Inmaculada De Vicente Alvarez Manzan

List of Publications by Year
in descending order

52 papers	1,177 citations	331259 21 h-index	395343 33 g-index
52 all docs	52 docs citations	52 times ranked	1293 citing authors

#	Article	IF	Citations
1	Phosphate Adsorption by Fresh and Aged Aluminum Hydroxide. Consequences for Lake Restoration. Environmental Science & Technology, 2008, 42, 6650-6655.	4.6	130
2	Factors affecting phosphate adsorption to aluminum in lake water: Implications for lake restoration. Science of the Total Environment, 2008, 389, 29-36.	3.9	78
3	On the use of magnetic nano and microparticles for lake restoration. Journal of Hazardous Materials, 2010, 181, 375-381.	6.5	73
4	Magnetic microparticles as a new tool for lake restoration: A microcosm experiment for evaluating the impact on phosphorus fluxes and sedimentary phosphorus pools. Water Research, 2016, 89, 366-374.	5.3	65
5	Setting up High Gradient Magnetic Separation for combating eutrophication of inland waters. Journal of Hazardous Materials, 2011, 186, 2068-2074.	6.5	49
6	Pathways of river nutrients towards the euphotic zone in a deep-reservoir of small size: Uncertainty analysis. Ecological Modelling, 2007, 202, 345-361.	1.2	45
7	Sediment resuspension in two adjacent shallow coastal lakes: controlling factors and consequences on phosphate dynamics. Aquatic Sciences, 2010, 72, 21-31.	0.6	42
8	Pathways of river water to the surface layers of stratified reservoirs. Limnology and Oceanography, 2014, 59, 233-250.	1.6	38
9	Changed cycling of P, N, Si, and DOC in Danish Lake Nordborg after aluminum treatment. Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 842-856.	0.7	35
10	Contribution of transparent exopolymer particles to carbon sinking flux in an oligotrophic reservoir. Biogeochemistry, 2009, 96, 13-23.	1.7	34
11	Water level fluctuations may decrease phosphate adsorption capacity of the sediment in oligotrophic high mountain lakes. Hydrobiologia, 2010, 651, 253-264.	1.0	32
12	The influence of pH on manganese removal by magnetic microparticles in solution. Water Research, 2014, 53, 110-122.	5.3	32
13	A microcosm experiment to determine the consequences of magnetic microparticles application on water quality and sediment phosphorus pools. Science of the Total Environment, 2017, 579, 245-253.	3.9	32
14	Chemical interferences when using high gradient magnetic separation for phosphate removal: Consequences for lake restoration. Journal of Hazardous Materials, 2011, 192, 995-1001.	6.5	31
15	Factors controlling phosphorus speciation in a Mediterranean basin (River Guadalfeo, Spain). Journal of Hydrology, 2006, 331, 396-408.	2.3	30
16	Sediment phosphate fractionation and interstitial water phosphate concentration in two coastal lagoons (Albuferas de Adra, SE Spain). Hydrobiologia, 2003, 492, 95-105.	1.0	26
17	Variation in transparent exopolymer particles in relation to biological and chemical factors in two contrasting lake districts. Aquatic Sciences, 2010, 72, 443-453.	0.6	26
18	Phosphorus release with carbonate dissolution coupled to sulfide oxidation in Florida Bay seagrass sediments. Limnology and Oceanography, 2009, 54, 1753-1764.	1.6	25

#	Article	IF	Citations
19	Determining major factors controlling phosphorus removal by promising adsorbents used for lake restoration: A linear mixed model approach. Water Research, 2018, 141, 377-386.	5.3	25
20	Synthesis and characterization of magnetic chitosan microspheres as low-density and low-biotoxicity adsorbents for lake restoration. Chemosphere, 2017, 171, 571-579.	4.2	22
21	Sediment desiccation as a driver of phosphate availability in the water column of Mediterranean wetlands. Science of the Total Environment, 2014, 466-467, 965-975.	3.9	21
22	Contribution of dust inputs to dissolved organic carbon and water transparency in Mediterranean reservoirs. Biogeosciences, 2012, 9, 5049-5060.	1.3	19
23	Thermal structure and energy budget in a small high mountain lake: La Caldera, Sierra Nevada, Spain. New Zealand Journal of Marine and Freshwater Research, 2004, 38, 879-894.	0.8	17
24	Sedimentary Phosphate Fractions Related to Calcite Precipitation in an Eutrophic Hardwater Lake (Lake) Tj ETQq0 0 0 rgBT /Overlock 10	0.8	17
25	Instability of shallow lakes: A matter of the complexity of factors involved in sediment and water interaction?. , 2006, 25, 253-270.		17
26	Biogeochemistry of Mediterranean Wetlands: A Review about the Effects of Water-Level Fluctuations on Phosphorus Cycling and Greenhouse Gas Emissions. Water (Switzerland), 2021, 13, 1510.	1.2	16
27	Low predictability in the dynamics of shallow lakes: Implications for their management and restoration. Wetlands, 2006, 26, 928-938.	0.7	14
28	Response of waterbirds to alternating clear and turbid water phases in two shallow Mediterranean lakes. Aquatic Ecology, 2008, 42, 701-706.	0.7	14
29	Implications of seston settling on phosphorus dynamics in three reservoirs of contrasting trophic state. Fundamental and Applied Limnology, 2008, 170, 263-272.	0.4	13
30	Linking watershed land uses and crustacean assemblages in Mediterranean wetlands. Hydrobiologia, 2017, 799, 181-191.	1.0	13
31	Evaluating the effect of CFH-12Â® and PhoslockÂ® on phosphorus dynamics during anoxia and resuspension in shallow eutrophic lakes. Environmental Pollution, 2021, 269, 116093.	3.7	13
32	Selecting priority conservation areas based on zooplankton diversity: the case of Mediterranean wetlands. Marine and Freshwater Research, 2014, 65, 857.	0.7	12
33	Interannual and between-site variability in the occurrence of clear water phases in two shallow Mediterranean lakes. Aquatic Ecology, 2007, 41, 285-297.	0.7	11
34	Acute and chronic effects of magnetic microparticles potentially used in lake restoration on Daphnia magna and Chironomus sp.. Journal of Hazardous Materials, 2017, 322, 437-444.	6.5	11
35	Effect of Drought Conditions on Plankton Community and on Nutrient Availability in an Oligotrophic High Mountain Lake. Arctic, Antarctic, and Alpine Research, 2012, 44, 50-61.	0.4	10
36	Ecotoxicity screening of novel phosphorus adsorbents used for lake restoration. Chemosphere, 2019, 222, 469-478.	4.2	10

#	Article	IF	Citations
37	A comprehensive evaluation of the crustacean assemblages in southern Iberian Mediterranean wetlands. Journal of Limnology, 2014, 73, .	0.3	9
38	Contrasting factors controlling microbial respiratory activity in the sediment of two adjacent Mediterranean wetlands. Die Naturwissenschaften, 2010, 97, 627-635.	0.6	8
39	Assessment of toxic effects of magnetic particles used for lake restoration on Chlorella sp. and on Brachionus calyciflorus. Chemosphere, 2017, 187, 347-356.	4.2	7
40	Zooplankton Community Dynamics in Temporary Mediterranean Wetlands: Which Drivers Are Controlling the Seasonal Species Replacement?. Water (Switzerland), 2021, 13, 1447.	1.2	7
41	Temporal and spatial trends in the sedimentation process in a canyon-type reservoir (El Gergal, Seville,) Tj ETQq1 1 0.784314 rgBT /Over	1.1	7
42	Chemical composition of wetland sediments as an integrator of trophic state. Aquatic Ecosystem Health and Management, 2010, 13, 99-103.	0.3	6
43	Is the bioproduction number a good index of the trophic state in Mediterranean wetlands?. Knowledge and Management of Aquatic Ecosystems, 2015, , 05.	0.5	6
44	Zooplankton body size versus taxonomy in Mediterranean wetlands: implications for aquatic ecosystem evaluation. Freshwater Science, 2017, 36, 774-783.	0.9	5
45	Do magnetic phosphorus adsorbents used for lake restoration impact on zooplankton community?. Science of the Total Environment, 2019, 656, 598-607.	3.9	5
46	Going deeper into phosphorus adsorbents for lake restoration: Combined effects of magnetic particles, intraspecific competition and habitat heterogeneity pressure on Daphnia magna. Ecotoxicology and Environmental Safety, 2018, 148, 513-519.	2.9	4
47	Assessing the toxic effects of magnetic particles used for lake restoration on phytoplankton: A community-based approach. Ecotoxicology and Environmental Safety, 2021, 207, 111288.	2.9	4
48	Magnetic particles as new adsorbents for the reduction of phosphate inputs from a wastewater treatment plant to a Mediterranean Ramsar wetland (Southern Spain). Chemosphere, 2021, 270, 128640.	4.2	4
49	Settling and resuspended particles: A source or a sink of phosphate in two contrasting oligotrophic high mountain lakes?. Comptes Rendus - Geoscience, 2010, 342, 46-52.	0.4	3
50	Assessing the viability of recovered phosphorus from eutrophicated aquatic ecosystems as a liquid fertilizer. Journal of Environmental Management, 2021, 285, 112156.	3.8	2
51	Contribution to the inventory of Iberian diatoms: Encyonema nevadense S.Blanco & al. sp. nov. (Cymbellales, Gomphonemataceae). Anales Del Jardin Botanico De Madrid, 2019, 76, 088.	0.2	2
52	Process oriented modeling of Lake Ontario hydrodynamics. , 2010, , 381-386.		0