculants in sludge dewatering. <b>2021</b> , 11, 11819	4
636	A review of mechanisms underlying the impacts of (nano)microplastics on anaerobic digestion. <b>2021</b> , 329, 124894	14
635	Extraction of extracellular polymeric substances from dam lake fresh sediments derived from crystalline bedrock. <b>2021</b> , 275, 130103	1
634	Effect of organic concentration on biological activity and nitrogen removal performance in an anammox biofilm system. <b>2021</b> , 84, 725-736	0
633	Understanding the dependence of start-up and stability of aerobic granule on pH from the perspective of adhesion behavior and properties of extracellular polymeric substances. <b>2021</b> , 198, 111311	5
632	The inhibitory effect of in situ extracellular polymeric substances on trimethoprim adsorption by activated sludge. <b>2021</b> , 274, 129798	3
631	Effects of cations on biofilm formation and characteristics in integrated fixed film activated sludge process at different carbon and nitrogen loadings. <b>2021</b> , 275, 130002	4
630	Holistic insights into extracellular polymeric substance (EPS) in anammox bacterial matrix and the potential sustainable biopolymer recovery: A review. <b>2021</b> , 274, 129703	16
629	Role of extracellular polymeric substances on nutrients storage and transfer in algal-bacteria symbiosis sludge system treating wastewater. <b>2021</b> , 331, 125010	16
628	Effects of microbial inactivation approaches on quantity and properties of extracellular polymeric substances in the process of wastewater treatment and reclamation: A review. <b>2021</b> , 413, 125283	10
627	Responses of anammox process to elevated Fe(III) stress: Reactor performance, microbial community and functional genes. <b>2021</b> , 414, 125051	7
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625	Optimization of biochemical sulfide potential (BSP) assay for anaerobic biodegradability assessment. <b>2021</b> , 200, 117216	1
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623	Advanced treatment of effluent extended aeration process using biological aerated filter (BAF) with natural media: modification in media, design and backwashing process. <b>2021</b> , 11, 100	0
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613	Interactions between polyethylene and polypropylene microplastics and sp. microalgae in aquatic systems. <b>2021</b> , 7, e07676	7
612	Research on Dewatering Ability of Municipal Sludge under the Treatment of Coupled Acid and Microwave. <b>2021</b> , 2021, 1-11	
611	Bioflocculation effect of <i>Glyptotendipes tokunagai</i> on different <i>Microcystis</i> species: Interactions between secreted silk and extracellular polymeric substances. <b>2021</b> , 277, 130321	3
610	Model based analysis of carbon fluxes within microalgae-bacteria flocs using respirometric-titrimetric data. <b>2021</b> , 784, 147048	4
609	Assessing of alkaline and enzymatic pre-treatment: comparison as WAS solubilisation process to maximize its potential as carbonaceous source. 1	0
608	Enhancing biohydrogen production from disintegrated sewage sludge by combined sodium citrate-thermal pretreatment. <b>2021</b> , 312, 127756	6
607	Alternating current-enhanced carbon nanotubes hollow fiber membranes for membrane fouling control in novel membrane bioreactors. <b>2021</b> , 277, 130240	1
606	Zeolitic imidazolate framework-derived porous carbon enhances methanogenesis by facilitating interspecies electron transfer: Understanding fluorimetric and electrochemical responses of multi-layered extracellular polymeric substances. <b>2021</b> , 781, 146447	3
605	Acidification inhibition, biodechlorination, and biotransformation of chlorinated acetaldehydes on acidogenic sludge and microbial community changes. <b>2021</b> , 277, 130231	3
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596	Deciphering the mechanism of medium size anammox granular sludge driving better nitrogen removal performance. <b>2021</b> , 336, 125317	5
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594	Biofilm-Developed Microplastics As Vectors of Pollutants in Aquatic Environments. <b>2021</b> , 55, 12780-12790	6
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588	PGPR-Mediated Plant Growth Attributes and Metal Extraction Ability of <i>Sesbania sesban</i> L. in Industrially Contaminated Soils. <b>2021</b> , 11, 1820	18
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585	Effect of ibuprofen on extracellular polymeric substances (EPS) production and composition, and assessment of microbial structure by quantitative image analysis. <b>2021</b> , 293, 112852	2



584	Diversity and Metabolic Potentials of As(III)-Oxidizing Bacteria in Activated Sludge. <b>2021</b> , 87, e0176921	3
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582	Effects of nano metal oxide particles on activated sludge system: Stress and performance recovery mechanism. <b>2021</b> , 285, 117408	4
581	Impacts of aeration and biochar on physiological characteristics of plants and microbial communities and metabolites in constructed wetland microcosms for treating swine wastewater. <b>2021</b> , 200, 111415	5
580	Study on Start-Up Membraneless Anaerobic Baffled Reactor Coupled with Microbial Fuel Cell for Dye Wastewater Treatment. <b>2021</b> , 6, 23515-23527	2
579	Effects of wastewater type on stability and operating conditions control strategy in relation to the formation of aerobic granular sludge - a review. <b>2021</b> , 84, 2113-2130	2
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577	Insight into the roles of ferric chloride on short-chain fatty acids production in anaerobic fermentation of waste activated sludge: Performance and mechanism. <b>2021</b> , 420, 129809	7
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