

Miguel Ortega-Sánchez

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

1,464
citations

257101

24
h-index

360668

35
g-index

111
all docs

111
docs citations

111
times ranked

1199
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Tide transformation in the Guadalquivir estuary (SW Spain) and process-based zonation. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 81 |
| 2 | Implications of delta retreat on wave propagation and longshore sediment transport—Guadalfeo case study (southern Spain). <i>Marine Geology</i> , 2016, 382, 1-16. | 0.9 | 69 |
| 3 | The importance of wave climate forecasting on the decision-making process for nearshore wave energy exploitation. <i>Applied Energy</i> , 2016, 182, 191-203. | 5.1 | 65 |
| 4 | Impact of river regulation on a Mediterranean delta: Assessment of managed versus unmanaged scenarios. <i>Water Resources Research</i> , 2016, 52, 5132-5148. | 1.7 | 65 |
| 5 | Morpho-sedimentary dynamics of a micro-tidal mixed sand and gravel beach, Playa Granada, southern Spain. <i>Marine Geology</i> , 2016, 379, 28-38. | 0.9 | 59 |
| 6 | Coupling cross-shore and longshore sediment transport to model storm response along a mixed sand-gravel coast under varying wave directions. <i>Coastal Engineering</i> , 2017, 129, 93-104. | 1.7 | 58 |
| 7 | The role of wave energy converter farms on coastal protection in eroding deltas, Guadalfeo, southern Spain. <i>Journal of Cleaner Production</i> , 2018, 171, 356-367. | 4.6 | 57 |
| 8 | Advances in management tools for modeling artificial nourishments in mixed beaches. <i>Journal of Marine Systems</i> , 2017, 172, 1-13. | 0.9 | 53 |
| 9 | Characteristic friction coefficient and scale effects in oscillatory porous flow. <i>Coastal Engineering</i> , 2009, 56, 931-939. | 1.7 | 48 |
| 10 | Towards an optimum design of wave energy converter arrays through an integrated approach of life cycle performance and operational capacity. <i>Applied Energy</i> , 2018, 209, 20-32. | 5.1 | 48 |
| 11 | On the development of large-scale cusped features on a semi-reflective beach: Carchuna beach, Southern Spain. <i>Marine Geology</i> , 2003, 198, 209-223. | 0.9 | 43 |
| 12 | Wave farm effects on the coast: The alongshore position. <i>Science of the Total Environment</i> , 2018, 640-641, 1176-1186. | 3.9 | 38 |
| 13 | Assessing and mitigating the landscape effects of river damming on the Guadalfeo River delta, southern Spain. <i>Landscape and Urban Planning</i> , 2017, 165, 117-129. | 3.4 | 37 |
| 14 | An integrated methodology to forecast the efficiency of nourishment strategies in eroding deltas. <i>Science of the Total Environment</i> , 2018, 613-614, 1175-1184. | 3.9 | 37 |
| 15 | Hydrodynamics response to planned human interventions in a highly altered embayment: The example of the Bay of Cádiz (Spain). <i>Estuarine, Coastal and Shelf Science</i> , 2015, 167, 75-85. | 0.9 | 35 |
| 16 | Tidal and subtidal hydrodynamics and energetics in a constricted estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 185, 55-68. | 0.9 | 34 |
| 17 | Protection of gravel-dominated coasts through wave farms: Layout and shoreline evolution. <i>Science of the Total Environment</i> , 2018, 636, 1541-1552. | 3.9 | 33 |
| 18 | Automatic Methodology to Detect the Coastline from Landsat Images with a New Water Index Assessed on Three Different Spanish Mediterranean Deltas. <i>Remote Sensing</i> , 2019, 11, 2186. | 1.8 | 33 |

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|----|--|-----|-----------|
| 19 | Relation between beachface morphology and wave climate at Trafalgar beach (Cádiz, Spain). <i>Geomorphology</i> , 2008, 99, 171-185. | 1.1 | 32 |
| 20 | Coastal Evolution, Sea Level, and Assessment of Intrinsic Uncertainty. <i>Journal of Coastal Research</i> , 2011, 59, 218-228. | 0.1 | 31 |
| 21 | A methodology for the long-term simulation and uncertainty analysis of the operational lifetime performance of wave energy converter arrays. <i>Energy</i> , 2018, 153, 126-135. | 4.5 | 31 |
| 22 | The influence of shelf-indenting canyons and infralittoral prograding wedges on coastal morphology: The Carchuna system in Southern Spain. <i>Marine Geology</i> , 2014, 347, 107-122. | 0.9 | 29 |
| 23 | Effects of seabed morphology on oscillating water column wave energy converters. <i>Energy</i> , 2017, 135, 659-673. | 4.5 | 28 |
| 24 | Natural Recovery of a Mixed Sand and Gravel Beach after a Sequence of a Short Duration Storm and Moderate Sea States. <i>Journal of Coastal Research</i> , 2012, 279, 89-101. | 0.1 | 26 |
| 25 | Assessing the morphodynamic response of human-altered tidal embayments. <i>Geomorphology</i> , 2018, 320, 127-141. | 1.1 | 24 |
| 26 | A note on alongshore sediment transport on weakly curvilinear coasts and its implications. <i>Coastal Engineering</i> , 2014, 88, 143-153. | 1.7 | 22 |
| 27 | Estimating Final Scour Depth under Clear-Water Flood Waves. <i>Journal of Hydraulic Engineering</i> , 2014, 140, 328-332. | 0.7 | 21 |
| 28 | Short and medium-term evolution of shoreline undulations on curvilinear coasts. <i>Geomorphology</i> , 2012, 159-160, 189-200. | 1.1 | 19 |
| 29 | Oscillating water column performance under the influence of storm development. <i>Energy</i> , 2019, 166, 765-774. | 4.5 | 18 |
| 30 | A simple approximation for wave refraction $\hat{\alpha}^c$ Application to the assessment of the nearshore wave directionality. <i>Ocean Modelling</i> , 2015, 96, 324-333. | 1.0 | 16 |
| 31 | Confronting learning challenges in the field of maritime and coastal engineering: Towards an educational methodology for sustainable development. <i>Journal of Cleaner Production</i> , 2018, 171, 733-742. | 4.6 | 15 |
| 32 | Atmospheric-hydrodynamic coupling in the nearshore. <i>Geophysical Research Letters</i> , 2008, 35, . | 1.5 | 14 |
| 33 | Flood management challenges in transitional environments: Assessing the effects of sea-level rise on compound flooding in the 21st century. <i>Coastal Engineering</i> , 2021, 167, 103872. | 1.7 | 14 |
| 34 | Effects of basin bottom slope on jet hydrodynamics and river mouth bar formation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1110-1133. | 1.0 | 13 |
| 35 | Efficient dredging strategy in a tidal inlet based on an energetic approach. <i>Ocean and Coastal Management</i> , 2017, 146, 157-169. | 2.0 | 12 |
| 36 | Integrating complex numerical approaches into a user-friendly application for the management of coastal environments. <i>Science of the Total Environment</i> , 2018, 624, 979-990. | 3.9 | 12 |

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|----|--|-----|-----------|
| 37 | Evaluating the impact of dredging strategies at tidal inlets: Performance assessment. <i>Science of the Total Environment</i> , 2019, 658, 1069-1084. | 3.9 | 12 |
| 38 | Discussion of "Further Results to Time-Dependent Local Scour at Bridge Elements" by Giuseppe Oliveto and Willi H. Hager. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 995-996. | 0.7 | 11 |
| 39 | A public, open Western Europe database of shoreline undulations based on imagery. <i>Applied Geography</i> , 2014, 55, 278-291. | 1.7 | 11 |
| 40 | Buried marine-cut terraces and submerged marine-built terraces: The Carchuna-Calahonda coastal area (southeast Iberian Peninsula). <i>Geomorphology</i> , 2016, 264, 29-40. | 1.1 | 11 |
| 41 | Large-scale coastal features generated by atmospheric pulses and associated edge waves. <i>Marine Geology</i> , 2008, 247, 226-236. | 0.9 | 10 |
| 42 | On the relative influence of climate forcing agents on the saline intrusion in a well-mixed estuary: Medium-term Monte Carlo predictions. <i>Journal of Coastal Research</i> , 2013, 165, 1200-1205. | 0.1 | 10 |
| 43 | Beach cusps and inner surf zone processes: growth or destruction? A case study of Trafalgar Beach (Cádiz, Spain). <i>Scientia Marina</i> , 2010, 74, 539-553. | 0.3 | 10 |
| 44 | Impact of human interventions on tidal stream power: The case of Cádiz Bay. <i>Energy</i> , 2018, 145, 88-104. | 4.5 | 9 |
| 45 | Natural and Human-Induced Flow and Sediment Transport within Tidal Creek Networks Influenced by Ocean-Bay Tides. <i>Water (Switzerland)</i> , 2019, 11, 1493. | 1.2 | 9 |
| 46 | Beyond flood probability assessment: An integrated approach for characterizing extreme water levels along transitional environments. <i>Coastal Engineering</i> , 2019, 152, 103512. | 1.7 | 9 |
| 47 | The Role of Waves and Heat Exchange in the Hydrodynamics of Multi-Basin Bays: The Example of Cádiz Bay (Southern Spain). <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016346. | 1.0 | 8 |
| 48 | TIDAL WAVE REFLECTION FROM THE CLOSURE DAM IN THE GUADALQUIVIR ESTUARY (SW SPAIN). <i>Coastal Engineering Proceedings</i> , 2012, 1, 58. | 0.1 | 7 |
| 49 | A global model of a tidal jet including the effects of friction and bottom slope. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008, 46, 80-86. | 0.7 | 6 |
| 50 | Non-cohesive and cohesive sediment transport due to tidal currents and sea waves: A case study. <i>Continental Shelf Research</i> , 2019, 183, 87-102. | 0.9 | 6 |
| 51 | Beyond Human Interventions on Complex Bays: Effects on Water and Wave Dynamics (Study Case Cádiz) Tj ETQq1_1 0.784314 rgBT | 1.2 | 6 |
| 52 | Reply to Comment on "On the development of large scale features on a semi-reflective beach: Carchuna beach, Southern Spain" by A. Ashton and A. Brad Murray. <i>Marine Geology</i> , 2004, 206, 285-288. | 0.9 | 5 |
| 53 | Comment on "High-angle wave instability and emergent shoreline shapes: 1. Modeling of sand waves, flying spits, and capes" by Andrew D. Ashton and A. Brad Murray. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 5 |
| 54 | Continental shelf waves on the Alborán sea. <i>Continental Shelf Research</i> , 2015, 111, 1-8. | 0.9 | 5 |

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|----|--|-----|-----------|
| 55 | Comment on "On the development of large-scale cusped features on a semi-reflective beach: Carchuna beach, Southern Spain," by M. Ortega Sanchez, M.A. Losada and A. Baquerizo [Mar. Geol. 198 (2003) 209-223]. Marine Geology, 2004, 206, 283-284. | 0.9 | 4 |
| 56 | Implications of River Discharge Angle and Basin Slope on Mouth Bar Morphology and Discharge Dynamics of Stable Jets. Journal of Hydraulic Engineering, 2018, 144, . | 0.7 | 4 |
| 57 | NONUNIFORM ALONGSHORE SEDIMENT TRANSPORT INDUCED BY COASTLINE CURVATURE. Coastal Engineering Proceedings, 2012, 1, 29. | 0.1 | 4 |
| 58 | A Subtidal Model of Temperature for a Well-Mixed Narrow Estuary: the Guadalquivir River Estuary (SW Spain). Estuaries and Coasts, 2016, 39, 605-620. | 1.0 | 3 |
| 59 | Socioeconomic and Environmental Risk in Coastal and Ocean Engineering. , 2009, , 923-952. | | 3 |
| 60 | Bridge-piling modifications on tidal flows in an estuary. Coastal Engineering, 2022, 173, 104093. | 1.7 | 3 |
| 61 | Approaching Software Engineering for Marine Sciences: A Single Development Process for Multiple End-User Applications. Journal of Marine Science and Engineering, 2020, 8, 350. | 1.2 | 2 |
| 62 | An Integrated GIS Methodology to Assess the Impact of Engineering Maintenance Activities: A Case Study of Dredging Projects. Journal of Marine Science and Engineering, 2020, 8, 186. | 1.2 | 2 |
| 63 | Circulation in a Short, Microtidal Submarine Canyon in the Alborán Sea. Journal of Coastal Research, 2020, 95, 1531. | 0.1 | 2 |
| 64 | SUSPENDED PARTICLE DYNAMICS IN A WELL-MIXED ESTUARY: DEVIATIONS FROM MORPHODYNAMIC EQUILIBRIUM. Coastal Engineering Proceedings, 2015, 1, 78. | 0.1 | 1 |
| 65 | FORESHORE EVOLUTION OF A MIXED SAND AND GRAVEL BEACH: THE CASE OF PLAYA GRANADA (SOUTHERN) Tj ETQq1 1 0,784314 | | 1 |
| 66 | Thermodynamics and Morphodynamics in Wave Energy. SpringerBriefs in Energy, 2018, , . | 0.2 | 1 |
| 67 | Mixed sand and gravel beaches. , 2020, , 317-341. | | 1 |
| 68 | Effects of Seabed Morphology on Oscillating Water Column Wave Energy Converter Performance. SpringerBriefs in Energy, 2018, , 67-85. | 0.2 | 1 |
| 69 | DEVELOPMENT OF GRAPHICAL USER INTERFACES FOR DESIGNING MARITIME WORKS IN WORKSHOPS FOR UNDERGRADUATE CIVIL ENGINEERS. , 2017, , . | | 1 |
| 70 | MASS TRANSPORT AND RELATED BEDFORMS INDUCED BY PHASE-LOCKED EDGEWAVES IN A GROIN. , 2005, , . | | 1 |
| 71 | SYNOPTIC PREDICTIVE MORPHODYNAMIC MODEL FOR BEACH MANAGEMENT: TRAFALGAR (SPAIN). , 2007, , . | | 1 |
| 72 | Prodeltaic Undulations and Hypopycnal Flows (I): Morphological Observations. , 2017, , 107-112. | | 1 |

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| 73 | A SIMILARITY PARAMETER FOR BREAKWATERS: THE MODIFIED IRIBARREN NUMBER. Coastal Engineering Proceedings, 2018, , 28. | 0.1 | 1 |
| 74 | A simple method for estimating wave refraction along weakly curvilinear coasts. , 2015, , . | | 0 |
| 75 | Study Sites. SpringerBriefs in Earth Sciences, 2017, , 11-22. | 0.5 | 0 |
| 76 | Littoral Drift and Coastline Evolution on Mixed Sand and Gravel Coasts. SpringerBriefs in Earth Sciences, 2017, , 39-62. | 0.5 | 0 |
| 77 | A Real Gas Model for Oscillating Water Column Performance. SpringerBriefs in Energy, 2018, , 7-27. | 0.2 | 0 |
| 78 | Numerical Simulation of an Oscillating Water Column Problem for Turbine Performance. SpringerBriefs in Energy, 2018, , 45-65. | 0.2 | 0 |
| 79 | The Role of Wave Energy Converter Farms in Coastal Protection. SpringerBriefs in Energy, 2018, , 87-104. | 0.2 | 0 |
| 80 | Thermodynamics of an Oscillating Water Column Containing Real Gas. SpringerBriefs in Energy, 2018, , 29-43. | 0.2 | 0 |
| 81 | Non-tidal superinertial internal waves in a short microtidal submarine canyon. Regional Studies in Marine Science, 2021, 44, 101784. | 0.4 | 0 |
| 82 | WIND-INDUCED CIRCULATION AND MORPHOLOGY ON A NATURAL BEACH: CARCHUNA (SPAIN). , 2007, , . | | 0 |
| 83 | SEA LEVEL VARIABILITY AND COASTAL EVOLUTION. , 2009, , . | | 0 |
| 84 | Shoreline Undulations. Encyclopedia of Earth Sciences Series, 2016, , 602-602. | 0.1 | 0 |
| 85 | LEARNING CALIBRATION AND TESTING MODEL TO PREDICT FUTURE IMPACTS IN COASTAL ENVIRONMENTS. , 2016, , . | | 0 |
| 86 | INTRODUCING GRADUATE STUDENTS INTO PRE-PROCESSING TECHNIQUES FOR ADVANCED NUMERICAL MODELS: APPLICATION TO HYDRODYNAMIC MODELS. , 2016, , . | | 0 |
| 87 | Prodeltaic Undulations and Hyperpycnal Flows (II): Evolutionary Trends. , 2017, , 113-120. | | 0 |
| 88 | INTRODUCING GRADUATE STUDENTS INTO OCEANOGRAPHIC INSTRUMENTATION AND DATA POST-PROCESSING TECHNIQUES. , 2016, , . | | 0 |
| 89 | DEVELOPMENT OF VISUAL TOOLS FOR ACHIEVING PRACTICAL SKILLS IN MARINE AND COASTAL ENGINEERING AND SCIENCE. , 2016, , . | | 0 |
| 90 | UNBIASED EVALUATION OF WORKGROUPS MEMBERS IN THE FIELD OF CIVIL ENGINEERING. EDULEARN Proceedings, 2017, , . | 0.0 | 0 |

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|-----|---|-----|-----------|
| 91 | LABORATORY TESTS AS A COMPLEMENT TO TEACHING IN DEGREE, MASTER AND DOCTORAL PROGRAMS IN THE FIELD OF MARITIME ENGINEERING. , 2017, , . | | 0 |
| 92 | AN INTEGRATED TOOL FOR MANAGING CONSTRUCTION WORKS IN CIVIL ENGINEERING: APPLICATION TO BREAKWATERS. EDULEARN Proceedings, 2017, , . | 0.0 | 0 |
| 93 | VERIFICATION OF THE CROWN WALL STABILITY TAKING INTO ACCOUNT THE HYDRAULIC PERFORMANCE CURVES. Coastal Engineering Proceedings, 2017, , 10. | 0.1 | 0 |
| 94 | IMPLICATIONS OF PLUME DISCHARGE FOR TIDAL CHANNELS MORPHODYNAMICS: A COUPLED ONSHORE AND OFFSHORE SYSTEM. Coastal Engineering Proceedings, 2017, , 12. | 0.1 | 0 |
| 95 | IMPACT OF RIVER REGULATION ON THE SUBMERGED MORPHOLOGY OF A MEDITERRANEAN DELTAIC SYSTEM: EVALUATING COASTAL ENGINEERING TOOLS. Coastal Engineering Proceedings, 2017, , 10. | 0.1 | 0 |
| 96 | PROJECT-BASED LEARNING THROUGH GROUP WORKS IN CIVIL ENGINEERING: IMPLEMENTATION, EARLY EXPERIENCES AND ONGOING CHALLENGES. , 2017, , . | | 0 |
| 97 | UNBIASED EVALUATION BASED ON RUBRIC METHOD WITH PUBLIC PRESENTATION. , 2017, , . | | 0 |
| 98 | CLIMATE CHANGE TEACHING: HOW TO INTRODUCE THIS TOPIC IN THE ENGINEERING EDUCATION. EDULEARN Proceedings, 2018, , . | 0.0 | 0 |
| 99 | INCORPORATING THE ASSESSMENT OF MARINE RENEWABLE ENERGIES IN ENGINEERING STUDIES. EDULEARN Proceedings, 2018, , . | 0.0 | 0 |
| 100 | INTEGRATION OF CLIMATE CHANGE PERSPECTIVES INTO ENGINEERING STUDIES: DEVELOPING APPROACHES INCLUDING BOTH SIMULATION OF FUTURE CLIMATE SCENARIOS AND ASSESSMENT OF THEIR IMPACTS. , 2018, , . | | 0 |
| 101 | COMBINING ROLE-PLAYING AND PROJECT-BASED LEARNING AS A WAY TO INCREASE MOTIVATION OF ENGINEERING STUDENTS. , 2018, , . | | 0 |
| 102 | RETURNING TO ORIGIN: USE OF SIMPLE BASIC INSTRUMENTS IN LABORATORY AND FIELD LESSONS TO STRENGTHEN THEORETICAL KNOWLEDGE ACQUISITION. , 2020, , . | | 0 |
| 103 | IMPLEMENTATION OF DIFFERENT COMPUTER TOOLS IN THE TEACHING OF MARITIME AND RIVER ENGINEERING. , 2020, , . | | 0 |