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Aerobic granular sludge: recent advances

DOI: 10.1016/j.biotechadv.2008.05.002
Biotechnology Advances, 2008, 26, 411-23.

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Version: 2024-04-26

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#	Paper	IF	Citations
670	Fouling layer on hollow-fibre membrane in aerobic granule membrane bioreactor. 2008 , 39, 657-661		24
669	Stratification structure of sludge flocs with implications to dewaterability. <i>Environmental Science & Technology</i> , 2008 , 42, 7944-9	10.3	272
668	Treatment of Synthetic Wastewater by Combining Submerged MBR Technology and Aerobic Granular Technology. 2009 ,		
667	Comparative Performance Between a Novel Aerobic Granular Sludge Membrane Bioreactor and a Conventional Activated Floc Sludge Membrane Bioreactor. 2009 ,		
666	Toxicity effect of phenol on aerobic granules. <i>Environmental Technology (United Kingdom)</i> , 2009 , 30, 69-746		38
665	Physicochemical characteristics of microbial granules. <i>Biotechnology Advances</i> , 2009 , 27, 1061-1070	17.8	166
664	Treating chemical industries influent using aerobic granular sludge: Recent development. 2009 , 40, 333-336		43
663	Biological nitrification-denitrification with alternating oxic and anoxic operations using aerobic granules. <i>Applied Microbiology and Biotechnology</i> , 2009 , 84, 1181-9	5.7	32
662	Biodiversity in aerobic granule membrane bioreactor at high organic loading rates. <i>Applied Microbiology and Biotechnology</i> , 2009 , 85, 383-8	5.7	8
661	Functional consortium from aerobic granules under high organic loading rates. <i>Bioresource Technology</i> , 2009 , 100, 3465-70	11	46
660	Aerobic granulation in sequencing batch reactors at different settling times. <i>Bioresource Technology</i> , 2009 , 100, 5359-61	11	63
659	Aerobic granulation in sequencing batch reactors with different reactor height/diameter ratios. 2009 , 45, 379-383		44
658	Removal of Cr ³⁺ from aqueous solution by biosorption with aerobic granules. 2009 , 165, 250-5		47
657	Filterability and extracellular polymeric substances of aerobic granules for AGMBR process. 2009 , 40, 479-483		17
656	Labeling enzymes and extracellular polymeric substances in aerobic granules. 2009 , 40, 505-510		7
655	Enhanced aerobic granulation with extracellular polymeric substances (EPS)-free pellets. <i>Bioresource Technology</i> , 2009 , 100, 4611-5	11	28
654	An image-based method for obtaining pore-size distribution of porous media. <i>Environmental Science & Technology</i> , 2009 , 43, 3248-53	10.3	35

653	Environmental Technologies to Treat Nitrogen Pollution. 2009 , 8,		20
652	Cultivation and Performance of Aerobic Granules in a Pilot Scale SBR to Treat Real Domestic Sewage. 2010 , 2010, 95-102		
651	Microbial community of acetate utilizing denitrifiers in aerobic granules. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 753-62	5-7	67
650	Potential cause of aerobic granular sludge breakdown at high organic loading rates. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1601-10	5-7	77
649	Strains of internal biofilm in aerobic granular membrane bioreactors. <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 1987-93	5-7	5
648	Biosorption of Acid Yellow 17 from aqueous solution by non-living aerobic granular sludge. 2010 , 174, 215-25		116
647	Characteristics of extracellular fluorescent substances of aerobic granular sludge in pilot-scale sequencing batch reactor. 2010 , 17, 522-528		9
646	Stereological assessment of extracellular polymeric substances, exo-enzymes, and specific bacterial strains in bioaggregates using fluorescence experiments. <i>Biotechnology Advances</i> , 2010 , 28, 255-80	17.8	60
645	Mathematical modeling of aerobic granular sludge: a review. <i>Biotechnology Advances</i> , 2010 , 28, 895-909	17.8	63
644	Advances in aerobic granule formation and granule stability in the course of storage and reactor operation. <i>Biotechnology Advances</i> , 2010 , 28, 919-34	17.8	216
643	Aerobic granules with inhibitory strains and role of extracellular polymeric substances. 2010 , 174, 424-8		13
642	Effect of dissolved oxygen on nitrogen removal and process control in aerobic granular sludge reactor. 2010 , 178, 1041-5		50
641	Effects of seed sludge properties and selective biomass discharge on aerobic sludge granulation. <i>Chemical Engineering Journal</i> , 2010 , 160, 108-114	14.7	38
640	Competitive biosorption of Yellow 2G and Reactive Brilliant Red K-2G onto inactive aerobic granules: simultaneous determination of two dyes by first-order derivative spectrophotometry and isotherm studies. <i>Bioresource Technology</i> , 2010 , 101, 5793-801	11	52
639	Enhanced storage stability of aerobic granules seeded with pellets. <i>Bioresource Technology</i> , 2010 , 101, 8031-7	11	19
638	Stable aerobic granules for continuous-flow reactors: Precipitating calcium and iron salts in granular interiors. <i>Bioresource Technology</i> , 2010 , 101, 8051-7	11	86
637	Performance and fouling characteristics in a membrane sequence batch reactor (MSBR) system coupled with aerobic granular sludge. 2010 , 261, 191-196		50
636	Formation, physical characteristics and microbial community structure of aerobic granules in a pilot-scale sequencing batch reactor for real wastewater treatment. 2010 , 46, 520-5		153

635	Rapid biodecolourization of eriochrome black T wastewater by bioaugmented aerobic granules cultivated through a specific method. 2010 , 47, 37-43		14
634	Biological Phosphorus Removal Processes. 2010 , 497-521		1
633	The Characteristics of Aerobic Granules Cultivated with the Effluent from an Anaerobic Baffled Reactor for Berberine Wastewater Treatment. 2010 ,		1
632	Notice of Retraction: Cultivation of aerobic granular sludge in sequencing batch reactor with short cycle. 2010 ,		
631	Nitrogen Removal in Aerobic Granular Sludge SBR: Real-time Control Strategies. 2010 ,		
630	Visualizing Fouling Layer in Membrane Bioreactor. 2010 , 45, 962-966		3
629	Three-dimensional excitation emission matrix fluorescence spectroscopy and gel-permeating chromatography to characterize extracellular polymeric substances in aerobic granulation. 2010 , 61, 2931-42		25
628	Influence of internal biofilm growth on residual permeability loss in aerobic granular membrane bioreactors. <i>Environmental Science & Technology</i> , 2010 , 44, 1267-73	10.3	26
627	Aggregate size and architecture determine microbial activity balance for one-stage partial nitrification and anammox. 2010 , 76, 900-9		255
626	Cultivation and maintenance of nitrite-oxidizing bacteria granular sludge in SBR process. 2011 ,		
625	Biohydrogen Production with High-Rate Bioreactors. 2011 , 537-567		2
624	Biologically induced phosphorus precipitation in aerobic granular sludge process. <i>Water Research</i> , 2011 , 45, 3776-86	12.5	137
623	Dynamic and distribution of ammonia-oxidizing bacteria communities during sludge granulation in an anaerobic-aerobic sequencing batch reactor. <i>Water Research</i> , 2011 , 45, 6207-16	12.5	50
622	Dye Waste Treatment. <i>Water (Switzerland)</i> , 2011 , 3, 157-176	3	75
621	The acceleration of sludge granulation using the chlamydo spores of <i>Phanerochaete</i> sp. HSD. 2011 , 192, 963-9		11
620	Enhancement of start-up of pilot-scale granular SBR fed with real wastewater. 2011 , 82, 190-196		40
619	Effects of activated sludge flocs and pellets seeds on aerobic granule properties. 2011 , 23, 537-44		11
618	Biodegradation of aniline by <i>Candida tropicalis</i> AN1 isolated from aerobic granular sludge. 2011 , 23, 2063-8		22

617	Biodegradation of nitrobenzene by aerobic granular sludge in a sequencing batch reactor (SBR). 2011 , 281, 17-22		28
616	Evolution of bioaggregate strength during aerobic granular sludge formation. <i>Biochemical Engineering Journal</i> , 2011 , 58-59, 69-78	4.2	41
615	Biosorption behavior and mechanism of beryllium from aqueous solution by aerobic granule. <i>Chemical Engineering Journal</i> , 2011 , 172, 783-783	14.7	29
614	Denitrification of synthetic concentrated nitrate wastes by aerobic granular sludge under anoxic conditions. 2011 , 85, 683-8		51
613	Degradation of cresols by phenol-acclimated aerobic granules. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 209-15	5.7	26
612	Comparison of biological removal via nitrite with real-time control using aerobic granular sludge and flocculent activated sludge. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 1645-52	5.7	23
611	Overcoming substrate inhibition during biological treatment of monoaromatics: recent advances in bioprocess design. <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1589-608	5.7	50
610	"Biofilmology": a multidisciplinary review of the study of microbial biofilms. <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1869-81	5.7	74
609	Selective inhibition of nitrite oxidation by chlorate dosing in aerobic granules. 2011 , 185, 249-54		22
608	Contributions of functional groups and extracellular polymeric substances on the biosorption of dyes by aerobic granules. <i>Bioresource Technology</i> , 2011 , 102, 805-13	11	55
607	Granular activated carbon for aerobic sludge granulation in a bioreactor with a low-strength wastewater influent. 2011 , 80, 276-283		50
606	Aerobic granulation for nitrogen removal via nitrite in a sequencing batch reactor and the emission of nitrous oxide. <i>Bioresource Technology</i> , 2011 , 102, 2536-41	11	56
605	Performance of enhanced biological SBR process for aniline treatment by mycelial pellet as biomass carrier. <i>Bioresource Technology</i> , 2011 , 102, 4360-5	11	52
604	Variations of both bacterial community and extracellular polymers: the inducements of increase of cell hydrophobicity from biofloc to aerobic granule sludge. <i>Bioresource Technology</i> , 2011 , 102, 6421-8	11	68
603	Characterization of extracellular polymeric substances (EPS) from phenol degrading aerobic granules. 2011 , 42, 645-651		27
602	Operational strategies for nitrogen removal in granular sequencing batch reactor. 2011 , 189, 342-8		47
601	Sorption and biodegradation of tetracycline by nitrifying granules and the toxicity of tetracycline on granules. 2011 , 191, 103-9		115
600	Set-Up of Aerobic Granular Sludge- sMBr Technology at Low Temperature. 2011 ,		

599	Reducing the startup time of aerobic granular sludge reactors through magnesium and PAC augmentation. 2011 ,		
598	Notice of Retraction: Study on the Aerobic Granular Sludge of Furfural Degradation. 2011 ,		
597	Notice of Retraction: Formation and Properties of Aerobic Granular Sludge in a Continuous Airlift Fluidized Bed. 2011 ,		
596	Dewaterability of Aerobic Granular Sludge. 2011 , 90-93, 2944-2948		3
595	Contaminants removal characteristics between floc sludge and aerobic granular sludge in domestic sewage treatment at low temperature. 2011 ,		1
594	Dynamics of microbial community structure of and enhanced biological phosphorus removal by aerobic granules cultivated on propionate or acetate. 2011 , 77, 8041-51		69
593	Effects of potassium and magnesium in the enhanced biological phosphorus removal process using a membrane bioreactor. 2011 , 83, 613-21		17
592	Formation and characteristics of nitrification granules cultivated in sequencing batch reactor by stepwise increase of N/C ratio. 2011 , 64, 1479-87		2
591	Towards sustainable waste water treatment with Dutch Nereda [®] technology. 2011 , 6,		23
590	AEROBIC GRANULATION PROCESS FOR WASTE TREATMENT. 2012 , 475-509		
589	Challenge for Formation of Aerobic Granular Sludge in a Continuous-Flow Reactor. 2012 , 10, 79-86		4
588	Formation of Nitrifying Granules Using a Continuous Stirred-Tank Reactor. 2012 , 10, 47-55		
587	Reactivation characteristics of stored aerobic granular sludge using different operational strategies. <i>Applied Microbiology and Biotechnology</i> , 2012 , 94, 1365-74	5-7	15
586	Formation of aerobic granules by Mg ²⁺ and Al ³⁺ augmentation in sequencing batch airlift reactor at low temperature. 2012 , 35, 1049-55		29
585	Fluorescent quenching for biofilm extracellular polymeric substances (EPS) bound with Cu(II). 2012 , 43, 450-454		24
584	Aerobic sludge granulation: a tale of two polysaccharides?. <i>Water Research</i> , 2012 , 46, 4803-13	12.5	133
583	Nitrous oxide emission and nutrient removal in aerobic granular sludge sequencing batch reactors. <i>Water Research</i> , 2012 , 46, 4981-90	12.5	46
582	Membrane Technology and Environmental Applications. 2012 ,		17

581	Removal and biotransformation of U(VI) and Cr(VI) by aerobically grown mixed microbial granules. 2012 , 38, 90-95		13
580	Development of an in situ dissolved oxygen measurement system and calculation of its effective diffusion coefficient in a biofilm. 2012 , 4, 2242		12
579	Application of response surface methodology for simultaneous carbon and nitrogen (SND) removal from dairy wastewater in batch systems. 2012 , 69, 962-986		11
578	Reactivation performance of aerobic granules under different storage strategies. <i>Water Research</i> , 2012 , 46, 3315-22	12.5	31
577	Long term operation of a granular sequencing batch reactor at pilot scale treating a low-strength wastewater. <i>Chemical Engineering Journal</i> , 2012 , 198-199, 163-170	14.7	61
576	The Short-term Effects of Temperature and Free Ammonia on Ammonium Oxidization in Granular and Floccular Nitrifying System. 2012 , 20, 1016-1023		5
575	Reaction kinetics of the degradation of chloroanilines and aniline by aerobic granule. <i>Biochemical Engineering Journal</i> , 2012 , 68, 215-220	4.2	26
574	Fractionation and characterization of dissolved extracellular and intracellular products derived from floccular sludge and aerobic granules. <i>Bioresource Technology</i> , 2012 , 123, 55-61	11	26
573	The effects of <i>Bacillus subtilis</i> on nitrogen recycling from aquaculture solid waste using heterotrophic nitrogen assimilation in sequencing batch reactors. <i>Bioresource Technology</i> , 2012 , 124, 180-5	11	26
572	Component analysis of extracellular polymeric substances (EPS) during aerobic sludge granulation using FTIR and 3D-EEM technologies. <i>Bioresource Technology</i> , 2012 , 124, 455-9	11	232
571	Recent Advances in Membrane Bioreactors: Configuration Development, Pollutant Elimination, and Sludge Reduction. 2012 , 29, 139-160		67
570	Cultivation of aerobic granules in a novel configuration of sequencing batch airlift reactor. <i>Environmental Technology (United Kingdom)</i> , 2012 , 33, 2273-80	2.6	5
569	Monitoring bacterial twitter: does quorum sensing determine the behavior of water and wastewater treatment biofilms?. <i>Environmental Science & Technology</i> , 2012 , 46, 1995-2005	10.3	202
568	P-nitrophenol biodegradation by aerobic microbial granules. 2012 , 167, 1569-77		37
567	Aerobic granulation: advances and challenges. 2012 , 167, 1622-40		127
566	Molecular dynamics unlocks atomic level self-assembly of the exopolysaccharide matrix of water-treatment granular biofilms. 2012 , 13, 1965-72		16
565	Comparison and analysis of membrane fouling between flocculent sludge membrane bioreactor and granular sludge membrane bioreactor. 2012 , 7, e40819		8
564	Granulation of nitrifying bacteria in a sequencing batch reactor for biological stabilisation of source-separated urine. 2012 , 166, 2114-26		15

563	Understanding the granulation process of activated sludge in a biological phosphorus removal sequencing batch reactor. 2012 , 86, 767-73		34
562	Decolorization and biodegradation of azo dye, reactive blue 59 by aerobic granules. <i>Bioresource Technology</i> , 2012 , 104, 818-22	11	78
561	Role and significance of extracellular polymeric substances on the property of aerobic granule. <i>Bioresource Technology</i> , 2012 , 107, 46-54	11	110
560	Treatment of saline wastewater by a sequencing batch reactor with emphasis on aerobic granule formation. <i>Bioresource Technology</i> , 2012 , 111, 21-6	11	43
559	Successful hydraulic strategies to start up OLAND sequencing batch reactors at lab scale. 2012 , 5, 403-14		18
558	Aerobic granular-type biomass development in a continuous stirred tank reactor. 2012 , 89, 199-205		28
557	Effect of coagulant-flocculant reagents on aerobic granular biomass. 2012 , 87, 908-913		11
556	Rapid establishment of p-nitrophenol biodegradation in acetate-fed aerobic granular sludge. 2012 , 166, 1225-35		16
555	Treatment of mature landfill leachate by a continuous modular internal micro-electrolysis Fenton reactor. 2013 , 39, 2763-2776		11
554	Determination of optimum conditions for dairy wastewater treatment in UAASB reactor for removal of nutrients. <i>Bioresource Technology</i> , 2013 , 145, 71-9	11	48
553	Enhanced aerobic granulation and nitrogen removal by the addition of zeolite powder in a sequencing batch reactor. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 9235-43	5-7	28
552	Disintegration of aerobic granules induced by trans-2-decenoic acid. <i>Bioresource Technology</i> , 2013 , 128, 823-6	11	9
551	Aerobic granules dwelling vorticella and rotifers in an SBR fed with domestic wastewater. 2013 , 110, 127-131		25
550	The stability of aerobic granular sludge under 4-chloroaniline shock in a sequential air-lift bioreactor (SABR). <i>Bioresource Technology</i> , 2013 , 140, 126-30	11	37
549	Simultaneous nitrogen and organic carbon removal in aerobic granular sludge reactors operated with high dissolved oxygen concentration. <i>Bioresource Technology</i> , 2013 , 142, 706-13	11	46
548	Disintegration of aerobic granules: role of second messenger cyclic di-GMP. <i>Bioresource Technology</i> , 2013 , 146, 330-335	11	76
547	Alternating anoxic/oxic condition combined with step-feeding mode for nitrogen removal in granular sequencing batch reactors (GSBRs). 2013 , 105, 63-68		25
546	Comparison of high pressure and ambient pressure aerobic granulation sequential batch reactor processes. <i>Bioresource Technology</i> , 2013 , 140, 28-35	11	3

545	Aerobic granulation for wastewater bioremediation: A review. 2013 , 91, 1045-1058		64
544	Use of steady-state biofilm model to characterize aerobic granular sludge. <i>Environmental Science & Technology</i> , 2013 , 47, 12291-6	10.3	10
543	Effects of Cu ²⁺ on morphological structure, functional groups, and elemental composition of aerobic granular sludge. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 219-24	2.6	12
542	Adsorption&desorption of strontium from waters using aerobic granules. 2013 , 44, 454-457		18
541	The chemical and mechanical differences between alginate-like exopolysaccharides isolated from aerobic flocculent sludge and aerobic granular sludge. <i>Water Research</i> , 2013 , 47, 57-65	12.5	105
540	Correlation analysis of major control factors for the formation and stabilization of aerobic granule. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 3165-75	5.1	10
539	Partial nitrification using aerobic granules in continuous-flow reactor: rapid startup. <i>Bioresource Technology</i> , 2013 , 142, 517-22	11	46
538	Operation of an aerobic granular pilot scale SBR plant to treat swine slurry. 2013 , 48, 1216-1221		43
537	Freezing of aerobic granules for storage and subsequent recovery. 2013 , 44, 770-773		21
536	The membrane fouling characteristics of MBRs with different aerobic granular sludges at high flux. <i>Bioresource Technology</i> , 2013 , 136, 488-95	11	38
535	Performance of an aerobic granular sequencing batch reactor fed with wastewaters contaminated with Zn ²⁺ . <i>Journal of Environmental Management</i> , 2013 , 128, 877-82	7.9	9
534	Drying and re-cultivation of aerobic granules. <i>Bioresource Technology</i> , 2013 , 129, 700-3	11	24
533	A novel control strategy for enhancing biological N-removal in a granular sequencing batch reactor: A model-based study. <i>Chemical Engineering Journal</i> , 2013 , 232, 468-477	14.7	19
532	Simultaneous biological removal of nitrogen-sulfur-carbon: recent advances and challenges. <i>Biotechnology Advances</i> , 2013 , 31, 409-20	17.8	78
531	The effects of aerobic/anoxic period sequence on aerobic granulation and COD/N treatment efficiency. <i>Bioresource Technology</i> , 2013 , 148, 149-56	11	12
530	Unconventional approaches to isolation and enrichment of functional microbial consortium--a review. <i>Bioresource Technology</i> , 2013 , 136, 697-706	11	39
529	Granulation of activated sludge in a continuous flow airlift reactor by strong drag force. 2013 , 18, 289-299		28
528	Influence of sodium hypochlorite used for chemical enhanced backwashing on biophysical treatment in MBR. 2013 , 316, 104-109		51

527	High-rate nitrogen removal and its behavior of granular sequence batch reactor under step-feed operational strategy. <i>Bioresource Technology</i> , 2013 , 134, 101-6	11	16
526	Influence of temperature on the partial nitrification of reject water in a granular sequencing batch reactor. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2625-32	2.6	3
525	Introduction. 2013 , 1-25		
524	<i>Saccharomyces cerevisiae</i> for the biosorption of basic dyes from binary component systems and the high order derivative spectrophotometric method for simultaneous analysis of Brilliant green and Methylene blue. 2013 , 19, 227-233		82
523	Nitrous oxide emission in an aerobic granulation sequencing batch airlift reactor at ambient temperatures. 2013 , 85, 533-538		19
522	Strong selection pressures impact the capacity of flocculating activated sludge bacteria to granulate. 2013 , 67, 1678-87		2
521	Archaeal diversity in biofilm technologies applied to treat urban and industrial wastewater: recent advances and future prospects. 2013 , 14, 18572-98		29
520	Rapid cultivation of aerobic granular sludge by bone glue augmentation and contaminant removal characteristics. 2013 , 67, 1627-33		5
519	Aerobic granulation in a sequencing batch reactor for the treatment of piggery wastewater. 2013 , 85, 239-44		2
518	Recovery of stored aerobic granular sludge and its contaminants removal efficiency under different operation conditions. 2013 , 2013, 168581		3
517	Settling and dewatering characteristics of mixed microorganisms according to changes in the SRT. 2013 , 51, 6201-6209		2
516	How microorganisms use hydrophobicity and what does this mean for human needs?. 2014 , 4, 112		274
515	Quorum quenching mediated approaches for control of membrane biofouling. 2014 , 10, 550-65		111
514	Structure analysis of aerobic granule from a sequencing batch reactor for organic matter and ammonia nitrogen removal. <i>International Journal of Environmental Research and Public Health</i> , 2014 , 11, 2427-36	4.6	5
513	Comparison of Mg ²⁺ - and Ca ²⁺ -enhancing anaerobic granulation in an expanded granular sludge-bed reactor. 2014 , 57, 1596-1601		13
512	A Review on Aerobic Granular Sludge for Heavy Metal Wastewater Treatment. 2014 , 535, 213-216		1
511	Aerobic sludge granulation in a full-scale sequencing batch reactor. 2014 , 2014, 268789		31
510	Selection pressure theory for aerobic granulation - an overview. 2014 , 13, 317		8

509	Aerobic granules formation and simultaneous nitrogen and phosphorus removal treating high strength ammonia wastewater in sequencing batch reactor. <i>Bioresource Technology</i> , 2014 , 171, 211-6	11	58
508	Use low direct current electric field to augment nitrification and structural stability of aerobic granular sludge when treating low COD/NH ₄ -N wastewater. <i>Bioresource Technology</i> , 2014 , 171, 139-44	11	31
507	Optimal cultivation of simultaneous ammonium and phosphorus removal aerobic granular sludge in A/O/A sequencing batch reactor and the assessment of functional organisms. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 1979-88	2.6	13
506	Aerobic granules: microbial landscape and architecture, stages, and practical implications. 2014 , 80, 3433-41		36
505	The Characteristics of Biological Nutrient Removal in a SBR through Aerobic Granular Sludge. 2014 , 522-524, 161-167		
504	The characteristic and comparison of denitrification potential in granular sequence batch reactor under different mixing conditions. <i>Chemical Engineering Journal</i> , 2014 , 240, 589-594	14.7	11
503	The effect of quorum sensing and extracellular proteins on the microbial attachment of aerobic granular activated sludge. <i>Bioresource Technology</i> , 2014 , 152, 53-8	11	83
502	Biosorption of antimony(V) onto Fe(III)-treated aerobic granules. <i>Bioresource Technology</i> , 2014 , 158, 351-4	11	29
501	The microbial attachment potential and quorum sensing measurement of aerobic granular activated sludge and flocculent activated sludge. <i>Bioresource Technology</i> , 2014 , 151, 291-6	11	33
500	Ultrasound stimulated production of a fibrinolytic enzyme. 2014 , 21, 182-8		46
499	Rate limiting factors in trichloroethylene co-metabolic degradation by phenol-grown aerobic granules. 2014 , 25, 227-37		5
498	Specific aerobic granules can be developed in a completely mixed tank reactor by bioaugmentation using micro-mycelial pellets of <i>Phanerochaete chrysosporium</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 2687-97	5.7	12
497	Microbial community analysis for aerobic granular sludge reactor treating high-level 4-chloroaniline wastewater. 2014 , 11, 1845-1854		21
496	Successful application of nitritation/anammox to wastewater with elevated organic carbon to ammonia ratios. <i>Water Research</i> , 2014 , 49, 316-26	12.5	192
495	Role of N-acyl homoserine lactone (AHL)-based quorum sensing (QS) in aerobic sludge granulation. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 7623-32	5.7	38
494	Effect of the Organic Matter to Ammonia Ratio on Aerobic Granulation during 4-Chlorophenol Degradation in a Sequencing Batch Reactor. 2014 , 42, 428-433		5
493	Adsorption of ammonium by aerobic granules under high ammonium levels. 2014 , 45, 202-206		15
492	Characteristics and performance of aerobic granular sludge treating rubber wastewater at different hydraulic retention time. <i>Bioresource Technology</i> , 2014 , 161, 155-61	11	47

491	Aerobic granulation of aggregating consortium X9 isolated from aerobic granules and role of cyclic di-GMP. <i>Bioresource Technology</i> , 2014 , 152, 557-61	11	33
490	Characteristics of aerobic granulation at mesophilic temperatures in wastewater treatment. <i>Bioresource Technology</i> , 2014 , 151, 78-84	11	25
489	Performance of aerobic granular sludge in a sequencing batch bioreactor exposed to ofloxacin, norfloxacin and ciprofloxacin. <i>Water Research</i> , 2014 , 50, 101-13	12.5	148
488	Saline storage of aerobic granules and subsequent reactivation. <i>Bioresource Technology</i> , 2014 , 172, 418-422	11	14
487	Treatment of nitrate-rich water in a baffled membrane bioreactor (MBR) employing waste derived materials. <i>Journal of Environmental Management</i> , 2014 , 146, 16-21	7.9	6
486	Use of aerobic granules for treating synthetic high-strength ammonium wastewaters. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 1785-90	2.6	14
485	Accelerated aerobic granulation using alternating feed loadings: alginate-like exopolysaccharides. <i>Bioresource Technology</i> , 2014 , 171, 360-6	11	54
484	A novel environmental biotechnological aerobic process (BioAX) for the treatment of coal gasification wastewater. 2014 , 4, 35156		11
483	Fungi aerobic granules and use of Fe(III)-treated granules for biosorption of antimony(V). 2014 , 45, 2610-2614		18
482	Partial nitrification using aerobic granule continuous-flow reactor: Operations and microbial community. 2014 , 45, 2681-2687		15
481	Microbial communities of aerobic granules: granulation mechanisms. <i>Bioresource Technology</i> , 2014 , 169, 344-351	11	124
480	Influence of hydraulic retention time on partial nitrification of continuous-flow aerobic granular-sludge reactor. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 1760-5	2.6	11
479	Understanding the role of extracellular polymeric substances in an enhanced biological phosphorus removal granular sludge system. <i>Bioresource Technology</i> , 2014 , 169, 307-312	11	58
478	Enhancement of aerobic granulation by zero-valent iron in sequencing batch airlift reactor. 2014 , 279, 511-7		60
477	Enhanced aerobic granulation, stabilization, and nitrification in a continuous-flow bioreactor by inoculating biofilms. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5737-45	5.7	13
476	Simulation of wastewater treatment by aerobic granules in a sequencing batch reactor based on cellular automata. 2014 , 37, 2049-59		9
475	Comparison of nitrous oxide emissions in partial nitrifying and full nitrifying granular sludge reactors treating ammonium-rich wastewater. <i>Bioresource Technology</i> , 2014 , 171, 487-90	11	25
474	Ultrasound assisted production of daunorubicin: Process intensification approach. 2014 , 77, 7-12		15

473	Ultrasound assisted three phase partitioning of a fibrinolytic enzyme. 2014 , 21, 628-33		62
472	Enhanced production of fumigaclavine C by ultrasound stimulation in a two-stage culture of <i>Aspergillus fumigatus</i> CY018. <i>Bioresource Technology</i> , 2014 , 159, 112-7	11	23
471	The role of N-acyl homoserine lactones in maintaining the stability of aerobic granules. <i>Bioresource Technology</i> , 2014 , 159, 305-10	11	30
470	Comparison of nanosilver removal by flocculent and granular sludge and short- and long-term inhibition impacts. <i>Water Research</i> , 2014 , 58, 62-70	12.5	64
469	A rheological approach to analyze aerobic granular sludge. <i>Water Research</i> , 2014 , 50, 171-8	12.5	29
468	Partial nitrification of wastewaters with high NaCl concentrations by aerobic granules in continuous-flow reactor. <i>Bioresource Technology</i> , 2014 , 152, 1-6	11	54
467	Transcriptional responses of bacterial amoA gene to dimethyl sulfide inhibition in complex microbial communities. <i>Bioresource Technology</i> , 2014 , 165, 137-44	11	9
466	Long-term storage of aerobic granules in liquid media: viable but non-culturable status. <i>Bioresource Technology</i> , 2014 , 166, 464-70	11	26
465	The treatment of solvent recovery raffinate by aerobic granular sludge in a pilot-scale sequencing batch reactor. 2015 , 13, 746-57		3
464	Accelerating Aerobic Sludge Granulation by Adding Dry Sewage Sludge Micropowder in Sequencing Batch Reactors. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 10056-65	4.6	21
463	Characteristics of aerobic granulation at different organic and ammonium compositions. 2015 , 54, 1109-1117		5
462	A high efficiency biological system for treatment of coal gasification wastewater – a key in-depth technological research. 2015 , 5, 40402-40413		18
461	Bacterial Degradation of Textile Dyes. 2015 , 243-266		3
460	Aerobic sludge granulation in a Reverse Flow Baffled Reactor (RFBR) operated in continuous-flow mode for wastewater treatment. 2015 , 149, 437-444		21
459	Fast formation of aerobic granules by combining strong hydraulic selection pressure with overstressed organic loading rate. <i>Water Research</i> , 2015 , 80, 256-66	12.5	83
458	Multilevel contact oxidation treatment of brewery wastewater using spiral biological carriers and their nitrogen removal mechanism. 2015 , 18, 30		3
457	A comprehensive comparison of bacterial and fungal aerobic granules: formation, properties, surface modification, and biosorption of metals. 2015 , 5, 104062-104070		6
456	Aggregate formation affects ultrasonic disruption of microalgal cells. <i>Bioresource Technology</i> , 2015 , 198, 907-12	11	5

455	Microbial Degradation of Synthetic Dyes in Wastewaters. 2015 ,		13
454	Effect of algae growth on aerobic granulation and nutrients removal from synthetic wastewater by using sequencing batch reactors. <i>Bioresource Technology</i> , 2015 , 179, 187-192	11	124
453	Removal of fluoxetine and its effects in the performance of an aerobic granular sludge sequential batch reactor. 2015 , 287, 93-101		44
452	Bacterial diguanylate cyclases: structure, function and mechanism in exopolysaccharide biofilm development. <i>Biotechnology Advances</i> , 2015 , 33, 124-141	17.8	54
451	Response of aerobic granular sludge to the long-term presence to nanosilver in sequencing batch reactors: reactor performance, sludge property, microbial activity and community. <i>Science of the Total Environment</i> , 2015 , 506-507, 226-33	10.2	37
450	Toxic and inhibitory effects of trichloroethylene aerobic co-metabolism on phenol-grown aerobic granules. 2015 , 286, 204-10		21
449	Cultivation of aerobic granules under different pre-anaerobic reaction times in sequencing batch reactors. 2015 , 142, 149-154		9
448	Tolerance to organic loading rate by aerobic granular sludge in a cyclic aerobic granular reactor. <i>Bioresource Technology</i> , 2015 , 182, 314-322	11	55
447	Optimization of hydraulic shear parameters and reactor configuration in the aerobic granular sludge process. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 1605-11	2.6	12
446	Role of extracellular polymeric substances in biosorption of dye wastewater using aerobic granular sludge. <i>Bioresource Technology</i> , 2015 , 185, 14-20	11	63
445	Aerobic granular sludge-derived activated carbon: mineral acid modification and superior dye adsorption capacity. 2015 , 5, 25279-25286		26
444	Characterization of the bacterial communities of aerobic granules in a 2-fluorophenol degrading process. 2015 , 5, 98-104		8
443	Influence of Mg ²⁺ catalyzed granular sludge on flux sustainability in a sequencing batch membrane bioreactor system. <i>Chemical Engineering Journal</i> , 2015 , 281, 404-410	14.7	11
442	Influence of an aniline supplement on the stability of aerobic granular sludge. <i>Journal of Environmental Management</i> , 2015 , 162, 115-22	7.9	17
441	Effective aerobic granulation: Role of seed sludge. 2015 , 52, 118-119		12
440	Diameter control and stability maintenance of aerobic granular sludge in an A/O/A SBR. 2015 , 149, 362-369		36
439	Characteristics of developed granules containing phototrophic aerobic bacteria for minimizing carbon dioxide emission. 2015 , 102, 15-23		18
438	Long-Term Effect of Seawater on Sulfate Reduction in Wastewater Treatment. 2015 , 32, 622-630		13

437	Species and distribution of inorganic and organic phosphorus in enhanced phosphorus removal aerobic granular sludge. <i>Bioresource Technology</i> , 2015 , 193, 549-52	11	61
436	Toxicity of bisphenol A to aerobic granular sludge in sequencing batch reactors. 2015 , 209, 284-288		43
435	Continuous flow aerobic granular sludge reactor for dairy wastewater treatment. 2015 , 71, 440-5		18
434	Aerobic sludge granulation at high temperatures for domestic wastewater treatment. <i>Bioresource Technology</i> , 2015 , 185, 445-9	11	30
433	Aerobic granulation strategy for bioaugmentation of a sequencing batch reactor (SBR) treating high strength pyridine wastewater. 2015 , 295, 153-60		46
432	Effect and behaviour of different substrates in relation to the formation of aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 5257-68	5.7	90
431	Comparing aerobic granular sludge and flocculent sequencing batch reactor technologies for textile wastewater treatment. <i>Biochemical Engineering Journal</i> , 2015 , 104, 57-63	4.2	39
430	Effect of calcium addition on sludge properties and membrane fouling potential of the membrane-coupled expanded granular sludge bed process. 2015 , 489, 55-63		20
429	Investigation of the use of aerobic granules for the treatment of sugar beet processing wastewater. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 2577-87	2.6	10
428	Magnesium carbonate precipitate strengthened aerobic granules. <i>Bioresource Technology</i> , 2015 , 183, 136-40	11	16
427	Nitrogen-converting communities in aerobic granules at different hydraulic retention times (HRTs) and operational modes. 2015 , 31, 75-83		13
426	Forward osmosis membrane bioreactor for wastewater treatment with phosphorus recovery. <i>Bioresource Technology</i> , 2015 , 198, 418-23	11	37
425	Role of extracellular polymeric substances (EPS) production in bioaggregation: application to wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 9883-905	5.7	131
424	Rapid cultivation of aerobic granular sludge in a continuous flow reactor. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 2966-2973	6.8	15
423	Denitrification accelerates granular sludge formation in sequencing batch reactors. <i>Bioresource Technology</i> , 2015 , 196, 28-34	11	15
422	Characteristics of the adsorbed heavy metals onto aerobic granules: isotherms and distributions. 2015 , 53, 2388-2402		11
421	Formation of bacterial aerobic granules: Role of propionate. <i>Bioresource Technology</i> , 2015 , 197, 489-94	11	30
420	Influence of Partial Denitrification and Mixotrophic Growth of NOB on Microbial Distribution in Aerobic Granular Sludge. <i>Environmental Science & Technology</i> , 2015 , 49, 11003-10	10.3	41

419	Optimizing upflow velocity and calcium precipitation in denitrifying granular systems. 2015 , 50, 1656-1661		6
418	Long-term effect of low concentration Cr(VI) on P removal in granule-based enhanced biological phosphorus removal (EBPR) system. 2015 , 121, 76-83		24
417	Calcium precipitate induced aerobic granulation. <i>Bioresource Technology</i> , 2015 , 176, 32-7	11	73
416	Identification of inorganic and organic species of phosphorus and its bio-availability in nitrifying aerobic granular sludge. <i>Water Research</i> , 2015 , 68, 423-31	12.5	83
415	High frequency ultrasound-induced sequence batch reactor as a practical solution for high rate wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 217-226	6.8	11
414	Membrane Bioreactor (MBR) Technology for Wastewater Treatment and Reclamation: Membrane Fouling. 2016 , 6,		177
413	Bacterial community dynamics in long-term operation of a pilot plant using aerobic granular sludge to treat pig slurry. 2016 , 32, 1212-1221		19
412	Rapid formation and pollutant removal ability of aerobic granules in a sequencing batch airlift reactor at low temperature. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 3078-85	2.6	23
411	Nitrifier Augmentation for High Ammonia Nitrogen Removal by Aerobic Granular Sludge at Low Temperatures. 2016 , 44, 525-531		6
410	Strengthening aerobic granule by salt precipitation. <i>Bioresource Technology</i> , 2016 , 218, 1253-6	11	5
409	A Fluorescence Approach to Assess the Production of Soluble Microbial Products from Aerobic Granular Sludge Under the Stress of 2,4-Dichlorophenol. 2016 , 6, 24444		15
408	Culture of denitrifying phosphorus removal granules with different influent wastewater. 2016 , 57, 17247-17254		41
407	Startup and long term operation of enhanced biological phosphorus removal in continuous-flow reactor with granules. <i>Bioresource Technology</i> , 2016 , 212, 92-99	11	18
406	Enhanced biological phosphorus removal using granules in continuous-flow reactor. <i>Chemical Engineering Journal</i> , 2016 , 298, 107-116	14.7	18
405	Optimizing granules size distribution for aerobic granular sludge stability: Effect of a novel funnel-shaped internals on hydraulic shear stress. <i>Bioresource Technology</i> , 2016 , 216, 562-70	11	37
404	Effect of reactor height/diameter ratio and organic loading rate on formation of aerobic granular sludge in sewage treatment. 2016 , 112, 1-11		26
403	Acyl-homoserine lactone-based quorum sensing and quorum quenching hold promise to determine the performance of biological wastewater treatments: An overview. 2016 , 157, 137-51		145
402	Effect of C/N ratio on denitrification of high-strength nitrate wastewater in anoxic granular sludge sequencing batch reactors. 2016 , 91, 441-448		61

401	Granulation of sulfur-oxidizing bacteria for autotrophic denitrification. <i>Water Research</i> , 2016 , 104, 507-512	5	79
400	Effect of operational strategies on activated sludge acclimation to phenol, subsequent aerobic granulation, and accumulation of polyhydroxyalkanoates. 2016 , 317, 221-228		17
399	Microstructural strength deterioration of aerobic granule sludge under organic loading swap. <i>Bioresource Technology</i> , 2016 , 221, 671-676	11	10
398	Granulation of susceptible sludge under carbon deficient conditions: A case of denitrifying sulfur conversion-associated EBPR process. <i>Water Research</i> , 2016 , 103, 444-452	12.5	19
397	Influence of high temperature on the performance of aerobic granular sludge in biological treatment of wastewater. <i>Journal of Environmental Management</i> , 2016 , 184, 271-280	7.9	24
396	Treatment of a simulated wastewater amended with a chiral pharmaceuticals mixture by an aerobic granular sludge sequencing batch reactor. 2016 , 115, 277-285		44
395	Aerobic granulation of protein-rich granules from nitrogen-lean wastewaters. <i>Bioresource Technology</i> , 2016 , 218, 469-75	11	17
394	Mathematical simulating the process of aerobic granular sludge treating high carbon and nitrogen concentration wastewater. <i>Chemical Engineering Journal</i> , 2016 , 306, 676-684	14.7	20
393	Effect of sludge retention time on continuous-flow system with enhanced biological phosphorus removal granules at different COD loading. <i>Bioresource Technology</i> , 2016 , 219, 14-20	11	15
392	Influence of feeding pattern and hydraulic selection pressure to control filamentous bulking in biological treatment of dairy wastewaters. <i>Bioresource Technology</i> , 2016 , 221, 300-309	11	20
391	Extraction of Structural Extracellular Polymeric Substances from Aerobic Granular Sludge. 2016 ,		35
390	A case for aerobic sludge granulation: from pilot to full scale. 2016 , 6, 188-194		13
389	Nitrous oxide emissions from an aerobic granular sludge system treating low-strength ammonium wastewater. 2016 , 122, 601-605		14
388	Aerobic granular sludge stabilization in biocathode chamber of newly constructed continue flow microbial fuel cell system treating synthetic and pharmaceutical wastewater. 2016 , 57, 3414-3423		4
387	Comparative study on SBNR, GSBR and Anammox for combined treatment of anaerobic digester effluent. 2016 , 20, 590-596		2
386	Alternated phenol and trichloroethylene biodegradation in an aerobic granular sludge reactor. <i>Biochemical Engineering Journal</i> , 2016 , 106, 1-10	4.2	18
385	The role of autoinducer-2 in aerobic granulation using alternating feed loadings strategy. <i>Bioresource Technology</i> , 2016 , 201, 58-64	11	26
384	Formation and performance of partial nitrification granular sludge treating domestic sewage. 2016 , 57, 3430-3439		4

383	Occurrence, impacts and removal of emerging substances of concern from wastewater. 2016 , 5, 161-175		57
382	Fluoroquinolones biosorption onto microbial biomass: activated sludge and aerobic granular sludge. 2016 , 110, 53-60		39
381	Effects of lead concentration and accumulation on the performance and microbial community of aerobic granular sludge in sequencing batch reactors. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 2905-15	2.6	6
380	Partial nitrification process by seeding aerobic and anaerobic granular sludge. 2016 , 57, 7855-7865		
379	Understanding of aerobic granulation enhanced by starvation in the perspective of quorum sensing. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 3747-55	5.7	38
378	Aerobic granular processes: Current research trends. <i>Bioresource Technology</i> , 2016 , 210, 74-80	11	118
377	Influent COD/TAN ratio affects the carbon and nitrogen removal efficiency and stability of aerobic granules. 2016 , 90, 12-24		36
376	Advances in biological systems for the treatment of high-strength wastewater. <i>Journal of Water Process Engineering</i> , 2016 , 10, 128-142	6.7	55
375	Granulation of Non-filamentous Bulking Sludge Directed by pH, ORP and DO in an Anaerobic/Aerobic/Anoxic SBR. 2016 , 178, 184-96		3
374	Microbial dynamics and properties of aerobic granules developed in a laboratory-scale sequencing batch reactor with an intermediate filamentous bulking stage. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 447-60	5.7	28
373	Approaching the binding between Cu(II) and aerobic granules by a modified titration and μ -XRF. 2016 , 10, 362-367		8
372	Effects of hydraulic retention time on aerobic granulation and granule growth kinetics at steady state with a fast start-up strategy. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 469-77	5.7	31
371	Development of a novel process to mitigate membrane fouling in a continuous sludge system by seeding aerobic granules at pilot plant. 2016 , 497, 90-98		34
370	Decreasing effect and mechanism of moisture content of sludge biomass by granulation process. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 192-201	2.6	6
369	Effect of Cr(VI) on the microbial activity of aerobic granular sludge. 2016 , 57, 7000-7008		5
368	Utilization of inactivated aerobic granular sludge as a potential adsorbent for the removal of sunset yellow FCF. 2016 , 57, 7334-7344		6
367	Experimentation and mathematical models for partial nitrification in aerobic granular sludge process. 2017 , 21, 127-133		4
366	Aerobic granular sludge inoculated microbial fuel cells for enhanced epoxy reactive diluent wastewater treatment. <i>Bioresource Technology</i> , 2017 , 229, 126-133	11	15

365	Using nuclear microscopy to characterize the interaction of textile-used silver nanoparticles with a biological wastewater treatment system. 2017 , 404, 150-154		3
364	Responses of the Microalga <i>Chlorophyta</i> sp. to Bacterial Quorum Sensing Molecules (N-Acylhomoserine Lactones): Aromatic Protein-Induced Self-Aggregation. <i>Environmental Science & Technology</i> , 2017 , 51, 3490-3498	10.3	61
363	Function of quorum sensing and cell signaling in the formation of aerobic granular sludge. 2017 , 16, 1-13		31
362	Effects of ferrous iron on the performance and microbial community in aerobic granular sludge in relation to nutrient removal. 2017 , 33, 716-725		8
361	The influences of inoculants from municipal sludge and solid waste on compost stability, maturity and enzyme activities during chicken manure composting. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 1770-1778	2.6	15
360	Influence of operational conditions on the stability of aerobic granules from the perspective of quorum sensing. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 7640-7649	5.1	7
359	Use of Nonsteady-state Biofilm Model to characterize heterotrophic and autotrophic biomass within aerobic granules. 2017 , 21, 2584-2589		4
358	Application of grey system theory on the influencing parameters of aerobic granulation in SBR. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 2143-2152	2.6	2
357	Formation of aerobic granular sludge during the treatment of petrochemical wastewater. <i>Bioresource Technology</i> , 2017 , 238, 559-567	11	40
356	Characterization of dissolved organic matter released from activated sludge and aerobic granular sludge biosorption processes for heavy metal treatment via a fluorescence approach. 2017 , 124, 326-333		25
355	Start-up and operation of an aerobic granular sludge system under low working temperature inoculated with cold-adapted activated sludge from Finland. <i>Bioresource Technology</i> , 2017 , 239, 180-189 ¹¹		39
354	Performance and microbial population dynamics during stable operation and reactivation after extended idle conditions in an aerobic granular sequencing batch reactor. <i>Bioresource Technology</i> , 2017 , 238, 116-121	11	36
353	Comparing young landfill leachate treatment efficiency and process stability using aerobic granular sludge and suspended growth activated sludge. <i>Journal of Water Process Engineering</i> , 2017 , 17, 161-167 ^{6.7}		34
352	Effects of salinity on the performance, microbial community, and functional proteins in an aerobic granular sludge system. 2017 , 184, 1241-1249		33
351	Hydrocarbon degradation capacity and population dynamics of a microbial consortium obtained using a sequencing batch reactor in the presence of molasses. 2017 , 22, 170-177		3
350	Effective biotransformation and detoxification of anthraquinone dye reactive blue 4 by using aerobic bacterial granules. <i>Water Research</i> , 2017 , 122, 603-613	12.5	57
349	Elucidation of microbial characterization of aerobic granules in a sequencing batch reactor performing simultaneous nitrification, denitrification and phosphorus removal at varying carbon to phosphorus ratios. <i>Bioresource Technology</i> , 2017 , 241, 127-133	11	19
348	Predation by <i>Bdellovibrio bacteriovorus</i> significantly reduces viability and alters the microbial community composition of activated sludge flocs and granules. 2017 , 93,		29

347	Simultaneous partial nitrification and 2-fluorophenol biodegradation with aerobic granular biomass: Reactor performance and microbial communities. <i>Bioresource Technology</i> , 2017 , 238, 232-240	11	18
346	Membrane fouling control in membrane bioreactors (MBRs) using granular materials. <i>Bioresource Technology</i> , 2017 , 240, 9-24	11	85
345	The effect of the feeding pattern of complex industrial wastewater on activated sludge characteristics and the chemical and ecotoxicological effluent quality. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 10796-10807	5.1	5
344	Effects of magnetic nanoparticles on aerobic granulation process. <i>Bioresource Technology</i> , 2017 , 227, 44-49	11	25
343	Analysis of bacterial, fungal and archaeal populations from a municipal wastewater treatment plant developing an innovative aerobic granular sludge process. 2017 , 33, 14		24
342	Removal of pollutants and pathogens by a simplified treatment scheme for municipal wastewater reuse in agriculture. <i>Science of the Total Environment</i> , 2017 , 580, 17-25	10.2	33
341	Aerobic granulation accelerated by biochar for the treatment of refractory wastewater. <i>Chemical Engineering Journal</i> , 2017 , 314, 88-97	14.7	49
340	Biomass aggregation influences NaN short-term effects on anammox bacteria activity. 2017 , 75, 1007-1013		2
339	Transformation of anaerobic granules into aerobic granules and the succession of bacterial community. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 7703-7713	5.7	17
338	Metatranscriptomic and metagenomic description of the bacterial nitrogen metabolism in waste water wet oxidation effluents. 2017 , 3, e00427		8
337	Rapid formation of aniline-degrading aerobic granular sludge and investigation of its microbial community succession. <i>Journal of Cleaner Production</i> , 2017 , 166, 1235-1243	10.3	35
336	Aeration control strategies to stimulate simultaneous nitrification-denitrification via nitrite during the formation of aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 6829-6839	5.7	7
335	A comparative study on denitrifying sludge granulation with different electron donors: Sulfide, thiosulfate and organics. 2017 , 186, 322-330		16
334	Monitoring biological wastewater treatment processes: recent advances in spectroscopy applications. 2017 , 16, 395-424		33
333	Bacterial Treatment of Pharmaceutical Industry Effluents. 2017 , 175-187		3
332	Partial Nitrification-Anammox Granules: Short-Term Inhibitory Effects of Seven Metals on Anammox Activity. 2017 , 228, 1		10
331	Overcoming Microalgae Harvesting Barrier by Activated Algae Granules. 2017 , 7, 4646		54
330	Greywater treatment in an aerobic SBR: sludge structure and kinetics. 2017 , 76, 1535-1544		6

329	Role of CODPCP/CODTotal ratio on p-chlorophenol toxicity towards aerobic granular sludge. 2017 , 54, 440-446		8
328	Granular biomass floatation: A simple kinetic/stoichiometric explanation. <i>Chemical Engineering Journal</i> , 2017 , 311, 63-71	14.7	20
327	Granulation of activated sludge under low hydrodynamic shear and different wastewater characteristics. <i>Bioresource Technology</i> , 2017 , 224, 229-235	11	42
326	Rapid aerobic granulation in an SBR treating piggery wastewater by seeding sludge from a municipal WWTP. 2017 , 51, 332-341		46
325	Implementation of an External Selector to Improve the Stability and Nutrient Removal of Aerobic Granular Sludge with Low-Strength Municipal Wastewater. 2017 , 2017, 461-467		
324	Effects of the Food-to-Microorganism (F/M) Ratio on N ₂ O Emissions in Aerobic Granular Sludge Sequencing Batch Airlift Reactors. <i>Water (Switzerland)</i> , 2017 , 9, 477	3	8
323	Anaerobic Treatment Versus Aerobic Treatment. 2017 , 205-230		8
322	Aerobic Treatment of Effluents From Pulp and Paper Industries. 2017 , 103-130		3
321	Microalgal Cultivation in Secondary Effluent: Recent Developments and Future Work. 2017 , 18,		25
320	Deciphering Physiological Functions of AHL Quorum Quenching Acylases. 2017 , 8, 1123		36
319	Enhanced Aerobic Sludge Granulation by Seeding Concentrated Activated Sludge with Ca-Alginate Gel. 2017 , 89, 2078-2087		7
318	Structural Stabilization of Granular Sludge by Addition of Calcium Ions into Aerobic Bioreactors. 2017 , 13,		1
317	DEVELOPMENT OF BIOGRANULES IN A PILOT-SCALE SEQUENTIAL BATCH REACTOR TREATING ACTUAL TEXTILE WASTEWATER. 2017 , 79,		2
316	State of the art on granular sludge by using bibliometric analysis. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3453-3473	5.7	11
315	Gradient reduced aeration in an enhanced aerobic granular sludge process optimizes the dominant microbial community and its function. 2018 , 4, 680-688		4
314	Bisphenols: Application, occurrence, safety, and biodegradation mediated by bacterial communities in wastewater treatment plants and rivers. 2018 , 201, 214-223		81
313	High rate treatment of hospital wastewater using activated sludge process induced by high-frequency ultrasound. 2018 , 46, 89-98		8
312	Simultaneous Cr(VI) bio-reduction and methane production by anaerobic granular sludge. <i>Bioresource Technology</i> , 2018 , 262, 15-21	11	19

311	Aerobic granules cultivated with simultaneous feeding/draw mode and low-strength wastewater: Performance and bacterial community analysis. <i>Bioresource Technology</i> , 2018 , 261, 232-239	11	27
310	Rapid cultivation of aerobic granular sludge by xanthan gum in SBR reactors. 2018 , 2017, 360-369		5
309	Integration of aerobic granular sludge and membrane bioreactors for wastewater treatment. 2018 , 38, 801-816		21
308	Rapid formation and characterization of aerobic granules in pilot-scale sequential batch reactor for high-strength organic wastewater treatment. <i>Journal of Water Process Engineering</i> , 2018 , 22, 27-33	6.7	23
307	Simultaneous organics and nutrients removal in side-stream aerobic granular sludge membrane bioreactor (AGMBR). <i>Journal of Water Process Engineering</i> , 2018 , 21, 127-132	6.7	13
306	Optimization of F/M ratio for stability of aerobic granular process via quantitative sludge discharge. <i>Bioresource Technology</i> , 2018 , 252, 150-156	11	51
305	The role of extracellular polymeric substances on aerobic granulation with stepwise increase of salinity. 2018 , 195, 12-20		40
304	Aerobic granulation: A recent development on the biological treatment of pulp and paper wastewater. 2018 , 9, 265-274		29
303	The mechanisms of granulation of activated sludge in wastewater treatment, its optimization, and impact on effluent quality. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 5005-5020	5.7	80
302	Treatment of municipal wastewater with aerobic granular sludge. 2018 , 48, 119-166		43
301	Microbial community structure and function in aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3967-3979	5.7	68
300	Qualitative and quantitative spectrometric evaluation of soluble microbial products formation in aerobic granular sludge system treating nitrate wastewater. 2018 , 41, 841-850		4
299	Simultaneous pyridine biodegradation and nitrogen removal in an aerobic granular system. 2018 , 67, 318-329		20
298	Bacterial community dynamics within an aerobic granular sludge reactor treating wastewater loaded with pharmaceuticals. 2018 , 147, 905-912		35
297	Qualitatively and quantitatively assessing the aggregation ability of sludge during aerobic granulation process combined XDLVO theory with physicochemical properties. 2018 , 67, 154-160		14
296	Microbial community structure in aerobic and fluffy granules formed in a sequencing batch reactor supplied with 4-chlorophenol at different settling times. 2018 , 342, 606-616		35
295	Aerobic Granular Sludge Technology. 2018 , 75-142		2
294	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

293	An integrative review of granular sludge for the biological removal of nutrients and recalcitrant organic matter from wastewater. <i>Chemical Engineering Journal</i> , 2018 , 336, 489-502	14.7	117
292	Shifts in bacterial community composition and abundance of nitrifiers during aerobic granulation in two nitrifying sequencing batch reactors. <i>Bioresource Technology</i> , 2018 , 251, 99-107	11	28
291	Metabolic uncouplers for controlling biomass accumulation in biological waste treatment systems. 2018 , 17, 1-18		7
290	Stability of aerobic granules during long-term bioreactor operation. <i>Biotechnology Advances</i> , 2018 , 36, 228-246	17.8	128
289	Salt-tolerance aerobic granular sludge: Formation and microbial community characteristics. <i>Bioresource Technology</i> , 2018 , 249, 132-138	11	51
288	Cellular automata based model of formation of aerobic granular sludge. 2018 , 14, 216		1
287	Storage of aerobic granular sludge embedded in agar and its reactivation by real wastewater. 2018 , 16, 958-969		7
286	Impact of food-to-microorganisms ratio on the stability of aerobic granular sludge treating high-strength organic wastewater. <i>Water Research</i> , 2018 , 147, 287-298	12.5	53
285	Wastewater chemical contaminants: remediation by advanced oxidation processes. 2018 , 17, 1573-1598		72
284	Chiral pharmaceuticals: Environment sources, potential human health impacts, remediation technologies and future perspective. 2018 , 121, 523-537		52
283	Regulating exopolysaccharide gene wcaF allows control of Escherichia coli biofilm formation. 2018 , 8, 13127		15
282	Aerobic granular sludge: Cultivation parameters and removal mechanisms. <i>Bioresource Technology</i> , 2018 , 270, 678-688	11	94
281	Solid-liquid separation: an emerging issue in heavy metal wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 17250-17267	5.1	12
280	Assessment of microbial products in the biosorption process of Cu(II) onto aerobic granular sludge: Extracellular polymeric substances contribution and soluble microbial products release. 2018 , 527, 87-94		27
279	Three-dimensional multi-species mathematical model of the aerobic granulation process based on cellular automata theory. 2018 , 77, 2761-2771		2
278	Spatiotemporal mapping of oxygen in a microbially-impacted packed bed using F Nuclear magnetic resonance oximetry. 2018 , 293, 123-133		6
277	Roles of bacterial and epistylis populations in aerobic granular SBRs treating domestic and synthetic wastewaters. <i>Chemical Engineering Journal</i> , 2018 , 351, 952-958	14.7	16
276	High-efficient biosorption of dye wastewater onto aerobic granular sludge and photocatalytic regeneration of biosorbent by acid TiO hydrosol. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 27606-27613	5.1	4

275	Natural sunlight induced rapid formation of water-born algal-bacterial granules in an aerobic bacterial granular photo-sequencing batch reactor. 2018 , 359, 222-230		46
274	Simultaneous nitrification, denitrification and phosphorus removal in an aerobic granular sludge sequencing batch reactor with high dissolved oxygen: Effects of carbon to nitrogen ratios. <i>Science of the Total Environment</i> , 2018 , 642, 1145-1152	10.2	88
273	Removal of Total Dissolved Solids from Reverse Osmosis Concentrates from a Municipal Wastewater Reclamation Plant by Aerobic Granular Sludge. <i>Water (Switzerland)</i> , 2018 , 10, 882	3	3
272	Partial nitrification granular sludge reactor as a pretreatment for anaerobic ammonium oxidation (Anammox): Achievement, performance and microbial community. <i>Bioresource Technology</i> , 2018 , 269, 25-31	11	37
271	The influence of Fe, Fe and magnet powder (FeO) on aerobic granulation and their mechanisms. 2018 , 164, 1-11		32
270	Enhancement of the removal and settling performance for aerobic granular sludge under hypersaline stress. 2018 , 212, 400-407		25
269	Semi-continuous treatment of naphthenic acids using aerobic granular sludge. <i>Bioresource Technology Reports</i> , 2018 , 3, 191-199	4.1	8
268	Recent advances on biosorption by aerobic granular sludge. 2018 , 357, 253-270		51
267	Ecopharmacovigilance. 2019 ,		4
266	Optimized aeration strategies for nitrogen removal efficiency: application of end gas recirculation aeration in the fixed bed biofilm reactor. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28216-28227	5.1	6
265	Comparison of Anaerobic Methane Fermentation Performance and Ammonia Resistance with Different Inoculum Configurations. 2019 , 33, 8711-8720		4
264	The viscosity behaviors of bacterial suspensions or extracellular polymeric substances and their effects on aerobic granular sludge. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 30087-30097	5.1	11
263	New direction in biological nitrogen removal from industrial nitrate wastewater via anammox. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 7459-7466	5.7	17
262	Artificial Neural Network (ANN) Approach to Modelling of Selected Nitrogen Forms Removal from Oily Wastewater in Anaerobic and Aerobic GSBP Process Phases. <i>Water (Switzerland)</i> , 2019 , 11, 1594	3	7
261	Understanding the granulation of partial denitrification sludge for nitrite production. 2019 , 236, 124389		16
260	Aerobic Granulation in Wastewater Treatment: A General Overview. 2019 , 57-81		1
259	Metal oxyanion removal from wastewater using manganese-oxidizing aerobic granular sludge. 2019 , 236, 124353		13
258	Evolution of microbial community and key genera in the formation and stability of aerobic granular sludge under a high organic loading rate. <i>Bioresource Technology Reports</i> , 2019 , 7, 100280	4.1	15

257	Cultivation of a versatile manganese-oxidizing aerobic granular sludge for removal of organic micropollutants from wastewater. <i>Science of the Total Environment</i> , 2019 , 690, 417-425	10.2	15
256	The effect of quorum sensing on performance of salt-tolerance aerobic granular sludge: linking extracellular polymeric substances and microbial community. 2019 , 30, 447-456		5
255	A comparative study on the toxicity of nano zero valent iron (nZVI) on aerobic granular sludge and flocculent activated sludge: Reactor performance, microbial behavior, and mechanism of toxicity. <i>Chemical Engineering Research and Design</i> , 2019 , 129, 238-248	5.5	23
254	AHL-mediated quorum sensing regulates the variations of microbial community and sludge properties of aerobic granular sludge under low organic loading. 2019 , 130, 104946		43
253	Artificial Neural Networks (ANN) Approach to Modelling of Selected Nitrogen Forms Removal from Oily Wastewater in Anaerobic and Aerobic GSBP Process Phases. 2019 , 16, 16		
252	Enforced expression of phosphatidylinositol 4-phosphate 5-kinase homolog alters PtdIns(4,5)P distribution and the localization of small G-proteins. 2019 , 9, 14789		1
251	Moving forward in the use of aerobic granular sludge for municipal wastewater treatment: an overview. 2019 , 18, 741-769		16
250	Sources and transport of methylmercury in the Yangtze River and the impact of the Three Gorges Dam. <i>Water Research</i> , 2019 , 166, 115042	12.5	18
249	Occurrence, fate and risk assessment of BPA and its substituents in wastewater treatment plant: A review. <i>Environmental Research</i> , 2019 , 178, 108732	7.9	48
248	Enhanced aerobic sludge granulation by applying carbon fibers as nucleating skeletons. <i>Chemical Engineering Journal</i> , 2019 , 373, 946-954	14.7	19
247	Overcoming the instability of aerobic granular sludge under nitrogen deficiency through shortening settling time. <i>Bioresource Technology</i> , 2019 , 289, 121620	11	7
246	Coaggregation of bacterial communities in aerobic granulation and its application on the biodegradation of sulfolane. 2019 , 377, 206-214		14
245	Pulsed aeration enhances aerobic granular biomass properties. <i>Biochemical Engineering Journal</i> , 2019 , 149, 107244	4.2	3
244	Insights into the Fate and Removal of Antibiotics in Engineered Biological Treatment Systems: A Critical Review. <i>Environmental Science & Technology</i> , 2019 , 53, 7234-7264	10.3	231
243	Enhanced aerobic granulation by inoculating dewatered activated sludge under short settling time in a sequencing batch reactor. <i>Bioresource Technology</i> , 2019 , 286, 121386	11	12
242	Performance and microbial community structure of an aerobic granular sludge system at different phenolic acid concentrations. 2019 , 376, 58-67		18
241	Microalgae and Wastewater Treatment: Advantages and Disadvantages. 2019 , 505-533		28
240	Enhanced adsorption of Zn by salinity-aided aerobic granular sludge: Performance and binding mechanism. <i>Journal of Environmental Management</i> , 2019 , 242, 266-271	7.9	12

239	Effect of sludge property on the synthesis, characterization and sorption performance of sludge-based biochar. <i>Bioresource Technology Reports</i> , 2019 , 7, 100204	4.1	2
238	Microalgal-bacterial aggregates for wastewater treatment: A mini-review. <i>Bioresource Technology Reports</i> , 2019 , 8, 100199	4.1	15
237	Controlling cold temperature partial nitrification in moving bed biofilm reactor. 2019 , 227, 216-224		13
236	Alginate-like exopolysaccharide extracted from aerobic granular sludge as biosorbent for methylene blue: Thermodynamic, kinetic and isotherm studies. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103081	6.8	19
235	The regulation of N-acyl-homoserine lactones (AHLs)-based quorum sensing on EPS secretion via ATP synthetic for the stability of aerobic granular sludge. <i>Science of the Total Environment</i> , 2019 , 673, 83-91	10.2	45
234	Rapid granulation of aerobic granular sludge: A mini review on operation strategies and comparative analysis. <i>Bioresource Technology Reports</i> , 2019 , 7, 100206	4.1	10
233	Aerobic granular sludge membrane bioreactor (AGMBR): Extracellular polymeric substances (EPS) analysis. <i>Water Research</i> , 2019 , 156, 305-314	12.5	34
232	Granulation of activated sludge using butyrate and valerate as additional carbon source and granular phosphorus removal capacity during wastewater treatment. <i>Bioresource Technology</i> , 2019 , 282, 269-274	11	24
231	Submerged aerobic granular sludge membrane bioreactor (AGMBR): Organics and nutrients (nitrogen and phosphorus) removal. <i>Bioresource Technology Reports</i> , 2019 , 6, 260-267	4.1	19
230	Texture of anammox sludge bed: Composition feature, visual characterization and formation mechanism. <i>Water Research</i> , 2019 , 154, 180-188	12.5	25
229	Measuring the Shape and Size of Activated Sludge Particles Immobilized in Agar with an Open Source Software Pipeline. 2019 ,		
228	Formation, extracellular polymeric substances and microbial community of aerobic granules enhanced by microbial flocculant compared with poly-aluminum chloride. <i>Journal of Cleaner Production</i> , 2019 , 220, 544-552	10.3	13
227	Performance of Aerobic Microbial Granules in Organic Carbon Removal as a Method in the Treatment of Biodegradable Wastewater. 2019 , 125, 03014		
226	Drivers of bioaggregation from flocs to biofilms and granular sludge. 2019 , 5, 2072-2089		23
225	Algae granulation for nutrients uptake and algae harvesting during wastewater treatment. 2019 , 214, 55-59		50
224	Aerobic granular sludge and naphthenic acids treatment by varying initial concentrations and supplemental carbon concentrations. 2019 , 362, 348-357		7
223	Dynamic characteristics of soluble microbial products in a granular sludge reactor. <i>Journal of Cleaner Production</i> , 2019 , 212, 576-581	10.3	15
222	Effect of nitrogen deficiency on the stability of aerobic granular sludge. <i>Bioresource Technology</i> , 2019 , 275, 307-313	11	22

221	Organic loading rate (OLR) regulation for enhancement of aerobic sludge granulation: Role of key microorganism and their function. <i>Science of the Total Environment</i> , 2019 , 653, 630-637	10.2	30
220	Extensive studies on the treatment of pulp mill wastewater using aerobic granular sludge (AGS) technology. <i>Chemical Engineering Journal</i> , 2019 , 359, 1175-1194	14.7	27
219	Piggery wastewater treatment by aerobic granular sludge: Granulation process and antibiotics and antibiotic-resistant bacteria removal and transport. <i>Bioresource Technology</i> , 2019 , 273, 350-357	11	45
218	Determining the effects of aeration intensity and reactor height to diameter (H/D) ratio on granule stability based on bubble behavior analysis. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 784-796	5.1	5
217	Role of adding dried sludge micropowder in aerobic granular sludge reactor with extended filamentous bacteria. <i>Bioresource Technology Reports</i> , 2019 , 5, 51-58	4.1	13
216	Roles of quorum sensing in biological wastewater treatment: A critical review. 2019 , 221, 616-629		79
215	Response and recovery of aerobic granular sludge to pH shock for simultaneous removal of aniline and nitrogen. 2019 , 221, 366-374		40
214	Reactivation and pilot-scale application of long-term storage denitrification biofilm based on flow cytometry. <i>Water Research</i> , 2019 , 148, 368-377	12.5	23
213	Enhanced aerobic granulation by applying the low-intensity direct current electric field via reactive iron anode. <i>Water Research</i> , 2019 , 149, 159-168	12.5	23
212	Treatment of 17 β -ethinylestradiol, 4-nonylphenol, and carbamazepine in wastewater using an aerobic granular sludge sequencing batch reactor. <i>Science of the Total Environment</i> , 2019 , 652, 1270-1278	10.2	29
211	Hydrodynamic shear force shaped the microbial community and function in the aerobic granular sequencing batch reactors for low carbon to nitrogen (C/N) municipal wastewater treatment. <i>Bioresource Technology</i> , 2019 , 271, 48-58	11	55
210	Development of aerobic granular sludge under tropical climate conditions: The key role of inoculum adaptation under reduced sludge washout for stable granulation. <i>Journal of Environmental Management</i> , 2019 , 230, 168-182	7.9	24
209	Reactor performance and membrane fouling of a novel submerged aerobic granular sludge membrane bioreactor during long-term operation. 2019 , 9, 1-9		2
208	Effect of SDS and Neutral Protease on the Release of Extracellular Polymeric Substances (EPS) from Mechanical Dewatered Sludge. 2019 , 10, 1053-1064		3
207	Membrane fouling during water or wastewater treatments: Current research updated. 2019 , 94, 88-96		38
206	Ionic liquid based nanoporous organosilica supported propylamine as highly efficient adsorbent for removal of congo red from aqueous solution. 2019 , 12, 4171-4181		9
205	Formation of partial-denitrification (PD) granular sludge from low-strength nitrate wastewater: The influence of loading rates. 2020 , 384, 121273		15
204	Improving aerobic sludge granulation in sequential batch reactor by natural drying: Effluent sludge recovery and feeding back into reactor. 2020 , 242, 125159		7

203	GO/PEDOT:NaPSS modified cathode as heterogeneous electro-Fenton pretreatment and subsequently aerobic granular sludge biological degradation for dye wastewater treatment. <i>Science of the Total Environment</i> , 2020 , 700, 134536	10.2	15
202	A sustainable strategy for effective regulation of aerobic granulation: Augmentation of the signaling molecule content by cultivating AHL-producing strains. <i>Water Research</i> , 2020 , 169, 115193	12.5	33
201	Enhanced simultaneous nitrification, denitrification and phosphorus removal through mixed carbon source by aerobic granular sludge. 2020 , 382, 121043		71
200	Impacts of nanoscale zero-valent iron on nitrite accumulation performance of nitrification granular sludges with different spatial morphologies and its biosorption behavior. 2020 , 46, 769-781		1
199	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020 , 169, 115249	12.5	34
198	Characterization of stratified EPS and their role in the initial adhesion of anammox consortia. <i>Water Research</i> , 2020 , 169, 115223	12.5	86
197	Exploring the feasibility of sewage treatment by algal-bacterial consortia. 2020 , 40, 169-179		11
196	Oxygen transfer investigations in an aerobic granular sludge reactor. 2020 , 6, 679-690		4
195	Bioreactor performance using biochar and its effect on aerobic granulation. <i>Bioresource Technology</i> , 2020 , 300, 122620	11	11
194	Understanding the role of extracellular polymeric substances in the rheological properties of aerobic granular sludge. <i>Science of the Total Environment</i> , 2020 , 705, 135948	10.2	28
193	Effect of calcium addition on the formation and maintenance of aerobic granular sludge (AGS) in simultaneous fill/draw mode sequencing batch reactors (SBRs). <i>Journal of Environmental Management</i> , 2020 , 255, 109850	7.9	10
192	N-Acyl-homoserine lactone-mediated quorum sensing of aerobic granular sludge system in a continuous-flow membrane bioreactor. <i>Biochemical Engineering Journal</i> , 2020 , 164, 107801	4.2	1
191	Granulation enhancement and microbial community shift of tylosin-tolerant aerobic granular sludge on the treatment of tylosin wastewater. <i>Bioresource Technology</i> , 2020 , 318, 124041	11	6
190	Production of polyhydroxyalkanoates (PHA) from aerobic granules of refinery sludge and <i>Micrococcus aloeverae</i> strain SG002 cultivated in oily wastewater. 2020 , 155, 105091		4
189	A settling model for full-scale aerobic granular sludge. <i>Water Research</i> , 2020 , 186, 116135	12.5	15
188	Characterization of aerobic granules formed in an aspartic acid fed sequencing batch reactor under unfavorable hydrodynamic selection conditions. 2020 , 260, 127600		4
187	Various applications of aerobic granular sludge: A review. 2020 , 20, 101045		11
186	Complex effects of pH and organic shocks on arsenic oxidation and removal by manganese-oxidizing aerobic granular sludge in sequencing batch reactors. 2020 , 260, 127621		5

185	Particulate substrate retention in plug-flow and fully-mixed conditions during operation of aerobic granular sludge systems. <i>Water Research X</i> , 2020 , 9, 100075	8.1	4
184	Development of Aerobic Microbial Granules to Enhance the Performance of Activated Sludge Technology for Wastewater Treatment Application. 2020 , 477, 012001		1
183	Correlation of extracellular polymeric substances and microbial community structure in denitrification biofilm exposed to adverse conditions. 2020 , 13, 1889-1903		8
182	Heterogeneous diffusion in aerobic granular sludge. 2020 , 117, 3809-3819		6
181	Rapid aerobic granulation using biochar for the treatment of petroleum refinery wastewater. 2020 , 17, 1411-1421		6
180	Formation and characteristics of filamentous granular sludge. 2020 , 82, 364-372		2
179	Identification and role of microbial species developed in aerobic granular sludge bioreactor for livestock wastewater treatment. 2020 , 479, 012026		0
178	A novel bioreactor design for enhanced aerobic granular sludge formation: effects of cationic polymer and boric acid addition. 2020 , 34, 597-607		1
177	Impact of additive application on the establishment of fast and stable aerobic granulation. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 5697-5709	5.7	7
176	Pilot-scale aerobic granular sludge in the treatment of municipal wastewater: Optimizations in the start-up, methodology of sludge discharge, and evaluation of resource recovery. <i>Bioresource Technology</i> , 2020 , 311, 123467	11	16
175	Flocs in disguise? High granule abundance found in continuous-flow activated sludge treatment plants. <i>Water Research</i> , 2020 , 179, 115865	12.5	20
174	Impact of nZVI on the formation of aerobic granules, bacterial growth and nutrient removal using aerobic sequencing batch reactor. 2020 , 19, 100911		24
173	Variability in the composition of extracellular polymeric substances from a full-scale aerobic granular sludge reactor treating urban wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104156	6.8	11
172	Dried aerobic granules for fast startup of aerobic granular sludge reactors: Reactivation and performance. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101298	6.7	9
171	Wastewater Treatment Technologies: A Bibliometric Analysis. 2020 , 39, 383-394		7
170	Contrasting distribution of antibiotic resistance genes and microbial communities in suspended activated sludge versus attached biofilms in an integrated fixed film activated sludge (IFAS) system. <i>Science of the Total Environment</i> , 2020 , 742, 140481	10.2	4
169	Application of nitrifying granular sludge for stable ammonium oxidation under intensive light. <i>Biochemical Engineering Journal</i> , 2020 , 160, 107631	4.2	4
168	Impacts of hydraulic retention time on granule behaviour and reactor activity during hydrocarbon degradation in aerobic granular reactors (AGRs) with phytotoxicity analysis. 2020 , 151, 104963		7

167	Aerobic granular sludge formation based on substrate availability: Effects of flow pattern and fermentation pretreatment. 2020 , 14, 1		5
166	Rapid aerobic sludge granulation in an integrated oxidation ditch with two-zone clarifiers. <i>Water Research</i> , 2020 , 175, 115704	12.5	13
165	Valorisation of Agro-industrial Residues – Volume I: Biological Approaches. 2020 ,		4
164	Intertidal wetland sediment as a novel inoculation source for developing aerobic granular sludge in membrane bioreactor treating high-salinity antibiotic manufacturing wastewater. <i>Bioresource Technology</i> , 2020 , 314, 123715	11	16
163	Aerobic sludge granulation in shale gas flowback water treatment: Assessment of the bacterial community dynamics and modeling of bioreactor performance using artificial neural network. <i>Bioresource Technology</i> , 2020 , 313, 123687	11	10
162	Biodegradation of real industrial wastewater containing ethylene glycol by using aerobic granular sludge in a continuous-flow reactor: Performance and resistance mechanism. <i>Biochemical Engineering Journal</i> , 2020 , 161, 107711	4.2	15
161	Comparison of adaptive neuro-fuzzy inference systems (ANFIS) and support vector regression (SVR) for data-driven modelling of aerobic granular sludge reactors. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103742	6.8	34
160	High-strength anaerobic digestion wastewater treatment by aerobic granular sludge in a step-by-step strategy. <i>Journal of Environmental Management</i> , 2020 , 262, 110245	7.9	11
159	Recent developments in textile wastewater biotreatment: dye metabolite fate, aerobic granular sludge systems and engineered nanoparticles. 2020 , 19, 149-190		7
158	Limited simultaneous nitrification-denitrification (SND) in aerobic granular sludge systems treating municipal wastewater: Mechanisms and practical implications. <i>Water Research X</i> , 2020 , 7, 100048	8.1	28
157	Pseudo-analytical solutions for multi-species biofilm model of aerobic granular sludge. <i>Environmental Technology (United Kingdom)</i> , 2021 , 42, 3421-3431	2.6	
156	Development of a dynamic feeding strategy for continuous-flow aerobic granulation and nitrogen removal in a modified airlift loop reactor for municipal wastewater treatment. <i>Science of the Total Environment</i> , 2020 , 714, 136764	10.2	8
155	Long-term aerobic granular sludge stability through anaerobic slow feeding, fixed feast-famine period ratio, and fixed SRT. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103681	6.8	14
154	Characteristics of sludge granulation and EPS production in development of stable partial nitrification. <i>Bioresource Technology</i> , 2020 , 303, 122937	11	16
153	The effect of supporting matrix on sludge granulation under low hydraulic shear force: Performance, microbial community dynamics and microorganisms migration. <i>Science of the Total Environment</i> , 2020 , 712, 136562	10.2	8
152	Response of an aerobic granular and conventional flocculated reactors against changing feed composition from simple composition to more complex. 2020 , 253, 126694		5
151	Bacteriophage-mediated extracellular DNA release is important for the structural stability of aerobic granular sludge. <i>Science of the Total Environment</i> , 2020 , 726, 138392	10.2	4
150	The combination of external conditioning and Ca ²⁺ addition prior to the reintroduction of effluent sludge into SBR sharply accelerates the formation of aerobic granules. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101269	6.7	3

149	Fundamentals of aerobic membrane bioreactors. 2020 , 25-44		1
148	Granular biofilms: Function, application, and new trends as model microbial communities. 2021 , 51, 1702-1725		9
147	Energy saving anammox technology-based nitrogen removal and bioenergy recovery from wastewater: Inhibition mechanisms, state-of-the-art control strategies, and prospects. 2021 , 135, 110126		37
146	Extracellular biopolymers recovered as raw biomaterials from waste granular sludge and potential applications: A critical review. <i>Science of the Total Environment</i> , 2021 , 753, 142051	10.2	21
145	Shock effects of monovalent cationic salts on seawater cultivated granular sludge. 2021 , 403, 123646		5
144	Performance enhancement of a submerged forward osmotic membrane bioreactor by aerobic granules. 2021 , 254, 117608		3
143	Evolution of extracellular polymeric substances (EPS) in aerobic sludge granulation: Composition, adherence and viscoelastic properties. 2021 , 262, 128033		20
142	Machine Learning Modeling for Ultrasonication-Mediated Fermentation of <i>Penicillium brevicompactum</i> to Enhance the Release of Mycophenolic Acid. 2021 , 47, 777-786		2
141	Initialization, enhancement and mechanisms of aerobic granulation in wastewater treatment. 2021 , 260, 118220		4
140	Effect of feeding strategy and organic loading rate on the formation and stability of aerobic granular sludge. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101709	6.7	8
139	Bioremediation of Industrial Effluents by Aerobic Bacterial Granules. 2021 , 557-580		
138	Aerobic granular sludge (AGS) scouring to mitigate membrane fouling: Performance, hydrodynamic mechanism and contribution quantification model. <i>Water Research</i> , 2021 , 188, 116518	12.5	56
137	The stability of aerobic granular sludge under low energy consumption: optimization of the granular size distribution by a novel internal component.		0
136	Self-flocculation of enriched mixed microalgae culture in a sequencing batch reactor. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 26595-26605	5.1	2
135	Hydrodynamic granulation of oxygenic photogranules. 2021 , 7, 427-440		6
134	Rapid Development of Microalgae-Bacteria Granular Sludge Using Low-Strength Domestic Wastewater. 2021 , 19, 96-107		5
133	Conventional wastewater treatment technologies. 2021 , 47-75		2
132	Tecnologia de lodo granular aer ^o Bio: caracteriza ^o e desafios e perspectivas para o tratamento de esgoto sanit ^o . 2021 , 69, 87-107		

131	Total and Metabolically Active Microbial Community of Aerobic Granular Sludge Systems Operated in Sequential Batch Reactors: Effect of Pharmaceutical Compounds. 2021 , 9,		2
130	Aerobic Granular Sludge-Membrane BioReactor (AGS-MBR) as a Novel Configuration for Wastewater Treatment and Fouling Mitigation: A Mini-Review. 2021 , 11,		3
129	Biodegradation of natural and synthetic endocrine-disrupting chemicals by aerobic granular sludge reactor: Evaluating estrogenic activity and estrogens fate. <i>Environmental Pollution</i> , 2021 , 274, 116551	9.3	10
128	Effect of voltage intensity on the nutrient removal performance and microbial community in the iron electrolysis-integrated aerobic granular sludge system. <i>Environmental Pollution</i> , 2021 , 274, 116604	9.3	4
127	Rapid formation of granules coupling n-DAMO and anammox microorganisms to remove nitrogen. <i>Water Research</i> , 2021 , 194, 116963	12.5	11
126	Increased extracellular polymeric substances production contributes for the robustness of aerobic granular sludge during long-term intermittent exposure to 2-fluorophenol in saline wastewater. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101977	6.7	7
125	DESENVOLVIMENTO DE LODO GRANULAR AER ^o BIO E AVALIA ^o η DO DESEMPENHO DE REATOR EM BATELADAS SEQUENCIAIS (RBS) A PARTIR DE DOIS IN ^o τ ULOS DISTINTOS. 2021 , 14, 153		
124	Resource Utilization of Sludge and Its Potential Environmental Applications for Wastewater. 2021 , 217-245		
123	Role of organic matter, nitrogen and phosphorous on granulation and settling velocity in wastewater treatment. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101967	6.7	2
122	Unravelling the removal mechanisms of bacterial and viral surrogates in aerobic granular sludge systems. <i>Water Research</i> , 2021 , 195, 116992	12.5	1
121	Hydroxypropyl- β -cyclodextrin improves the removal of polycyclic aromatic hydrocarbons by aerobic granular sludge. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-14	2.6	1
120	Addition of Fixed Bed Biofilm in Sequencing Batch Reactor to Remove Carbon-Nitrogen for Apartment Wastewater. 2021 , 1125, 012089		
119	Continuous flow reactors for cultivating aerobic granular sludge: configuration innovation, principle and research prospect. 2021 , 96, 2721-2734		4
118	Influ ^o β cia do par ^o β metro idade do lodo na opera ^o β de um reator em batelada sequencial com lodo granular aer ^o Bio. 2021 , 69, 149-160		
117	New Advances in Aerobic Granular Sludge Technology Using Continuous Flow Reactors: Engineering and Microbiological Aspects. <i>Water (Switzerland)</i> , 2021 , 13, 1792	3	7
116	Insights of the Removal of Antibiotics From Water and Wastewater: A Review on Physical, Chemical, and Biological Techniques. 2021 , 1-47		
115	Roles of autoinducer-2 mediated quorum sensing in wastewater treatment. 2021 , 84, 793-809		1
114	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. <i>Environmental Research</i> , 2021 , 198, 111311	7.9	5

113	Formation of filamentous fungal pellets in aerobic granular sludge via reducing temperature and dissolved oxygen: Characteristics of filamentous fungi and denitrification performance. <i>Bioresource Technology</i> , 2021 , 332, 125056	11	5
112	Performances of coffee husk biochar addition in a lab-scale SBR system for treating low carbon/nitrogen ratio wastewater. 1		0
111	Recent technologies for nutrient removal and recovery from wastewaters: A review. 2021 , 277, 130328		18
110	Challenges of THP-AD centrate treatment using partial nitrification-anammox (PN/A) - inhibition, biomass washout, low alkalinity, recalcitrant and more. <i>Water Research</i> , 2021 , 203, 117555	12.5	8
109	Biofilm with highly heterogeneous interior structure for pollutant removal: Cell distribution and manipulated mass transport. <i>Bioresource Technology</i> , 2022 , 343, 125913	11	1
108	COD, nitrogen and phosphorus removal from simulated sewage in an aerobic granular sludge in the absence and presence of natural and synthetic estrogens: performance and biomass physical properties assessment. <i>Biochemical Engineering Journal</i> , 2021 , 108221	4.2	2
107	A new approach to evaluate and improve the stability of aerobic sludge systems based on maintenance coefficient. <i>Journal of Environmental Management</i> , 2021 , 296, 113192	7.9	0
106	Bio-carrier-enhanced aerobic granulation: Effects on the extracellular polymeric substances production and microorganism community. 2021 , 280, 130756		2
105	Aerobic granulation of nitrifying activated sludge enhanced removal of 17 β -ethinylestradiol. <i>Science of the Total Environment</i> , 2021 , 801, 149546	10.2	5
104	Simultaneous biodegradation of pyridine, indole, and ammonium along with phenol and thiocyanate by aerobic granular sludge. 2022 , 422, 126861		3
103	Continuous aerobic granular sludge plants: Better settling versus diffusion limitation. <i>Chemical Engineering Journal</i> , 2022 , 428, 131427	14.7	3
102	Sources, fate, and impact of pharmaceutical and personal care products in the environment and their different treatment technologies. 2021 , 391-407		1
101	Electro-bioremediation strategies for sustainable and ecofriendly depollution of textile industrial wastewater. 2021 , 371-405		1
100	Aerobic Granulation in Hydrocarbon-Rich Wastewater Treatment. 2021 , 173-194		
99	Wastewater Treatment Techniques: An Introduction. 2021 , 161-182		1
98	Simultaneous heterotrophic nitrification and aerobic denitrification of wastewater in granular reactor: Microbial composition by next generation sequencing analysis. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101254	6.7	16
97	Enhanced performance of tetracycline treatment in wastewater using aerobic granular sludge with in-situ generated biogenic manganese oxides. <i>Science of the Total Environment</i> , 2020 , 735, 139533	10.2	16
96	Membrane Biofilm Reactor: Current Status and Control Strategies for Long-Term Stable Performance. 2012 , 635-661		0

95	SBR treatment of tank truck cleaning wastewater: sludge characteristics, chemical and ecotoxicological effluent quality. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 2524-2533	2.6	5
94	LapF and Its Regulation by Fis Affect the Cell Surface Hydrophobicity of <i>Pseudomonas putida</i> . 2016 , 11, e0166078		14
93	Zinc (II) Removal from Aqueous Solution by Biosorption with Aerobic Granular Sludge. 2014 , 14, 833-837		2
92	Aerobic Granular Sludge. 2017 , 231-263		1
91	The effect of divalent and trivalent cations on aggregation and surface hydrophobicity of selected microorganism. 2017 , 22, 61-74		7
90	Development of Aerobic Granular Sludge for Chemical Industries Wastewater Treatment. 2018 , 7,		1
89	Effect of hydraulic selection pressure on the characteristics of partial nitrification/anammox granular sludge in a continuous-flow reactor. 2021 , 24, 102042		1
88	Structural Characteristics of Aerobic Granular Sludge and Factors That Influence Its Stability: A Mini Review. <i>Water (Switzerland)</i> , 2021 , 13, 2726	3	4
87	Aerobic Granular Sludge Technology for Wastewater Treatment. 429-463		
86	Efficiency of Nutrient Removal and Biomass Productivity in The Wastewater by Microalgae Membrane Bioreactor Process. 2014 , 30, 386-393		2
85	Performance of an Aerobic Granular Reactor Treating Organics and Ammonia Nitrogen With Time. 2019 , 13-24		
84	Direct sludge granulation by applying mycelial pellets in continuous-flow aerobic membrane bioreactor: Performance, granulation process and mechanism. <i>Bioresource Technology</i> , 2022 , 344, 126233 ¹¹		2
83	Integrated Approach for the Treatment of Industrial Effluent by Physico-chemical and Microbiological Process for Sustainable Environment. 2020 , 119-143		3
82	Granulation and Biodegradation by Microbial Species in Granular Sequencing Batch Reactor for Soy Sauce Wastewater Treatment. 2020 , 287-308		0
81	Quantitative image analysis as a robust tool to assess effluent quality from an aerobic granular sludge system treating industrial wastewater. 2021 , 132773		1
80	Removal behaviors of aerobic granular sludge on estrogens: Adsorption kinetics and removal mechanism. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102410	6.7	2
79	Effects of coal ash supplementation on aerobic granular sludge cultivated in a simultaneous fill/draw sequencing batch reactor. 2020 , 25, 691-700		
78	Enhancing biological nitrogen and phosphorus removal performance in aerobic granular sludge sequencing batch reactors by activated carbon particles. <i>Journal of Environmental Management</i> , 2021 , 303, 114134	7.9	4

77	Discovering future research trends of aerobic granular sludge using bibliometric approach. <i>Journal of Environmental Management</i> , 2021 , 303, 114150	7.9	1
76	Achieving stably enhanced biological phosphorus removal from aerobic granular sludge system via phosphorus rich liquid extraction during anaerobic period. <i>Bioresource Technology</i> , 2021 , 346, 126439	11	4
75	Functional analysis of extracellular polymeric substances (EPS) during the granulation of aerobic sludge: Relationship among EPS, granulation and nutrients removal.. <i>Environmental Research</i> , 2022 , 208, 112692	7.9	4
74	Integrating anaerobic digestion with bioelectrochemical system for performance enhancement: A mini review.. <i>Bioresource Technology</i> , 2021 , 345, 126519	11	1
73	Microstructure and granulation cycle mechanisms of anammox-HAP coupled granule in the anammox EGSB reactor.. <i>Water Research</i> , 2021 , 210, 117968	12.5	2
72	A comparison between exogenous carriers enhanced aerobic granulation under low organic loading in the aspect of sludge characteristics, extracellular polymeric substances and microbial communities.. <i>Bioresource Technology</i> , 2021 , 346, 126567	11	0
71	Wastewater treatment using microalgal-bacterial aggregate process at zero-aeration scenario: Most recent research focuses and perspectives. <i>Bioresource Technology Reports</i> , 2022 , 17, 100943	4.1	2
70	Correlation of cells with proteins in extracellular polymeric substance matrix of bioaggregates. <i>Bioresource Technology Reports</i> , 2022 , 17, 100906	4.1	
69	Enrichment of phosphate-accumulating organisms (PAOs) in a microfluidic model biofilm system by mimicking a typical aerobic granular sludge feast/famine regime.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 1313	5.7	0
68	Effect of stepwise or one-time illumination strategy on the development of algal-bacterial aerobic granular sludge in sequencing batch reactor. <i>Bioresource Technology Reports</i> , 2022 , 17, 100931	4.1	2
67	Rapid formation of aerobic granular sludge by bioaugmentation technology: A review. <i>Chemical Engineering Journal</i> , 2022 , 134971	14.7	3
66	"Food waste-wastewater-energy/resource" nexus: Integrating food waste management with wastewater treatment towards urban sustainability.. <i>Water Research</i> , 2022 , 211, 118089	12.5	4
65	Treatment of saline wastewater amended with endocrine disruptors by aerobic granular sludge: Assessing performance and microbial community dynamics. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107272	6.8	0
64	Aggregation performance and adhesion behavior of microbes in response to feast/famine condition: Rapid granulation of aerobic granular sludge.. <i>Environmental Research</i> , 2022 , 208, 112780	7.9	0
63	Bacillus Probiotics and Bioremediation: An Aquaculture Perspective. <i>Bacilli in Climate Resilient Agriculture and Bioprospecting</i> , 2022 , 335-347	1.2	1
62	Bacterial and fungal degradation of dyes. 2022 , 23-43		0
61	Activated Sludge: Conventional Dye Treatment Technique. <i>Sustainable Textiles</i> , 2022 , 119-153	1.1	
60	Membrane bioreactor for the treatment of emerging pharmaceutical compounds in a circular bioeconomy. 2022 , 203-221		

59	Reproducibility of Aerobic Granules in Treating Low-Strength and Low-C/N-Ratio Wastewater and Associated Microbial Community Structure. <i>Processes</i> , 2022 , 10, 444	2.9	0
58	Polyaniline improves granulation and stability of aerobic granular sludge. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	10
57	Mechanistic study on the ferric chloride-based rapid cultivation and enhancement of aerobic granular sludge.. <i>Environmental Technology (United Kingdom)</i> , 2022 , 1-13	2.6	
56	High concentration powder carrier bio-fluidized bed process: a new perspective for domestic wastewater treatment.. <i>Bioresource Technology</i> , 2022 , 127015	11	0
55	A novel strategy for rapid development of a self-sustaining symbiotic algal-bacterial granular sludge: Applying algal-mycelial pellets as nuclei.. <i>Water Research</i> , 2022 , 214, 118210	12.5	5
54	Insight into thiosulfate-driven denitrification and anammox process: Bigger aggregates driving better nitrite utilization on ammonium and nitrate contained wastewater. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102669	6.7	0
53	Formation of anaerobic granular sludge (AnGS) to treat high-strength perchlorate wastewater via anaerobic baffled reactor (ABR) system: Electron transfer characteristic, bacterial community and positive feedback mechanism.. <i>Science of the Total Environment</i> , 2022 , 828, 154531	10.2	0
52	Recent developments in landfill leachate treatment: Aerobic granular reactor and its future prospects. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022 , 18, 100689	3.3	1
51	Aerobic Granular Technology: Current Perspective and Developments. 2022 , 253-273		
50	Response of aerobic granular sludge to loading shock: performance and proteomic study. <i>Chemical Engineering Journal</i> , 2022 , 136458	14.7	0
49	Beyond an Applicable Rate in Low-Strength Wastewater Treatment by Anammox: Motivated Labor at an Extremely Short Hydraulic Retention Time.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	1
48	Efficient aerobic granular sludge production in simultaneous feeding and drawing sequencing batch reactors fed with low-strength municipal wastewater under high organic loading rate conditions. <i>Biochemical Engineering Journal</i> , 2022 , 108469	4.2	0
47	Advances in Continuous Flow Aerobic Granular Sludge: A review. <i>Chemical Engineering Research and Design</i> , 2022 ,	5.5	8
46	Effects of sulphur amino acids on the size and structure of microbial communities of aerobic granular sludge bioreactors. <i>Amino Acids</i> ,	3.5	0
45	Recent advances in biological removal of nitroaromatics from wastewater. <i>Environmental Pollution</i> , 2022 , 119570	9.3	1
44	Future trends and patterns in leachate biological treatment research from a bibliometric perspective. <i>Journal of Environmental Management</i> , 2022 , 318, 115594	7.9	1
43	Biological Treatment of Cannery Wastes.		
42	Consistency between the metabolic performance of two aerobic granular sludge systems and the functional groups of bacteria detected by amplicon sequencing. <i>Environmental Science and Pollution Research</i> ,	5.1	

41	Long-term effects of hydrocyclone operation on activated sludge morphology and full-scale secondary settling tank wet-weather operation in long sludge age WWTP. <i>Science of the Total Environment</i> , 2022 , 157224	10.2	2
40	Comparison and Optimization of Continuous Flow Reactors for Aerobic Granule Sludge Cultivation from the Perspective of Hydrodynamic Behavior. <i>International Journal of Environmental Research and Public Health</i> , 2022 , 19, 8306	4.6	
39	Diagnostic Method for Enhancing Nitrogen and Phosphorus Removal in Cyclic Activated Sludge Technology (CAST) Process Wastewater Treatment Plant. <i>Water (Switzerland)</i> , 2022 , 14, 2253	3	
38	Diffusion of soluble organic substrates in aerobic granular sludge: Effect of molecular weight. <i>Water Research X</i> , 2022 , 16, 100148	8.1	o
37	Understanding the mechanism of denitrifying phosphorus removal from the perspective of intracellular carbon source and extracellular polymeric substances characteristics. <i>Journal of Cleaner Production</i> , 2022 , 367, 133115	10.3	o
36	Animal wastewater treatment with an improved combined Anaerobic-Aerobic System: Towards energy Self-Sufficiency. <i>Applied Energy</i> , 2022 , 323, 119551	10.7	o
35	Biofilm with highly heterogeneous interior structure for pollutant removal: Effects of individual extracellular polymeric substance. <i>Bioresource Technology</i> , 2022 , 361, 127669	11	o
34	Homogeneously and heterogeneously structured biofilm models for wastewater treatment. 2022 , 362, 127763		o
33	Anammox in a biofilter reactor to treat wastewater of high strength nitrogen. 2022 , 49, 103169		o
32	A review on recovery of extracellular biopolymers from flocculent and granular activated sludges: Cognition, key influencing factors, applications, and challenges. 2022 , 363, 127854		o
31	A review of the biological treatment of leachate: Available technologies and future requirements for the circular economy implementation. 2022 , 187, 108605		o
30	Response of aerobic granular sludge under polyethylene microplastics stress: Physicochemical properties, decontamination performance, and microbial community. 2022 , 323, 116215		o
29	Impact of nitrite and oxygen on nitrous oxide emissions from a granular sludge sequencing batch reactor. 2022 , 308, 136378		o
28	Co-existence of flocs and granules in aerobic granular sludge system: Performance, microbial community and proteomics. 2023 , 451, 139011		o
27	Microbes as an effective tool to mitigate emerging pollutants. 2022 , 119-149		o
26	Aerobic granular sludge processes. 2022 , 193-225		o
25	Effects of denitrifying granular sludge addition on activated sludge and anaerobic-aerobic systems for municipal sewage treatment. 2022 , 57, 830-839		o
24	Fast Granulation by Combining External Sludge Conditioning with FeCl ₃ Addition and Reintroducing into an SBR. 2022 , 14, 3688		o

- 23 Understanding the N-acylated homoserine lactones(AHLs)-based quorum sensing for the stability of aerobic granular sludge in the aspect of substrate hydrolysis enhancement. **2022**, 159581 ○
- 22 Coupling high-rate activated sludge process with aerobic granular sludge process for sustainable municipal wastewater treatment. **2023**, 325, 116549 1
- 21 Low-temperature-resistance granulation of activated sludge and the microbial responses to the granular structural stabilization. **2023**, 311, 137146 ○
- 20 Rapid cultivation of aerobic granular sludge in laboratory scale sequencing batch reactor. **2022**, 1098, 012061 ○
- 19 Anammox-based Granulation Cycle for Sustainable Granular Sludge Biotechnology from Mechanisms to Strategies: A Critical Review. **2022**, 119353 ○
- 18 Pilot-scale demonstration of aerobic granular sludge augmentation applied to continuous-flow activated sludge process for the treatment of low-strength municipal wastewater. **2023**, 51, 103392 1
- 17 Insights into nitrogen and phosphorus metabolic mechanisms of algal-bacterial aerobic granular sludge via metagenomics: Performance, microbial community and functional genes. **2023**, 369, 128442 ○
- 16 Biotransformation of sulfamonomethoxine in a granular sludge system: Pathways and mechanisms. **2023**, 313, 137508 ○
- 15 Physical Characteristics and Removal Performance of Aerobic Granular Sludge in Biological Treatment of Domestic Wastewater. **2022**, 1091, 012058 ○
- 14 Filamentous Bacteria and Stalked Ciliates for the Stable Structure of Aerobic Granular Sludge Treating Wastewater. **2022**, 19, 15747 ○
- 13 Micro(nano)plastic size and concentration co-differentiate the treatment performance and toxicity mechanism in aerobic granular sludge systems. **2023**, 457, 141212 ○
- 12 GN/Fe₂O₃-based aerobic granular sludge for enhanced formation and synchronous nitrification-denitrification: Promote the secretion of polysaccharides and enrichment of denitrifying bacteria. **2023**, 51, 103475 ○
- 11 Disintegration of Partial Denitrification Granules at High Nitrate Concentration. ○
- 10 Exploration of the effect of simultaneous removal of EDCs in the treatment process of different types of wastewater. ○
- 9 Results of Adding Sludge Micropowder for Microbial Structure and Partial Nitrification and Denitrification in a Filamentous AGS-SBR Using High-Ammonia Wastewater. **2023**, 15, 508 ○
- 8 Biodegradation of Insensitive Munition (IM) Formulations: IMX-101 and IMX-104 Using Aerobic Granule Technology. **2023**, 130942 ○
- 7 Modified biochar prepared from *Retinervus luffae fructus* for dyes adsorption and aerobic sludge granulation. **2023**, 322, 138088 1
- 6 Environmentally relevant level of perfluorooctanoic acid affect the formation of aerobic granular sludge. **2023**, 336, 117659 ○

- 5 Novel biological nitrogen removal process for the treatment of wastewater with low carbon to nitrogen ratio: A review. **2023**, 53, 103673
- 4 Challenges of aerobic granular sludge utilization: Fast start-up strategies and cationic pollutant removal. **2023**, 9, e13503
- 3 The unique features of aerobic granule sludge contribute to simultaneous antibiotic removal and mitigation of antibiotic resistance genes enrichment. **2023**, 52, 103577
- 2 Application of Advanced Oxidation Processes for the Treatment of Color and Chemical Oxygen Demand of Pulp and Paper Wastewater. **2023**, 15, 1347
- 1 Understanding the effects of algae growth on algae-bacterial granular sludge formation: From sludge characteristics, extracellular polymeric substances, and microbial community. **2023**, 410, 137327