Moncho Gomez Gesteira

List of Publications by Year
in descending order

240	9,458	34105 52	51608 86
papers	citations	h-index	g-index

246	246	246	5694
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	VisualSPHysics: advanced fluid visualization for SPH models. Computational Particle Mechanics, 2022, 9, 897-910.	3.0	4
2	DualSPHysics: from fluid dynamics to multiphysics problems. Computational Particle Mechanics, 2022, 9, 867-895.	3.0	131
3	Modified dynamic boundary conditions (mDBC) for general-purpose smoothed particle hydrodynamics (SPH): application to tank sloshing, dam break and fish pass problems. Computational Particle Mechanics, 2022, 9, 1-15.	3.0	59
4	Projected changes in the season of hot days in the Middle East and North Africa. International Journal of Climatology, 2022, 42, 2195-2207.	3.5	6
5	Influence of Canary upwelling system on coastal SST warming along the 21st century using CMIP6 GCMs. Global and Planetary Change, 2022, 208, 103692.	3.5	18
6	Combining offshore wind and solar photovoltaic energy to stabilize energy supply under climate change scenarios: A case study on the western Iberian Peninsula. Renewable and Sustainable Energy Reviews, 2022, 157, 112037.	16.4	47
7	Water renewal estimation for sustainable aquaculture development in Ria de Aveiro and Rias Baixas. Regional Studies in Marine Science, 2022, 49, 102098.	0.7	1
8	A numerical study of a taut-moored point-absorber wave energy converter with a linear power take-off system under extreme wave conditions. Applied Energy, 2022, 311, 118629.	10.1	25
9	The Rivillas flood of 5â€“6 November 1997 (Badajoz, Spain) revisited: An approach based on Iber+ modelling. Journal of Hydrology, 2022, 610, 127883.	5.4	3
10	Harnessing of Different WECs to Harvest Wave Energy along the Galician Coast (NW Spain). Journal of Marine Science and Engineering, 2022, 10, 719.	2.6	10
11	Uncertainty estimation of mesh-free and mesh-based simulations of the dynamics of floaters. Ocean Engineering, 2022, 256, 111386.	4.3	7
12	Historical and future naturalization of Magallana gigas in the Galician coast in a context of climate change. Science of the Total Environment, 2022, 838, 156437.	8.0	8
13	Analysis of two sources of variability of basin outflow hydrographs computed with the 2D shallow water model Iber: Digital Terrain Model and unstructured mesh size. Journal of Hydrology, 2022, 612, 128182.	5.4	13
14	Influence of Eastern Upwelling systems on marine heatwaves occurrence. Global and Planetary Change, 2021, 196, 103379.	3.5	24
15	Modelling a Heaving Point-Absorber with a Closed-Loop Control System Using the DualSPHysics Code. Energies, 2021, 14, 760.	3.1	18
16	Economic Feasibility of Floating Offshore Wind Farms Considering Near Future Wind Resources: Case Study of Iberian Coast and Bay of Biscay. International Journal of Environmental Research and Public Health, 2021, 18, 2553.	2.6	8
17	Influence of the mightiest rivers worldwide on coastal sea surface temperature warming. Science of the Total Environment, 2021, 768, 144915.	8.0	6
18	Flooding Conditions at Aveiro Port (Portugal) within the Framework of Projected Climate Change. Journal of Marine Science and Engineering, 2021, 9, 595.	2.6	7

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19	Modelling the distribution of microplastics released by wastewater treatment plants in Ria de Vigo (NW Iberian Peninsula). Marine Pollution Bulletin, 2021, 166, 112227.	5.0	19
20	Smooth particle hydrodynamics simulations of long-duration violent three-dimensional sloshing in tanks. Ocean Engineering, 2021, 229, 108925.	4.3	20
21	Numerical reconstruction of historical extreme floods: The Guadiana event of 1876. Journal of Hydrology, 2021, 599, 126292.	5.4	9
22	Climate change impacts on the future offshore wind energy resource in China. Renewable Energy, 2021, 175, 731-747.	8.9	44
23	Modeling salinity drop in estuarine areas under extreme precipitation events within a context of climate change: Effect on bivalve mortality in Galician RÃas Baixas. Science of the Total Environment, 2021, 790, 148147.	8.0	18
24	A Delphi method to classify wave energy resource for the 21st century: Application to the NW Iberian Peninsula. Energy, 2021, 235, 121396.	8.8	22
25	Wind energy resource over Europe under CMIP6 future climate projections: What changes from CMIP5 to CMIP6. Renewable and Sustainable Energy Reviews, 2021, 151, 111594.	16.4	61
26	A habitat suitability model for aquaculture site selection: Ria de Aveiro and Rias Baixas. Science of the Total Environment, 2021, 801, 149687.	8.0	9
27	ON THE DEVELOPMENT OF A NOVEL APPROACH FOR SIMULATING ELASTIC BEAMS IN DUALSPHYSICS WITH THE USE OF THE PROJECT CHRONO LIBRARY. , 2021, , .		3
28	The Mathematics of Smoothed Particle Hydrodynamics (SPH) Consistency. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	1.3	10
29	NW Iberian Peninsula coastal upwelling future weakening: Competition between wind intensification and surface heating. Science of the Total Environment, 2020, 703, 134808.	8.0	39
30	How can ocean warming at the NW Iberian Peninsula affect mussel aquaculture?. Science of the Total Environment, 2020, 709, 136117.	8.0	17
31	Efficiency and survivability analysis of a point-absorber wave energy converter using DualSPHysics. Renewable Energy, 2020, 162, 1763-1776.	8.9	46
32	Social-ecological vulnerability to climate change in small-scale fisheries managed under spatial property rights systems. Marine Policy, 2020, 121, 104192.	3.2	20
33	The impact of climate change on the geographical distribution of habitat-forming macroalgae in the RÃas Baixas. Marine Environmental Research, 2020, 161, 105074.	2.5	16
34	The Bay of Biscay as a trapping zone for exogenous plastics of different sizes. Journal of Sea Research, 2020, 163, 101929.	1.6	11
35	Evaluating the Future Efficiency of Wave Energy Converters along the NW Coast of the Iberian Peninsula. Energies, 2020, 13, 3563.	3.1	18
36	Numerical modelling of a multi-chambered low-reflective caisson. Applied Ocean Research, 2020, 103, 102325.	4.1	9

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37	MIDAS: A New Integrated Flood Early Warning System for the MiÃ±o River. Water (Switzerland), 2020, 12, 2319.	2.7	17
38	Assessment of Hybrid Wind-Wave Energy Resource for the NW Coast of Iberian Peninsula in a Climate Change Context. Applied Sciences (Switzerland), 2020, 10, 7395.	2.5	19
39	Influence of Mississippi and Atchafalaya River plume in the winter coastal cooling of the Northwestern Gulf of Mexico. Journal of Marine Systems, 2020, 209, 103374.	2.1	2
40	IberWQ: A GPU Accelerated Tool for 2D Water Quality Modeling in Rivers and Estuaries. Water (Switzerland), 2020, 12, 413.	2.7	12
41	On the suitability of offshore wind energy resource in the United States of America for the 21st century. Applied Energy, 2020, 262, 114537.	10.1	75
42	Efficiency and Survivability of a Floating Oscillating Water Column Wave Energy Converter Moored to the Seabed: An Overview of the EsflOWC MaRINET2 Database. Water (Switzerland), 2020, 12, 992.	2.7	6
43	A NEW OPEN SOURCE SOLVER FOR MODELLING FLUID-STRUCTURE INTERACTION: CASE STUDY OF A POINT-ABSORBER WAVE ENERGY CONVERTER WITH POWER TAKE-OFF UNIT. , 2020, , .		7
44	FIRST-YEAR UNIVERSITY STUDENTS LEARNING BACKGROUND: AN INTERREGIONAL STUDY OF THE IMPORTANCE AND RELEVANCE OF ACADEMIC CHOICES. , 2020, , .		0
45	An overview of offshore wind energy resources in Europe under present and future climate. Annals of the New York Academy of Sciences, 2019, 1436, 70-97.	3.8	27
46	SPH simulation of floating structures with moorings. Coastal Engineering, 2019, 153, 103560.	4.0	90
47	Experimental Study of a Moored Floating Oscillating Water Column Wave-Energy Converter and of a Moored Cubic Box. Energies, 2019, 12, 1834.	3.1	16
48	Dynamic characterization of the main Cantabrian river plumes by means of MODIS. Continental Shelf Research, 2019, 183, 14-27.	1.8	6
49	Europe, China and the United States: Three different approaches to the development of offshore wind energy. Renewable and Sustainable Energy Reviews, 2019, 109, 55-70.	16.4	165
50	Projections of wind energy resources in the Caribbean for the 21st century. Energy, 2019, 178, 356-367.	8.8	45
51	Reduced Nearshore Warming Associated With Eastern Boundary Upwelling Systems. Frontiers in Marine Science, 2019, 6, .	2.5	43
52	Sustainable resource management: water practice issues. Sustainable Water Resources Management, 2019, 5, 3-9.	2.1	10
53	Towards an automatic early warning system of flood hazards based on precipitation forecast: the case of the MiÃ±o RiverÂ(NW Spain). Natural Hazards and Earth System Sciences, 2019, 19, 2583-2595.	3.6	19
54	The Bay of Biscay. , 2019, , 113-152.		9

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55	Hydrodynamics of river plume intrusion into an adjacent estuary: The Minho River and Ria de Vigo. Journal of Marine Systems, 2019, 189, 87-97.	2.1	35
56	On the accuracy of DualSPHysics to assess violent collisions with coastal structures. Computers and Fluids, 2019, 179, 604-612.	2.5	46
57	Changes in the probability of larvae crossing the North Atlantic during the 20th century. Marine and Freshwater Research, 2019, 70, 1150.	1.3	1
58	Multiphase Flows Simulation with the Smoothed Particle Hydrodynamics Method. Communications in Computer and Information Science, 2019, , 282-301.	0.5	0
59	DualSPHysics: A numerical tool to simulate real breakwaters. Journal of Hydrodynamics, 2018, 30, 95-105.	3.2	44
60	Analysis of the hydrological safety of dams combining two numerical tools: Iber and DualSPHysics. Journal of Hydrodynamics, 2018, 30, 87-94.	3.2	10
61	Differences in coastal and oceanic SST trends north of Yucatan Peninsula. Journal of Marine Systems, 2018, 182, 46-55.	2.1	18
62	An Accelerated Tool for Flood Modelling Based on Iber. Water (Switzerland), 2018, 10, 1459.	2.7	64
63	Floating Moored Oscillating Water Column With Meshless SPH Method. , 2018, , .		1
64	On the accuracy of CORDEX RCMs to project future winds over the Iberian Peninsula and surrounding ocean. Applied Energy, 2018, 228, 289-300.	10.1	36
65	Integrated High-resolution Numerical Model for the NW Iberian Peninsula Coast and Main Estuarine Systems. Journal of Coastal Research, 2018, 85, 66-70.	0.3	10
66	Coastal warming and wind-driven upwelling: A global analysis. Science of the Total Environment, 2018, 639, 1501-1511.	8.0	57
67	AN INNOVATIVE METHODOLOGY IN THE UNIVERSITY PROGRAM FOR SENIORS: THE CASE OF THE METEOROLOGY SUBJECT AT THE UNIVERSITY OF VIGO. , 2018, , .		0
68	Seasonality of coastal upwelling trends under future warming scenarios along the southern limit of the canary upwelling system. Progress in Oceanography, 2017, 153, 16-23.	3.2	21
69	Seasonal and interannual variability of the Douro turbid river plume, northwestern Iberian Peninsula. Remote Sensing of Environment, 2017, 194, 401-411.	11.0	23
70	Long-crested wave generation and absorption for SPH-based DualSPHysics model. Coastal Engineering, 2017, 127, 37-54.	4.0	183
71	Towards simulating floating offshore oscillating water column converters with Smoothed Particle Hydrodynamics. Coastal Engineering, 2017, 126, 11-26.	4.0	103
72	Resolved Simulation of a Granular-Fluid Flow with a Coupled SPH-DCDEM Model. Journal of Hydraulic Engineering, 2017, 143, .	1.5	43

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73	Why coastal upwelling is expected to increase along the western Iberian Peninsula over the next century?. Science of the Total Environment, 2017, 592, 243-251.	8.0	37
74	Can lagrangian models reproduce the migration time of European eel obtained from otolith analysis?. Journal of Sea Research, 2017, 130, 17-23.	1.6	4
75	Characterization of Iberian turbid plumes by means of synoptic patterns obtained through MODIS imagery. Journal of Sea Research, 2017, 126, 12-25.	1.6	24
76	Loire and Gironde turbid plumes: Characterization and influence on thermohaline properties. Journal of Sea Research, 2017, 130, 7-16.	1.6	11
77	Editorial: Changing ecosystems: New findings in the Bay of Biscay. Journal of Sea Research, 2017, 130, 1-6.	1.6	1
78	Coastal upwelling trends under future warming scenarios from the <scp>CORDEX</scp> project along the Galician coast (<scp>NW</scp> Iberian Peninsula). International Journal of Climatology, 2017, 37, 3427-3438.	3.5	11
79	Offshore winds and wind energy production estimates derived from ASCAT, OSCAT, numerical weather prediction models and buoys â€“ A comparative study for the Iberian Peninsula Atlantic coast. Renewable Energy, 2017, 102, 433-444.	8.9	63
80	Potential impacts of climate change on European wind energy resource under the CMIP5 future climate projections. Renewable Energy, 2017, 101, 29-40.	8.9	158
81	Influence of main forcing affecting the Tagus turbid plume under high river discharges using MODIS imagery. PLoS ONE, 2017, 12, e0187036.	2.5	16
82	ANALYSIS OF THE LEARNING EXPERIENCE IN THE PROGRAM FOR SENIORS AT THE UNIVERSITY OF VIGO. EDULEARN Proceedings, 2017, , .	0.0	0
83	COMPARATIVE STUDY OF THE LEARNING EXPERIENCE IN THREE DIFFERENT ACADEMIC LEVELS AT THE UNIVERSITY OF VIGO. EDULEARN Proceedings, 2017, , .	0.0	0
84	Parallel CPU/GPU Computing for Smoothed Particle Hydrodynamics Models. Environmental Science and Engineering, 2016, , 477-491.	0.2	1
85	Quasi-static mooring solver implemented in SPH. Journal of Ocean Engineering and Marine Energy, 2016, 2, 381-396.	1.7	22
86	How will Somali coastal upwelling evolve under future warming scenarios?. Scientific Reports, 2016, 6, 30137.	3.3	32
87	Modulation of sea surface temperature warming in the <scp>B</scp>ay of <scp>B</scp>iscay by <scp>L</scp>oire and <scp>G</scp>ironde <scp>R</scp>ivers. Journal of Geophysical Research: Oceans, 2016, 121, 966-979.	2.6	18
88	Influence of upwelling on SST trends in La Guajira system. Journal of Geophysical Research: Oceans, 2016, 121, 2469-2480.	2.6	20
89	New insights into the Western Iberian Buoyant Plume: Interaction between the Douro and Minho River plumes under winter conditions. Progress in Oceanography, 2016, 141, 30-43.	3.2	32
90	Smoothed particle hydrodynamics: Applications to migration of radionuclides in confined aqueous systems. Journal of Contaminant Hydrology, 2016, 187, 65-78.	3.3	15

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91	SPHâ€“DCDEM model for arbitrary geometries in free surface solidâ€“fluid flows. Computer Physics Communications, 2016, 202, 131-140.	7.5	98
92	Influence of Coastal Upwelling on SST Trends along the South Coast of Java. PLoS ONE, 2016, 11, e0162122.	2.5	22
93	Changes in sea surface temperature seasonality in the Bay of Biscay over the last decades (1982â€“2014). Journal of Marine Systems, 2015, 150, 91-101.	2.1	36
94	A dipoleâ€like <scp>SST</scp> trend in the <scp>S</scp>omalia region during the monsoon season. Journal of Geophysical Research: Oceans, 2015, 120, 597-607.	2.6	16
95	A HYBRID NUMERICAL MODEL FOR COASTAL ENGINEERING PROBLEMS. Coastal Engineering Proceedings, 2015, 1, 60.	0.1	7
96	Has upwelling strengthened along worldwide coasts over 1982-2010?. Scientific Reports, 2015, 5, 10016.	3.3	109
97	Hybridization of the Wave Propagation Model SWASH and the Meshfree Particle Method SPH for Real Coastal Applications. Coastal Engineering Journal, 2015, 57, 1550024-1-1550024-34.	1.9	50
98	A Smooth Particle Hydrodynamics discretization for the modelling of free surface flows and rigid body dynamics. International Journal for Numerical Methods in Fluids, 2015, 78, 581-593.	1.6	66
99	Applicability of Smoothed Particle Hydrodynamics for estimation of sea wave impact on coastal structures. Coastal Engineering, 2015, 96, 1-12.	4.0	189
100	DualSPHysics: Open-source parallel CFD solver based on Smoothed Particle Hydrodynamics (SPH). Computer Physics Communications, 2015, 187, 204-216.	7.5	549
101	Analysis of the influence of river discharge and wind on the Ebro turbid plume using MODIS-Aqua and MODIS-Terra data. Journal of Marine Systems, 2015, 142, 40-46.	2.1	41
102	Mixed Layer Depth Trends in the Bay of Biscay over the Period 1975â€“2010. PLoS ONE, 2014, 9, e99321.	2.5	8
103	Integration of UAV Photogrammetry and SPH Modelling of Fluids to Study Runoff on Real Terrains. PLoS ONE, 2014, 9, e111031.	2.5	24
104	Unusual Circulation Patterns of the Rias Baixas Induced by Minho Freshwater Intrusion (NW of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	11
105	Chapter 8 The NW Iberian continental shelf. Geological Society Memoir, 2014, 41, 91-108.	1.7	6
106	Outside the paradigm of upwelling rias in NW Iberian Peninsula: Biogeochemical and phytoplankton patterns of a non-upwelling ria. Estuarine, Coastal and Shelf Science, 2014, 138, 1-13.	2.1	11
107	Assessment of chlorophyll variability along the northwestern coast of Iberian Peninsula. Journal of Sea Research, 2014, 93, 2-11.	1.6	22
108	Comparison of different wind products and buoy wind data with seasonality and interannual climate variability in the southern Bay of Biscay (2000â€“2009). Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 106, 38-48.	1.4	53

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109	Numerical modelling of armour block sea breakwater with smoothed particle hydrodynamics. Computers and Structures, 2014, 130, 34-45.	4.4	125
110	WRF wind simulation and wind energy production estimates forced by different reanalyses: Comparison with observed data for Portugal. Applied Energy, 2014, 117, 116-126.	10.1	193
111	Offshore wind energy resource simulation forced by different reanalyses: Comparison with observed data in the Iberian Peninsula. Applied Energy, 2014, 134, 57-64.	10.1	98
112	Observation of a turbid plume using MODIS imagery: The case of Douro estuary (Portugal). Remote Sensing of Environment, 2014, 154, 127-138.	11.0	34
113	Sensitivity of the WRF model wind simulation and wind energy production estimates to planetary boundary layer parameterizations for onshore and offshore areas in the Iberian Peninsula. Applied Energy, 2014, 135, 234-246.	10.1	115
114	Modeling the Minho River plume intrusion into the Rias Baixas (NW Iberian Peninsula). Continental Shelf Research, 2014, 85, 30-41.	1.8	26
115	Influence of the Minho River plume on the Rias Baixas (NW of the Iberian Peninsula). Journal of Marine Systems, 2014, 139, 248-260.	2.1	16
116	Comparison of reanalyzed, analyzed, satellite-retrieved and NWP modelled winds with buoy data along the Iberian Peninsula coast. Remote Sensing of Environment, 2014, 152, 480-492.	11.0	81
117	Upwelling influence on the number of extreme hot SST days along the Canary upwelling ecosystem. Journal of Geophysical Research: Oceans, 2014, 119, 3029-3040.	2.6	15
118	Thermohaline trends in the Bay of Biscay from Argo floats over the decade 2004â€“2013. Journal of Marine Systems, 2014, 139, 159-165.	2.1	5
119	Assessing the response of exploited marine populations in a context of rapid climate change: the case of blackspot seabream from the Strait of Gibraltar. Animal Biodiversity and Conservation, 2014, 37, 35-47.	0.5	13
120	Comparison between CCMP, QuikSCAT and buoy winds along the Iberian Peninsula coast. Remote Sensing of Environment, 2013, 137, 173-183.	11.0	40
121	Smoothed Particle Hydrodynamics for coastal engineering problems. Computers and Structures, 2013, 120, 96-106.	4.4	77
122	Optimization strategies for CPU and GPU implementations of a smoothed particle hydrodynamics method. Computer Physics Communications, 2013, 184, 617-627.	7.5	129
123	Changes in ENACW observed in the Bay of Biscay over the period 1975â€“2010. Continental Shelf Research, 2013, 65, 73-80.	1.8	5
124	Assessment of Wind Pattern Accuracy from the QuikSCAT Satellite and the WRF Model along the Galician Coast (Northwest Iberian Peninsula). Monthly Weather Review, 2013, 141, 742-753.	1.4	22
125	Recent and historical range shifts of two canopy-forming seaweeds in North Spain and the link with trends in sea surface temperature. Acta Oecologica, 2013, 51, 1-10.	1.1	69
126	New multi-GPU implementation for smoothed particle hydrodynamics on heterogeneous clusters. Computer Physics Communications, 2013, 184, 1848-1860.	7.5	142

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127	Influence of upwelling events on the estuaries of the north-western coast of the Iberian Peninsula. Marine and Freshwater Research, 2013, 64, 1123.	1.3	8
128	Combined Effects of the North Atlantic Oscillation and the Arctic Oscillation on Sea Surface Temperature in the AlborÃ¡n Sea. PLoS ONE, 2013, 8, e62201.	2.5	34
129	Smoothed particle hydrodynamics applied in fluid structure interactions. WIT Transactions on the Built Environment, 2013, , .	0.0	2
130	Analysis of the effect of atmospheric oscillations on physical condition of preâ€“reproductive bluefin tuna from the Strait of Gibraltar. Animal Biodiversity and Conservation, 2013, 36, 225-233.	0.5	10
131	SPHysics â€“ development of a free-surface fluid solver â€“ Part 1: Theory and formulations. Computers and Geosciences, 2012, 48, 289-299.	4.2	270
132	SPHysics â€“ development of a free-surface fluid solver â€“ Part 2: Efficiency and test cases. Computers and Geosciences, 2012, 48, 300-307.	4.2	110
133	Differences in coastal and oceanic SST warming rates along the Canary upwelling ecosystem from 1982 to 2010. Continental Shelf Research, 2012, 47, 1-6.	1.8	53
134	Ocean surface wind simulation forced by different reanalyses: Comparison with observed data along the Iberian Peninsula coast. Ocean Modelling, 2012, 56, 31-42.	2.4	62
135	Variability of Coastal and Ocean Water Temperature in the Upper 700 m along the Western Iberian Peninsula from 1975 to 2006. PLoS ONE, 2012, 7, e50666.	2.5	20
136	Differences in coastal and oceanic SST trends due to the strengthening of coastal upwelling along the Benguela current system. Continental Shelf Research, 2012, 34, 79-86.	1.8	65
137	The influence of summer upwelling at the western boundary of the Cantabrian coast. Estuarine, Coastal and Shelf Science, 2012, 98, 138-144.	2.1	11
138	A sensitivity study of the WRF model in wind simulation for an area of high wind energy. Environmental Modelling and Software, 2012, 33, 23-34.	4.5	240
139	Atmospheric modes influence on Iberian Poleward Current variability. Continental Shelf Research, 2011, 31, 425-432.	1.8	20
140	Comparative analysis of upwelling influence between the western and northern coast of the Iberian Peninsula. Continental Shelf Research, 2011, 31, 388-399.	1.8	100
141	Coastal processes in northwestern Iberia, Spain. Continental Shelf Research, 2011, 31, 367-375.	1.8	12
142	Coastal and oceanic SST variability along the western Iberian Peninsula. Continental Shelf Research, 2011, 31, 2012-2017.	1.8	29
143	Predictability of the spring rainfall in Northwestern Iberian Peninsula from sea surfaces temperature of ENSO areas. Climatic Change, 2011, 107, 329-341.	3.6	22
144	Neighbour lists in smoothed particle hydrodynamics. International Journal for Numerical Methods in Fluids, 2011, 67, 2026-2042.	1.6	115

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145	GPUs, a New Tool of Acceleration in CFD: Efficiency and Reliability on Smoothed Particle Hydrodynamics Methods. PLoS ONE, 2011, 6, e20685.	2.5	175
146	The state of climate in NW Iberia. Climate Research, 2011, 48, 109-144.	1.1	77
147	Upwelling along the western coast of the Iberian Peninsula: dependence of trends on fitting strategy. Climate Research, 2011, 48, 213-218.	1.1	43
148	Effects of heat waves on human mortality, Galicia, Spain. Climate Research, 2011, 48, 333-341.	1.1	20
149	Regional climate change in the NW Iberian Peninsula. Climate Research, 2011, 48, 105-108.	1.1	5
150	Relationship between monthly rainfall in northwest Iberian Peninsula and North Atlantic sea surface temperature. International Journal of Climatology, 2010, 30, 980-990.	3.5	12
151	Summer upwelling frequency along the western Cantabrian coast from 1967 to 2007. Journal of Marine Systems, 2010, 79, 218-226.	2.1	47
152	Poleward intrusion in the northern Galician shelf. Estuarine, Coastal and Shelf Science, 2010, 87, 545-552.	2.1	4
153	State-of-the-art of classical SPH for free-surface flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 6-27.	1.7	281
154	SMOOTHED PARTICLE HYDRODYNAMICS FOR WATER WAVES. Series on Quality, Reliability and Engineering Statistics, 2010, , 465-495.	0.2	5
155	Foreword: SPH for free-surface flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 3-5.	1.7	39
156	Oceanographical patterns during a summer upwellingâ€“downwelling event in the Northern Galician Rias: Comparison with the whole Ria system (NW of Iberian Peninsula). Continental Shelf Research, 2010, 30, 1362-1372.	1.8	34
157	SPHysics-FUNWAVE hybrid model for coastal wave propagation. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 85-93.	1.7	43
158	A winter upwelling event in the Northern Galician Rias: Frequency and oceanographic implications. Estuarine, Coastal and Shelf Science, 2009, 82, 573-582.	2.1	41
159	Present warming within the context of coolingâ€“warming cycles observed since 1854 in the Bay of Biscay. Continental Shelf Research, 2009, 29, 1053-1059.	1.8	48
160	State-of-the-art of classical SPH for free-surface flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 48, 000.	1.7	9
161	Spatioâ€temporal Upwelling Trends along the Canary Upwelling System (1967â€“2006). Annals of the New York Academy of Sciences, 2008, 1146, 320-337.	3.8	37
162	Ekman transport along the Galician Coast (NW, Spain) calculated from QuikSCAT winds. Journal of Marine Systems, 2008, 72, 101-115.	2.1	41

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163	Characterization of fallâ€“winter upwelling recurrence along the Galician western coast (NW Spain) from 2000 to 2005: Dependence on atmospheric forcing. Journal of Marine Systems, 2008, 72, 145-158.	2.1	36
164	Use of a probabilistic particle tracking model to simulate the Prestige oil spill. Journal of Marine Systems, 2008, 72, 159-166.	2.1	18
165	Hybridation of generation propagation models and SPH model to study severe sea states in Galician Coast. Journal of Marine Systems, 2008, 72, 135-144.	2.1	8
166	Comparative analysis between operational weather prediction models and QuikSCAT wind data near the Galician coast. Journal of Marine Systems, 2008, 72, 256-270.	2.1	30
167	Modeling Dam Break Behavior over a Wet Bed by a SPH Technique. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 313-320.	1.2	136
168	Coastal sea surface temperature warming trend along the continental part of the Atlantic Arc (1985â€“2005). Journal of Geophysical Research, 2008, 113, .	3.3	79
169	Spatiotemporal evolution of upwelling regime along the western coast of the Iberian Peninsula. Journal of Geophysical Research, 2008, 113, .	3.3	71
170	Influence of atmospheric modes on coastal upwelling along the western coast of the Iberian Peninsula, 1985 to 2005. Climate Research, 2008, 36, 169-179.	1.1	50
171	3D SPH Simulation of large waves mitigation with a dike. Journal of Hydraulic Research/De Recherches Hydrauliques, 2007, 45, 631-642.	1.7	82
172	Consequences of winter upwelling events on biogeochemical and phytoplankton patterns in a western Galician ria (NW Iberian peninsula). Estuarine, Coastal and Shelf Science, 2007, 73, 409-422.	2.1	50
173	Ekman transport along the Galician coast (northwest Spain) calculated from forecasted winds. Journal of Geophysical Research, 2006, 111, .	3.3	66
174	Hydrographic and atmospheric analysis of an autumnal upwelling event in the Ria of Vigo (NW Iberian) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.1	33
175	MiÃ±o River dams discharge on neighbor Galician Rias Baixas (NW Iberian Peninsula): Hydrological, chemical and biological changes in water column. Estuarine, Coastal and Shelf Science, 2006, 70, 52-62.	2.1	18
176	Seasonal evolution of the transverse thermohaline asymmetry in the Ria de Pontevedra (northwestern Spain). Estuarine, Coastal and Shelf Science, 2006, 70, 673-681.	2.1	2
177	Hydrographic behavior of the Galician Rias Baixas (NW Spain) under the spring intrusion of the MiÃ±o River. Journal of Marine Systems, 2006, 60, 144-152.	2.1	20
178	Kinematic description of wave propagation through a chemical diode. Chaos, 2006, 16, 033110.	2.5	3
179	Influence of teleconnection patterns on precipitation variability and on river flow regimes in the MiÃ±o River basin (NW Iberian Peninsula). Climate Research, 2006, 32, 63-73.	1.1	38
180	Green water overtopping analyzed with a SPH model. Ocean Engineering, 2005, 32, 223-238.	4.3	162

#	Article	IF	Citations
181	Variation in upwelling intensity along the NorthWest Iberian Peninsula (Galicia). Vital, 2005, 10, 309-324.	0.0	8
182	Atmospheric forcing of ocean dynamics along the Iberian Atlantic margin. Vital, 2005, 10, 307-308.	0.0	0
183	Inter- and intra-annual analysis of the salinity and temperature evolution in the Galician RÃas Baixasâ€“ocean boundary (northwest Spain). Journal of Geophysical Research, 2005, 110, .	3.3	75
184	Transient oceanic and tidal contributions to water exchange and residence times in a coastal upwelling system in the NE Atlantic: the Pontevedra Ria, Galicia. Marine Pollution Bulletin, 2004, 49, 235-248.	5.0	14
185	Negative estuarine circulation in the Ria of Pontevedra (NW Spain). Estuarine, Coastal and Shelf Science, 2004, 60, 301-312.	2.1	39
186	Riaâ€“ocean exchange driven by tides in the Ria of Ferrol (NW Spain). Estuarine, Coastal and Shelf Science, 2004, 61, 15-24.	2.1	26
187	Using a Three-Dimensional Smoothed Particle Hydrodynamics Method for Wave Impact on a Tall Structure. Journal of Waterway, Port, Coastal and Ocean Engineering, 2004, 130, 63-69.	1.2	231
188	Wind influence on water exchange between the ria of Ferrol (NW Spain) and the shelf. Estuarine, Coastal and Shelf Science, 2003, 56, 1055-1064.	2.1	21
189	Hydrographic characterization of a winter-upwelling event in the Ria of Pontevedra (NW Spain). Estuarine, Coastal and Shelf Science, 2003, 56, 869-876.	2.1	56
190	Dependence of the water residence time in Ria of Pontevedra (NW Spain) on the seawater inflow and the river discharge. Estuarine, Coastal and Shelf Science, 2003, 58, 567-573.	2.1	31
191	Nucleation from the Boundaries in Excitable Media. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 2733-2737.	1.7	0
192	Unidirectional mechanism for reentrant activity generation in excitable media. Physical Review E, 2002, 66, 016215.	2.1	10
193	Influence of the Barrie de la Maza dock on the circulation pattern of the RÃa of A CoruÃ±a (NW-Spain). Scientia Marina, 2002, 66, 337-346.	0.6	6
194	Hydrography of the Pontevedra Ria: Intra-annual spatial and temporal variability in a Galician coastal system (NW Spain). Journal of Geophysical Research, 2001, 106, 19845-19857.	3.3	55
195	An Unusual Two Layered Tidal Circulation Induced by Stratification and Wind in the RÄ±Ìa of Pontevedra (NW Spain). Estuarine, Coastal and Shelf Science, 2001, 52, 555-563.	2.1	28
196	Using Parasites as Biological Tags of Fish Populations: A Dynamical Model. Bulletin of Mathematical Biology, 2000, 62, 87-99.	1.9	9
197	Termination of reentry by infra- and supra-threshold pulses. Chaos, Solitons and Fractals, 2000, 11, 2031-2038.	5.1	1
198	Wind and Tidal Influence on Water Circulation in a Galician Ria (NW Spain). Estuarine, Coastal and Shelf Science, 2000, 51, 161-176.	2.1	63

#	Article	IF	Citations
199	Brownian Motion of Spiral Waves Driven by Spatiotemporal Structured Noise. Physical Review Letters, 2000, 84, 2734-2737.	7.8	73
200	EFFECTS OF A QUENCHED DISORDER ON WAVE PROPAGATION IN EXCITABLE MEDIA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2353-2361.	1.7	2
201	ON THE ROLE OF RANDOM TRANSVERSAL UNCOUPLING ON RE-ENTRY FORMATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2231-2236.	1.7	0
202	Comparison between the role of discontinuities in cardiac conduction and in a one-dimensional hardware model. Physical Review E, 1999, 59, 5962-5969.	2.1	11
203	Experimental Chua's circuit arrays as an autowave simulator. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1999, 46, 495-499.	0.1	9
204	A two-dimensional particle tracking model for pollution dispersion in A CoruÃ±a and Vigo Rias (NW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 22, 167-177.	0.7	55
205	Evaluation of the Seasonal Variations in the Residual Circulation in the RÃ±Ìa of Vigo (NW Spain) by Means of a 3D Baroclinic Model. Estuarine, Coastal and Shelf Science, 1998, 47, 661-670.	2.1	48
206	Percolation thresholds in chemical disordered excitable media. Physical Review E, 1998, 58, R1183-R1186.	2.1	15
207	Influence of the distance on the interaction between an autonomous pacemaker and a reentry. Physical Review E, 1998, 57, 949-954.	2.1	9
208	DIE VERWENDUNG VON CHUA-SCHALTKREISEN ZUR SIMULATION VON ERREGUNGSAUSBREITUNGSVORGÃ„NGEN. Biomedizinische Technik, 1998, 43, 141-143.	0.8	0
209	Drift of Interacting Asymmetrical Spiral Waves. Physical Review Letters, 1997, 78, 779-782.	7.8	18
210	Wave competition in excitable modulated media. Physical Review E, 1997, 56, 6298-6301.	2.1	18
211	Link between the effect of an electric field on wave propagation and the curvature-velocity relation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 231, 389-394.	2.1	7
212	General properties of the electric-field-induced vortex drift in excitable media. Chaos, Solitons and Fractals, 1996, 7, 585-595.	5.1	16
213	Use of V-shaped stable patterns to study high negative curvature-velocity dependence of an excitable medium. Physica D: Nonlinear Phenomena, 1996, 94, 148-156.	2.8	6
214	CONTINUOUS CONDUCTIVE VOLUME AFFECTS THE PROPAGATION OF SIGNALS IN DISCRETE SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 1829-1835.	1.7	6
215	INTERACTION OF RE-ENTRIES IN COUPLED PARALLEL FIBERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 1725-1734.	1.7	2
216	Long-term vortex interaction in active media. Physical Review E, 1996, 54, 2999-3002.	2.1	21

#	Article	IF	Citations
217	Frequency-modulated autowaves in excitable media. Physical Review E, 1996, 54, R5921-R5924.	2.1	7
218	Boundary-imposed spiral drift. Physical Review E, 1996, 53, 5480-5483.	2.1	21
219	An Oregonator based model for the influence of a radial electric field on the dynamics of spiral waves. , 1996, , 965-976.		0
220	Sidewall forcing of hexagonal Turing patterns: rhombic patterns. Physica D: Nonlinear Phenomena, 1995, 82, 195-204.	2.8	9
221	@sV-shaped stable nonspiral patterns. Physical Review E, 1995, 51, R845-R847.	2.1	18
222	SPATIOTEMPORAL STRUCTURES IN DISCRETELY-COUPLED ARRAYS OF NONLINEAR CIRCUITS: A REVIEW. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 17-50.	1.7	83
223	ELECTRIC FIELD INFLUENCE ON TRAVELING WAVE PROPAGATION AND STATIONARY PATTERN FORMATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 797-807.	1.7	4
224	Study of reentry initiation in coupled parallel fibers [cardiology]. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1995, 42, 665-671.	0.1	22
225	Coexistence of excitability, Hopf and Turing modes in a one-dimensional array of nonlinear circuits. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1995, 42, 672-677.	0.1	3
226	RELAXATION BEHAVIOR AND PATTERN FORMATION IN REACTION-DIFFUSION SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 1183-1191.	1.7	4
227	A method for spiral wave generation in the Belousov-Zhabotinsky reaction. European Journal of Physics, 1994, 15, 221-227.	0.6	6
228	SPIRAL FORMATION IN A BELOUSOV-ZHABOTINSKY MEDIUM BY PREMATURE RE-EXCITATION: VULNERABILITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 1193-1204.	1.7	4
229	MECHANISM OF PARAMETRIC RESONANCE OF VORTICES IN EXCITABLE MEDIA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 1245-1256.	1.7	7
230	Influence of the critical curvature on spiral initiation in an excitable medium. Physical Review E, 1994, 50, 4646-4649.	2.1	19
231	Parametric resonance of a vortex in an active medium. Physical Review E, 1994, 50, 4258-4261.	2.1	56
232	Spiral breakup induced by an electric current in a Belousovâ€“Zhabotinsky medium. Chaos, 1994, 4, 519-524.	2.5	50
233	Travelling wave splitting in a highly nonlinear phase equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 181, 453-458.	2.1	1
234	A geometrical-kinematical approach to spiral wave formation: super-spiral waves. Physica D: Nonlinear Phenomena, 1993, 64, 420-430.	2.8	13

#	Article	IF	Citations
235	Mechanism of the electric-field-induced vortex drift in excitable media. Physical Review E, 1993, 48, R3232-R3235.	2.1	37
236	TRAVELING WAVE PROPAGATION IN A ONE-DIMENSIONAL FLUCTUATING MEDIUM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1993, 03, 211-215.	1.7	7
237	An analytical-numerical technique for solving non-linear differential equations in Fourier space. European Journal of Physics, 1992, 13, 9-13.	0.6	2
238	Collapse of wave fronts in reaction-diffusion systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 168, 133-139.	2.1	1
239	An electronic real-time model of one-dimensional discontinuous conduction of the cardiac impulse realized with Chua's circuits. , 0, , .		0
240	Preservation of the cultural heritage from floods using the numerical code Iber . , 0, , .		1