Yu Liu

List of Publications by Year in Descending Order

355 papers	17,990 citations	69 h-index	121 g-index
367 ext. papers	20,800 ext. citations	7.6 avg, IF	7.57 L-index

#	Paper	IF	Citations
355	Sulfite may disrupt estrogen homeostasis in human via inhibition of steroid arylsulfatase.. *Environmental Science and Pollution Research*, **2022**, 29, 19913	5.1	0
354	Necessity of direct energy and ammonium recovery for carbon neutral municipal wastewater reclamation in an innovative anaerobic MBR-biochar adsorption-reverse osmosis process.. *Water Research*, **2022**, 211, 118058	12.5	4
353	Circular economy is game-changing municipal wastewater treatment technology towards energy and carbon neutrality. *Chemical Engineering Journal*, **2022**, 429, 132114	14.7	7
352	Twelve natural estrogens in urines of swine and cattle: Concentration profiles and importance of eight less-studied. *Science of the Total Environment*, **2022**, 803, 150042	10.2	4
351	Towards carbon neutrality and water sustainability: An integrated anaerobic fixed-film MBR-reverse osmosis-chlorination process for municipal wastewater reclamation. *Chemosphere*, **2022**, 287, 132060	8.4	4
350	Waste cooking oil used as carbon source for microbial lipid production: Promoter or inhibitor. *Environmental Research*, **2022**, 203, 111881	7.9	10
349	Facile Synthesis of Magnetic Biochar Derived from Burley Tobacco Stems towards Enhanced Cr(VI) Removal: Performance and Mechanism.. *Nanomaterials*, **2022**, 12,	5.4	5
348	Dissolved methane in anaerobic effluent: Emission or recovery?. *Frontiers of Environmental Science and Engineering*, **2022**, 16, 1	5.8	0
347	A continuous-flow non-aerated microalgal-bacterial granular sludge process for aquaculture wastewater treatment under natural day-night conditions.. *Bioresource Technology*, **2022**, 126914	11	1
346	Microalgal-bacterial granular sludge for municipal wastewater treatment: From concept to practice.. *Bioresource Technology*, **2022**, 127201	11	1
345	Twelve natural estrogens in urines of six threatened or endangered mammalian species in Zoo Park: implications and their potential risk.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
344	Investigations on the pyrolysis of microalgal-bacterial granular sludge: products, kinetics, and potential mechanisms. *Bioresource Technology*, **2021**, 349, 126328	11	7
343	Stability properties of natural estrogen conjugates in different aqueous samples at room temperature and tips for sample storage. *Environmental Science and Pollution Research*, **2021**, 1	5.1	0
342	A mainstream anammox fixed-film membrane bioreactor with novel sandwich-structured carriers for fast start-up, effective sludge retention and membrane fouling mitigation. *Bioresource Technology*, **2021**, 347, 126370	11	2
341	Granule size informs the characteristics and performance of microalgal-bacterial granular sludge for wastewater treatment.. *Bioresource Technology*, **2021**, 126649	11	6
340	Inhibition Properties of Arylsulfatase and Glucuronidase by Hydrogen Peroxide, Hypochlorite, and Peracetic Acid. *ACS Omega*, **2021**, 6, 8163-8170	3.9	4
339	Possible overestimation of bisphenol analogues in municipal wastewater analyzed with GC-MS. *Environmental Pollution*, **2021**, 273, 116505	9.3	4

338	Temperature-effect on the performance of non-aerated microalgal-bacterial granular sludge process in municipal wastewater treatment. *Journal of Environmental Management*, **2021**, 282, 111955	7.9	32
337	Microalgal-bacterial granular sludge for municipal wastewater treatment under simulated natural diel cycles: Performances-metabolic pathways-microbial community nexus. *Algal Research*, **2021**, 54, 102198	5	10
336	Occurrence and removal of 17□ethynylestradiol (EE2) in municipal wastewater treatment plants: Current status and challenges. *Chemosphere*, **2021**, 271, 129551	8.4	15
335	Tetracycline-induced decoupling of symbiosis in microalgal-bacterial granular sludge. *Environmental Research*, **2021**, 197, 111095	7.9	12
334	Far-Less Studied Natural Estrogens as Ignored Emerging Contaminants in Surface Water: Insights from Their Occurrence in the Pearl River, South China. *ACS ES&T Water*, **2021**, 1, 1776-1784		6
333	Making waves: Improving removal performance of conventional wastewater treatment plants on endocrine disrupting compounds (EDCs): their conjugates matter. *Water Research*, **2021**, 188, 116469	12.5	26
332	A novel single-stage ceramic membrane moving bed biofilm reactor coupled with reverse osmosis for reclamation of municipal wastewater to NEWater-like product water. *Chemosphere*, **2021**, 268, 128836	8.4	8
331	Reverse osmosis concentrate: An essential link for closing loop of municipal wastewater reclamation towards urban sustainability. *Chemical Engineering Journal*, **2021**, 421, 127773	14.7	7
330	Transparent exopolymer particles (TEPs)-associated protobiofilm: A neglected contributor to biofouling during membrane filtration. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	9
329	Microalgal-bacterial granular sludge process: A game changer of future municipal wastewater treatment?. *Science of the Total Environment*, **2021**, 752, 141957	10.2	30
328	Legislation against endocrine-disrupting compounds in drinking water: essential but not enough to ensure water safety. *Environmental Science and Pollution Research*, **2021**, 28, 19505-19510	5.1	5
327	Cadmium-effect on performance and symbiotic relationship of microalgal-bacterial granules. *Journal of Cleaner Production*, **2021**, 282, 125383	10.3	18
326	Veterinary antibiotics in swine and cattle wastewaters of China and the United States: Features and differences. *Water Environment Research*, **2021**, 93, 1516-1529	2.8	1
325	Integrated forward osmosis-adsorption process for strontium-containing water treatment: Pre-concentration and solidification. *Journal of Hazardous Materials*, **2021**, 414, 125518	12.8	5
324	Circular economy-driven ammonium recovery from municipal wastewater: State of the art, challenges and solutions forward. *Bioresource Technology*, **2021**, 334, 125231	11	10
323	A review of 17□ethynylestradiol (EE2) in surface water across 32 countries: Sources, concentrations, and potential estrogenic effects. *Journal of Environmental Management*, **2021**, 292, 112804	7.9	12
322	Insight into the rapid biogranulation for suspended single-cell microalgae harvesting in wastewater treatment systems: Focus on the role of extracellular polymeric substances. *Chemical Engineering Journal*, **2021**, 132631	14.7	1
321	Concurrent removal of Cu(II), Co(II) and Ni(II) from wastewater by nanostructured layered sodium vanadosilicate: Competitive adsorption kinetics and mechanisms. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105945	6.8	5

320	Phosphate recovery from the P-enriched brine of AnMBR-RO-IE treating municipal wastewater via an innovated phosphorus recovery batch reactor with nano-sorbents. *Chemosphere*, **2021**, 284, 131259	8.4	1
319	Defensive responses of microalgal-bacterial granules to tetracycline in municipal wastewater treatment. *Bioresource Technology*, **2020**, 312, 123605	11	21
318	Natural adsorption of methylene blue by waste fallen leaves of Magnoliaceae and its repeated thermal regeneration for reuse. *Journal of Cleaner Production*, **2020**, 267, 121903	10.3	37
317	An innovative alkaline protease-based pretreatment approach for enhanced short-chain fatty acids production via a short-term anaerobic fermentation of waste activated sludge. *Bioresource Technology*, **2020**, 312, 123397	11	15
316	Ultrafast removal of radioactive strontium ions from contaminated water by nanostructured layered sodium vanadosilicate with high adsorption capacity and selectivity. *Journal of Hazardous Materials*, **2020**, 398, 122907	12.8	17
315	Trace determination of eleven natural estrogens and insights from their occurrence in a municipal wastewater treatment plant and river water. *Water Research*, **2020**, 182, 115976	12.5	19
314	State of the art of straw treatment technology: Challenges and solutions forward. *Bioresource Technology*, **2020**, 313, 123656	11	25
313	Mechanism of phosphate adsorption on superparamagnetic microparticles modified with transitional elements: Experimental observation and computational modelling. *Chemosphere*, **2020**, 258, 127327	8.4	5
312	Nanomaterials for radioactive wastewater decontamination. *Environmental Science: Nano*, **2020**, 7, 1008-1040	7.1	35
311	An environmentally sustainable approach for online chemical cleaning of MBR with activated peroxymonosulfate. *Journal of Membrane Science*, **2020**, 600, 117872	9.6	11
310	Bisphenol analogues in Chinese bottled water: Quantification and potential risk analysis. *Science of the Total Environment*, **2020**, 713, 136583	10.2	42
309	New insight into enhanced production of short-chain fatty acids from waste activated sludge by cation exchange resin-induced hydrolysis. *Chemical Engineering Journal*, **2020**, 388, 124235	14.7	55
308	A self-sustaining synergetic microalgal-bacterial granular sludge process towards energy-efficient and environmentally sustainable municipal wastewater treatment. *Water Research*, **2020**, 179, 115884	12.5	69
307	Food Waste to Biofertilizer: A Potential Game Changer of Global Circular Agricultural Economy. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 5021-5023	5.7	15
306	One step further to closed water loop: Reclamation of municipal wastewater to high-grade product water. *Chinese Science Bulletin*, **2020**, 65, 1358-1367	2.9	4
305	Removal mechanisms of phosphorus in non-aerated microalgal-bacterial granular sludge process. *Bioresource Technology*, **2020**, 312, 123531	11	30
304	The role of transparent exopolymer particles (TEP) in membrane fouling: A critical review. *Water Research*, **2020**, 181, 115930	12.5	60
303	A review on mainstream deammonification of municipal wastewater: Novel dual step process. *Bioresource Technology*, **2020**, 299, 122674	11	18

302	Integration of an anaerobic fluidized-bed membrane bioreactor (MBR) with zeolite adsorption and reverse osmosis (RO) for municipal wastewater reclamation: Comparison with an anoxic-aerobic MBR coupled with RO. *Chemosphere*, **2020**, 245, 125569	8.4	20
301	Modelling bacterial chemotaxis for indirectly binding attractants. *Journal of Theoretical Biology*, **2020**, 487, 110120	2.3	0
300	Formation mechanisms of emerging organic contaminants during on-line membrane cleaning with NaOCl in MBR. *Journal of Hazardous Materials*, **2020**, 386, 121966	12.8	23
299	Performance and microbial community in a single-stage simultaneous carbon oxidation, partial nitritation, denitritation and anammox system treating synthetic coking wastewater under the stress of phenol. *Chemosphere*, **2020**, 243, 125382	8.4	18
298	A novel micro-ferrous dosing strategy for enhancing biological phosphorus removal from municipal wastewater. *Science of the Total Environment*, **2020**, 704, 135453	10.2	28
297	Delicate manipulation of cobalt oxide nanodot clusterization on binder-free TiO2-nanorod photoanodes for efficient photoelectrochemical catalysis. *Journal of Alloys and Compounds*, **2020**, 820, 153139	5.7	2
296	Global review of phthalates in edible oil: An emerging and nonnegligible exposure source to human. *Science of the Total Environment*, **2020**, 704, 135369	10.2	31
295	Development of an integrated aerobic granular sludge MBR and reverse osmosis process for municipal wastewater reclamation. *Science of the Total Environment*, **2020**, 748, 141309	10.2	6
294	Catalytic pyrolysis of rain tree biomass with nano nickel oxide synthetized from nickel plating slag: A green path for treating waste by waste. *Bioresource Technology*, **2020**, 315, 123831	11	15
293	Architecting epitaxial-lattice-mismatch-free (LMF) zinc oxide/bismuth oxyiodide nano-heterostructures for efficient photocatalysis. *Journal of Materials Chemistry C*, **2020**, 8, 11263-11273	7.1	9
292	Simultaneous anti-fouling and flux-enhanced membrane distillation via incorporating graphene oxide on PTFE membrane for coking wastewater treatment. *Applied Surface Science*, **2020**, 531, 147349	6.7	19
291	Potential toxicity and implication of halogenated byproducts generated in MBR online-cleaning with hypochlorite. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 20-26	3.5	8
290	Performance, membrane fouling control and cost analysis of an integrated anaerobic fixed-film MBR and reverse osmosis process for municipal wastewater reclamation to NEWater-like product water. *Journal of Membrane Science*, **2020**, 593, 117442	9.6	33
289	Enhanced methane production from waste activated sludge by combining calcium peroxide with ultrasonic: Performance, mechanism, and implication. *Bioresource Technology*, **2019**, 279, 108-116	11	29
288	Halogenated organics generated during online chemical cleaning of MBR: An emerging threat to water supply and public health. *Science of the Total Environment*, **2019**, 656, 547-549	10.2	9
287	An innovative anaerobic MBR-reverse osmosis-ion exchange process for energy-efficient reclamation of municipal wastewater to NEWater-like product water. *Journal of Cleaner Production*, **2019**, 230, 1287-1293	10.3	38
286	Turning food waste to energy and resources towards a great environmental and economic sustainability: An innovative integrated biological approach. *Biotechnology Advances*, **2019**, 37, 107414	17.8	142
285	Environmental sustainability: a pressing challenge to biological sewage treatment processes. *Current Opinion in Environmental Science and Health*, **2019**, 12, 1-5	8.1	22

284	Bacterial community and eutrophic index analysis of the East Lake. *Environmental Pollution*, **2019**, 252, 682-688	9.3	20
283	Integrated upflow anaerobic fixed-bed and single-stage step-feed process for mainstream deammonification: A step further towards sustainable municipal wastewater reclamation. *Science of the Total Environment*, **2019**, 678, 559-564	10.2	15
282	Insights into microbial community profiles associated with electric energy production in microbial fuel cells fed with food waste hydrolysate. *Science of the Total Environment*, **2019**, 670, 50-58	10.2	16
281	Engineering feasibility, economic viability and environmental sustainability of energy recovery from nitrous oxide in biological wastewater treatment plant. *Bioresource Technology*, **2019**, 282, 514-519	11	58
280	Dynamics of microbial community and tetracycline resistance genes in biological nutrient removal process. *Journal of Environmental Management*, **2019**, 238, 84-91	7.9	19
279	Is anaerobic digestion a reliable barrier for deactivation of pathogens in biosludge?. *Science of the Total Environment*, **2019**, 668, 893-902	10.2	42
278	A novel variable pH control strategy for enhancing lipid production from food waste: Biodiesel versus docosahexaenoic acid. *Energy Conversion and Management*, **2019**, 189, 60-66	10.6	13
277	Biodiesel Production: Status and Perspectives **2019**, 503-522		6
276	Towards mainstream deammonification of municipal wastewater: Partial nitrification-anammox versus partial denitrification-anammox. *Science of the Total Environment*, **2019**, 692, 393-401	10.2	71
275	Insights into removal mechanisms of bisphenol A and its analogues in municipal wastewater treatment plants. *Science of the Total Environment*, **2019**, 692, 107-116	10.2	59
274	Technology feasibility and economic viability of an innovative integrated ceramic membrane bioreactor and reverse osmosis process for producing ultrapure water from municipal wastewater. *Chemical Engineering Journal*, **2019**, 375, 122078	14.7	19
273	Advanced treatment of salty eutrophication water using algal-bacterial granular sludge: With focus on nitrogen removal, phosphorus removal, and lipid accumulation. *BioResources*, **2019**, 14, 9518-9530	1.3	4
272	Bioactivities and formation/utilization of soluble microbial products (SMP) in the biological sulfate reduction under different conditions. *Chemosphere*, **2019**, 221, 37-44	8.4	23
271	Efficient nano-regional photocatalytic heterostructure design via the manipulation of reaction site self-quenching effect. *Applied Catalysis B: Environmental*, **2019**, 243, 220-228	21.8	17
270	Pretreatment of landfill leachate in near-neutral pH condition by persulfate activated Fe-C micro-electrolysis system. *Chemosphere*, **2019**, 216, 749-756	8.4	32
269	NOB suppression in pilot-scale mainstream nitritation-denitritation system coupled with MBR for municipal wastewater treatment. *Chemosphere*, **2019**, 216, 633-639	8.4	21
268	Decontamination of radioactive wastewater: State of the art and challenges forward. *Chemosphere*, **2019**, 215, 543-553	8.4	82
267	Remediation of oil spill-contaminated sands by chemical-free microbubbles generated in tap and saline water. *Journal of Hazardous Materials*, **2019**, 366, 124-129	12.8	8

266	Mainstream anammox in a novel A-2B process for energy-efficient municipal wastewater treatment with minimized sludge production. *Water Research*, **2018**, 138, 1-6	12.5	74
265	Monitoring local membrane fouling mitigation by fluidized GAC in lab-scale and pilot-scale AnFMBRs. *Separation and Purification Technology*, **2018**, 199, 331-345	8.3	9
264	Enhanced phenol removal in an innovative lignite activated coke-assisted biological process. *Bioresource Technology*, **2018**, 260, 357-363	11	17
263	Bioaccumulation of Persistent Halogenated Organic Pollutants in Insects: Common Alterations to the Pollutant Pattern for Different Insects during Metamorphosis. *Environmental Science & Technology*, **2018**, 52, 5145-5153	10.3	22
262	Effect of tetracycline on microbial community structure associated with enhanced biological N&P removal in sequencing batch reactor. *Bioresource Technology*, **2018**, 256, 414-420	11	38
261	Electric energy production from food waste: Microbial fuel cells versus anaerobic digestion. *Bioresource Technology*, **2018**, 255, 281-287	11	42
260	A novel single-stage process integrating simultaneous COD oxidation, partial nitritation-denitritation and anammox (SCONDA) for treating ammonia-rich organic wastewater. *Bioresource Technology*, **2018**, 254, 50-55	11	46
259	Full nitration-denitration versus partial nitration-denitration-anammox for treating high-strength ammonium-rich organic wastewater. *Bioresource Technology*, **2018**, 261, 379-384	11	24
258	Chemical cleaning-associated generation of dissolved organic matter and halogenated byproducts in ceramic MBR: Ozone versus hypochlorite. *Water Research*, **2018**, 140, 243-250	12.5	50
257	A comprehensive review on food waste anaerobic digestion: Research updates and tendencies. *Bioresource Technology*, **2018**, 247, 1069-1076	11	277
256	Enhanced dewaterability of waste activated sludge with Fe(II)-activated hypochlorite treatment. *Environmental Science and Pollution Research*, **2018**, 25, 27628-27638	5.1	21
255	A novel integrated thiosulfate-driven denitritation (TDD) and anaerobic ammonia oxidation (anammox) process for biological nitrogen removal. *Biochemical Engineering Journal*, **2018**, 139, 68-73	4.2	13
254	Microbial lipid production from food waste saccharified liquid and the effects of compositions. *Energy Conversion and Management*, **2018**, 172, 306-315	10.6	20
253	Biodiesels from microbial oils: Opportunity and challenges. *Bioresource Technology*, **2018**, 263, 631-641	11	88
252	Intermolecular interactions of polysaccharides in membrane fouling during microfiltration. *Water Research*, **2018**, 143, 38-46	12.5	50
251	Using an Attapulgite-Activated Carbon Composite Ceramisite Biofilter to Remove Dibutyl Phthalate from Source Water. *Polish Journal of Environmental Studies*, **2018**, 27, 897-903	2.3	2
250	Fate of tetracycline in enhanced biological nutrient removal process. *Chemosphere*, **2018**, 193, 998-1003	8.4	40
249	Oxidative stress induced membrane biofouling and its implications to on-line chemical cleaning in MBR. *Chemical Engineering Journal*, **2018**, 334, 1917-1926	14.7	16

248	A novel strategy towards sustainable and stable nitritation-denitritation in an A-B process for mainstream municipal wastewater treatment. *Chemosphere*, **2018**, 193, 921-927	8.4	11
247	Comparative study of dissolved organic matter generated from activated sludge during exposure to hypochlorite, hydrogen peroxide, acid and alkaline: Implications for on-line chemical cleaning of MBR. *Chemosphere*, **2018**, 193, 295-303	8.4	19
246	4-Chlorophenol Oxidation Depends on the Activation of an AraC-Type Transcriptional Regulator, CphR, in sp. Strain YH-5B. *Frontiers in Microbiology*, **2018**, 9, 2481	5.7	0
245	Migration and potential risk of trace phthalates in bottled water: A global situation. *Water Research* , **2018**, 147, 362-372	12.5	81
244	Ceramic membrane fouling by dissolved organic matter generated during on-line chemical cleaning with ozone in MBR. *Water Research*, **2018**, 146, 328-336	12.5	21
243	Energy self-sufficient biological municipal wastewater reclamation: Present status, challenges and solutions forward. *Bioresource Technology*, **2018**, 269, 513-519	11	59
242	Evaluation of anaerobic digestion of food waste and waste activated sludge: Soluble COD versus its chemical composition. *Science of the Total Environment*, **2018**, 643, 21-27	10.2	57
241	Effect of mechanical scouring by granular activated carbon (GAC) on membrane fouling mitigation. *Desalination*, **2017**, 403, 80-87	10.3	42
240	Transparent exopolymer particles (TEP)-associated membrane fouling at different Na concentrations. *Water Research*, **2017**, 111, 52-58	12.5	18
239	Fate of dissolved organic matter and byproducts generated from on-line chemical cleaning with sodium hypochlorite in MBR. *Chemical Engineering Journal*, **2017**, 323, 233-242	14.7	43
238	New insights into co-digestion of activated sludge and food waste: Biogas versus biofertilizer. *Bioresource Technology*, **2017**, 241, 448-453	11	58
237	Comparison and distribution of copper oxide nanoparticles and copper ions in activated sludge reactors. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2017**, 52, 507-514	2.3	4
236	An integrated AMBBR and IFAS-SBR process for municipal wastewater treatment towards enhanced energy recovery, reduced energy consumption and sludge production. *Water Research*, **2017**, 110, 262-269	12.5	40
235	A holistic approach for food waste management towards zero-solid disposal and energy/resource recovery. *Bioresource Technology*, **2017**, 228, 56-61	11	45
234	Single-stage versus two-stage anaerobic fluidized bed bioreactors in treating municipal wastewater: Performance, foulant characteristics, and microbial community. *Chemosphere*, **2017**, 171, 158-167	8.4	45
233	Comparison of the effects and distribution of zinc oxide nanoparticles and zinc ions in activated sludge reactors. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2017**, 52, 1073-1081	2.3	4
232	An integrated engineering system for maximizing bioenergy production from food waste. *Applied Energy*, **2017**, 206, 83-89	10.7	55
231	A novel A-B process for enhanced biological nutrient removal in municipal wastewater reclamation. *Chemosphere*, **2017**, 189, 39-45	8.4	19

230	Enhanced microbubbles assisted cleaning of diesel contaminated sand. *Marine Pollution Bulletin*, **2017**, 124, 331-335	6.7	11
229	Effect of fluidized granular activated carbon (GAC) on critical flux in the microfiltration of particulate foulants. *Journal of Membrane Science*, **2017**, 523, 409-417	9.6	24
228	Numerical simulation of plain concrete specimens with micromechanical model and simple lattice model. *Magazine of Concrete Research*, **2016**, 68, 971-980	2	1
227	State of the art of biological processes for coal gasification wastewater treatment. *Biotechnology Advances*, **2016**, 34, 1064-1072	17.8	71
226	Remediation of oil-contaminated sand with self-collapsing air microbubbles. *Environmental Science and Pollution Research*, **2016**, 23, 23876-23883	5.1	19
225	COD capture: a feasible option towards energy self-sufficient domestic wastewater treatment. *Scientific Reports*, **2016**, 6, 25054	4.9	102
224	New insights into transparent exopolymer particles (TEP) formation from precursor materials at various Na+/Ca2+ ratios. *Scientific Reports*, **2016**, 6, 19747	4.9	23
223	Characterization of microbial communities in wetland mesocosms receiving caffeine-enriched wastewater. *Environmental Science and Pollution Research*, **2016**, 23, 14526-39	5.1	11
222	High-throughput pyrosequencing analysis of bacteria relevant to cometabolic and metabolic degradation of ibuprofen in horizontal subsurface flow constructed wetlands. *Science of the Total Environment*, **2016**, 562, 604-613	10.2	42
221	Advanced treatment of biologically treated coking wastewater by membrane distillation coupled with pre-coagulation. *Desalination*, **2016**, 380, 43-51	10.3	61
220	Characterizing the scouring efficiency of Granular Activated Carbon (GAC) particles in membrane fouling mitigation via wavelet decomposition of accelerometer signals. *Journal of Membrane Science*, **2016**, 498, 105-115	9.6	36
219	Correlating the hydrodynamics of fluidized granular activated carbon (GAC) with membrane-fouling mitigation. *Journal of Membrane Science*, **2016**, 510, 38-49	9.6	37
218	Characterization of bacterial communities in wetland mesocosms receiving pharmaceutical-enriched wastewater. *Ecological Engineering*, **2016**, 90, 215-224	3.9	28
217	Free nitrous acid inhibition on carbon storage microorganisms: Accumulated inhibitory effects and recoverability. *Chemical Engineering Journal*, **2016**, 287, 285-291	14.7	13
216	Ibuprofen removal in horizontal subsurface flow constructed wetlands: treatment performance and fungal community dynamics. *Environmental Technology (United Kingdom)*, **2016**, 37, 1467-79	2.6	7
215	Enhanced performance of submerged hollow fibre microfiltration by fluidized granular activated carbon. *Journal of Membrane Science*, **2016**, 499, 47-55	9.6	27
214	Characterization of soluble microbial products (SMPs) in a membrane bioreactor (MBR) treating synthetic wastewater containing pharmaceutical compounds. *Water Research*, **2016**, 102, 594-606	12.5	67
213	Effect of crude glycerol impurities on lipid preparation by Rhodosporidium toruloides yeast 32489. *Bioresource Technology*, **2016**, 218, 373-9	11	61

212	Phytoextraction, phytotransformation and rhizodegradation of ibuprofen associated with Typha angustifolia in a horizontal subsurface flow constructed wetland. *Water Research*, **2016**, 102, 294-304	12.5	44
211	Simultaneous nitrification, denitrification and phosphorus removal (SNDPR) in a full-scale water reclamation plant located in warm climate. *Water Science and Technology*, **2016**, 74, 448-56	2.2	20
210	Enhanced membrane biofouling potential by on-line chemical cleaning in membrane bioreactor. *Journal of Membrane Science*, **2016**, 511, 84-91	9.6	55
209	Enzymatic pretreatment of activated sludge, food waste and their mixture for enhanced bioenergy recovery and waste volume reduction via anaerobic digestion. *Applied Energy*, **2016**, 179, 1131-1137	10.7	119
208	Generation of dissolved organic matter and byproducts from activated sludge during contact with sodium hypochlorite and its implications to on-line chemical cleaning in MBR. *Water Research*, **2016**, 104, 44-52	12.5	54
207	Ultrafiltration behaviors of alginate blocks at various calcium concentrations. *Water Research*, **2015**, 83, 248-57	12.5	52
206	Bioethanol production from mixed food waste by an effective enzymatic pretreatment. *Fuel*, **2015**, 159, 463-469	7.1	80
205	Application of constructed wetlands for wastewater treatment in tropical and subtropical regions (2000-2013). *Journal of Environmental Sciences*, **2015**, 30, 30-46	6.4	88
204	Remediation technologies for oil-contaminated sediments. *Marine Pollution Bulletin*, **2015**, 101, 483-90	6.7	65
203	N₂O accumulation from denitrification under different temperatures. *Applied Microbiology and Biotechnology*, **2015**, 99, 9215-26	5.7	17
202	Molecular mechanisms governing aerobic granular sludge processes. *Water Practice and Technology* , **2015**, 10, 277-281	0.9	1
201	Sample-preparation methods for direct and indirect analysis of natural estrogens. *TrAC - Trends in Analytical Chemistry*, **2015**, 64, 149-164	14.6	31
200	Platform chemical production from food wastes using a biorefinery concept. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1364-1379	3.5	60
199	Membrane Distillation Bioreactor (MDBR) - A lower Green-House-Gas (GHG) option for industrial wastewater reclamation. *Chemosphere*, **2015**, 140, 129-42	8.4	36
198	Phytotoxicity and bioaccumulation of ZnO nanoparticles in Schoenoplectus tabernaemontani. *Chemosphere*, **2015**, 120, 211-9	8.4	60
197	Role and significance of extracellular polymeric substances from granular sludge for simultaneous removal of organic matter and ammonia nitrogen. *Bioresource Technology*, **2015**, 179, 460-466	11	59
196	The challenges of mainstream deammonification process for municipal used water treatment. *Applied Microbiology and Biotechnology*, **2015**, 99, 2485-90	5.7	128
195	Enhancing the hydrolysis and methane production potential of mixed food waste by an effective enzymatic pretreatment. *Bioresource Technology*, **2015**, 183, 47-52	11	85

194	A brief review on possible approaches towards controlling sulfate-reducing bacteria (SRB) in wastewater treatment systems. *Desalination and Water Treatment*, **2015**, 53, 2799-2807		21
193	Treatment of high salinity brines by direct contact membrane distillation: Effect of membrane characteristics and salinity. *Chemosphere*, **2015**, 140, 143-9	8.4	50
192	Renewable Energy Derived from Food Waste and Co-digestion of Food Waste with Waste-Activated Sludge **2015**, 257-278		
191	Application of constructed wetlands for wastewater treatment in developing countries--a review of recent developments (2000-2013). *Journal of Environmental Management*, **2014**, 141, 116-31	7.9	212
190	Harvesting of microalgae Desmodesmus sp. F51 by bioflocculation with bacterial bioflocculant. *Algal Research*, **2014**, 6, 186-193	5	60
189	Determination of fracture energy of ultra high strength concrete. *Engineering Fracture Mechanics*, **2014**, 131, 602-615	4.2	16
188	Dissolved methane: a hurdle for anaerobic treatment of municipal wastewater. *Environmental Science & Technology*, **2014**, 48, 889-90	10.3	78
187	Removal of biofilms by intermittent low-intensity ultrasonication triggered bursting of microbubbles. *Biofouling*, **2014**, 30, 359-65	3.3	23
186	Bioconversion of food waste to energy: A review. *Fuel*, **2014**, 134, 389-399	7.1	429
185	Uptake and accumulation of CuO nanoparticles and CdS/ZnS quantum dot nanoparticles by Schoenoplectus tabernaemontani in hydroponic mesocosms. *Ecological Engineering*, **2014**, 70, 114-123	3.9	32
184	Enzyme Production from Food Wastes Using a Biorefinery Concept. *Waste and Biomass Valorization* , **2014**, 5, 903-917	3.2	59
183	A micromechanical model for concrete under static loading. *Magazine of Concrete Research*, **2014**, 66, 913-924	2	2
182	Identification of crack size and orientation in continuous cylindrical structure using macro-fiber composite. *Journal of Intelligent Material Systems and Structures*, **2014**, 25, 596-605	2.3	5
181	Macro-fiber composite-based structural health monitoring system for axial cracks in cylindrical structures. *Journal of Intelligent Material Systems and Structures*, **2014**, 25, 332-341	2.3	8
180	Transparent exopolymer particles (TEP) and their potential effect on membrane biofouling. *Applied Microbiology and Biotechnology*, **2013**, 97, 5705-10	5.7	26
179	Removal and transformation of organic matters in domestic wastewater during lab-scale chemically enhanced primary treatment and a trickling filter treatment. *Journal of Environmental Sciences*, **2013**, 25, 59-68	6.4	11
178	Impact of a biofouling layer on the vapor pressure driving force and performance of a membrane distillation process. *Journal of Membrane Science*, **2013**, 438, 140-152	9.6	54
177	Dependence of structure stability and integrity of aerobic granules on ATP and cell communication. *Applied Microbiology and Biotechnology*, **2013**, 97, 5105-12	5.7	23

176	Alginate block fractions and their effects on membrane fouling. *Water Research*, **2013**, 47, 6618-27	12.5	49
175	The effect of pH on the efficiency of an SBR processing piggery wastewater. *Biotechnology and Bioprocess Engineering*, **2013**, 18, 1230-1237	3.1	12
174	Fouling and wetting in membrane distillation (MD) and MD-bioreactor (MDBR) for wastewater reclamation. *Desalination*, **2013**, 323, 39-47	10.3	157
173	New insights into membrane fouling in submerged MBR under sub-critical flux condition. *Bioresource Technology*, **2013**, 137, 404-8	11	23
172	Importance of extracellular proteins in maintaining structural integrity of aerobic granules. *Colloids and Surfaces B: Biointerfaces*, **2013**, 112, 435-40	6	41
171	pH-dependent transformation of Ag nanoparticles in anaerobic processes. *Environmental Science & Technology*, **2013**, 47, 12630-1	10.3	20
170	Cleaning of biologically fouled membranes with self-collapsing microbubbles. *Biofouling*, **2013**, 29, 69-76	3.3	10
169	Degradation of paracetamol by Pseudomonas aeruginosa strain HJ1012. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2013**, 48, 791-9	2.3	26
168	Microbial community and biomass characteristics associated severe membrane fouling during start-up of a hybrid anoxic-oxic membrane bioreactor. *Bioresource Technology*, **2012**, 103, 43-7	11	36
167	Factors affecting flux performance of forward osmosis systems. *Journal of Membrane Science*, **2012** , 394-395, 151-168	9.6	107
166	Interval analysis of dynamic response of structures using Laplace transform. *Probabilistic Engineering Mechanics*, **2012**, 29, 32-39	2.6	19
165	Essential roles of eDNA and AI-2 in aerobic granulation in sequencing batch reactors operated at different settling times. *Applied Microbiology and Biotechnology*, **2012**, 93, 2645-51	5.7	23
164	Effect of shear stress and growth conditions on detachment and physical properties of biofilms. *Water Research*, **2012**, 46, 5499-5508	12.5	115
163	Biofilm detachment by self-collapsing air microbubbles: a potential chemical-free cleaning technology for membrane biofouling. *Journal of Materials Chemistry*, **2012**, 22, 2203-2207		34
162	Comparative study of electromechanical impedance and Lamb wave techniques for fatigue crack detection and monitoring in metallic structures **2012**,		2
161	State of the art of osmotic membrane bioreactors for water reclamation. *Bioresource Technology*, **2012**, 122, 217-22	11	76
160	Chemically inhibited ATP synthesis promoted detachment of different-age biofilms from membrane surface. *Applied Microbiology and Biotechnology*, **2012**, 95, 1073-82	5.7	11
159	Sludge Production: Quantification and Prediction for Urban Treatment Plants and Assessment of Strategies for Sludge Reduction **2012**, 81-116		1

158	Mathematical modeling of biofilm-covered granular activated carbon: a review. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1513-1520	3.5	10
157	Roles of ATP-dependent N-acylhomoserine lactones (AHLs) and extracellular polymeric substances (EPSs) in aerobic granulation. *Chemosphere*, **2012**, 88, 1058-64	8.4	50
156	Integrated coagulation-trickling filter-ultrafiltration processes for domestic wastewater treatment and reclamation. *Water Science and Technology*, **2012**, 65, 1599-605	2.2	9
155	Effect of Pharmaceuticals on the Performance of a Novel Osmotic Membrane Bioreactor (OMBR). *Separation Science and Technology*, **2012**, 47, 543-554	2.5	47
154	Analysis of Salt Accumulation in a Forward Osmosis System. *Separation Science and Technology*, **2012**, 47, 1837-1848	2.5	13
153	Biodegradable Bioplastics from Fermented Sludge, Wastes, and Effluents **2012**, 465-498		2
152	Detection and monitoring of axial cracks on cylindrical structures using torsional wave generated by piezoelectric macro-fiber composite **2012**,		2
151	Reduced microbial attachment by D-amino acid-inhibited AI-2 and EPS production. *Water Research*, **2011**, 45, 5796-804	12.5	35
150	Size-dependent microbial substrate uptake kinetics for aerobic granules. *International Journal of Environment and Waste Management*, **2011**, 7, 58	0.9	
149	Study of integration of forward osmosis and biological process: Membrane performance under elevated salt environment. *Desalination*, **2011**, 283, 123-130	10.3	131
148	Bioremediation of wastewaters with recalcitrant organic compounds and metals by aerobic granules. *Biotechnology Advances*, **2011**, 29, 111-23	17.8	111
147	Principle and applications of microbubble and nanobubble technology for water treatment. *Chemosphere*, **2011**, 84, 1175-80	8.4	464
146	Control and cleaning of membrane biofouling by energy uncoupling and cellular communication. *Environmental Science & Technology*, **2011**, 45, 595-601	10.3	59
145	High-Performance Anaerobic Granulation Processes for Treatment of Wastewater-Containing Recalcitrant Compounds. *Critical Reviews in Environmental Science and Technology*, **2011**, 41, 1271-1308	11.1	6
144	d-Amino acid mitigated membrane biofouling and promoted biofilm detachment. *Journal of Membrane Science*, **2011**, 376, 266-274	9.6	55
143	Microbial characterization of the biofilms developed for treating ampicillin-bearing wastewater. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2011**, 46, 314-22	2.3	2
142	Biological Phosphorus Removal Processes **2010**, 497-521		1
141	Fouling propensity of forward osmosis: investigation of the slower flux decline phenomenon. *Water Science and Technology*, **2010**, 61, 927-36	2.2	116

140	Impacts of salinity on the performance of high retention membrane bioreactors for water reclamation: A review. *Water Research*, **2010**, 44, 21-40	12.5	204
139	A comparison of membrane fouling under constant and variable organic loadings in submerge membrane bioreactors. *Water Research*, **2010**, 44, 5407-13	12.5	29
138	Energy uncoupling inhibits aerobic granulation. *Applied Microbiology and Biotechnology*, **2010**, 85, 589-95	5.7	29
137	Biological control of microbial attachment: a promising alternative for mitigating membrane biofouling. *Applied Microbiology and Biotechnology*, **2010**, 86, 825-37	5.7	158
136	Involvement of ATP and autoinducer-2 in aerobic granulation. *Biotechnology and Bioengineering*, **2010**, 105, 51-8	4.9	35
135	Control of microbial attachment by inhibition of ATP and ATP-mediated autoinducer-2. *Biotechnology and Bioengineering*, **2010**, 107, 31-6	4.9	16
134	Treatment of ampicillin-loaded wastewater by combined adsorption and biodegradation. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 814-820	3.5	15
133	Biodegradation of 2-chloroaniline, 3-chloroaniline, and 4-chloroaniline by a novel strain Delftia tsuruhatensis H1. *Journal of Hazardous Materials*, **2010**, 179, 875-82	12.8	50
132	Toxicity effect of phenol on aerobic granules. *Environmental Technology (United Kingdom)*, **2009**, 30, 69-74	2.46	38
131	Aerobic Granulation Technology **2009**, 109-128		4
130	Biological Nitrification and Denitrification Processes **2009**, 539-588		7
129	A simple geometric approach for simplification of Langmuir kinetics for adsorption. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 349, 78-82	5.1	2
128	Stoichiometric analysis of dissolved organic carbon flux into storage and growth in aerobic granules culture. *Biotechnology Journal*, **2009**, 4, 238-46	5.6	2
127	Is the Free Energy Change of Adsorption Correctly Calculated?. *Journal of Chemical & Engineering Data*, **2009**, 54, 1981-1985	2.8	705
126	Dynamic changes in microbial diversity of aerobic granules. *World Review of Science, Technology and Sustainable Development*, **2009**, 6, 166	1	
125	Principles and Kinetics of Biological Processes **2009**, 1-57		
124	From Langmuir kinetics to first- and second-order rate equations for adsorption. *Langmuir*, **2008**, 24, 11625-30	4	234
123	Reply to Comments on Biosorption isotherms, kinetics and thermodynamics review *Separation and Purification Technology*, **2008**, 63, 250	8.3	4

122	Mechanisms of Cd2+, Cu2+ and Ni2+ biosorption by aerobic granules. *Separation and Purification Technology*, **2008**, 58, 400-411	8.3	83
121	Biosorption isotherms, kinetics and thermodynamics. *Separation and Purification Technology*, **2008**, 61, 229-242	8.3	753
120	A general rate law equation for biosorption. *Biochemical Engineering Journal*, **2008**, 38, 390-394	4.2	83
119	New insights into pseudo-second-order kinetic equation for adsorption. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 320, 275-278	5.1	170
118	Uncertainty of preset-order kinetic equations in description of biosorption data. *Bioresource Technology*, **2008**, 99, 3309-12	11	27
117	Is sludge retention time a decisive factor for aerobic granulation in SBR?. *Bioresource Technology*, **2008**, 99, 7672-7	11	22
116	DO diffusion profile in aerobic granule and its microbiological implications. *Enzyme and Microbial Technology*, **2008**, 43, 349-354	3.8	36
115	Equilibrium, thermodynamics and mechanisms of Ni2+ biosorption by aerobic granules. *Biochemical Engineering Journal*, **2007**, 35, 174-182	4.2	153
114	Mechanism of calcium accumulation in acetate-fed aerobic granule. *Applied Microbiology and Biotechnology*, **2007**, 74, 467-73	5.7	22
113	Biodegradability of extracellular polymeric substances produced by aerobic granules. *Applied Microbiology and Biotechnology*, **2007**, 74, 462-6	5.7	58
112	Overview of some theoretical approaches for derivation of the Monod equation. *Applied Microbiology and Biotechnology*, **2007**, 73, 1241-50	5.7	52
111	Essential Roles of Extracellular Polymeric Substances in Aerobic Granulation **2007**, 181-194		1
110	Selection Pressure Theory for Aerobic Granulation in Sequencing Batch Reactors **2007**, 85-110		4
109	Diffusion of Substrate and Oxygen in Aerobic Granules **2007**, 131-147		
108	Aerobic Granulation at Different Carbon Sources and Concentrations **2007**, 1-23		
107	Influence of Starvation on Aerobic Granulation **2007**, 239-257		
106	Filamentous Growth in an Aerobic Granular Sludge SBR **2007**, 259-286		
105	Roles of SBR Volume Exchange Ratio and Discharge Time in Aerobic Granulation **2007**, 69-84		

104	Aerobic Granulation at Different Settling Times **2007**, 51-67		
103	Biodegradability of Extracellular Polymeric Substances Produced by Aerobic Granules **2007**, 209-222		
102	Calcium Accumulation in Acetate-Fed Aerobic Granules **2007**, 223-237		
101	Internal Structure of Aerobic Granules **2007**, 195-208		
100	The Essential Role of Cell Surface Hydrophobicity in Aerobic Granulation **2007**, 149-180		
99	Aerobic Granulation at Different Shear Forces **2007**, 25-36		
98	Improved Stability of Aerobic Granules by Selecting Slow-Growing Bacteria **2007**, 287-299		
97	Growth Kinetics of Aerobic Granules **2007**, 111-130		
96	Causes and control of filamentous growth in aerobic granular sludge sequencing batch reactors. *Biotechnology Advances*, **2006**, 24, 115-27	17.8	244
95	Chapter 5 Factors affecting aerobic granulation. *Waste Management Series*, **2006**, 6, 99-114		3
94	Chapter 4 Mechanisms of aerobic granulation. *Waste Management Series*, **2006**, 85-I		
93	Chapter 11 Biosorption properties of aerobic granules. *Waste Management Series*, **2006**, 245-267		1
92	The role of SBR mixed liquor volume exchange ratio in aerobic granulation. *Chemosphere*, **2006**, 62, 767-74	3.4	65
91	Aerobic granulation for organic carbon and nitrogen removal in alternating aerobic-anaerobic sequencing batch reactor. *Chemosphere*, **2006**, 63, 926-33	8.4	42
90	Chapter 8 Nutrient removal by microbial granules. *Waste Management Series*, **2006**, 6, 163-189		
89	Effect of pH on nickel biosorption by aerobic granular sludge. *Bioresource Technology*, **2006**, 97, 359-63	11	91
88	A simple thermodynamic approach for derivation of a general Monod equation for microbial growth. *Biochemical Engineering Journal*, **2006**, 31, 102-105	4.2	31
87	Some consideration on the Langmuir isotherm equation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 274, 34-36	5.1	142

86	The influence of short-term starvation on aerobic granules. *Process Biochemistry*, **2006**, 41, 2373-2378	4.8	37
85	A generalized model for settling velocity of aerobic granular sludge. *Biotechnology Progress*, **2005**, 21, 621-6	2.8	28
84	Denitrification on poly-beta-hydroxybutyrate in microbial granular sludge sequencing batch reactor. *Water Research*, **2005**, 39, 1503-10	12.5	76
83	Diffusion of substrate and oxygen in aerobic granule. *Biochemical Engineering Journal*, **2005**, 27, 45-52	4.2	61
82	Responses of sludge flocs to shear strength. *Process Biochemistry*, **2005**, 40, 3213-3217	4.8	19
81	Relationship between size and mass transfer resistance in aerobic granules. *Letters in Applied Microbiology*, **2005**, 40, 312-5	2.9	44
80	A unified theory for upscaling aerobic granular sludge sequencing batch reactors. *Biotechnology Advances*, **2005**, 23, 335-44	17.8	36
79	Influence of substrate surface loading on the kinetic behaviour of aerobic granules. *Applied Microbiology and Biotechnology*, **2005**, 67, 484-8	5.7	11
78	Selection pressure-driven aerobic granulation in a sequencing batch reactor. *Applied Microbiology and Biotechnology*, **2005**, 67, 26-32	5.7	125
77	Distribution of EPS and cell surface hydrophobicity in aerobic granules. *Applied Microbiology and Biotechnology*, **2005**, 69, 469-73	5.7	160
76	Initial conditions-dependent growth kinetics in microbial batch culture. *Process Biochemistry*, **2005**, 40, 155-160	4.8	6
75	The elemental compositions of P-accumulating microbial granules developed in sequencing batch reactors. *Process Biochemistry*, **2005**, 40, 3258-3262	4.8	21
74	Effect of Substrate Nitrogen/Chemical Oxygen Demand Ratio on the Formation of Aerobic Granules. *Journal of Environmental Engineering, ASCE*, **2005**, 131, 86-92	2	42
73	Derivation of a General Adsorption Isotherm Model. *Journal of Environmental Engineering, ASCE*, **2005**, 131, 1466-1468	2	8
72	Growth kinetics of aerobic granules developed in sequencing batch reactors. *Letters in Applied Microbiology*, **2004**, 38, 106-12	2.9	50
71	State of the art of biogranulation technology for wastewater treatment. *Biotechnology Advances*, **2004**, 22, 533-63	17.8	591
70	Respirometric activities of heterotrophic and nitrifying populations in aerobic granules developed at different substrate N/COD ratios. *Current Microbiology*, **2004**, 49, 42-6	2.4	26
69	A thermodynamic interpretation of cell hydrophobicity in aerobic granulation. *Applied Microbiology and Biotechnology*, **2004**, 64, 410-5	5.7	24

68	The effects of extracellular polymeric substances on the formation and stability of biogranules. *Applied Microbiology and Biotechnology*, **2004**, 65, 143-8	5.7	321
67	Inhibition of free ammonia to the formation of aerobic granules. *Biochemical Engineering Journal*, **2004**, 17, 41-48	4.2	113
66	Selection pressure is a driving force of aerobic granulation in sequencing batch reactors. *Process Biochemistry*, **2004**, 39, 579-584	4.8	139
65	A theoretical model for biosorption of cadmium, zinc and copper by aerobic granules based on initial conditions. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 982-986	3.5	8
64	Cell hydrophobicity is a triggering force of biogranulation. *Enzyme and Microbial Technology*, **2004**, 34, 371-379	3.8	106
63	Effect of settling time on aerobic granulation in sequencing batch reactor. *Biochemical Engineering Journal*, **2004**, 21, 47-52	4.2	162
62	Comments on "effect of extended idle conditions on structure and activity of granular activated sludge" by Zhu and Wilderer. *Water Research*, **2004**, 38, 3465-6; discussion 3467-9	12.5	9
61	Improved stability of aerobic granules by selecting slow-growing nitrifying bacteria. *Journal of Biotechnology*, **2004**, 108, 161-9	3.7	163
60	The influence of cell and substratum surface hydrophobicities on microbial attachment. *Journal of Biotechnology*, **2004**, 110, 251-6	3.7	148
59	Ca2+ augmentation for enhancement of aerobically grown microbial granules in sludge blanket reactors. *Biotechnology Letters*, **2003**, 25, 95-9	3	112
58	The role of cell hydrophobicity in the formation of aerobic granules. *Current Microbiology*, **2003**, 46, 270-4	2.4	70
57	A thermodynamic interpretation of the Monod equation. *Current Microbiology*, **2003**, 46, 233-4	2.4	15
56	Elemental compositions and characteristics of aerobic granules cultivated at different substrate N/C ratios. *Applied Microbiology and Biotechnology*, **2003**, 61, 556-61	5.7	44
55	Development and characteristics of phosphorus-accumulating microbial granules in sequencing batch reactors. *Applied Microbiology and Biotechnology*, **2003**, 62, 430-5	5.7	94
54	Biosorption kinetics of cadmium(II) on aerobic granular sludge. *Process Biochemistry*, **2003**, 38, 997-1001	4.8	79
53	A balanced model for biofilms developed at different growth and detachment forces. *Process Biochemistry*, **2003**, 38, 1761-1765	4.8	25
52	Metabolic uncouplers reduce excess sludge production in an activated sludge process. *Process Biochemistry*, **2003**, 38, 1373-1377	4.8	51
51	A general model for biosorption of Cd2+, Cu2+ and Zn2+ by aerobic granules. *Journal of Biotechnology*, **2003**, 102, 233-9	3.7	134

50	Chemically reduced excess sludge production in the activated sludge process. *Chemosphere*, **2003**, 50, 1-7	8.4	170
49	Mechanisms and models for anaerobic granulation in upflow anaerobic sludge blanket reactor. *Water Research*, **2003**, 37, 661-73	12.5	207
48	A novel granular sludge sequencing batch reactor for removal of organic and nitrogen from wastewater. *Journal of Biotechnology*, **2003**, 106, 77-86	3.7	111
47	Kinetic responses of activated sludge microorganisms to individual and joint copper and zinc. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2003**, 38, 353-60	2.3	9
46	Substrate concentration-independent aerobic granulation in sequential aerobic sludge blanket reactor. *Environmental Technology (United Kingdom)*, **2003**, 24, 1235-42	2.6	73
45	Hydraulic selection pressure-induced nitrifying granulation in sequencing batch reactors. *Applied Microbiology and Biotechnology*, **2002**, 59, 332-7	5.7	80
44	High organic loading influences the physical characteristics of aerobic sludge granules. *Letters in Applied Microbiology*, **2002**, 34, 407-12	2.9	259
43	Influence of phenol on cultures of acetate-fed aerobic granular sludge. *Letters in Applied Microbiology*, **2002**, 35, 162-5	2.9	9
42	Aerobic granules: a novel zinc biosorbent. *Letters in Applied Microbiology*, **2002**, 35, 548-51	2.9	31
41	Anaerobic granulation technology for wastewater treatment. *World Journal of Microbiology and Biotechnology*, **2002**, 18, 99-113	4.4	85
40	The accumulation of fixed biomass increases the observed growth yield of a nitrifying biofilm. *Biotechnology Letters*, **2002**, 24, 391-394	3	1
39	Characteristics of aerobic granules grown on glucose and acetate in sequential aerobic sludge blanket reactors. *Environmental Technology (United Kingdom)*, **2002**, 23, 931-6	2.6	118
38	The essential role of hydrodynamic shear force in the formation of biofilm and granular sludge. *Water Research*, **2002**, 36, 1653-65	12.5	651
37	Utilization of a metabolic uncoupler, 3,3',4',5-tetrachlorosalicylanilide (TCS) to reduce sludge growth in activated sludge culture. *Water Research*, **2002**, 36, 2077-83	12.5	73
36	The effects of shear force on the formation, structure and metabolism of aerobic granules. *Applied Microbiology and Biotechnology*, **2001**, 57, 227-33	5.7	337
35	The role of cellular polysaccharides in the formation and stability of aerobic granules. *Letters in Applied Microbiology*, **2001**, 33, 222-6	2.9	178
34	Metabolic response of biofilm to shear stress in fixed-film culture. *Journal of Applied Microbiology*, **2001**, 90, 337-42	4.7	81
33	Microscopic observation of aerobic granulation in sequential aerobic sludge blanket reactor. *Journal of Applied Microbiology*, **2001**, 91, 168-75	4.7	305

32	Detachment forces and their influence on the structure and metabolic behaviour of biofilms. *World Journal of Microbiology and Biotechnology*, **2001**, 17, 111-117	4.4	46
31	Strategy for minimization of excess sludge production from the activated sludge process. *Biotechnology Advances*, **2001**, 19, 97-107	17.8	173
30	Factors affecting nitrite build-up in nitrifying biofilm reactor. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2001**, 36, 1027-40	2.3	24
29	A kinetic model for energy spilling-associated product formation in substrate-sufficient continuous culture. *Journal of Applied Microbiology*, **2000**, 88, 663-8	4.7	7
28	Interaction between catabolism and anabolism in the oxidative assimilation of dissolved organic carbon. *Biotechnology Letters*, **2000**, 22, 1521-1525	3	10
27	Effect of initial ratio of heavy metal to biomass on growth yield in batch culture of activated sludge. *Toxicological and Environmental Chemistry*, **2000**, 74, 9-18	1.4	2
26	Interrelationship of DOC Distribution in Metabolic Network to Growth Yield in Batch Culture. *Journal of Environmental Engineering, ASCE*, **2000**, 126, 89-92	2	
25	The So/Xo-dependent dissolved organic carbon distribution in substrate-sufficient batch culture of activated sludge. *Water Research*, **2000**, 34, 1645-1651	12.5	9
24	Modeling of Energy Spilling in Substrate-Sufficient Cultures. *Journal of Environmental Engineering, ASCE*, **1999**, 125, 508-513	2	11
23	A kinetic model incorporating energy spilling for substrate removal in substrate-sufficient batch culture of activated sludge. *Applied Microbiology and Biotechnology*, **1999**, 52, 647-51	5.7	9
22	Model of dissolved organic carbon distribution for substrate-sufficient continuous culture. *Biotechnology and Bioengineering*, **1999**, 65, 474-9	4.9	4
21	Effect of the S 0 / X 0 ratio on energy uncoupling in substrate-sufficient batch culture of activated sludge. *Water Research*, **1998**, 32, 2883-2888	12.5	27
20	Estimating Minimum Fixed Biomass Concentration and Active Thickness of Nitrifying Biofilm. *Journal of Environmental Engineering, ASCE*, **1997**, 123, 198-202	2	28
19	Model of energy uncoupling for substrate-sufficient culture. *Biotechnology and Bioengineering*, **1997**, 55, 571-6	4.9	15
18	Specific activity of nitrifying biofilm in water nitrification process. *Water Research*, **1996**, 30, 1645-1650	12.5	30
17	Bioenergetic interpretation on the S0X0 ratio in substrate-sufficient batch culture. *Water Research*, **1996**, 30, 2766-2770	12.5	49
16	Adhesion kinetics of nitrifying bacteria on various thermoplastic supports. *Colloids and Surfaces B: Biointerfaces*, **1995**, 5, 213-219	6	25
15	Response pattern of nitrifying biofilm reactor to shock loading. *Biotechnology Letters*, **1994**, 16, 655-6603		4

List of Publications

14	Some observations on free ammonia inhibition to Nitrobacter in nitrifying biofilm reactor. *Biotechnology Letters*, **1994**, 16, 309-314	3	7
13	Kinetic behaviors of nitrifying biofblm growth in wastewater nitrification process. *Environmental Technology (United Kingdom)*, **1994**, 15, 1001-1013	2.6	23
12	Glucoamylase production from food waste by solid state fermentation and its evaluation in the hydrolysis of domestic food waste. *Biofuel Research Journal*,98-105	13.9	28
11	Assessment of Microalgal-Bacterial Granular Sludge Process for Environmentally Sustainable Municipal Wastewater Treatment. *ACS ES&T Water*,		9
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