Joseph J Vallino

List of Publications by Year
in descending order

44	3,650	249298	286692
papers	citations	26 h-index	43 g-index

49	49	49	4303
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diel light cycles affect phytoplankton competition in the global ocean. Global Ecology and Biogeography, 2022, 31, 1838-1849.	2.7	4
2	Seafloor Incubation Experiment with Deep-Sea Hydrothermal Vent Fluid Reveals Effect of Pressure and Lag Time on Autotrophic Microbial Communities. Applied and Environmental Microbiology, 2021, 87, .	1.4	12
3	Phytoplankton Temporal Strategies Increase Entropy Production in a Marine Food Web Model. Entropy, 2020, 22, 1249.	1.1	2
4	Fluid geochemistry, local hydrology, and metabolic activity define methanogen community size and composition in deep-sea hydrothermal vents. ISME Journal, 2019, 13, 1711-1721.	4.4	29
5	Using Maximum Entropy Production to Describe Microbial Biogeochemistry Over Time and Space in a Meromictic Pond. Frontiers in Environmental Science, 2018, 6, .	1.5	17
6	Microbial Communities Are Well Adapted to Disturbances in Energy Input. MSystems, 2016, 1, .	1.7	28
7	How the Second Law of Thermodynamics Has Informed Ecosystem Ecology through Its History. BioScience, 2016, 66, 27-39.	2.2	30
8	The Thermodynamics of Marine Biogeochemical Cycles: Lotka Revisited. Annual Review of Marine Science, 2016, 8, 333-356.	5.1	28
9	Ecosystemâ€™s 80th and the Reemergence of Emergence. Ecosystems, 2015, 18, 735-739.	1.6	3
10	Predicting microbial nitrate reduction pathways in coastal sediments. Aquatic Microbial Ecology, 2014, 71, 223-238.	0.9	81
11	Use of Receding Horizon Optimal Control to Solve MaxEP-Based Biogeochemistry Problems. Understanding Complex Systems, 2014, , 337-359.	0.3	6
12	Ecology of Streams of the Toolik Region. , 2014, , 173-237.		15
13	Relationships between Soil Organic Matter, Nutrients, Bacterial Community Structure, And the Performance of Microbial Fuel Cells. Environmental Science & Technology, 2012, 46, 1914-1922.	4.6	112
14	Extended local similarity analysis (eLSA) of microbial community and other time series data with replicates. BMC Systems Biology, 2011, 5, S15.	3.0	223
15	Differences and implications in biogeochemistry from maximizing entropy production locally versus globally. Earth System Dynamics, 2011, 2, 69-85.	2.7	15
16	Ecosystem biogeochemistry considered as a distributed metabolic network ordered by maximum entropy production. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1417-1427.	1.8	68
17	Wetlandâ€estuarineâ€shelf interactions in the Plum Island Sound and Merrimack River in the Massachusetts coast. Journal of Geophysical Research, 2010, 115, .	3.3	46
18	Study of the inter-annual food web dynamics in the Kuparuk River with a first-order approximation inverse model. Ecological Modelling, 2008, 211, 97-112.	1.2	1

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19	SUSCEPTIBILITY OF SALT MARSHES TO NUTRIENT ENRICHMENT AND PREDATOR REMOVAL. Ecological Applications, 2007, 17, S42.	1.8	117
20	Characteristics of Marine Aggregates in Shallow-water Ecosystems: Implications for Disease Ecology. EcoHealth, 2007, 4, 406-420.	0.9	46
21	Effect of historical changes in land use and climate on the water budget of an urbanizing watershed. Water Resources Research, 2006, 42, .	1.7	96
22	Efficient export of carbon to the deep ocean through dissolved organic matter. Nature, 2005, 433, 142-145.	13.7	243
23	Estimating estuarine gross production, community respiration and net ecosystem production: a nonlinear inverse technique. Ecological Modelling, 2005, 187, 281-296.	1.2	26
24	An inverse ecosystem model of year-to-year variations with first order approximation to the annual mean fluxes. Ecological Modelling, 2005, 187, 369-388.	1.2	4
25	Relationships of Land Use and Stream Solute Concentrations in the Ipswich River Basin, Northeastern Massachusetts. Water, Air, and Soil Pollution, 2005, 161, 55-74.	1.1	81
26	MODELING NITROGEN TRANSPORT IN THE IPSWICH RIVER BASIN, MASSACHUSETTS, USING A HYDROLOGICAL SIMULATION PROGRAM IN FORTRAN (HSPF). Journal of the American Water Resources Association, 2004, 40, 1365-1384.	1.0	25
27	N budgets and aquatic uptake in the Ipswich River basin, northeastern Massachusetts. Water Resources Research, 2004, 40, .	1.7	22
28	Modeling Microbial Consortiums as Distributed Metabolic Networks. Biological Bulletin, 2003, 204, 174-179.	0.7	34
29	Processing watershedâ€derived nitrogen in a wellâ€flushed New England estuary. Limnology and Oceanography, 2003, 48, 1766-1778.	1.6	50
30	Decomposition of dissolved organic matter from the continental margin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 4461-4478.	0.6	139
31	Improving marine ecosystem models: Use of data assimilation and mesocosm experiments. Journal of Marine Research, 2000, 58, 117-164.	0.3	102
32	Metabolic flux distributions inCorynebacterium glutamicum during growth and lysine overproduction. Biotechnology and Bioengineering, 2000, 67, 872-885.	1.7	31
33	Modeling the effects of land-use change on nitrogen biogeochemistry in the Ipswich Watershed, Massachusetts. Biological Bulletin, 2000, 199, 218-219.	0.7	3
34	Title is missing!. Biogeochemistry, 1998, 43, 211-234.	1.7	174
35	Estimation of Dispersion and Characteristic Mixing Times in Plum Island Sound Estuary. Estuarine, Coastal and Shelf Science, 1998, 46, 333-350.	0.9	70
36	A Review of Recent Developments in Estuarine Scalar Flux Estimation. Estuaries and Coasts, 1997, 20, 262.	1.7	99

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37	Modeling bacterial utilization of dissolved organic matter: Optimization replaces Monod growth kinetics. Limnology and Oceanography, 1996, 41, 1591-1609.	1.6	131
38	Gas Exchange Rates in the Parker River Estuary, Massachusetts. Biological Bulletin, 1996, 191, 333-334.	0.7	51
39	The Relationships among Man's Activities in Watersheds and Estuaries: A Model of Runoff Effects on Patterns of Estuarine Community Metabolism. Estuaries and Coasts, 1995, 18, 598.	1.7	182
40	Carbon Flux Distributions at the Pyruvate Branch Point in Corynebacterium glutamicum during Lysine Overproduction. Biotechnology Progress, 1994, 10, 320-326.	1.3	64
41	Carbon Flux Distributions at the Glucose 6-Phosphate Branch Point in Corynebacterium glutamicum during Lysine Overproduction. Biotechnology Progress, 1994, 10, 327-334.	1.3	71
42	Metabolic flux distributions inCorynebacterium glutamicum during growth and lysine overproduction. Biotechnology and Bioengineering, 1993, 41, 633-646.	1.7	484
43	Network rigidity and metabolic engineering in metabolite overproduction. Science, 1991, 252, 1675-1681.	6.0	567
44	Intelligent Sensors in Biotechnology.. Annals of the New York Academy of Sciences, 1987, 506, 415-430.	1.8	10