

Gideon Oron

List of Publications by Year in descending order

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98
papers

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201674

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2514
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of dual systems of greywater reuse in high-rise buildings for energy recovery and potential use in irrigation. <i>Resources, Conservation and Recycling</i> , 2022, 180, 106134.	10.8	7
2	Biofilm Formation and Biofouling Development on Different Ultrafiltration Membranes by Natural Anaerobes from an Anaerobic Membrane Bioreactor. <i>Environmental Science & Technology</i> , 2022, 56, 10339-10348.	10.0	18
3	Initial Deposition and Pioneering Colonization on Polymeric Membranes of Anaerobes Isolated from an Anaerobic Membrane Bioreactor (AnMBR). <i>Environmental Science & Technology</i> , 2020, 54, 5832-5842.	10.0	25
4	Effect of ultrafiltration membrane material on fouling dynamics in a submerged anaerobic membrane bioreactor treating domestic wastewater. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1145-1156.	2.4	22
5	Optimal managing the coastal aquifer for seawater desalination and meeting nitrates level of drinking water. <i>Desalination</i> , 2018, 436, 63-68.	8.2	8
6	Toxicity Effects of Selected Heavy Metals on <i>Lactuca sativa</i> and <i>Hydra viridissima</i> used for Sustainable Crop Production. <i>Environmental Management and Sustainable Development</i> , 2018, 7, 82.	0.2	1
7	Nanotechnology for sustainable wastewater treatment and use for agricultural production: A comparative long-term study. <i>Water Research</i> , 2017, 110, 66-73.	11.3	29
8	Surrogating membrane resistance variables for assessing reverse osmosis fouling during wastewater upgrading for unrestricted use. <i>Journal of Membrane Science</i> , 2016, 520, 990-997.	8.2	5
9	Use of MBR to sustain active biomass for treatment of low organic load grey water. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1219-1224.	4.1	16
10	Ancient water supply systems in Israel. <i>International Journal of Global Environmental Issues</i> , 2015, 14, 216.	0.1	0
11	Water Allocation Between the Agricultural and the Municipal Sectors Under Scarcity: A Financial Approach Analysis. <i>Water Resources Management</i> , 2015, 29, 3481-3501.	3.9	6
12	Current status in wastewater treatment, reuse and research in some mediterranean countries. <i>Desalination and Water Treatment</i> , 2015, 53, 2015-2030.	1.0	60
13	The effect of aeration and effluent recycling on domestic wastewater treatment in a pilot-plant system of duckweed ponds. <i>Water Science and Technology</i> , 2014, 69, 350-357.	2.5	6
14	Greywater use in Israel and worldwide: Standards and prospects. <i>Water Research</i> , 2014, 58, 92-101.	11.3	106
15	Optimizing desalinated sea water blending with other sources to meet magnesium requirements for potable and irrigation waters. <i>Water Research</i> , 2013, 47, 2164-2176.	11.3	50
16	Boron removal from seawater reverse osmosis permeate: A Hasse diagram analysis of current technologies. <i>Desalination</i> , 2013, 310, 34-38.	8.2	6
17	Forecasting Urban Water Demand Via Wavelet-Denoising and Neural Network Models. Case Study: City of Syracuse, Italy. <i>Water Resources Management</i> , 2012, 26, 3539-3558.	3.9	87
18	Economic Assessment of an Integrated Membrane System for Secondary Effluent Polishing for Unrestricted Reuse. <i>Water (Switzerland)</i> , 2012, 4, 219-236.	2.7	31

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19	Performance of different configurations of hybrid growth membrane bioreactor (HG-MBR) for treatment of mixed wastewater. <i>Desalination</i> , 2012, 284, 261-268.	8.2	33
20	Relation between EPS adherence, viscoelastic properties, and MBR operation: Biofouling study with QCM-D. <i>Water Research</i> , 2011, 45, 6430-6440.	11.3	120
21	Surface Properties and Reduced Biofouling of Graft-Copolymers That Possess Oppositely Charged Groups. <i>Biomacromolecules</i> , 2011, 12, 1169-1177.	5.4	70
22	pH effects on the adherence and fouling propensity of extracellular polymeric substances in a membrane bioreactor. <i>Journal of Membrane Science</i> , 2011, 378, 186-193.	8.2	59
23	The use of computer aided techniques for reverse osmosis desalination layout design. <i>Desalination and Water Treatment</i> , 2011, 31, 305-310.	1.0	1
24	Sustainable domestic effluent reuse via subsurface drip irrigation (SDI): alfalfa as a perennial model crop. <i>Water Science and Technology</i> , 2010, 61, 625-632.	2.5	9
25	Minimizing health risks during secondary effluent application via subsurface drip irrigation. <i>Water Science and Technology</i> , 2010, 62, 2330-2337.	2.5	8
26	Extracellular Polymeric Substances (EPS) in a Hybrid Growth Membrane Bioreactor (HG-MBR): Viscoelastic and Adherence Characteristics. <i>Environmental Science & Technology</i> , 2010, 44, 8636-8643.	10.0	104
27	Selection of a Multi-Stage System for Biosolids Management Applying Genetic Algorithm. <i>Environmental Science & Technology</i> , 2010, 44, 5503-5508.	10.0	3
28	Hybrid growth membrane bioreactor (HG-MBR): The indirect impact of sludge retention time on membrane fouling. <i>Desalination and Water Treatment</i> , 2009, 10, 27-32.	1.0	8
29	Yield stress and rheological characteristics of activated sludge in an airlift membrane bioreactor. <i>Journal of Membrane Science</i> , 2009, 334, 83-90.	8.2	74
30	Immersed Membrane BioReactor (IMBR) for treatment of combined domestic and dairy wastewater in an isolated farm: An exploratory case study implementing the Facet Analysis (FA). <i>Desalination</i> , 2009, 249, 1217-1222.	8.2	16
31	Removal of viruses from surface water and secondary effluents by sand filtration. <i>Water Research</i> , 2009, 43, 87-96.	11.3	72
32	A long-term application of a pilot airlift membrane bioreactor for domestic wastewater treatment. <i>Desalination and Water Treatment</i> , 2009, 4, 212-217.	1.0	4
33	Influence of biofouling on boron removal by nanofiltration and reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2008, 318, 264-270.	8.2	77
34	Membrane technology for advanced wastewater reclamation for sustainable agriculture production. <i>Desalination</i> , 2008, 218, 170-180.	8.2	53
35	Lumped model for regional groundwater flow analysis. <i>Journal of Hydrology</i> , 2008, 359, 131-140.	5.4	8
36	Membrane technology for sustainable treated wastewater reuse: agricultural, environmental and hydrological considerations. <i>Water Science and Technology</i> , 2008, 57, 1383-1388.	2.5	21

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37	Boron removal by the duckweed <i>Lemna gibba</i> : A potential method for the remediation of boron-polluted waters. <i>Water Research</i> , 2007, 41, 4579-4584.	11.3	89
38	Data envelopment analysis for assessing optimal operation of an immersed membrane bioreactor equipped with a draft tube for domestic wastewater reclamation. <i>Desalination</i> , 2007, 204, 17-23.	8.2	8
39	Advanced low quality waters treatment for unrestricted use purposes: imminent challenges. <i>Desalination</i> , 2007, 213, 189-198.	8.2	24
40	Secondary Wastewater Polishing with Ultrafiltration Membranes for Unrestricted Reuse: Fouling and Flushing Modeling. <i>Environmental Science & Technology</i> , 2006, 40, 6830-6836.	10.0	13
41	A two stage membrane treatment of secondary effluent for unrestricted reuse and sustainable agricultural production. <i>Desalination</i> , 2006, 187, 335-345.	8.2	27
42	Post-treatment design of seawater reverse osmosis plants: boron removal technology selection for potable water production and environmental control. <i>Desalination</i> , 2005, 178, 233-246.	8.2	55
43	Assessing the linkage between feed water quality and reverse osmosis membrane performance. <i>Desalination</i> , 2001, 137, 141-148.	8.2	14
44	Desalination technology for optimal renovation of saline groundwater in a natural reservoir. <i>Desalination</i> , 2000, 131, 97-104.	8.2	13
45	Risk assessment of consuming agricultural products irrigated with reclaimed wastewater: An exposure model. <i>Water Resources Research</i> , 2000, 36, 2691-2699.	4.2	37
46	Wastewater treatment, renovation and reuse for agricultural irrigation in small communities. <i>Agricultural Water Management</i> , 1999, 38, 223-234.	5.6	90
47	Improved saline-water use under subsurface drip irrigation. <i>Agricultural Water Management</i> , 1999, 39, 19-33.	5.6	46
48	Post-treatment of UASB reactor effluent in an integrated duckweed and stabilization pond system. <i>Water Research</i> , 1999, 33, 615-620.	11.3	60
49	An integrated duckweed and algae pond system for nitrogen removal and renovation. <i>Water Science and Technology</i> , 1998, 38, 335-343.	2.5	31
50	Optimal Operation of Regional System with Diverse Water Quality Sources. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1997, 123, 105-115.	2.6	32
51	Real-time quality monitoring by remote sensing of contaminated water-bodies: Waste stabilization pond effluent. <i>Water Research</i> , 1996, 30, 3106-3114.	11.3	18
52	Soil as a complementary treatment component for simultaneous wastewater disposal and reuse. <i>Water Science and Technology</i> , 1996, 34, 243-252.	2.5	3
53	Management modeling of integrative wastewater treatment and reuse systems. <i>Water Science and Technology</i> , 1996, 33, 95-105.	2.5	13
54	An integrated model for the development of marginal water sources in the Negev Desert. <i>European Journal of Operational Research</i> , 1995, 81, 35-49.	5.7	5

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55	Poliovirus distribution in the soil-plant system under reuse of secondary wastewater. <i>Water Research</i> , 1995, 29, 1069-1078.	11.3	71
56	Duckweed culture for wastewater renovation and biomass production. <i>Agricultural Water Management</i> , 1994, 26, 27-40.	5.6	87
57	Economic Development of Groundwater in Arid Zones with Applications to the Negev Desert, Israel. <i>Management Science</i> , 1994, 40, 353-363.	4.1	10
58	A model for the development of marginal water sources in arid zones: The case of the Negev Desert, Israel. <i>Water Resources Research</i> , 1993, 29, 3059-3067.	4.2	3
59	Recycling Drainage Water in San Joaquin Valley, California. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1993, 119, 265-285.	1.0	8
60	Optimal operation of a multisource and multiquality regional water system. <i>Water Resources Research</i> , 1992, 28, 1199-1206.	4.2	26
61	Trends in trickle irrigation systems development. <i>International Journal of Water Resources Development</i> , 1991, 7, 92-96.	2.0	0
62	Forecasting in Optimizing Dual System for Energy Generation and Irrigation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1991, 117, 287-300.	2.6	7
63	Subsurface Microirrigation with Effluent. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1991, 117, 25-36.	1.0	49
64	The Hazbani-Dan water system. <i>European Journal of Operational Research</i> , 1990, 44, 307-318.	5.7	0
65	Effect of Dikes and Sulfuric Acid on Cotton Under Effluent Irrigation. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1989, 115, 463-473.	1.0	0
66	Micro-computer for on-line control and operation of closed-conduit irrigation systems: An economical assessment. <i>Agricultural Water Management</i> , 1989, 16, 137-154.	5.6	0
67	Reply [to "Comment on "Stochastic considerations in optimal design of a microcatchment layout of runoff water harvesting" by Gideon Oron and Gerda Enthoven]. <i>Water Resources Research</i> , 1989, 25, 335-335.	4.2	0
68	OPTIMIZING THE RETURN FROM A JOJOBA PLANTATION UNDER SCARCE DATA CONDITIONS. <i>Journal of the American Water Resources Association</i> , 1988, 24, 879-886.	2.4	1
69	A Nonlinear Optimization Model of Water Allocation for Hydroelectric Energy Production and Irrigation. <i>Management Science</i> , 1988, 34, 973-990.	4.1	12
70	Closure to "Wastewater Treatment and Renovation by Different Duckweed Species" by Gideon Oron, Dan Porath, and Louw R. Wildschut (April, 1986, Vol. 112, No. 2). <i>Journal of Environmental Engineering, ASCE</i> , 1987, 113, 933-934.	1.4	0
71	Stochastic considerations in optimal design of a microcatchment layout of runoff water harvesting. <i>Water Resources Research</i> , 1987, 23, 1131-1138.	4.2	8
72	Marginal-water application in arid zones. <i>Geo Journal</i> , 1987, 15, 259-266.	3.1	1

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73	Response of cotton to treated domestic wastewater applied through trickle irrigation. Irrigation Science, 1987, 8, 291.	2.8	8
74	Performance of the duckweed species <i>Lemna gibba</i> on municipal wastewater for effluent renovation and protein production. Biotechnology and Bioengineering, 1987, 29, 258-268.	3.3	48
75	REUSE OF DOMESTIC WASTEWATER FOR IRRIGATION IN ARID ZONES: A CASE STUDY. Journal of the American Water Resources Association, 1987, 23, 777-783.	2.4	16
76	TRICKLE IRRIGATION OF WHEAT APPLYING RENOVATED WASTEWATER. Journal of the American Water Resources Association, 1986, 22, 439-446.	2.4	7
77	Waste Water Recycling by Duckweed for Protein Production and Effluent Renovation. Water Science and Technology, 1985, 17, 803-817.	2.5	47
78	Yield of single versus twin-row trickle irrigated cotton. Agricultural Water Management, 1984, 9, 237-244.	5.6	4
79	Intensified controlled fish growth in tanks implementing a multipurpose flow device. Biotechnology and Bioengineering, 1983, 25, 351-361.	3.3	6
80	Traveling Velocity of Movable Frontal Lateral. Journal of Irrigation and Drainage Engineering - ASCE, 1983, 109, 270-273.	1.0	0
81	Economic evaluation of water harvesting in microcatchments. Water Resources Research, 1983, 19, 1099-1105.	4.2	12
82	Technical and economic considerations in the design of closed conduit irrigation systems: A case study. Agricultural Water Management, 1982, 5, 15-27.	5.6	3
83	Design procedure of sprinkling laterals: The mathematical background of a computerized aid. Agricultural Water Management, 1982, 5, 375-376.	5.6	1
84	Management of on-farm agricultural wastes for energy and food recovery. European Journal of Operational Research, 1982, 11, 118-132.	5.7	4
85	Effluent in Trickle Irrigation of Cotton in Arid Zones. Journal of the Irrigation and Drainage Division, ASCE, 105 (IR4), Proc Paper, 1982, 108, 115-126.	0.3	12
86	Maximizing Algal Yield in High-Rate Oxidation Ponds. American Society of Civil Engineers, Journal of the Environmental Engineering Division, 1982, 108, 730-738.	0.3	6
87	Optimal design and operation of permanent irrigation systems. Water Resources Research, 1981, 17, 11-17.	4.2	10
88	Simulation of water flow in the soil under sub-surface trickle irrigation with water uptake by roots. Agricultural Water Management, 1981, 3, 179-193.	5.6	18
89	Environmental phenotypic variation of <i>Scenedesmus dimorphus</i> in high-rate algae ponds and its relationship to wastewater treatment and biomass production. Biotechnology and Bioengineering, 1981, 23, 2185-2198.	3.3	13
90	SOLID SET IRRIGATION SYSTEM DESIGN USING LINEAR PROGRAMMING. Journal of the American Water Resources Association, 1981, 17, 565-570.	2.4	3

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91	"Procedure for the Economic Evaluation of Water Networks 'Parameters'. Journal of the American Water Resources Association, 1980, 16, 756-757.	2.4	0
92	Stormwater and Reclaimed Effluent in Trickle Irrigation. Journal of the Irrigation and Drainage Division, ASCE, 105 (IR4), Proc Paper, 1980, 106, 299-310.	0.3	11
93	AN ALGORITHM FOR OPTIMIZING NONLINEAR CONSTRAINED ZERO-ONE PROBLEMS TO IMPROVE WASTEWATER TREATMENT. Engineering Optimization, 1979, 4, 109-115.	2.6	7
94	Growth of <i>Spirulina maxima</i> on cow-manure wastes. Biotechnology and Bioengineering, 1979, 21, 2169-2173.	3.3	15
95	PROCEDURE FOR THE ECONOMICAL EVALUATION OF WATER NETWORKS' PARAMETERS. Journal of the American Water Resources Association, 1979, 15, 1050-1060.	2.4	7
96	Trickle Irrigation Using Treated Wastewaters. Journal of the Irrigation and Drainage Division, ASCE, 105 (IR4), Proc Paper, 1979, 105, 175-186.	0.3	26
97	Algae/Bacteria Ratio in High-Rate Ponds Used for Waste Treatment. Applied and Environmental Microbiology, 1979, 38, 570-576.	3.1	26
98	Analysis of Closed Conduit Irrigation System and Its Subdivision. Journal of the Irrigation and Drainage Division, ASCE, 105 (IR4), Proc Paper, 1979, 105, 187-196.	0.3	4