Asher Brenner

List of Publications by Year
in descending order

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82 papers	2,178 citations	201385 27 h-index	233125 45 g-index
85 all docs	85 docs citations	85 times ranked	3181 citing authors

#	Article	IF	Citations
1	Spatioâ€temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring. Addiction, 2020, 115, 109-120.	1.7	154
2	Environmental Impact of Flame Retardants (Persistence and Biodegradability). International Journal of Environmental Research and Public Health, 2009, 6, 478-491.	1.2	145
3	The use of RO to remove emerging micropollutants following CAS/UF or MBR treatment of municipal wastewater. Desalination, 2011, 273, 142-147.	4.0	139
4	Bacteriophage predation regulates microbial abundance and diversity in a full-scale bioreactor treating industrial wastewater. ISME Journal, 2010, 4, 327-336.	4.4	138
5	Quantification of Sulfate-reducing Bacteria in Industrial Wastewater, by Real-time Polymerase Chain Reaction (PCR) Using dsrA and apsA Genes. Microbial Ecology, 2007, 54, 439-451.	1.4	104
6	Fate of antibiotics in activated sludge followed by ultrafiltration (CAS-UF) and in a membrane bioreactor (MBR). Water Research, 2011, 45, 4827-4836.	5.3	96
7	Yield stress and rheological characteristics of activated sludge in an airlift membrane bioreactor. Journal of Membrane Science, 2009, 334, 83-90.	4.1	74
8	Removal of viruses from surface water and secondary effluents by sand filtration. Water Research, 2009, 43, 87-96.	5.3	72
9	Biosorption potential of cerium ions using Spirulina biomass. Journal of Rare Earths, 2016, 34, 644-652.	2.5	67
10	Post-treatment of UASB reactor effluent in an integrated duckweed and stabilization pond system. Water Research, 1999, 33, 615-620.	5.3	60
11	Low-temperature combustion of 2,4,6-trichlorophenol in catalytic wet oxidation with nanocasted Mnâ€“Ce-oxide catalyst. Journal of Catalysis, 2007, 247, 201-213.	3.1	51
12	Catalytic Wet Oxidation of Phenol with Mnâ^'Ce-Based Oxide Catalysts:Â Impact of Reactive Adsorption on TOC Removal. Industrial & Engineering Chemistry Research, 2004, 43, 5089-5097.	1.8	46
13	Denitrification of groundwater: pilot-plant testing of cotton-packed bioreactor and post-microfiltration. Water Science and Technology, 2000, 42, 353-359.	1.2	44
14	Biological Treatment of a High Salinity Chemical Industrial Wastewater. Water Science and Technology, 1993, 27, 105-112.	1.2	42
15	An integrated duckweed and algae pond system for nitrogen removal and renovation. Water Science and Technology, 1998, 38, 335.	1.2	42
16	Catalytic Wet Air Oxidation of Aniline with Nanocasted Mnâ^'Ce-Oxide Catalyst. Environmental Science & Technology, 2008, 42, 5165-5170.	4.6	39
17	New and conventional pore size tests in virus-removing membranes. Water Research, 2012, 46, 2505-2514.	5.3	39
18	Treatment of high-strength dairy wastewater in an anaerobic deep reservoir: Analysis of the methanogenic fermentation pathway and the rate-limiting step. Water Research, 2006, 40, 3653-3659.	5.3	37

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19	Analyzing alternative bio-waste feedstocks for potential biodiesel production using time domain (TD)-NMR. Waste Management, 2010, 30, 1881-1888.	3.7	37
20	Comparison of two treatments for the removal of selected organic micropollutants and bulk organic matter: conventional activated sludge followed by ultrafiltration versus membrane bioreactor. Water Science and Technology, 2011, 63, 733-740.	1.2	37
21	Treatment of a high-strength, mixed phenolic waste in an SBR. Water Environment Research, 1992, 64, 128-133.	1.3	36
22	Role of membrane pore size in tertiary flocculation/adsorption/ultrafiltration treatment of municipal wastewater. Separation and Purification Technology, 2008, 61, 193-203.	3.9	36
23	Biodegradability of tetrabromobisphenol A and tribromophenol by activated sludge. Ecotoxicology, 2006, 15, 399-402.	1.1	33
24	Performance of different configurations of hybrid growth membrane bioreactor (HG-MBR) for treatment of mixed wastewater. Desalination, 2012, 284, 261-268.	4.0	33
25	An integrated duckweed and algae pond system for nitrogen removal and renovation. Water Science and Technology, 1998, 38, 335-343.	1.2	31
26	Soil nitrifying enrichments as biofilter starters in intensive recirculating saline water aquaculture. Aquaculture, 2003, 223, 51-62.	1.7	31
27	A novel approach to denitrification processes in a zero-discharge recirculating system for small-scale urban aquaculture. Aquacultural Engineering, 2008, 39, 72-77.	1.4	31
28	Challenges to estimate surface- and groundwater flow in arid regions: The Dead Sea catchment. Science of the Total Environment, 2014, 485-486, 828-841.	3.9	28
29	City-level SARS-CoV-2 sewage surveillance. Chemosphere, 2021, 283, 131194.	4.2	28
30	Applications of mathematical software packages for modelling and simulations in environmental engineering education. Environmental Modelling and Software, 2005, 20, 1307-1313.	1.9	26
31	Use of Hexahydro-1,3,5-trinitro-1,3,5-triazine as a Nitrogen Source in Biological Treatment of Munitions Wastes. Water Environment Research, 2000, 72, 469-475.	1.3	23
32	Changes in microbial diversity in industrial wastewater evaporation ponds following artificial salination. FEMS Microbiology Ecology, 2008, 66, 437-446.	1.3	22
33	Enriching composite hydrophilic polyurethane foams with PAC to enhance adsorption of phenol from aqueous solutions. Chemical Engineering Journal, 2015, 280, 283-292.	6.6	20
34	Effect of feed composition, aerobic volume fraction and recycle rate on nitrogen removal in the single-sludge system. Water Research, 1990, 24, 1041-1049.	5.3	19
35	Effect of inorganic constituents on chemical oxygen demandâ€"I. Bromides are unneutralizable by mercuric sulfate complexation. Water Research, 1992, 26, 1577-1581.	5.3	19
36	Effect of inorganic constituents on chemical oxygen demandâ€"II. Organic carbon to halogen ratios determine halogen interference. Water Research, 1992, 26, 1583-1588.	5.3	19

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37	Biodegradation of RDX-contaminated wastes in a nitrogen-deficient environment. Water Science and Technology, 1998, 38, 219.	1.2	19
38	Use of Cotton as a Carbon Source for Denitrification in Biofilters for Groundwater Remediation. Water (Switzerland), 2017, 9, 714.	1.2	17
39	Use of MBR to sustain active biomass for treatment of low organic load grey water. Clean Technologies and Environmental Policy, 2016, 18, 1219-1224.	2.1	16
40	Aerobic biodegradation of the brominated flame retardants, dibromoneopentyl glycol and tribromoneopentyl alcohol. Biodegradation, 2009, 20, 621-627.	1.5	15
41	Optimization of ultrafiltration as pre-treatment for seawater RO desalination. Desalination, 2022, 524, 115478.	4.0	15
42	Application of immobilized and granular dried anaerobic biomass for stabilizing and increasing anaerobic bio-systems tolerance for high organic loads and phenol shocks. Bioresource Technology, 2015, 197, 106-112.	4.8	13
43	Prevention and control of struvite and calcium phosphate precipitation by chelating agents. Desalination and Water Treatment, 2015, 55, 61-69.	1.0	12
44	Long-term surveillance of sulfate-reducing bacteria in highly saline industrial wastewater evaporation ponds. Saline Systems, 2009, 5, 2.	2.0	11
45	Masking turbid water in the southeastern Mediterranean Sea utilizing the SeaWiFS 510â€‰nm spectral band. International Journal of Remote Sensing, 2004, 25, 4051-4059.	1.3	10
46	Temporal distribution of microbial community in an industrial wastewater treatment system following crash and during recovery periods. Chemosphere, 2020, 258, 127271.	4.2	10
47	Genome Analysis of a Novel Broad Host Range Proteobacteria Phage Isolated from a Bioreactor Treating Industrial Wastewater. Genes, 2017, 8, 40.	1.0	9
48	Evaluation of activated carbon adsorption capacity by a toxicity bioassay. Water Research, 1993, 27, 1577-1583.	5.3	8
49	Deep-bed filtration of SBR effluent for agricultural reuse: pilot plant screening of advanced secondary and tertiary treatment for domestic wastewater. Water Science and Technology, 1994, 30, 219-227.	1.2	8
50	Utilization of collinearity in regression modeling of activated sludge processes. Chemical Engineering and Processing: Process Intensification, 2007, 46, 222-229.	1.8	8
51	Boron removal from seawater by electro-chemical treatment as part of water desalination. Desalination and Water Treatment, 2011, 31, 102-106.	1.0	8
52	Fast Assessment of Toxicants Adsorption on Activated Carbon Using a Luminous Bacteria Bioassay. Water Science and Technology, 1993, 27, 113-120.	1.2	8
53	Pilot plant performance and model calibration of a sequencing batch air-lift reactor. Water Science and Technology, 1997, 35, 121.	1.2	7
54	The effect of anaerobic biomass drying and exposure to air on their recovery and evolution. Water Research, 2014, 63, 42-51.	5.3	7

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55	Use of computers for process design analysis and control: Sequencing batch reactor application. Water Science and Technology, 1997, 35, 95.	1.2	6
56	Pilot study of SBR biological treatment and microfiltration for reclamation and reuse of municipal wastewater. Water Science and Technology, 2000, 42, 263-268.	1.2	6
57	The effect of aeration and effluent recycling on domestic wastewater treatment in a pilot-plant system of duckweed ponds. Water Science and Technology, 2014, 69, 350-357.	1.2	6
58	Development of an oscillation-based technology for the removal of colloidal particles from water: CFD modeling and experiments. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 622-641.	1.5	6
59	Treatability studies for on-site biological remediation of soils and leachates contaminated by coal conversion residuals and by-products. Journal of Hazardous Materials, 1989, 22, 377-391.	6.5	5
60	Model Study of Jetâ€Circulated Grit Chamber. Journal of Environmental Engineering, ASCE, 1991, 117, 782-787.	0.7	5
61	Model calibration of deep-bed filtration based on pilot-scale treatment of secondary effluent. Water Science and Technology, 1997, 36, 231.	1.2	5
62	Limitations and Challenges of Wastewater Reuse in Israel. NATO Science for Peace and Security Series C: Environmental Security, 2012, , 3-9.	0.1	5
63	Control of sludge settling characteristics in the single-sludge system, a hypothesis. Water Research, 1990, 24, 1051-1054.	5.3	4
64	A long-term application of a pilot airlift membrane bioreactor for domestic wastewater treatment. Desalination and Water Treatment, 2009, 4, 212-217.	1.0	4
65	Application of a unique miniature MBR for screening the biodegradation of brominated flame retardants. Desalination and Water Treatment, 2013, 51, 5909-5917.	1.0	4
66	Separation of colloidal minerals from water by oscillating flows and grouping. Separation and Purification Technology, 2019, 210, 981-987.	3.9	4
67	Utilization of a bioluminescence toxicity assay for optimal design of biological and physicochemical wastewater treatment processes. Environmental Toxicology and Water Quality, 1994, 9, 311-316.	0.7	3
68	Selection of a Multi-Stage System for Biosolids Management Applying Genetic Algorithm. Environmental Science & Technology, 2010, 44, 5503-5508.	4.6	3
69	Impact of Biocides on Hydrogen Sulfide Production and Growth of Desulfovibrio vulgaris. Clean - Soil, Air, Water, 2016, 44, 1423-1427.	0.7	2
70	Use of an integrated biophysical process for the treatment of halo- and nitro- organic wastes. AIMS Environmental Science, 2017, 4, 523-539.	0.7	2
71	Removal of Nitrogen and Phosphorus Compounds in Biological Treatment of Municipal Wastewater in Israel. Israel Journal of Chemistry, 2006, 46, 45-51.	1.0	1
72	Enhanced nitrification in industrial wastewater after augmentation by soil nitrifying enrichments. International Journal of Environmental Technology and Management, 2006, 6, 489.	0.1	1

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73	Sanitary Engineering: Central or Decentral Solutions?. , 2016, , 139-164.		1
74	Modelling Phageâ˜'Bacteria Interaction in Microâ€Bioreactors. Clean - Soil, Air, Water, 2017, 45, 1600702.	0.7	1
75	Technical and Mineral Level Effects of Water Treatment. , 2015, , 103-117.		1
76	Technical and Mineral Level Effects of Water Treatment, Corrosion Control. , 2019, , 127-148.		1
77	Closure to â€œe Model Study of Jetâ€Circulated Grit Chamber â€•by Asher Brenner and Mordechai H. Diskin (November/December, 1991, Vol. 117, No. 6). Journal of Environmental Engineering, ASCE, 1992, 118, 1010-1011.	0.7	0
78	Analysis of membrane bioreactor performance for wastewater treatment using ranking methods. Toxicological and Environmental Chemistry, 2016, , 1-18.	0.6	0
79	Modification of Small Activated Sludge Plants to Recycled Systems for Nitrogen Removal and Control of Settling Properties. Water Science and Technology, 1990, 22, 117-122.	1.2	0
80	Treatment of High-Strength, Complex and Toxic Chemical Wastewater: End-of Pipe â€œBest Available Technologyâ€•vs. an In-Plant Control Program. Water Science and Technology, 1994, 29, 221-233.	1.2	0
81	INCORPORATION OF HYBRID BIOFILTERS IN WATER-SENSITIVE URBAN DESIGN. Present Environment and Sustainable Development, 2019, 13, 167-177.	0.1	0
82	Effect of container geometry on colloids removal from water in oscillation-based flocculation. Water Science and Technology: Water Supply, 2020, 20, 328-334.	1.0	0