

Jordi Colomer

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,128
citations

257357

24
h-index

289141

40
g-index

101
all docs

101
docs citations

101
times ranked

1766
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. | 5.0 | 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. | 0.9 | 124 |
| 3 | Efficiency of different shear devices on flocculation. <i>Water Research</i> , 2008, 42, 1113-1121. | 5.3 | 91 |
| 4 | Effects of the water withdrawal in the stratification patterns of a reservoir. <i>Hydrobiologia</i> , 2003, 504, 21-28. | 1.0 | 86 |
| 5 | The role of surface vertical mixing in phytoplankton distribution in a stratified reservoir. <i>Limnology and Oceanography</i> , 2007, 52, 620-634. | 1.6 | 73 |
| 6 | Flow structure in canopy models dominated by progressive waves. <i>Journal of Hydrology</i> , 2013, 486, 281-292. | 2.3 | 69 |
| 7 | Reflective learning in higher education: a qualitative study on students'™ perceptions. <i>Studies in Higher Education</i> , 2016, 41, 1008-1022. | 2.9 | 63 |
| 8 | Experimental analysis of coagulation of particles under low-shear flow. <i>Water Research</i> , 2005, 39, 2994-3000. | 5.3 | 57 |
| 9 | Teachers'™ involvement and students'™ self-efficacy: Keys to achievement in higher education. <i>PLoS ONE</i> , 2019, 14, e0216865. | 1.1 | 53 |
| 10 | Experimental observations on sediment resuspension within submerged model canopies under oscillatory flow. <i>Continental Shelf Research</i> , 2014, 91, 220-231. | 0.9 | 49 |
| 11 | Reflective Learning in Higher Education: Active Methodologies for Transformative Practices. <i>Sustainability</i> , 2020, 12, 3827. | 1.6 | 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. | 0.7 | 47 |
| 13 | Effect of submerged aquatic vegetation on turbulence induced by an oscillating grid. <i>Continental Shelf Research</i> , 2010, 30, 1019-1029. | 0.9 | 45 |
| 14 | Filtering capacity of <i>Daphnia magna</i> on sludge particles in treated wastewater. <i>Water Research</i> , 2013, 47, 181-186. | 5.3 | 38 |
| 15 | Moral Education for Sustainable Development: Comparison of University Teachers'™ Perceptions in China and Pakistan. <i>Sustainability</i> , 2020, 12, 3014. | 1.6 | 37 |
| 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. | 1.6 | 35 |
| 17 | Temperature-driven response reversibility and short-term quasi-acclimation of <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2018, 13, e0209705. | 1.1 | 33 |
| 18 | Analysing Emotions and Social Skills in Physical Education. <i>Sustainability</i> , 2018, 10, 1585. | 1.6 | 33 |

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|----|---|-----|-----------|
| 19 | Improving and evaluating reflective narratives: A rubric for higher education students. <i>Teaching and Teacher Education</i> , 2017, 63, 148-158. | 1.6 | 32 |
| 20 | Reflective Learning in Higher Education: A Comparative Analysis. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 93, 364-370. | 0.5 | 31 |
| 21 | Canopy-scale turbulence under oscillatory flow. <i>Continental Shelf Research</i> , 2013, 66, 9-18. | 0.9 | 31 |
| 22 | Turbulent convection from isolated sources. <i>Dynamics of Atmospheres and Oceans</i> , 1999, 30, 125-148. | 0.7 | 30 |
| 23 | Pre-Service Teachers' Reflections on Cooperative Learning: Instructional Approaches and Identity Construction. <i>Sustainability</i> , 2019, 11, 5970. | 1.6 | 27 |
| 24 | The role of advection and turbulent mixing in the vertical distribution of phytoplankton. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 53-62. | 0.9 | 26 |
| 25 | Interactions between Fragmented Seagrass Canopies and the Local Hydrodynamics. <i>PLoS ONE</i> , 2016, 11, e0156264. | 1.1 | 26 |
| 26 | 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. | 3.7 | 26 |
| 27 | Evaluating Knowledge and Assessment-Centered Reflective-Based Learning Approaches. <i>Sustainability</i> , 2018, 10, 3122. | 1.6 | 26 |
| 28 | Fostering Critical Reflection in Primary Education through STEAM Approaches. <i>Education Sciences</i> , 2020, 10, 384. | 1.4 | 24 |
| 29 | Mediated food and hydrodynamics on the ingestion of microplastics by <i>Daphnia magna</i> . <i>Environmental Pollution</i> , 2019, 251, 434-441. | 3.7 | 23 |
| 30 | Validating the Narrative Reflection Assessment Rubric (NARRA) for reflective narratives in higher education. <i>Assessment and Evaluation in Higher Education</i> , 2019, 44, 155-168. | 3.9 | 23 |
| 31 | Bottom currents induced by baroclinic forcing in Lake Banyoles (Spain). <i>Aquatic Sciences</i> , 1993, 55, 206-227. | 0.6 | 22 |
| 32 | Observations of a hydrothermal plume in a karstic lake. <i>Limnology and Oceanography</i> , 2001, 46, 197-203. | 1.6 | 21 |
| 33 | 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. | 0.9 | 21 |
| 34 | Behaviour and dynamics of a hydrothermal plume in Lake Banyoles, Catalonia, NE Spain. <i>Sedimentology</i> , 2005, 52, 795-808. | 1.6 | 20 |
| 35 | 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. | 1.3 | 20 |
| 36 | Interdisciplinary Cooperative Educational Approaches to Foster Knowledge and Competences for Sustainable Development. <i>Sustainability</i> , 2020, 12, 8624. | 1.6 | 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. | 5.3 | 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. | 1.2 | 19 |
| 39 | Sediment fluidization events in a lake caused by large monthly rainfalls. <i>Geophysical Research Letters</i> , 2002, 29, 101-1-101-3. | 1.5 | 18 |
| 40 | Optimal light conditions for <i>Daphnia</i> filtration. <i>Science of the Total Environment</i> , 2019, 686, 151-157. | 3.9 | 18 |
| 41 | Sediment entrainment in karst basins. <i>Aquatic Sciences</i> , 1998, 60, 338. | 0.6 | 17 |
| 42 | Localized algal blooms induced by river inflows in a canyon type reservoir. <i>Aquatic Sciences</i> , 2012, 74, 315-327. | 0.6 | 17 |
| 43 | <i>Daphnia magna</i> filtration efficiency and mobility in laminar to turbulent flows. <i>Science of the Total Environment</i> , 2018, 621, 626-633. | 3.9 | 17 |
| 44 | <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. | 3.9 | 17 |
| 45 | Particle capture by seagrass canopies under an oscillatory flow. <i>Coastal Engineering</i> , 2021, 169, 103972. | 1.7 | 17 |
| 46 | Modified hydrodynamics in canopies with longitudinal gaps exposed to oscillatory flows. <i>Journal of Hydrology</i> , 2015, 531, 840-849. | 2.3 | 16 |
| 47 | The reflection level and the construction of professional identity of university students. <i>Reflective Practice</i> , 2021, 22, 73-85. | 0.7 | 16 |
| 48 | Assessment of zooplankton-based eco-sustainable wastewater treatment at laboratory scale. <i>Chemosphere</i> , 2020, 238, 124683. | 4.2 | 15 |
| 49 | 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. | 0.3 | 14 |
| 50 | Local hydrodynamics at edges of marine canopies under oscillatory flows. <i>PLoS ONE</i> , 2018, 13, e0201737. | 1.1 | 14 |
| 51 | Supportive Peer Feedback in Tertiary Education: Analysis of Pre-Service Teachers’™ Perceptions. <i>Education Sciences</i> , 2019, 9, 280. | 1.4 | 14 |
| 52 | Particle size segregation of turbidity current deposits in vegetated canopies. <i>Science of the Total Environment</i> , 2020, 703, 134784. | 3.9 | 14 |
| 53 | DAYTIME HEAT BALANCE FOR ESTIMATING NON-RADIATIVE FLUXES OF LAKE BANYOLES, SPAIN. <i>Hydrological Processes</i> , 1996, 10, 721-726. | 1.1 | 13 |
| 54 | 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. | 2.9 | 13 |

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|----|---|-----|-----------|
| 55 | Sediment deposition from turbidity currents in simulated aquatic vegetation canopies. <i>Sedimentology</i> , 2017, 64, 1132-1146. | 1.6 | 12 |
| 56 | Functional responses of <i>Daphnia magna</i> to zero-mean flow turbulence. <i>Scientific Reports</i> , 2019, 9, 3844. | 1.6 | 12 |
| 57 | Suspended sediment transport and deposition in sediment-replenished artificial floods in Mediterranean rivers. <i>Journal of Hydrology</i> , 2022, 609, 127756. | 2.3 | 12 |
| 58 | Modelling spectral irradiance in freshwater in relation to phytoplankton and solar radiation. <i>Ecological Modelling</i> , 1996, 87, 59-68. | 1.2 | 11 |
| 59 | Quantified distribution of diatoms during the stratified [2pt] period of Boadella reservoir. <i>Hydrobiologia</i> , 2002, 489, 235-244. | 1.0 | 11 |
| 60 | 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. | 0.9 | 11 |
| 61 | 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. | 1.8 | 11 |
| 62 | Meadow fragmentation influences <i>Posidonia oceanica</i> density at the edge of nearby gaps. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 249, 107106. | 0.9 | 11 |
| 63 | 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, . | 1.7 | 9 |
| 64 | High sedimentation rates in a karstic lake associated with hydrothermal turbid plumes (Lake Banyoles,) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.0 | 9 |
| 65 | Emotional Self-Regulation through Introjective Practices in Physical Education. <i>Education Sciences</i> , 2020, 10, 208. | 1.4 | 9 |
| 66 | Formulating Modes of Cooperative Learning for Education for Sustainable Development. <i>Sustainability</i> , 2021, 13, 3465. | 1.6 | 9 |
| 67 | Cooperative Learning to Reduce Inequalities: Instructional Approaches and Dimensions. <i>Sustainability</i> , 2021, 13, 10234. | 1.6 | 9 |
| 68 | Functional dynamics of vegetated model patches: The minimum patch size effect for canopy restoration. <i>Science of the Total Environment</i> , 2021, 795, 148854. | 3.9 | 9 |
| 69 | On the presence of aggregates in the basins of Lake Banyoles. <i>Geophysical Research Letters</i> , 1996, 23, 2737-2740. | 1.5 | 8 |
| 70 | Flow characteristics of a gravity current induced by differential cooling in a small lake. <i>Aquatic Sciences</i> , 1996, 58, 367-377. | 0.6 | 8 |
| 71 | 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. | 5.3 | 8 |
| 72 | Hydrothermal plumes trapped by thermal stratification. <i>Geophysical Research Letters</i> , 2003, 30, . | 1.5 | 8 |

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|----|---|-----|-----------|
| 73 | 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. | 2.3 | 8 |
| 74 | El movimiento, un lenguaje para crecer [Movement: A Language for Growing]. <i>Apunts Educacion Fisica Y Deportes</i> , 2018, , 146-155. | 0.0 | 8 |
| 75 | Consolidated sediment resuspension in model vegetated canopies. <i>Environmental Fluid Mechanics</i> , 2019, 19, 1575-1598. | 0.7 | 7 |
| 76 | Studentsâ€™ Social Construction of Knowledge through Cooperative Learning. <i>Sustainability</i> , 2020, 12, 9606. | 1.6 | 7 |
| 77 | Zooplankton-based reactors for tertiary wastewater treatment: A pilot-scale case study. <i>Journal of Environmental Management</i> , 2021, 278, 111538. | 3.8 | 7 |
| 78 | Longitudinal self-directed competence development of university students through self-reflection. <i>Reflective Practice</i> , 2021, 22, 727-740. | 0.7 | 7 |
| 79 | Fragmented Canopies Control the Regimes of Gravity Current Development. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1631-1646. | 1.0 | 6 |
| 80 | Resuspension of Particle Bed by Round Vertical Jet. <i>Journal of Environmental Engineering, ASCE</i> , 1996, 122, 864-869. | 0.7 | 5 |
| 81 | 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. | 2.9 | 5 |
| 82 | Cooperative Approaches and Academic Motivation towards Enhancing Pre-Service Teachersâ€™ Achievement. <i>Education Sciences</i> , 2021, 11, 705. | 1.4 | 5 |
| 83 | Resuspension of Sediments by Multiple Jets. <i>Journal of Hydraulic Engineering</i> , 1999, 125, 765-770. | 0.7 | 4 |
| 84 | The Mixing Regime and Turbidity of Lake Banyoles (NE Spain): Response to Climate Change. <i>Water (Switzerland)</i> , 2020, 12, 1621. | 1.2 | 4 |
| 85 | The World of Edges in Submerged Vegetated Marine Canopies: From Patch to Canopy Scale. <i>Water (Switzerland)</i> , 2021, 13, 2430. | 1.2 | 4 |
| 86 | Spatio-temporal heterogeneity in a planktonic <i>Thiocystis</i> minor population, studied by laser in situ particle analysis. <i>Freshwater Biology</i> , 2003, 48, 698-708. | 1.2 | 3 |
| 87 | Tutoring as Evidence of a Reflective Practice: A Case Study. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 93, 356-363. | 0.5 | 3 |
| 88 | Scaling analysis of single-plume convection from a hydrothermal source. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 2 |
| 89 | Mean residence time of lagoons in shallow vegetated floodplains. <i>Hydrological Processes</i> , 2021, 35, e14065. | 1.1 | 2 |
| 90 | Sustainable Development of Studentsâ€™ Assumed Responsibility for Their Own Learning during Participatory Action Research. <i>Sustainability</i> , 2021, 13, 10183. | 1.6 | 2 |

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|----|--|-----|-----------|
| 91 | El moviment, un llenguatge per cr ixer. Apunts: Educaci  F sica I Esports, 2018, , 146-155. | 0.2 | 2 |
| 92 | Fluidization of sediments in a conical basin by subterranean springs: relevance to Lake Banyoles. Aquatic Sciences, 2000, 62, 79. | 0.6 | 1 |
| 93 | Particle and turbulence measurements in lakes: application to the rising plume of Lake Banyoles. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 256-260. | 0.1 | 1 |
| 94 | Application of a k   formulation to model the effect of submerged aquatic vegetation on turbulence induced by an oscillating grid. Continental Shelf Research, 2012, 34, 1-6. | 0.9 | 1 |
| 95 | Recent Pockmark activity in Lake Banyoles (NE Spain) severely affected by changes in climate and land use. Journal of Hydrology: Regional Studies, 2021, 37, 100913. | 1.0 | 1 |
| 96 | Dependence of Socio-Emotional Competence Expression on Gender and Grade for K5  K12 Students. Education Sciences, 2022, 12, 341. | 1.4 | 1 |
| 97 | Development of a turbid layer in conical basins and its application to Lake Banyoles. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 233-237. | 0.1 | 0 |
| 98 | REFLECTIVE ANALYSIS OF UNDERGRADUATE STUDENTS WHEN WORKING ON NON-FORMAL SCIENCE ACTIVITIES. INTED Proceedings, 2018, , . | 0.0 | 0 |