

Michael R Rosen

List of Publications by Year in descending order

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95
papers

2,622
citations

159585

30
h-index

223800

46
g-index

119
all docs

119
docs citations

119
times ranked

2605
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of groundwater in playas: A review of playa classifications and the sedimentology and hydrology of playas. Special Paper of the Geological Society of America, 1994, , 1-18.	0.5	175
2	Microbial biofacies in hot-spring sinters; a model based on Ohaaki Pool, North Island, New Zealand. Journal of Sedimentary Research, 1998, 68, 413-434.	1.6	132
3	Formation of dolomite in the Coorong region, South Australia. Geochimica Et Cosmochimica Acta, 1989, 53, 661-669.	3.9	83
4	Sedimentology, mineralogy and isotopic analysis of Pellet Lake, Coorong region, South Australia. Sedimentology, 1988, 35, 105-122.	3.1	80
5	Antarctic permafrost: An analogue for water and diagenetic minerals on Mars. Geology, 2003, 31, 199.	4.4	80
6	Microplastics in Lake Mead National Recreation Area, USA: Occurrence and biological uptake. PLoS ONE, 2020, 15, e0228896.	2.5	80
7	Analysis of a municipal wastewater treatment plant using a neural network-based pattern analysis. Water Research, 2003, 37, 1608-1618.	11.3	77
8	Biogenicity of gold- and silver-bearing siliceous sinters forming in hot (75Å°C) anaerobic spring-waters of Champagne Pool, Waiotapu, North Island, New Zealand. Journal of the Geological Society, 2001, 158, 895-911.	2.1	63
9	Identification of methyl triclosan and halogenated analogues in male common carp (Cyprinus carpio) from Las Vegas Bay and semipermeable membrane devices from Las Vegas Wash, Nevada. Science of the Total Environment, 2009, 407, 2102-2114.	8.0	59
10	Vertical Zonation of Biota in Microstromatolites Associated with Hot Springs, North Island, New Zealand. Palaios, 1997, 12, 220.	1.3	58
11	Trigonal Dendritic Calcite Crystals Forming from Hot Spring Waters at Waikite, North Island, New Zealand. Journal of Sedimentary Research, 2000, 70, 586-603.	1.6	57
12	Silicified Microbes in a Geyser Mound: The Enigma of Low-Temperature Cyanobacteria in a High-Temperature Setting. Palaios, 2003, 18, 87-109.	1.3	57
13	Primary Silica Oncoids from Orakeikorako Hot Springs, North Island, New Zealand. Palaios, 1996, 11, 446.	1.3	54
14	Controls on the chemical composition of groundwater from alluvial aquifers in the Wanaka and Wakatipu basins, Central Otago, New Zealand. Hydrogeology Journal, 1998, 6, 264-281.	2.1	54
15	Actively growing siliceous oncoids in the Waiotapu geothermal area, North Island, New Zealand. Journal of the Geological Society, 1999, 156, 89-103.	2.1	53
16	Exceptionally fast growth rate of <100-yr-old tufa, Big Soda Lake, Nevada: Implications for using tufa as a paleoclimate proxy. Geology, 2004, 32, 409.	4.4	53
17	The origin and significance of groundwater-seepage gypsum from Bristol Dry Lake, California, USA. Sedimentology, 1990, 37, 983-996.	3.1	50
18	High-temperature (>90Å°C) calcite precipitation at Waikite Hot Springs, North Island, New Zealand. Journal of the Geological Society, 1996, 153, 481-496.	2.1	47

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19	Sedimentologic and geochemical constraints on the evolution of Bristol Dry Lake Basin, California, U.S.A. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1991, 84, 229-257.	2.3	44
20	Intelligent characterisation and diagnosis of the groundwater quality in an urban fractured-rock aquifer using an artificial neural network. <i>Urban Water</i> , 2001, 3, 193-204.	0.5	44
21	Mechanisms of Earthquake-Induced Chemical and Fluid Transport to Carbonate Groundwater Springs After Earthquakes. <i>Water Resources Research</i> , 2018, 54, 5225-5244.	4.2	43
22	Hydromagnesite replacement of biomineralized aragonite in a new location of Holocene stromatolites, Lake Walyungup, Western Australia. <i>Sedimentology</i> , 1998, 45, 1005-1018.	3.1	42
23	Bottom sediment as a source of organic contaminants in Lake Mead, Nevada, USA. <i>Chemosphere</i> , 2012, 88, 605-611.	8.2	40
24	Introduction to the U.S. Geological Survey National Water-Quality Assessment (NAWQA) of Groundwater Quality Trends and Comparison to Other National Programs. <i>Journal of Environmental Quality</i> , 2008, 37, S190-8.	2.0	37
25	The genetic basis of anoxygenic photosynthetic arsenite oxidation. <i>Environmental Microbiology</i> , 2017, 19, 130-141.	3.8	37
26	Bacterial Succession within an Ephemeral Hypereutrophic Mojave Desert Playa Lake. <i>Microbial Ecology</i> , 2009, 57, 307-320.	2.8	35
27	Association between degradation of pharmaceuticals and endocrine-disrupting compounds and microbial communities along a treated wastewater effluent gradient in Lake Mead. <i>Science of the Total Environment</i> , 2018, 622-623, 1640-1648.	8.0	34
28	The effects of water temperature, stratification, and biological activity on the stable isotopic composition and timing of carbonate precipitation in a hypersaline lake. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 979-990.	3.9	31
29	Dynamic Fuzzy Modeling of Storm Water Infiltration in Urban Fractured Aquifers. <i>Journal of Hydrologic Engineering - ASCE</i> , 2002, 7, 380-391.	1.9	31
30	Was There a Pliocene-Pleistocene Fluvial-Lacustrine Connection between Death Valley and the Colorado River?. <i>Quaternary Research</i> , 1995, 43, 286-296.	1.7	30
31	Assessment of multiple sources of anthropogenic and natural chemical inputs to a morphologically complex basin, Lake Mead, USA. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 294, 30-43.	2.3	29
32	Sources and Distribution of Organic Compounds Using Passive Samplers in Lake Mead National Recreation Area, Nevada and Arizona, and Their Implications for Potential Effects on Aquatic Biota. <i>Journal of Environmental Quality</i> , 2010, 39, 1161-1172.	2.0	28
33	Primary siliceous rhizoliths from Loop Road hot springs, North Island, New Zealand. <i>Journal of Sedimentary Research</i> , 1998, 68, 115-123.	1.6	27
34	1998/99 national survey of pesticides in groundwater using GCMS and ELISA. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2001, 35, 205-219.	2.0	26
35	A new location of Holocene dolomite formation, Lake Hayward, Western Australia. <i>Sedimentology</i> , 1992, 39, 161-166.	3.1	25
36	The influence of irrigation water on the hydrology and lake water budgets of two small arid-climate lakes in Khorezm, Uzbekistan. <i>Journal of Hydrology</i> , 2011, 410, 114-125.	5.4	25

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37	The influence of groundwater hydrology and stratigraphy on the hydrochemistry of Stump Bay, South Taupo Wetland, New Zealand. <i>Journal of Hydrology</i> , 1999, 220, 27-47.	5.4	24
38	"Geyser Eggs" from Te Whakarewarewatangaoteopetauaawahiao, North Island, New Zealand. <i>Journal of Sedimentary Research</i> , 2001, 71, 190-204.	1.6	24
39	Coniform Stromatolites from Geothermal Systems, North Island, New Zealand. <i>Palaios</i> , 2002, 17, 84-103.	1.3	23
40	Identification of an urban fractured-rock aquifer dynamics using an evolutionary self-organizing modelling. <i>Journal of Hydrology</i> , 2002, 259, 89-104.	5.4	21
41	Taxonomic fidelity of silicified filamentous microbes from hot-spring systems in the Taupo Volcanic Zone, North Island, New Zealand. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2003, 94, 475-483.	0.7	21
42	Hydrochemistry and nutrient cycling in Yalgorup National Park, Western Australia. <i>Journal of Hydrology</i> , 1996, 185, 241-274.	5.4	20
43	Estimating Rainfall Recharge and Soil Water Residence Times in Pukekohe, New Zealand, by Combining Geophysical, Chemical, and Isotopic Methods. <i>Ground Water</i> , 1999, 37, 836-844.	1.3	19
44	Role of Fungi in the Formation of Siliceous Coated Grains, Waiotapu Geothermal Area, North Island, New Zealand. <i>Palaios</i> , 1999, 14, 475.	1.3	18
45	Patterns of metal composition and biological condition and their association in male common carp across an environmental contaminant gradient in Lake Mead National Recreation Area, Nevada and Arizona, USA. <i>Science of the Total Environment</i> , 2012, 416, 215-224.	8.0	18
46	Novel associations between contaminant body burdens and biomarkers of reproductive condition in male Common Carp along multiple gradients of contaminant exposure in Lake Mead National Recreation Area, USA. <i>General and Comparative Endocrinology</i> , 2015, 219, 112-124.	1.8	18
47	Metabolic Capability and Phylogenetic Diversity of Mono Lake during a Bloom of the Eukaryotic Phototroph <i>Picocystis</i> sp. Strain ML. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	18
48	The importance of groundwater flow to the formation of modern thrombolitic microbialites. <i>Geobiology</i> , 2019, 17, 536-550.	2.4	18
49	Are endocrine and reproductive biomarkers altered in contaminant-exposed wild male Largemouth Bass (<i>Micropterus salmoides</i>) of Lake Mead, Nevada/Arizona, USA?. <i>General and Comparative Endocrinology</i> , 2015, 219, 125-135.	1.8	17
50	Status and trends of orthophosphate concentrations in groundwater used for public supply in California. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 550.	2.7	17
51	Early invasion population structure of quagga mussel and associated benthic invertebrate community composition on soft sediment in a large reservoir. <i>Lake and Reservoir Management</i> , 2010, 26, 316-327.	1.3	16
52	Anthropogenic and geologic causes of anomalously high uranium concentrations in groundwater used for drinking water supply in the southeastern San Joaquin Valley, CA. <i>Journal of Hydrology</i> , 2019, 577, 124009.	5.4	16
53	Trends in nitrogen, phosphorus, and sediment concentrations and loads in streams draining to Lake Tahoe, California, Nevada, USA. <i>Science of the Total Environment</i> , 2021, 752, 141815.	8.0	15
54	Prediction of Groundwater Nitrate Contamination after Closure of an Unlined Sheep Feedlot. <i>Vadose Zone Journal</i> , 2004, 3, 990-1006.	2.2	15

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55	Using sediment chemistry to determine the impact of treated wastewater discharge on a natural wetland in New Zealand. <i>Environmental Geology</i> , 2001, 40, 1411-1423.	1.2	14
56	How useful are the "other" semipermeable membrane devices (SPMDs); the mini-unit (15.2Åcm long)?. <i>Science of the Total Environment</i> , 2009, 407, 4149-4156.	8.0	14
57	Identification of nitrogen sources to four small lakes in the agricultural region of Khorezm, Uzbekistan. <i>Biogeochemistry</i> , 2010, 101, 357-368.	3.5	14
58	Towards the Understanding of Hydrogeochemical Seismic Responses in Karst Aquifers: A Retrospective Meta-Analysis Focused on the Apennines (Italy). <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1058.	2.0	13
59	Sewage effluent discharge and geothermal input in a natural wetland, Tongariro Delta, New Zealand. <i>Ecological Engineering</i> , 1999, 12, 149-170.	3.6	12
60	Lakes as paleoseismic records in a seismically-active, low-relief area (Rieti Basin, central Italy). <i>Quaternary Science Reviews</i> , 2019, 211, 186-207.	3.0	12
61	Combining particle-tracking and geochemical data to assess public supply well vulnerability to arsenic and uranium. <i>Journal of Hydrology</i> , 2009, 376, 132-142.	5.4	11
62	Reversible Reduction of Estrone to 17 β -Estradiol by <i>Rhizobium</i> , <i>Sphingopyxis</i> , and <i>Pseudomonas</i> Isolates from the Las Vegas Wash. <i>Journal of Environmental Quality</i> , 2017, 46, 281-287.	2.0	11
63	Sperm quality biomarkers complement reproductive and endocrine parameters in investigating environmental contaminants in common carp (<i>Cyprinus carpio</i>) from the Lake Mead National Recreation Area. <i>Environmental Research</i> , 2018, 163, 149-164.	7.5	11
64	Importance of benthic production to fish populations in Lake Mead prior to the establishment of quagga mussels. <i>Lake and Reservoir Management</i> , 2010, 26, 293-305.	1.3	10
65	Using Semi-Permeable Membrane Devices and Stable Nitrogen Isotopes to Detect Anthropogenic Influences on the Truckee River, USA. <i>Environmental Engineering Science</i> , 2008, 25, 585-600.	1.6	9
66	Evaluation of Intra-Annual Variation in U.S. Geological Survey National Water Quality Assessment Ground Water Quality Data. <i>Journal of Environmental Quality</i> , 2008, 37, S199-208.	2.0	9
67	Hydroecological condition and potential for aquaculture in lakes of the arid region of Khorezm, Uzbekistan. <i>Journal of Arid Environments</i> , 2015, 117, 37-46.	2.4	9
68	Genome Sequence of the Photoarsenotrophic Bacterium <i>Ectothiorhodospira</i> sp. Strain BSL-9, Isolated from a Hypersaline Alkaline Arsenic-Rich Extreme Environment. <i>Genome Announcements</i> , 2016, 4, .	0.8	9
69	Utilisation of the sedimentological and hydrochemical dynamics of the Stump Bay Wetland along Lake Taupo, New Zealand, for the recognition of paleo-shoreline indicators. <i>Sedimentary Geology</i> , 2002, 148, 357-371.	2.1	8
70	Nutrient processes at the stream-lake interface for a channelized versus unmodified stream mouth. <i>Water Resources Research</i> , 2017, 53, 237-256.	4.2	8
71	STRATIGRAPHY AND HOLOCENE HISTORY OF LAKE HAYWARD, SWAN COASTAL PLAIN WETLANDS, WESTERN AUSTRALIA. , 1994, , 173-188.		8
72	Improving estimates of oil pollution to the sea from land-based sources. <i>Marine Pollution Bulletin</i> , 2010, 60, 990-997.	5.0	7

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73	The Influence of Hydrology on Lacustrine Sediment Contaminant Records. <i>Developments in Paleoenvironmental Research</i> , 2015, , 5-33.	8.0	6
74	Quantifying foodweb interactions with simultaneous linear equations: stable isotope models of the Truckee River, USA. <i>Journal of the North American Benthological Society</i> , 2007, 26, 642-662.	3.1	5
75	The origin of shallow lakes in the Khorezm Province, Uzbekistan, and the history of pesticide use around these lakes. <i>Journal of Paleolimnology</i> , 2018, 59, 201-219.	1.6	5
76	Movement of synthetic organic compounds in the food web after the introduction of invasive quagga mussels (<i>Dreissena bugensis</i>) in Lake Mead, Nevada and Arizona, USA. <i>Science of the Total Environment</i> , 2021, 752, 141845.	8.0	5
77	Potential role for microbial ureolysis in the rapid formation of carbonate tufa mounds. <i>Geobiology</i> , 2022, 20, 79-97.	2.4	5
78	Evolution of Gypsum Karst in the Kirschberg Evaporite Member Near Fredericksburg, Texas. <i>Journal of Sedimentary Research</i> , 1990, Vol. 60, .	1.6	5
79	Prediction of Groundwater Nitrate Contamination after Closure of an Unlined Sheep Feedlot. <i>Vadose Zone Journal</i> , 2004, 3, 990-1006.	2.2	5
80	Effects of artificially controlling levels of Lake Taupo, North Island, New Zealand, on the Stump Bay wetland. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2000, 34, 217-230.	2.0	4
81	Limnogeology, news in brief. <i>Environmental Earth Sciences</i> , 2015, 73, 913-917.	2.7	4
82	Cyclic heliothermal behaviour of the shallow, hypersaline Lake Hayward, Western Australia. <i>Journal of Hydrology</i> , 2018, 560, 495-511.	5.4	4
83	Li and Ca Enrichment in the Bristol Dry Lake Brine Compared to Brines from Cadiz and Danby Dry Lakes, Barstow-Bristol Trough, California, USA. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 284.	2.0	4
84	Commentary: Identification of Nitrate and Dissolved-Solids Sources in Ground Water by GIS Analyses. <i>Environmental Practice</i> , 2005, 7, 32-43.	0.3	3
85	Hydrochemical determination of source water contributions to Lake Lungo and Lake Ripasottile (central Italy). <i>Journal of Limnology</i> , 2016, , .	1.1	3
86	A 450-year record of environmental change from Castle Lake, California (USA), inferred from diatoms and organic geochemistry. <i>Journal of Paleolimnology</i> , 2021, 65, 201-217.	1.6	3
87	Water and sediment chemistry of a wetland treating municipal wastewater. <i>New Zealand Journal of Marine and Freshwater Research</i> , 1999, 33, 649-660.	2.0	2
88	Middle Holocene Hydrologic Changes Catalyzed by River Avulsion in Big Soda Lake, Nevada, USA. <i>Syntheses in Limnogeology</i> , 2021, , 295-328.	0.4	2
89	Microbial ecology and geochemistry of soils containing iron pans. <i>Environmental Geology</i> , 2003, 45, 209-220.	1.2	1
90	Water Quality and Aquatic Ecosystems of Irrigation Runoff Lakes in Khorezm, Uzbekistan. , 2008, , .		0

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91	Investigating Aquatic Ecosystems of Small Lakes in Khorezm, Uzbekistan. , 2009, , .		0
92	International Limnogeology Congress (ILIC6), Reno USA, special issue on new limnogeological research focused on pre-Holocene lake systems. Journal of Paleolimnology, 2018, 59, 1-4.	1.6	0
93	International Limnogeology Congress (ILIC6), Reno USA, special issue on new limnogeological research focused on Holocene lake systems. Journal of Paleolimnology, 2018, 59, 135-138.	1.6	0
94	Introduction to Limnogeology: Progress, Challenges, and Opportunities: A Tribute to Elizabeth Gierlowski-Kordesch. Syntheses in Limnogeology, 2021, , 3-16.	0.4	0
95	Primary Siliceous Rhizoliths from Loop Road Hot Springs, North Island, New Zealand. Journal of Sedimentary Research, 1998, Vol. 68 (1998),, .	1.6	0