

# Ramiro J J Neves

## List of Publications by Year in descending order

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112  
papers

2,737  
citations

186265

28  
h-index

214800

47  
g-index

123  
all docs

123  
docs citations

123  
times ranked

3316  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D modelling in the Sado estuary using a new generic vertical discretization approach. <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 2001, 24, 51-62.	0.7	145
2	Predicting the consequences of nutrient reduction on the eutrophication status of the North Sea. <i>Journal of Marine Systems</i> , 2010, 81, 148-170.	2.1	131
3	A methodology to estimate renewal time scales in estuaries: the Tagus Estuary case. <i>Ocean Dynamics</i> , 2003, 53, 137-145.	2.2	104
4	A novel approach to analysing the regimes of temporary streams in relation to their controls on the composition and structure of aquatic biota. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3165-3182.	4.9	101
5	Reducing marine eutrophication may require a paradigmatic change. <i>Science of the Total Environment</i> , 2018, 635, 1444-1466.	8.0	92
6	Management of coastal eutrophication: Integration of field data, ecosystem-scale simulations and screening models. <i>Journal of Marine Systems</i> , 2005, 56, 375-390.	2.1	88
7	Modelling macroalgae using a 3D hydrodynamic-ecological model in a shallow, temperate estuary. <i>Ecological Modelling</i> , 2005, 187, 232-246.	2.5	81
8	Benthic biodiversity patterns in Ria de Aveiro, Western Portugal: Environmental-biological relationships. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 95, 338-348.	2.1	72
9	A model for ocean circulation on the Iberian coast. <i>Journal of Marine Systems</i> , 2002, 32, 153-179.	2.1	69
10	Effect of coastal waves on sea level in Ã“bidos Lagoon, Portugal. <i>Continental Shelf Research</i> , 2009, 29, 1240-1250.	1.8	66
11	Predicting the effectiveness of different mulching techniques in reducing post-fire runoff and erosion at plot scale with the RUSLE, MMF and PÉSERA models. <i>Environmental Research</i> , 2018, 165, 365-378.	7.5	64
12	An operational model for the West Iberian coast: products and services. <i>Ocean Science</i> , 2012, 8, 713-732.	3.4	62
13	A two-dimensional particle tracking model for pollution dispersion in A Coruña and Vigo Rias (NW) Tj ETQq1 1 0.784314 rgBT /Overl 22, 167-177.	0.7	55
14	Hydrodynamic and sediment suspension modelling in estuarine systems. <i>Journal of Marine Systems</i> , 1999, 22, 105-116.	2.1	55
15	Modelling the influence of nutrient loads on Portuguese estuaries. <i>Hydrobiologia</i> , 2007, 587, 5-18.	2.0	54
16	Understanding multiple stressors in a Mediterranean basin: Combined effects of land use, water scarcity and nutrient enrichment. <i>Science of the Total Environment</i> , 2018, 624, 1221-1233.	8.0	54
17	Residence time of water in the Mondego estuary (Portugal). <i>Estuarine, Coastal and Shelf Science</i> , 2012, 106, 13-22.	2.1	53
18	Modelling the main features of the Algarve coastal circulation during July 2004: A downscaling approach. <i>Vital</i> , 2005, 10, 421-462.	0.0	50

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19	An advanced modelling tool for simulating complex river systems. <i>Science of the Total Environment</i> , 2009, 407, 3004-3016.	8.0	49
20	Hydrodynamic and sediment suspension modelling in estuarine systems. <i>Journal of Marine Systems</i> , 1999, 22, 117-131.	2.1	46
21	Mercury levels assessment in hair of riverside inhabitants of the Tapaj�s River, Par� State, Amazon, Brazil: Fish consumption as a possible route of exposure. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015, 30, 66-76.	3.0	46
22	Modelling soil water and maize growth dynamics influenced by shallow groundwater conditions in the Sorraia Valley region, Portugal. <i>Agricultural Water Management</i> , 2017, 185, 27-42.	5.6	46
23	Three-dimensional model for analysis of spatial and temporal patterns of phytoplankton in Tucuru�-reservoir, Par�, Brazil. <i>Ecological Modelling</i> , 2013, 253, 28-43.	2.5	39
24	Impact evaluation of a pisciculture in the Tucuru�-reservoir (Par�, Brazil) using a two-dimensional water quality model. <i>Journal of Hydrology</i> , 2013, 487, 1-12.	5.4	38
25	Modelling of cohesive sediment dynamics in tidal estuarine systems: Case study of Tagus estuary, Portugal. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 151, 34-44.	2.1	34
26	Influence of tide and waves on water renewal in �bidos Lagoon, Portugal. <i>Ocean Dynamics</i> , 2010, 60, 41-55.	2.2	32
27	Nutrient dynamics in Mediterranean temporary streams: A case study in Pardielas catchment (Degebe) Tj ETQq1 1 0,784314 rgBT /Ove 1.5 81	1.5	31
28	Integrated coastal zone management in South America: A look at three contrasting systems. <i>Ocean and Coastal Management</i> , 2013, 72, 22-35.	4.4	31
29	IrrigaSys: A web-based irrigation decision support system based on open source data and technology. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105822.	7.7	31
30	Towards improved accuracy in modeling aeration efficiency through understanding bubble size distribution dynamics. <i>Water Research</i> , 2018, 131, 346-355.	11.3	30
31	Investigating hydrological regimes and processes in a set of catchments with temporary waters in Mediterranean Europe. <i>Hydrological Sciences Journal</i> , 2008, 53, 618-628.	2.6	28
32	Towards advanced aeration modelling: from blower to bubbles to bulk. <i>Water Science and Technology</i> , 2017, 75, 507-517.	2.5	26
33	The autonomous Simpatico system for real-time continuous water-quality and current velocity monitoring: examples of application in three Portuguese estuaries. <i>Geo-Marine Letters</i> , 2009, 29, 331-341.	1.1	25
34	Spatially distributed modelling of surface water-groundwater exchanges during overbank flood events � a case study at the Garonne River. <i>Advances in Water Resources</i> , 2016, 94, 146-159.	3.8	25
35	Sensitivity of river fishes to climate change: The role of hydrological stressors on habitat range shifts. <i>Science of the Total Environment</i> , 2016, 562, 435-445.	8.0	25
36	Integrating operational watershed and coastal models for the Iberian Coast: Watershed model implementation � A first approach. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 167, 138-146.	2.1	24

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37	Modeling SST and chlorophyll patterns in a coupled estuary-coastal system of Portugal: The Tagus case study. <i>Journal of Marine Systems</i> , 2015, 147, 123-137.	2.1	23
38	Numerical modelling of suspended sediment transport in tidal estuaries: A comparison between the Tagus (Portugal) and the Scheldt (Belgium-the Netherlands). <i>Netherlands Journal of Aquatic Ecology</i> , 1994, 28, 329-335.	0.3	22
39	The object-oriented design of the integrated water modelling system MOHID. <i>Developments in Water Science</i> , 2004, 55, 1079-1090.	0.1	22
40	Coupling watersheds, estuaries and regional ocean through numerical modelling for Western Iberia: a novel methodology. <i>Ocean Dynamics</i> , 2016, 66, 1745-1756.	2.2	22
41	Wind influence on water exchange between the ria of Ferrol (NW Spain) and the shelf. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 1055-1064.	2.1	21
42	Integrated modelling for water quality management in a eutrophic reservoir in south-eastern Portugal. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	21
43	Using a Hydrologic Model to Assess the Performance of Regional Climate Models in a Semi-Arid Watershed in Brazil. <i>Water (Switzerland)</i> , 2019, 11, 170.	2.7	21
44	Different modelling approaches to evaluate nitrogen transport and turnover at the watershed scale. <i>Journal of Hydrology</i> , 2016, 539, 478-494.	5.4	20
45	Modelling of sediment transport and morphological evolution under the combined action of waves and currents. <i>Ocean Science</i> , 2017, 13, 673-690.	3.4	20
46	Modelling trace metal transfer in large rivers under dynamic hydrology: A coupled hydrodynamic and chemical equilibrium model. <i>Environmental Modelling and Software</i> , 2017, 89, 77-96.	4.5	19
47	Using a Hierarchical Approach to Calibrate SWAT and Predict the Semi-Arid Hydrologic Regime of Northeastern Brazil. <i>Water (Switzerland)</i> , 2018, 10, 1137.	2.7	19
48	Evaluating light and nutrient limitation in the Tagus estuary using a process-oriented ecological model. <i>Journal of Marine Engineering and Technology</i> , 2008, 7, 43-54.	4.1	18
49	A circulation model for the European ocean margin. <i>Applied Mathematical Modelling</i> , 2002, 26, 563-582.	4.2	17
50	A process-oriented model of pelagic biogeochemistry for marine systems. Part II: Application to a mesotidal estuary. <i>Journal of Marine Systems</i> , 2012, 94, S90-S101.	2.1	17
51	A simple multi-criteria approach to delimitate nitrate attenuation zones in alluvial floodplains. Four cases in south-western Europe. <i>Ecological Engineering</i> , 2017, 103, 315-331.	3.6	17
52	Numerical Simulation of Soil Water Dynamics Under Stationary Sprinkler Irrigation With Mohidã€Land. <i>Irrigation and Drainage</i> , 2016, 65, 98-111.	1.7	16
53	Modeling Soil Water Dynamics and Pasture Growth in the Montado Ecosystem Using MOHID Land. <i>Water (Switzerland)</i> , 2018, 10, 489.	2.7	16
54	From regional to local scale modelling on the south-eastern Brazilian shelf: case study of Paranaguã; estuarine system. <i>Brazilian Journal of Oceanography</i> , 2016, 64, 277-294.	0.6	15

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55	The role of bivalves in the Balgzand: First steps on an integrated modelling approach. <i>Ecological Modelling</i> , 2017, 359, 34-48.	2.5	15
56	Influence of reservoir management on Guadiana streamflow regime. <i>Journal of Hydrology: Regional Studies</i> , 2019, 25, 100628.	2.4	15
57	From Eutrophic to Mesotrophic: Modelling Watershed Management Scenarios to Change the Trophic Status of a Reservoir. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 3015-3031.	2.6	14
58	Modeling water quality in reservoirs used for angling competition: Can groundbait contribute to eutrophication?. <i>Lake and Reservoir Management</i> , 2013, 29, 257-269.	1.3	13
59	Validation of the 3D-MOHID Hydrodynamic Model for the Tagus Coastal Area. <i>Water (Switzerland)</i> , 2019, 11, 1713.	2.7	13
60	Modelling the thermal effluent of a near coast power plant (Sines, Portugal). <i>Journal of Integrated Coastal Zone Management</i> , 2015, 15, 533-544.	0.1	13
61	A reach-scale biogeochemical model for temporary rivers. <i>Hydrological Processes</i> , 2009, 23, 272-283.	2.6	12
62	Is it relevant to explicitly parameterize chlorophyll synthesis in marine ecological models?. <i>Journal of Marine Systems</i> , 2012, 94, S23-S33.	2.1	12
63	Combining operational models and data into a dynamic vessel risk assessment tool for coastal regions. <i>Ocean Science</i> , 2016, 12, 285-317.	3.4	12
64	Development and validation of a morphological model for multiple sediment classes. <i>International Journal of Sediment Research</i> , 2017, 32, 585-596.	3.5	12
65	Modeling flood dynamics in a temporary river draining to an eutrophic reservoir in southeast Portugal. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	12
66	Water Quantity and Quality under Future Climate and Societal Scenarios: A Basin-Wide Approach Applied to the Sorraia River, Portugal. <i>Water (Switzerland)</i> , 2018, 10, 1186.	2.7	12
67	Assessing the Impact of LAI Data Assimilation on Simulations of the Soil Water Balance and Maize Development Using MOHID-Land. <i>Water (Switzerland)</i> , 2018, 10, 1367.	2.7	12
68	Subtidal variability of the Tagus river plume in winter 2013. <i>Science of the Total Environment</i> , 2018, 627, 1353-1362.	8.0	12
69	Simulating vertical water mixing in homogeneous estuaries: [2pt] the SADO Estuary case. <i>Hydrobiologia</i> , 2002, 475/476, 221-227.	2.0	11
70	Coastal Ocean Observing and Modeling Systems in Brazil: Initiatives and Future Perspectives. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	11
71	Integrated monitoring of South Portugal water bodies: a methodology towards WFD. <i>Water Science and Technology</i> , 2009, 60, 1979-1988.	2.5	10
72	3D-numerical modelling of cohesive suspended sediment in the Western Scheldt estuary (The Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.3	9

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73	Advances in Modeling of Water Quality in Estuaries. Coastal Research Library, 2014, , 237-276.	0.4	9
74	An Integrated Analysis of the Eutrophication Process in the Enxô reservoir within the DPSIR Framework. Water (Switzerland), 2018, 10, 1576.	2.7	9
75	Assessing Water and Nutrient Long-Term Dynamics and Loads in the Enxô Temporary River Basin (Southeast Portugal). Water (Switzerland), 2019, 11, 354.	2.7	9
76	Water fluxes and renewal rates at Pertuis d'Antioche/Marennes-Oléron Bay, France. Estuarine, Coastal and Shelf Science, 2015, 167, 32-44.	2.1	8
77	MODELLING TOOLS TO SUPPORT AN EARLY ALERT SYSTEM FOR BATHING WATER QUALITY. Environmental Engineering and Management Journal, 2012, 11, 907-918.	0.6	8
78	On the Choice of Linear Regression Algorithms for Biological and Ecological Applications. Annual Research & Review in Biology, 2016, 10, 1-9.	0.4	8
79	Characterisation of the Bahía Blanca estuary by data analysis and numerical modelling. Journal of Marine Systems, 2014, 129, 415-424.	2.1	7
80	Floodplain capacity to depollute water in relation to the structure of biological communities. Ecological Engineering, 2017, 103, 301-314.	3.6	7
81	A semi-implicit tidal model of the North European Continental Shelf. Applied Mathematical Modelling, 1985, 9, 395-402.	4.2	6
82	Modelling Seagrass Biomass and Relative Nutrient Content. Journal of Coastal Research, 2013, 29, 1470.	0.3	6
83	Trophic state evaluation after urban loads diversion in a eutrophic coastal lagoon (Ábidos Lagoon,) Tj ETQq1 1 0.784314 rgBT /Overl	2.0	6
84	Sensitivity Analysis of the MOHID-Land Hydrological Model: A Case Study of the Ulla River Basin. Water (Switzerland), 2020, 12, 3258.	2.7	6
85	The Tagus Estuary as a Numerical Modeling Test Bed: A Review. Geosciences (Switzerland), 2020, 10, 4.	2.2	6
86	Improving 3D-MOHID water model with an upscaling algorithm. Environmental Modelling and Software, 2021, 135, 104920.	4.5	6
87	A different approach to the modified Picard method for water flow in variably saturated media. Developments in Water Science, 2004, , 557-567.	0.1	5
88	Mechanistic approach for oyster growth prediction under contrasting culturing conditions. Aquaculture, 2020, 522, 735105.	3.5	5
89	NUMERICAL MODELS AS DECISION SUPPORT TOOLS IN COASTAL AREAS. , 2007, , 171-195.		4
90	Water-air CO2 fluxes in the Tagus estuary plume (Portugal) during two distinct winter episodes. Carbon Balance and Management, 2015, 10, 2.	3.2	4

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91	Coupling Watersheds, Estuaries and Regional Oceanography through Numerical Modelling in the Western Iberia: Thermohaline Flux Variability at the Ocean-Estuary Interface. , 0, , .		4
92	An Integrated Modelling Approach to Study Future Water Demand Vulnerability in the Montargil Reservoir Basin, Portugal. Sustainability, 2019, 11, 206.	3.2	4
93	Modeling investigation of the nutrients and phytoplankton dynamics in the Moroccan Atlantic coast: A case study of Agadir coast. Ecological Modelling, 2021, 447, 109510.	2.5	4
94	Evaluation of the trophic status in a Mediterranean reservoir under climate change: An integrated modelling approach. Journal of Water and Climate Change, 2021, 12, 817-832.	2.9	4
95	The Influence of the River Discharge on Residence Time, Exposure Time and Integrated Water Fractions for the Tagus Estuary (Portugal). Frontiers in Marine Science, 2022, 8, .	2.5	4
96	Wastewater diffusion in the estoril coast: Theoretical calculations and field studies. Water Science and Technology, 1998, 38, 337.	2.5	3
97	A Comprehensive System for Simulating Oil Spill Trajectory and Behaviour in Subsurface and Surface Water Environments. International Oil Spill Conference Proceedings, 2017, 2017, 1251-1266.	0.1	3
98	Toward a qualified process for coastal models: Integrated Development of Applied Systems for Coastal Management (IDeASyCoM). Ocean and Coastal Management, 2012, 69, 307-315.	4.4	2
99	Exploring the Use of Vegetation Indices for Validating Crop Transpiration Fluxes Computed with the MOHID-Land Model. Application to Vineyard. Agronomy, 2021, 11, 1228.	3.0	2
100	AUTOMATED SYSTEM FOR NEAR-REAL TIME PREDICTION OF OIL SPILLS FROM EU SATELLITE-BASED DETECTION SERVICE. International Oil Spill Conference Proceedings, 2017, 2017, 1574-1593.	0.1	2
101	Modeling Streamflow at the Iberian Peninsula Scale Using MOHID-Land: Challenges from a Coarse Scale Approach. Water (Switzerland), 2022, 14, 1013.	2.7	2
102	Integrated Water Management. , 2007, , 421-446.		1
103	Operational decision support system for large combined sewage systems: Lisbon/Tagus estuary case study. Water Science and Technology, 2015, 72, 1421-1427.	2.5	1
104	Coupling Rivers and Estuaries with an Ocean Model: An Improved Methodology. Water (Switzerland), 2021, 13, 2284.	2.7	1
105	Tide and Tidal Currents in the Cape Verde Archipelago. Journal of Integrated Coastal Zone Management, 2015, 15, 395-408.	0.1	1
106	Low-frequency circulation on the Ilha Grande channel, Rio de Janeiro, Brazil. Regional Studies in Marine Science, 2022, 50, 102129.	0.7	1
107	Framework for Improving Land Boundary Conditions in Ocean Regional Products. Journal of Marine Science and Engineering, 2022, 10, 852.	2.6	1
108	Atmospheric forcing of ocean dynamics along the Iberian Atlantic margin. Vital, 2005, 10, 307-308.	0.0	0

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109	Hidrodinâmica da Baía do Lobito. Parte II - Escoamento Baroclínico. Journal of Integrated Coastal Zone Management, 2021, 21, 111-125.	0.1	0
110	Hidrodinâmica da Baía do Lobito. Parte I - Correntes de maré. Journal of Integrated Coastal Zone Management, 2021, 21, 101-110.	0.1	0
111	Análise de Pressões à Escala Espacial numa Bacia Hidrográfica de Características Mediterrâneas (Bacia do Pardela-Guadiana, Portugal) (Analysing Pressures at Spatial Scale in a Mediterranean Basin) <a href="#">Tj ETQq1 1 0084314 rgBT /Ove</a>		
112	Dynamic Risk Assessment of Shoreline Contamination from Ships: Integrating an Oil Spill Model. International Oil Spill Conference Proceedings, 2014, 2014, 299678.	0.1	0