

# Am Jang

## List of Publications by Year in descending order

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148  
papers

4,157  
citations

109311

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149686

56  
g-index

149  
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149  
docs citations

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times ranked

4488  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of membrane system performance using artificial intelligence technologies for sustainable water and wastewater treatment: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3689-3719.	12.8	23
2	Review of adsorptionâ€‘membrane hybrid systems for water and wastewater treatment. <i>Chemosphere</i> , 2022, 286, 131916.	8.2	83
3	Role of organic fouling layers on the transport of micropollutants in forward osmosis membrane processes. <i>Journal of Water Process Engineering</i> , 2022, 45, 102469.	5.6	4
4	Fate, elimination, and simulation of low-molecular-weight micropollutants in an integrated activated carbon-fertiliser drawn osmotic membrane bioreactor. <i>Bioresource Technology</i> , 2022, 351, 126972.	9.6	4
5	Fertilizer draw solution index in osmotic membrane bioreactor for simultaneous wastewater treatment and sustainable agriculture. <i>Chemosphere</i> , 2022, 296, 134002.	8.2	6
6	Recovery of volatile fatty acids using forward osmosis: Influence of solution chemistry, temperature, and membrane orientation. <i>Chemosphere</i> , 2022, 303, 134814.	8.2	7
7	Size-dependent transport and fouling formation of organic matters in a pilot-scale PFOâ€‘RO hybrid system for real wastewater treatment. <i>Journal of Cleaner Production</i> , 2022, 361, 132233.	9.3	2
8	Possibility assessment of ultrafiltration membrane pre-treatment efficiency for brackish water reverse osmosis-based wastewater reuse: Lab and demonstration. <i>Chemosphere</i> , 2022, 303, 134897.	8.2	2
9	Prediction of forward osmosis membrane engineering factors using artificial intelligence approach. <i>Journal of Environmental Management</i> , 2022, 318, 115544.	7.8	7
10	The application of microalgae in removing organic micropollutants in wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1187-1220.	12.8	50
11	Enhanced adsorption performance for selected pharmaceutical compounds by sonicated Ti3C2TX MXene. <i>Chemical Engineering Journal</i> , 2021, 406, 126789.	12.7	116
12	Effects of co-existence of organic matter and microplastics on the rejection of PFCs by forward osmosis membrane. <i>Environmental Research</i> , 2021, 194, 110597.	7.5	13
13	The influence of engineering factors on the efficiency of a spiral wound forward osmosis system: Performance and economic evaluation. <i>Desalination</i> , 2021, 501, 114884.	8.2	6
14	Low-pressure volume retarded osmosis for removal of per- and polyfluoroalkyl substances. <i>Water Research</i> , 2021, 194, 116929.	11.3	6
15	Electrochemical recovery of H <sub>2</sub> and nutrients (N, P) from synthetic source separate urine water. <i>Chemosphere</i> , 2021, 269, 129361.	8.2	12
16	Facile Surface Modification of Polyamide Membranes Using UV-Photooxidation Improves Permeability and Reduces Natural Organic Matter Fouling. <i>Environmental Science &amp; Technology</i> , 2021, 55, 6984-6994.	10.0	25
17	An osmotic membrane bioreactorâ€‘clarifier system with a deep learning model for simultaneous reduction of salt accumulation and membrane fouling. <i>Chemosphere</i> , 2021, 272, 129872.	8.2	14
18	Real-time fouling monitoring and membrane autopsy analysis in forward osmosis for wastewater reuse. <i>Water Research</i> , 2021, 197, 117098.	11.3	20

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19	Real-time monitoring of forward osmosis membrane fouling in wastewater reuse process performed with a deep learning model. <i>Chemosphere</i> , 2021, 275, 130047.	8.2	24
20	Comparative analysis of salt cleaning and osmotic backwash on calcium-bridged organic fouling in nanofiltration process. <i>Desalination</i> , 2021, 507, 115022.	8.2	18
21	Effects of microplastics on the removal of trace organic compounds during ozonation: Oxidation and adsorption of trace organic compounds and byproducts. <i>Environmental Pollution</i> , 2021, 280, 116878.	7.5	10
22	Development of artificial intelligence-based models for the prediction of filtration performance and membrane fouling in an osmotic membrane bioreactor. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105337.	6.7	23
23	Forward osmosis system design and optimization using a commercial cellulose triacetate hollow fibre membrane module for energy efficient desalination. <i>Desalination</i> , 2021, 510, 115075.	8.2	16
24	Mitigation of self-shading effect in embedded optical fiber in <i>Chlorella sorokiniana</i> immobilized polyvinyl alcohol gel beads. <i>Chemosphere</i> , 2021, 283, 131195.	8.2	3
25	Forward osmosis (FO)-reverse osmosis (RO) hybrid process incorporated with hollow fiber FO. <i>Npj Clean Water</i> , 2021, 4, .	8.0	17
26	Effect of the working and counter/quasi-reference electrode relative area ratio of silver sensor electrodes on voltammetric detection of Pb(II). <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 67-70.	5.8	1
27	A metal organic framework-ultrafiltration hybrid system for removing selected pharmaceuticals and natural organic matter. <i>Chemical Engineering Journal</i> , 2020, 382, 122920.	12.7	47
28	Reduction of biofouling potential in cartridge filter by using chlorine dioxide for enhancing anti-biofouling of seawater reverse osmosis membrane. <i>Environmental Research</i> , 2020, 180, 108866.	7.5	10
29	High turbidity water treatment by ceramic microfiltration membrane: Fouling identification and process optimization. <i>Environmental Technology and Innovation</i> , 2020, 17, 100578.	6.1	27
30	Fouling and transport of organic matter in cellulose triacetate forward-osmosis membrane for wastewater reuse and seawater desalination. <i>Chemical Engineering Journal</i> , 2020, 384, 123341.	12.7	32
31	Long-term performance and initial fouling evaluation of an open-loop plate and frame forward osmosis element using wastewater treatment plant secondary effluent as a feed solution. <i>Journal of Water Process Engineering</i> , 2020, 33, 101077.	5.6	9
32	Electrocoagulants Characteristics and Application of Electrocoagulation for Micropollutant Removal and Transformation Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 1775-1788.	8.0	33
33	Removal of organic micropollutants using advanced membrane-based water and wastewater treatment: A review. <i>Journal of Membrane Science</i> , 2020, 598, 117672.	8.2	238
34	Techno-economic evaluation of an element-scale forward osmosis-reverse osmosis hybrid process for seawater desalination. <i>Desalination</i> , 2020, 476, 114240.	8.2	44
35	Reduction of hexavalent chromium and degradation of tetracycline using a novel indium-doped Mn <sub>2</sub> O <sub>3</sub> nanorod photocatalyst. <i>Journal of Hazardous Materials</i> , 2020, 397, 122885.	12.4	76
36	Enhanced mechanical deep dewatering of dewatered sludge by a thermal hydrolysis pre-treatment: Effects of temperature and retention time. <i>Environmental Research</i> , 2020, 188, 109746.	7.5	16

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37	Exploration of microalgal species for simultaneous wastewater treatment and biofuel production. <i>Environmental Research</i> , 2020, 188, 109772.	7.5	24
38	Mechanisms for degradation and transformation of $\beta$ -blocker atenolol via electrocoagulation, electro-Fenton, and electro-Fenton-like processes. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1465-1481.	2.4	26
39	Incorporation of iron (oxyhydr)oxide nanoparticles with expanded graphite for phosphorus removal and recovery from aqueous solutions. <i>Chemosphere</i> , 2020, 259, 127395.	8.2	11
40	Characterization and control of membrane fouling during dewatering of activated sludge using a thin film composite forward osmosis membrane. <i>Journal of Hazardous Materials</i> , 2020, 396, 122736.	12.4	18
41	Enhancement of ozonation of seawater-based wastewater containing pharmaceutical compounds by total residual oxidants: Salinity, ammonia, and organic matter. <i>Chemosphere</i> , 2020, 259, 127513.	8.2	10
42	Optimization of alginate bead size immobilized with <i>Chlorella vulgaris</i> and <i>Chlamydomonas reinhardtii</i> for nutrient removal. <i>Bioresource Technology</i> , 2020, 302, 122891.	9.6	33
43	Charge characteristics (surface charge vs. zeta potential) of membrane surfaces to assess the salt rejection behavior of nanofiltration membranes. <i>Separation and Purification Technology</i> , 2020, 247, 117026.	7.9	47
44	Effect of peroxomonosulfate, peroxydisulfate and hydrogen peroxide on graphene oxide photocatalytic performances in methyl orange dye degradation. <i>Chemosphere</i> , 2019, 237, 124479.	8.2	60
45	Municipal wastewater treatment by forward osmosis using seawater concentrate as draw solution. <i>Chemosphere</i> , 2019, 237, 124485.	8.2	36
46	Enhancing the removal efficiency of osmotic membrane bioreactors: A comprehensive review of influencing parameters and hybrid configurations. <i>Chemosphere</i> , 2019, 236, 124363.	8.2	29
47	Construction of heterostructure CoWO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite as an efficient visible-light photocatalyst for norfloxacin degradation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 558-567.	5.8	75
48	Comparative performance of FO-RO hybrid and two-pass SWRO desalination processes: Boron removal. <i>Desalination</i> , 2019, 471, 114114.	8.2	29
49	The effects of naturally occurring operation factors on the removal mechanism of major algae metabolized materials in forward osmosis process. <i>Journal of Cleaner Production</i> , 2019, 239, 118009.	9.3	12
50	Application of volume retarded osmosis – Low pressure membrane hybrid process for recovery of heavy metals in acid mine drainage. <i>Chemosphere</i> , 2019, 232, 264-272.	8.2	15
51	Removal and transport behavior of trace organic compounds and degradation byproducts in forward osmosis process: Effects of operation conditions and membrane properties. <i>Chemical Engineering Journal</i> , 2019, 375, 122030.	12.7	25
52	Removal behaviors and fouling mechanisms of charged antibiotics and nanoparticles on forward osmosis membrane. <i>Journal of Environmental Management</i> , 2019, 247, 385-393.	7.8	17
53	Techno-economic assessment of fertiliser drawn forward osmosis process for greenwall plants from urban wastewater. <i>Chemical Engineering Research and Design</i> , 2019, 127, 180-188.	5.6	29
54	Chemical-free scale inhibition method for seawater reverse osmosis membrane process: Air micro-nano bubbles. <i>Desalination</i> , 2019, 461, 1-9.	8.2	50

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55	Tuning the nanostructure of nitrogen-doped graphene laminates for forward osmosis desalination. <i>Nanoscale</i> , 2019, 11, 22025-22032.	5.6	13
56	Effect of charged nano-particles on ceramic microfiltration membrane fouling. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 125-132.	5.8	14
57	Application of a volume retarded osmosis–low pressure membrane hybrid process for treatment of acid whey. <i>Chemosphere</i> , 2019, 219, 261-267.	8.2	9
58	Optimization of simplified freeze desalination with surface scraped freeze crystallizer for producing irrigation water without seeding. <i>Desalination</i> , 2019, 452, 68-74.	8.2	21
59	Removal of selected pharmaceuticals in an ultrafiltration-activated biochar hybrid system. <i>Journal of Membrane Science</i> , 2019, 570-571, 77-84.	8.2	43
60	Assessing the removal of organic micropollutants by a novel baffled osmotic membrane bioreactor-microfiltration hybrid system. <i>Bioresource Technology</i> , 2018, 262, 98-106.	9.6	47
61	Nanoparticle charge affects water and reverse salt fluxes in forward osmosis process. <i>Desalination</i> , 2018, 438, 10-18.	8.2	15
62	Presence of Fe-Al binary oxide adsorbent cake layer in ceramic membrane filtration and their impact for removal of HA and BSA. <i>Chemosphere</i> , 2018, 196, 440-452.	8.2	7
63	Evaluation of an element-scale plate-type forward osmosis: Effect of structural parameters and operational conditions. <i>Desalination</i> , 2018, 430, 15-23.	8.2	19
64	Organic fouling characterization of a CTA-based spiral-wound forward osmosis (SWFO) membrane used in wastewater reuse and seawater desalination. <i>Chemical Engineering Journal</i> , 2018, 336, 141-151.	12.7	37
65	Feasibility evaluation of element scale forward osmosis for direct connection with reverse osmosis. <i>Journal of Membrane Science</i> , 2018, 549, 366-376.	8.2	21
66	Effect of humic acid in surface water on the electrochemical performance of bromate detection. <i>Chemical Engineering Journal</i> , 2018, 339, 317-321.	12.7	1
67	Application of volume-retarded osmosis and low-pressure membrane hybrid process for water reclamation. <i>Chemosphere</i> , 2018, 194, 76-84.	8.2	12
68	Foulant–foulant Interaction of Combined Micro-particulate and Organic Fouling on a Ceramic Membrane. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 4814-4825.	1.9	3
69	Current development and future prospect review of freeze desalination. <i>Desalination</i> , 2018, 447, 167-181.	8.2	92
70	Forward osmosis system analysis for optimum design and operating conditions. <i>Water Research</i> , 2018, 145, 429-441.	11.3	47
71	Relating solute properties of contaminants of emerging concern and their rejection by forward osmosis membrane. <i>Science of the Total Environment</i> , 2018, 639, 673-678.	8.0	39
72	Hybrid forward osmosis-reverse osmosis for wastewater reuse and seawater desalination: Understanding the optimal feed solution to minimise fouling. <i>Chemical Engineering Research and Design</i> , 2018, 117, 523-532.	5.6	58

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73	Evaluation of fouling mechanisms for humic acid molecules in an activated biochar-ultrafiltration hybrid system. Chemical Engineering Journal, 2017, 326, 240-248.	12.7	33
74	Amperometric bromate-sensitive sensor via layer-by-layer assembling of metalloporphyrin and polyelectrolytes on carbon nanotubes modified surfaces. Sensors and Actuators B: Chemical, 2017, 244, 157-166.	7.8	16
75	Application of sensitive electrochemical sensing system for detecting bromate from disinfection process in desalination plant. Desalination, 2017, 423, 135-140.	8.2	5
76	The Fouling Characteristics of NOMs on the Microfiltration Ceramic Membrane. Journal of Coastal Research, 2017, 79, 60-64.	0.3	0
77	Enhancement of cleaning-in-place (CIP) of a reverse osmosis desalination process with air micro-nano bubbles. Desalination, 2017, 422, 1-4.	8.2	50
78	New concept of pump-less forward osmosis (FO) and low-pressure membrane (LPM) process. Scientific Reports, 2017, 7, 14569.	3.3	11
79	Evaluation of Removal Mechanisms in a Graphene Oxide-Coated Ceramic Ultrafiltration Membrane for Retention of Natural Organic Matter, Pharmaceuticals, and Inorganic Salts. ACS Applied Materials & Interfaces, 2017, 9, 40369-40377.	8.0	80
80	Evaluation of natural organic matter adsorption on Fe-Al binary oxide: Comparison with single metal oxides. Chemosphere, 2017, 185, 247-257.	8.2	16
81	Evaluation of forward osmosis membrane performance by using wastewater treatment plant effluents as feed solution. Desalination and Water Treatment, 2016, 57, 26657-26669.	1.0	11
82	Application of chlorine dioxide (ClO <sub>2</sub> ) to reverse osmosis (RO) membrane for seawater desalination. Journal of the Taiwan Institute of Chemical Engineers, 2016, 68, 281-288.	5.3	12
83	Performance evaluation of two-stage spiral wound forward osmosis elements at various operation conditions. Desalination and Water Treatment, 2016, 57, 24583-24594.	1.0	18
84	The effects of physical cleaning and chemical backwashing on foulant formation in a microfiltration membrane intended for the reuse of wastewater. Desalination and Water Treatment, 2016, 57, 26586-26594.	1.0	0
85	Combined coagulation/ceramic membrane ultrafiltration system for reclamation of degreasing washing water. Desalination and Water Treatment, 2016, 57, 7479-7486.	1.0	8
86	Performance assessment of a submerged membrane bioreactor using a novel microbial consortium. Bioresource Technology, 2016, 210, 2-10.	9.6	13
87	Study on electrocoagulation parameters (current density, pH, and electrode distance) for removal of fluoride from groundwater. Environmental Earth Sciences, 2016, 75, 1.	2.7	29
88	Effect of forward osmosis (membrane) support layer fouling by organic matter in synthetic seawater solution. Desalination and Water Treatment, 2016, 57, 24595-24605.	1.0	2
89	Fatty acids fouling on forward osmosis membrane: impact of pH. Desalination and Water Treatment, 2016, 57, 7531-7537.	1.0	12
90	Development of a rotary disc voltammetric sensor system for semi-continuous and on-site measurements of Pb(II). Chemosphere, 2016, 143, 78-84.	8.2	9

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91	Study of flux decline and solute diffusion on an osmotically driven membrane process potentially applied to municipal wastewater reclamation. Journal of Industrial and Engineering Chemistry, 2016, 33, 255-261.	5.8	11
92	Application of dissolved air flotation (DAF) with coagulation process for treatment of phosphorus within permeate of membrane bioreactor (MBR). Desalination and Water Treatment, 2016, 57, 9043-9050.	1.0	7
93	Fouling characteristics of NOM during the ceramic membrane microfiltration process for water treatment. Desalination and Water Treatment, 2016, 57, 9034-9042.	1.0	6
94	Organic fouling and reverse solute selectivity in forward osmosis: Role of working temperature and inorganic draw solutions. Desalination, 2016, 389, 162-170.	8.2	46
95	A comparative study on per capita waste generation according to a waste collecting system in Korea. Environmental Science and Pollution Research, 2016, 23, 7074-7080.	5.3	3
96	Enhanced Arsenate Removal Performance in Aqueous Solution by Yttrium-Based Adsorbents. International Journal of Environmental Research and Public Health, 2015, 12, 13523-13541.	2.6	24
97	Foulant characterization and distribution in spiral wound reverse osmosis membranes from different pressure vessels. Desalination, 2015, 370, 44-52.	8.2	42
98	Hydrothermal decoration of iron oxide nanoparticles on expanded graphite for adsorption of phosphorus. , 2015, , .		1
99	Formation and speciation of haloacetic acids in seawater desalination using chlorine dioxide as disinfectant. Journal of Industrial and Engineering Chemistry, 2015, 26, 193-201.	5.8	28
100	Influence of microbubble in physical cleaning of MF membrane process for wastewater reuse. Environmental Science and Pollution Research, 2015, 22, 8451-8459.	5.3	20
101	Modeling of a monopolar ion-exchange membrane for nutrient salts removal. Desalination and Water Treatment, 2015, 53, 2825-2830.	1.0	3
102	An analysis of the effects of osmotic backwashing on the seawater reverse osmosis process. Environmental Technology (United Kingdom), 2014, 35, 1455-1461.	2.2	9
103	Comparative pyrosequencing analysis of bacterial community change in biofilm formed on seawater reverse osmosis membrane. Environmental Technology (United Kingdom), 2014, 35, 125-136.	2.2	14
104	The role of a combined coagulation and disk filtration process as a pre-treatment to microfiltration and reverse osmosis membranes in a municipal wastewater pilot plant. Chemosphere, 2014, 117, 20-26.	8.2	31
105	Metagenomic analysis for identifying Kimchi sp. during the industrial-scale batch fermentation. Toxicology and Environmental Health Sciences, 2014, 6, 8-15.	2.1	5
106	The evaluation on concentration polarization for effective monitoring of membrane fouling in seawater reverse osmosis membrane system. Journal of Industrial and Engineering Chemistry, 2014, 20, 2354-2358.	5.8	10
107	Antimicrobial activities of green tea extract on the retardation of kimchi fermentation. Toxicology and Environmental Health Sciences, 2013, 5, 197-200.	2.1	0
108	Advances in pathogen-associated molecules detection using Aptamer based biosensors. Molecular and Cellular Toxicology, 2013, 9, 311-317.	1.7	22



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109	Evaluation of chemical cleaning efficiency of organic-fouled SWRO membrane by analyzing filtration resistance. Desalination and Water Treatment, 2013, 51, 6172-6178.	1.0	6
110	Reflection of the structural distinctions of sourceâ€”different humic substances on organic fouling behaviors of SWRO membranes. Desalination, 2013, 318, 72-78.	8.2	9
111	Immobilization of lysozyme-CLEA onto electrospun chitosan nanofiber for effective antibacterial applications. International Journal of Biological Macromolecules, 2013, 54, 37-43.	7.5	112
112	Influence of sodium hypochlorite used for chemical enhanced backwashing on biophysical treatment in MBR. Desalination, 2013, 316, 104-109.	8.2	56
113	Ocean current and temperature analysis using satellite data for the effective operation of SWRO desalination plant in Cijang-gun, Busan, South Korea. Desalination and Water Treatment, 2013, 51, 6310-6316.	1.0	0
114	Bioconjugation of gold nanoparticles with DNA for <i>in situ</i> hybridization. Desalination and Water Treatment, 2012, 46, 38-45.	1.0	2
115	A study on the high-flux MBR system using PTFE flat sheet membranes with chemical backwashing. Desalination, 2012, 306, 35-40.	8.2	32
116	Effect on backwash cleaning efficiency with TDS concentrations of circulated water and backwashing water in SWRO membrane. Desalination and Water Treatment, 2012, 43, 124-130.	1.0	11
117	Enhancing the Production of Rhodobacter sphaeroides-Derived Physiologically Active Substances Using Carbonic Anhydrase-Immobilized Electrospun Nanofibers. Biomacromolecules, 2012, 13, 3780-3786.	5.4	28
118	Remediation potential of mulch for removing lead. Environmental Technology (United Kingdom), 2012, 33, 623-630.	2.2	0
119	Study on the initial velocity distribution of exhaled air from coughing and speaking. Chemosphere, 2012, 87, 1260-1264.	8.2	148
120	Effect of chemical cleaning on membrane biofouling in seawater reverse osmosis processes. Desalination and Water Treatment, 2011, 33, 289-294.	1.0	5
121	Potential integration of cadmium lab chip with immunoassay using quantum dot/antibody probe for detection of microcystin-LR. Desalination and Water Treatment, 2011, 33, 382-388.	1.0	3
122	Bead-Based Competitive Fluorescence Immunoassay for Sensitive and Rapid Diagnosis of Cyanotoxin Risk in Drinking Water. Environmental Science & Technology, 2011, 45, 7804-7811.	10.0	45
123	Mobilization and deposition of iron nano and sub-micrometer particles in porous media: A glass micromodel study. Journal of Hazardous Materials, 2011, 192, 1466-1475.	12.4	17
124	Reduction of highly concentrated nitrate using nanoscale zero-valent iron: Effects of aggregation and catalyst on reactivity. Applied Catalysis B: Environmental, 2011, 105, 128-135.	20.2	143
125	Evaluation of whole lysosomal enzymes directly immobilized on titanium (IV) oxide used in the development of antimicrobial agents. Enzyme and Microbial Technology, 2011, 49, 260-265.	3.2	21
126	A polymer lab chip sensor with microfabricated planar silver electrode for continuous and on-site heavy metal measurement. Sensors and Actuators B: Chemical, 2011, 155, 145-153.	7.8	59



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127	Kinetics determination of electrogenerated hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) using carbon fiber microelectrode in electroenzymatic degradation of phenolic compounds. Journal of Hazardous Materials, 2010, 175, 253-257.	12.4	20
128	Potentiometric and voltammetric polymer lab chip sensors for determination of nitrate, pH and Cd(II) in water. Talanta, 2010, 83, 1-8.	5.5	48
129	An On-Site Heavy Metal Analyzer With Polymer Lab-on-a-Chips for Continuous Sampling and Monitoring. IEEE Sensors Journal, 2009, 9, 586-594.	4.7	39
130	Environmentally friendly disposable sensors with microfabricated on-chip planar bismuth electrode for in situ heavy metal ions measurement. Sensors and Actuators B: Chemical, 2008, 134, 18-24.	7.8	184
131	Organic mulch biowall for PAH contaminated groundwater remediation. European Journal of Soil Biology, 2007, 43, 304-309.	3.2	8
132	A disposable on-chip phosphate sensor with planar cobalt microelectrodes on polymer substrate. Biosensors and Bioelectronics, 2007, 22, 1902-1907.	10.1	84
133	An Integrated Amperometric Sensor for in situ Environmental Monitoring. , 2006, , .		1
134	Fabrication of microelectrode arrays for in situ sensing of oxidation reduction potentials. Sensors and Actuators B: Chemical, 2006, 115, 220-226.	7.8	30
135	Measurement of chlorine dioxide penetration in dairy process pipe biofilms during disinfection. Applied Microbiology and Biotechnology, 2006, 72, 368-376.	3.6	58
136	Measurement of growth rate of ammonia oxidizing bacteria in partially submerged rotating biological contactor by fluorescent in situ hybridization (FISH). Journal of Environmental Engineering and Science, 2005, 4, 413-420.	0.8	20
137	A MEMS based microelectrode sensor with integrated signal processing circuitry. , 2005, , .		0
138	Miniaturized Redox Potential Probe for In Situ Environmental Monitoring. Environmental Science & Technology, 2005, 39, 6191-6197.	10.0	33
139	Effect of High Oxygen Concentrations on Nitrification and Performance of High-Purity Oxygen A/O Biofilm Process. Environmental Engineering Science, 2004, 21, 273-281.	1.6	7
140	Denitrification of Drinking Water Using Biofilms Formed by <i>Paracoccus denitrificans</i> and Microbial Adhesion. Environmental Engineering Science, 2004, 21, 283-290.	1.6	12
141	Monitoring the impact of dissolved oxygen and nitrite on anoxic biofilm in continuous denitrification process. Environmental Monitoring and Assessment, 2003, 87, 133-144.	2.7	7
142	Characterization and evaluation of aerobic granules in sequencing batch reactor. Journal of Biotechnology, 2003, 105, 71-82.	3.8	103
143	Activity monitoring for nitrifying bacteria by fluorescence in situ hybridization and respirometry. Environmental Monitoring and Assessment, 2001, 70, 223-231.	2.7	10
144	Effect of heavy metals (Cu, Pb, and Ni) on the compositions of EPS in biofilms. Water Science and Technology, 2001, 43, 41-8.	2.5	12

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145	Solidification and stabilization of Pb, Zn, Cd and Cu in tailing wastes using cement and fly ash. Minerals Engineering, 2000, 13, 1659-1662.	4.3	41
146	Batch and column tests for the development of an immobilization technology for toxic heavy metals in contaminated soils of closed mines. Water Science and Technology, 1998, 37, 81-88.	2.5	44
147	An Integrated Amperometric Sensor for in situ Environmental Monitoring. , O, , .		1
148	Evaluation of EDTA salts for potential application to draw solute of a forward osmosis process. , O, 77, 129-134.		3