

Gideon Oron

List of Publications by Year in descending order

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98
papers

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citations

201674

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times ranked

2514
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#	ARTICLE	IF	CITATIONS
1	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
2	Greywater use in Israel and worldwide: Standards and prospects. <i>Water Research</i> , 2014, 48, 92-101.	11.3	106
3	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
4	Wastewater treatment, renovation and reuse for agricultural irrigation in small communities. <i>Agricultural Water Management</i> , 1999, 38, 223-234.	5.6	90
5	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
6	Duckweed culture for wastewater renovation and biomass production. <i>Agricultural Water Management</i> , 1994, 26, 27-40.	5.6	87
7	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
8	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
9	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
10	Removal of viruses from surface water and secondary effluents by sand filtration. <i>Water Research</i> , 2009, 43, 87-96.	11.3	72
11	Poliovirus distribution in the soil-plant system under reuse of secondary wastewater. <i>Water Research</i> , 1995, 29, 1069-1078.	11.3	71
12	Surface Properties and Reduced Biofouling of Graft-Copolymers That Possess Oppositely Charged Groups. <i>Biomacromolecules</i> , 2011, 12, 1169-1177.	5.4	70
13	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
14	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
15	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
16	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
17	Membrane technology for advanced wastewater reclamation for sustainable agriculture production. <i>Desalination</i> , 2008, 218, 170-180.	8.2	53
18	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

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19	Subsurface Microirrigation with Effluent. Journal of Irrigation and Drainage Engineering - ASCE, 1991, 117, 25-36.	1.0	49
20	Performance of the duckweed species Lemna gibba on municipal wastewater for effluent renovation and protein production. Biotechnology and Bioengineering, 1987, 29, 258-268.	3.3	48
21	Waste Water Recycling by Duckweed for Protein Production and Effluent Renovation. Water Science and Technology, 1985, 17, 803-817.	2.5	47
22	Improved saline-water use under subsurface drip irrigation. Agricultural Water Management, 1999, 39, 19-33.	5.6	46
23	Risk assessment of consuming agricultural products irrigated with reclaimed wastewater: An exposure model. Water Resources Research, 2000, 36, 2691-2699.	4.2	37
24	Performance of different configurations of hybrid growth membrane bioreactor (HG-MBR) for treatment of mixed wastewater. Desalination, 2012, 284, 261-268.	8.2	33
25	Optimal Operation of Regional System with Diverse Water Quality Sources. Journal of Water Resources Planning and Management - ASCE, 1997, 123, 105-115.	2.6	32
26	An integrated duckweed and algae pond system for nitrogen removal and renovation. Water Science and Technology, 1998, 38, 335-343.	2.5	31
27	Economic Assessment of an Integrated Membrane System for Secondary Effluent Polishing for Unrestricted Reuse. Water (Switzerland), 2012, 4, 219-236.	2.7	31
28	Nanotechnology for sustainable wastewater treatment and use for agricultural production: A comparative long-term study. Water Research, 2017, 110, 66-73.	11.3	29
29	A two stage membrane treatment of secondary effluent for unrestricted reuse and sustainable agricultural production. Desalination, 2006, 187, 335-345.	8.2	27
30	Optimal operation of a multisource and multiquality regional water system. Water Resources Research, 1992, 28, 1199-1206.	4.2	26
31	Trickle Irrigation Using Treated Wastewaters. Journal of the Irrigation and Drainage Division, ASCE, 105 (IR4), Proc Paper, 1979, 105, 175-186.	0.3	26
32	Algae/Bacteria Ratio in High-Rate Ponds Used for Waste Treatment. Applied and Environmental Microbiology, 1979, 38, 570-576.	3.1	26
33	Initial Deposition and Pioneering Colonization on Polymeric Membranes of Anaerobes Isolated from an Anaerobic Membrane Bioreactor (AnMBR). Environmental Science & Technology, 2020, 54, 5832-5842.	10.0	25
34	Advanced low quality waters treatment for unrestricted use purposes: imminent challenges. Desalination, 2007, 213, 189-198.	8.2	24
35	Effect of ultrafiltration membrane material on fouling dynamics in a submerged anaerobic membrane bioreactor treating domestic wastewater. Environmental Science: Water Research and Technology, 2019, 5, 1145-1156.	2.4	22
36	Membrane technology for sustainable treated wastewater reuse: agricultural, environmental and hydrological considerations. Water Science and Technology, 2008, 57, 1383-1388.	2.5	21

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37	Simulation of water flow in the soil under sub-surface trickle irrigation with water uptake by roots. <i>Agricultural Water Management</i> , 1981, 3, 179-193.	5.6	18
38	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
39	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
40	REUSE OF DOMESTIC WASTEWATER FOR IRRIGATION IN ARID ZONES: A CASE STUDY. <i>Journal of the American Water Resources Association</i> , 1987, 23, 777-783.	2.4	16
41	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
42	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
43	Growth of <i>Spirulina maxima</i> on cow-manure wastes. <i>Biotechnology and Bioengineering</i> , 1979, 21, 2169-2173.	3.3	15
44	Assessing the linkage between feed water quality and reverse osmosis membrane performance. <i>Desalination</i> , 2001, 137, 141-148.	8.2	14
45	Environmental phenotypic variation of <i>Scenedesmus dimorphus</i> in high-rate algae ponds and its relationship to wastewater treatment and biomass production. <i>Biotechnology and Bioengineering</i> , 1981, 23, 2185-2198.	3.3	13
46	Desalination technology for optimal renovation of saline groundwater in a natural reservoir. <i>Desalination</i> , 2000, 131, 97-104.	8.2	13
47	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
48	Management modeling of integrative wastewater treatment and reuse systems. <i>Water Science and Technology</i> , 1996, 33, 95-105.	2.5	13
49	Economic evaluation of water harvesting in microcatchments. <i>Water Resources Research</i> , 1983, 19, 1099-1105.	4.2	12
50	A Nonlinear Optimization Model of Water Allocation for Hydroelectric Energy Production and Irrigation. <i>Management Science</i> , 1988, 34, 973-990.	4.1	12
51	Effluent in Trickle Irrigation of Cotton in Arid Zones. <i>Journal of the Irrigation and Drainage Division, ASCE</i> , 105 (IR4), Proc Paper, 1982, 108, 115-126.	0.3	12
52	Stormwater and Reclaimed Effluent in Trickle Irrigation. <i>Journal of the Irrigation and Drainage Division, ASCE</i> , 105 (IR4), Proc Paper, 1980, 106, 299-310.	0.3	11
53	Optimal design and operation of permanent irrigation systems. <i>Water Resources Research</i> , 1981, 17, 11-17.	4.2	10
54	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

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55	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
56	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
57	Response of cotton to treated domestic wastewater applied through trickle irrigation. <i>Irrigation Science</i> , 1987, 8, 291.	2.8	8
58	Recycling Drainage Water in San Joaquin Valley, California. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1993, 119, 265-285.	1.0	8
59	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
60	Lumped model for regional groundwater flow analysis. <i>Journal of Hydrology</i> , 2008, 359, 131-140.	5.4	8
61	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
62	Minimizing health risks during secondary effluent application via subsurface drip irrigation. <i>Water Science and Technology</i> , 2010, 62, 2330-2337.	2.5	8
63	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
64	AN ALGORITHM FOR OPTIMIZING NONLINEAR CONSTRAINED ZERO-ONE PROBLEMS TO IMPROVE WASTEWATER TREATMENT. <i>Engineering Optimization</i> , 1979, 4, 109-115.	2.6	7
65	PROCEDURE FOR THE ECONOMICAL EVALUATION OF WATER NETWORKS' PARAMETERS. <i>Journal of the American Water Resources Association</i> , 1979, 15, 1050-1060.	2.4	7
66	TRICKLE IRRIGATION OF WHEAT APPLYING RENOVATED WASTEWATER. <i>Journal of the American Water Resources Association</i> , 1986, 22, 439-446.	2.4	7
67	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
68	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
69	Intensified controlled fish growth in tanks implementing a multipurpose flow device. <i>Biotechnology and Bioengineering</i> , 1983, 25, 351-361.	3.3	6
70	Boron removal from seawater reverse osmosis permeate: A Hasse diagram analysis of current technologies. <i>Desalination</i> , 2013, 310, 34-38.	8.2	6
71	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
72	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

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73	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
74	An integrated model for the development of marginal water sources in the Negev Desert. European Journal of Operational Research, 1995, 81, 35-49.	5.7	5
75	Surrogating membrane resistance variables for assessing reverse osmosis fouling during wastewater upgrading for unrestricted use. Journal of Membrane Science, 2016, 520, 990-997.	8.2	5
76	Management of on-farm agricultural wastes for energy and food recovery. European Journal of Operational Research, 1982, 11, 118-132.	5.7	4
77	Yield of single versus twin-row trickle irrigated cotton. Agricultural Water Management, 1984, 9, 237-244.	5.6	4
78	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
79	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
80	SOLID SET IRRIGATION SYSTEM DESIGN USING LINEAR PROGRAMMING. Journal of the American Water Resources Association, 1981, 17, 565-570.	2.4	3
81	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
82	A model for the development of marginal water sources in arid zones: The case of the Negev Desert, Israel. Water Resources Research, 1993, 29, 3059-3067.	4.2	3
83	Selection of a Multi-Stage System for Biosolids Management Applying Genetic Algorithm. Environmental Science & Technology, 2010, 44, 5503-5508.	10.0	3
84	Soil as a complementary treatment component for simultaneous wastewater disposal and reuse. Water Science and Technology, 1996, 34, 243-252.	2.5	3
85	Design procedure of sprinkling laterals: The mathematical background of a computerized aid. Agricultural Water Management, 1982, 5, 375-376.	5.6	1
86	Marginal-water application in arid zones. Geo Journal, 1987, 15, 259-266.	3.1	1
87	OPTIMIZING THE RETURN FROM A JOJOBA PLANTATION UNDER SCARCE DATA CONDITIONS. Journal of the American Water Resources Association, 1988, 24, 879-886.	2.4	1
88	The use of computer aided techniques for reverse osmosis desalination layout design. Desalination and Water Treatment, 2011, 31, 305-310.	1.0	1
89	Toxicity Effects of Selected Heavy Metals on Lactuca sativa and Hydra viridissima used for Sustainable Crop Production. Environmental Management and Sustainable Development, 2018, 7, 82.	0.2	1
90	"Procedure for the Economic Evaluation of Water Networks 'Parameters'. Journal of the American Water Resources Association, 1980, 16, 756-757.	2.4	0

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91	Traveling Velocity of Movable Frontal Lateral. Journal of Irrigation and Drainage Engineering - ASCE, 1983, 109, 270-273.	1.0	0
92	Closure to <i>Wastewater Treatment and Renovation by Different Duckweed Species</i> by Gideon Oron, Dan Porath, and Louw R. Wildschut (April, 1986, Vol. 112, No. 2). Journal of Environmental Engineering, ASCE, 1987, 113, 933-934.	1.4	0
93	Effect of Dikes and Sulfuric Acid on Cotton Under Effluent Irrigation. Journal of Irrigation and Drainage Engineering - ASCE, 1989, 115, 463-473.	1.0	0
94	Micro-computer for on-line control and operation of closed-conduit irrigation systems: An economical assessment. Agricultural Water Management, 1989, 16, 137-154.	5.6	0
95	Reply [to <i>Comment on "Stochastic considerations in optimal design of a microcatchment layout of runoff water harvesting"</i> by Gideon Oron and Gerda Enthoven]. Water Resources Research, 1989, 25, 335-335.	4.2	0
96	The Hazbani-Dan water system. European Journal of Operational Research, 1990, 44, 307-318.	5.7	0
97	Trends in trickle irrigation systems development. International Journal of Water Resources Development, 1991, 7, 92-96.	2.0	0
98	Ancient water supply systems in Israel. International Journal of Global Environmental Issues, 2015, 14, 216.	0.1	0