

Teresa Serra

List of Publications by Year in descending order

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84
papers

2,101
citations

279798

23
h-index

276875

41
g-index

86
all docs

86
docs citations

86
times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregation and Breakup of Particles in a Shear Flow. <i>Journal of Colloid and Interface Science</i> , 1997, 187, 466-473.	9.4	129
2	Flow and particle distributions in a nearshore seagrass meadow before and after a storm. <i>Marine Ecology - Progress Series</i> , 2001, 218, 95-106.	1.9	124
3	Structure of the Aggregates During the Process of Aggregation and Breakup Under a Shear Flow. <i>Journal of Colloid and Interface Science</i> , 1998, 206, 505-511.	9.4	92
4	Efficiency of different shear devices on flocculation. <i>Water Research</i> , 2008, 42, 1113-1121.	11.3	91
5	Effects of the water withdrawal in the stratification patterns of a reservoir. <i>Hydrobiologia</i> , 2003, 504, 21-28.	2.0	86
6	Effect of the shear and volume fraction on the aggregation and breakup of particles. <i>AIChE Journal</i> , 1998, 44, 1724-1730.	3.6	85
7	Effects of emergent vegetation on lateral diffusion in wetlands. <i>Water Research</i> , 2004, 38, 139-147.	11.3	79
8	The role of surface vertical mixing in phytoplankton distribution in a stratified reservoir. <i>Limnology and Oceanography</i> , 2007, 52, 620-634.	3.1	73
9	Flow structure in canopy models dominated by progressive waves. <i>Journal of Hydrology</i> , 2013, 486, 281-292.	5.4	69
10	Experimental observations on sediment resuspension within submerged model canopies under oscillatory flow. <i>Continental Shelf Research</i> , 2014, 91, 220-231.	1.8	49
11	Reflective Learning in Higher Education: Active Methodologies for Transformative Practices. <i>Sustainability</i> , 2020, 12, 3827.	3.2	48
12	Evaluation of Laser In Situ Scattering Instrument for Measuring Concentration of Phytoplankton, Purple Sulfur Bacteria, and Suspended Inorganic Sediments in Lakes. <i>Journal of Environmental Engineering, ASCE</i> , 2001, 127, 1023-1030.	1.4	47
13	Effect of submerged aquatic vegetation on turbulence induced by an oscillating grid. <i>Continental Shelf Research</i> , 2010, 30, 1019-1029.	1.8	45
14	Corporate Sustainable Development. Revisiting the Relationship between Corporate Social Responsibility Dimensions. <i>Sustainable Development</i> , 2018, 26, 365-378.	12.5	45
15	Filtering capacity of <i>Daphnia magna</i> on sludge particles in treated wastewater. <i>Water Research</i> , 2013, 47, 181-186.	11.3	38
16	The internal wave field in Sau reservoir: Observation and modeling of a third vertical mode. <i>Limnology and Oceanography</i> , 2005, 50, 1326-1333.	3.1	35
17	The social dimension of firm performance: a data envelopment approach. <i>Empirical Economics</i> , 2018, 54, 189-206.	3.0	33
18	Temperature-driven response reversibility and short-term quasi-acclimation of <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2018, 13, e0209705.	2.5	33

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19	Canopy-scale turbulence under oscillatory flow. <i>Continental Shelf Research</i> , 2013, 66, 9-18.	1.8	31
20	Collision Frequencies of Fractal Bacterial Aggregates with Small Particles in a Sheared Fluid. <i>Environmental Science & Technology</i> , 1999, 33, 2247-2251.	10.0	30
21	Pre-Service Teachers's Reflections on Cooperative Learning: Instructional Approaches and Identity Construction. <i>Sustainability</i> , 2019, 11, 5970.	3.2	27
22	The role of advection and turbulent mixing in the vertical distribution of phytoplankton. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 53-62.	2.1	26
23	Interactions between Fragmented Seagrass Canopies and the Local Hydrodynamics. <i>PLoS ONE</i> , 2016, 11, e0156264.	2.5	26
24	Synergistic effects of water temperature, microplastics and ammonium as second and third order stressors on <i>Daphnia magna</i> . <i>Environmental Pollution</i> , 2020, 267, 115439.	7.5	26
25	Evaluating Knowledge and Assessment-Centered Reflective-Based Learning Approaches. <i>Sustainability</i> , 2018, 10, 3122.	3.2	26
26	Fostering Critical Reflection in Primary Education through STEAM Approaches. <i>Education Sciences</i> , 2020, 10, 384.	2.6	24
27	Modelling the Aggregation and Break-up of Fractal Aggregates in a Shear Flow. <i>Flow, Turbulence and Combustion</i> , 1997, 59, 255-268.	0.2	23
28	Effects of a turbid hydrothermal plume on the sedimentation rates in a karstic lake. <i>Geophysical Research Letters</i> , 2002, 29, 25-1.	4.0	23
29	Mediated food and hydrodynamics on the ingestion of microplastics by <i>Daphnia magna</i> . <i>Environmental Pollution</i> , 2019, 251, 434-441.	7.5	23
30	Observations of a hydrothermal plume in a karstic lake. <i>Limnology and Oceanography</i> , 2001, 46, 197-203.	3.1	21
31	Impact of anthropogenically created canopy gaps on wave attenuation in a <i>Posidonia oceanica</i> seagrass meadow. <i>Marine Ecology - Progress Series</i> , 2017, 569, 103-116.	1.9	21
32	Behaviour and dynamics of a hydrothermal plume in Lake Banyoles, Catalonia, NE Spain. <i>Sedimentology</i> , 2005, 52, 795-808.	3.1	20
33	Quantification of the Effect of Nonphotochemical Quenching on the Determination of <i>In Vivo</i> Chl <i>a</i> from Phytoplankton Along the Water Column of a Freshwater Reservoir. <i>Photochemistry and Photobiology</i> , 2009, 85, 321-331.	2.5	20
34	Can We Improve Farm Performance? The Determinants of Farm Technical and Environmental Efficiency. <i>Applied Economic Perspectives and Policy</i> , 2015, 37, 692-717.	5.6	20
35	Modelling price transmission and volatility spillover in the Slovenian wheat market. <i>Applied Economics</i> , 2017, 49, 4116-4126.	2.2	20
36	Interdisciplinary Cooperative Educational Approaches to Foster Knowledge and Competences for Sustainable Development. <i>Sustainability</i> , 2020, 12, 8624.	3.2	20

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37	Seasonal development of a turbid hydrothermal lake plume and the effects on the fish distribution. <i>Water Research</i> , 2002, 36, 2753-2760.	11.3	19
38	Tertiary treatment for wastewater reuse based on the <i>Daphnia magna</i> filtration “ comparison with conventional tertiary treatments. <i>Water Science and Technology</i> , 2014, 70, 705-711.	2.5	19
39	Sediment fluidization events in a lake caused by large monthly rainfalls. <i>Geophysical Research Letters</i> , 2002, 29, 101-1-101-3.	4.0	18
40	Optimal light conditions for <i>Daphnia</i> filtration. <i>Science of the Total Environment</i> , 2019, 686, 151-157.	8.0	18
41	Localized algal blooms induced by river inflows in a canyon type reservoir. <i>Aquatic Sciences</i> , 2012, 74, 315-327.	1.5	17
42	<i>Daphnia magna</i> filtration efficiency and mobility in laminar to turbulent flows. <i>Science of the Total Environment</i> , 2018, 621, 626-633.	8.0	17
43	<i>Daphnia magna</i> filtration, swimming and mortality under ammonium, nitrite, nitrate and phosphate. <i>Science of the Total Environment</i> , 2019, 656, 331-337.	8.0	17
44	Particle capture by seagrass canopies under an oscillatory flow. <i>Coastal Engineering</i> , 2021, 169, 103972.	4.0	17
45	Modified hydrodynamics in canopies with longitudinal gaps exposed to oscillatory flows. <i>Journal of Hydrology</i> , 2015, 531, 840-849.	5.4	16
46	The role of pest pressure in technical and environmental inefficiency analysis of Dutch arable farms: an event-specific data envelopment approach. <i>Journal of Productivity Analysis</i> , 2016, 46, 139-153.	1.6	15
47	Assessment of zooplankton-based eco-sustainable wastewater treatment at laboratory scale. <i>Chemosphere</i> , 2020, 238, 124683.	8.2	15
48	Observations of the Particle Size Distribution and Concentration in a Coastal System using an In Situ Laser Analyzer. <i>Marine Technology Society Journal</i> , 2002, 36, 59-69.	0.4	14
49	Local hydrodynamics at edges of marine canopies under oscillatory flows. <i>PLoS ONE</i> , 2018, 13, e0201737.	2.5	14
50	Supportive Peer Feedback in Tertiary Education: Analysis of Pre-Service Teachers’s™ Perceptions. <i>Education Sciences</i> , 2019, 9, 280.	2.6	14
51	Particle size segregation of turbidity current deposits in vegetated canopies. <i>Science of the Total Environment</i> , 2020, 703, 134784.	8.0	14
52	Vertical distribution of microplastics in water bodies causes sublethal effects and changes in <i>Daphnia magna</i> swimming behaviour. <i>Ecotoxicology and Environmental Safety</i> , 2021, 228, 113001.	6.0	13
53	Sediment deposition from turbidity currents in simulated aquatic vegetation canopies. <i>Sedimentology</i> , 2017, 64, 1132-1146.	3.1	12
54	Functional responses of <i>Daphnia magna</i> to zero-mean flow turbulence. <i>Scientific Reports</i> , 2019, 9, 3844.	3.3	12

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55	Suspended sediment transport and deposition in sediment-replenished artificial floods in Mediterranean rivers. <i>Journal of Hydrology</i> , 2022, 609, 127756.	5.4	12
56	Quantified distribution of diatoms during the stratified [2pt] period of Boadella reservoir. <i>Hydrobiologia</i> , 2002, 489, 235-244.	2.0	11
57	A model for the effect of submerged aquatic vegetation on turbulence induced by an oscillating grid. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 114, 23-30.	2.1	11
58	The hydraulic retention time on the particle removal efficiency by <i>Daphnia magna</i> filtration on treated wastewater. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1433-1442.	3.5	11
59	Meadow fragmentation influences <i>Posidonia oceanica</i> density at the edge of nearby gaps. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 249, 107106.	2.1	11
60	Anomalous rainfall and associated atmospheric circulation in the northeast Spanish Mediterranean area and its relationship to sediment fluidization events in a lake. <i>Water Resources Research</i> , 2007, 43, .	4.2	9
61	High sedimentation rates in a karstic lake associated with hydrothermal turbid plumes (Lake Banyoles,) Tj ETQq1 1 0.784314,rgBT /Over 2.1	2.1	9
62	Emotional Self-Regulation through Introjective Practices in Physical Education. <i>Education Sciences</i> , 2020, 10, 208.	2.6	9
63	Functional dynamics of vegetated model patches: The minimum patch size effect for canopy restoration. <i>Science of the Total Environment</i> , 2021, 795, 148854.	8.0	9
64	On the presence of aggregates in the basins of Lake Banyoles. <i>Geophysical Research Letters</i> , 1996, 23, 2737-2740.	4.0	8
65	A study of the evolution of the particle boundary layer in a reservoir, using laser particle sizing. <i>Water Research</i> , 2002, 36, 4293-4300.	11.3	8
66	Hydrothermal plumes trapped by thermal stratification. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	8
67	Fragmentation in Seagrass Canopies Can Alter Hydrodynamics and Sediment Deposition Rates. <i>Water (Switzerland)</i> , 2020, 12, 3473.	2.7	8
68	Hydrodynamics and sediment deposition in turbidity currents: Comparing continuous and patchy vegetation canopies, and the effects of water depth. <i>Journal of Hydrology</i> , 2021, 594, 125750.	5.4	8
69	Consolidated sediment resuspension in model vegetated canopies. <i>Environmental Fluid Mechanics</i> , 2019, 19, 1575-1598.	1.6	7
70	Zooplankton-based reactors for tertiary wastewater treatment: A pilot-scale case study. <i>Journal of Environmental Management</i> , 2021, 278, 111538.	7.8	7
71	Longitudinal self-directed competence development of university students through self-reflection. <i>Reflective Practice</i> , 2021, 22, 727-740.	1.4	7
72	Fragmented Canopies Control the Regimes of Gravity Current Development. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1631-1646.	2.6	6

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73	Vermifilter and zooplankton-based reactor integration as a nature-based system for wastewater treatment and reuse. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 4, 100153.	6.1	5
74	Cooperative Approaches and Academic Motivation towards Enhancing Pre-Service Teachers' Achievement. <i>Education Sciences</i> , 2021, 11, 705.	2.6	5
75	Derivation of netput shadow prices under different levels of pest pressure. <i>Journal of Productivity Analysis</i> , 2017, 48, 25-34.	1.6	4
76	The Mixing Regime and Turbidity of Lake Banyoles (NE Spain): Response to Climate Change. <i>Water (Switzerland)</i> , 2020, 12, 1621.	2.7	4
77	The World of Edges in Submerged Vegetated Marine Canopies: From Patch to Canopy Scale. <i>Water (Switzerland)</i> , 2021, 13, 2430.	2.7	4
78	Spatio-temporal heterogeneity in a planktonic <i>Thiocystis minor</i> population, studied by laser in situ particle analysis. <i>Freshwater Biology</i> , 2003, 48, 698-708.	2.4	3
79	Scaling analysis of single-plume convection from a hydrothermal source. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
80	Mean residence time of lagoons in shallow vegetated floodplains. <i>Hydrological Processes</i> , 2021, 35, e14065.	2.6	2
81	Particle and turbulence measurements in lakes: application to the rising plume of Lake Banyoles. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 256-260.	0.1	1
82	Application of a $k\epsilon$ formulation to model the effect of submerged aquatic vegetation on turbulence induced by an oscillating grid. <i>Continental Shelf Research</i> , 2012, 34, 1-6.	1.8	1
83	Influence of a flooding event discharge on accretion in wetlands. <i>Environmental Fluid Mechanics</i> , 2017, 17, 833-851.	1.6	1
84	Recent Pockmark activity in Lake Banyoles (NE Spain) severely affected by changes in climate and land use. <i>Journal of Hydrology: Regional Studies</i> , 2021, 37, 100913.	2.4	1