

# Celso Ferreira

## List of Publications by Year in descending order

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107  
papers

1,825  
citations

279798  
23  
h-index

377865  
34  
g-index

112  
all docs

112  
docs citations

112  
times ranked

1990  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined Modeling of US Fluvial, Pluvial, and Coastal Flood Hazard Under Current and Future Climates. <i>Water Resources Research</i> , 2021, 57, e2020WR028673.	4.2	137
2	Heart rate variability measure in breast cancer patients and survivors: A systematic review. <i>Psychoneuroendocrinology</i> , 2016, 68, 57-68.	2.7	69
3	The effects of auditory stimulation with music on heart rate variability in healthy women. <i>Clinics</i> , 2013, 68, 960-967.	1.5	54
4	Significance of Vectorcardiogram in the Cardiological Diagnosis of the 21st Century. <i>Clinical Cardiology</i> , 2007, 30, 319-323.	1.8	53
5	Wave Attenuation by <i>Spartina</i> Saltmarshes in the Chesapeake Bay Under Storm Surge Conditions. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5220-5243.	2.6	53
6	Storm Surge Modeling in Large Estuaries: Sensitivity Analyses to Parameters and Physical Processes in the Chesapeake Bay. <i>Journal of Marine Science and Engineering</i> , 2016, 4, 45.	2.6	48
7	Effects of an isotonic beverage on autonomic regulation during and after exercise. <i>Journal of the International Society of Sports Nutrition</i> , 2013, 10, 2.	3.9	46
8	Potential implications of global warming and barrier island degradation on future hurricane inundation, property damages, and population impacted. <i>Ocean and Coastal Management</i> , 2010, 53, 645-657.	4.4	44
9	The effects of different styles of musical auditory stimulation on cardiac autonomic regulation in healthy women. <i>Noise and Health</i> , 2013, 15, 281.	0.5	42
10	Electrovectrocardiographic Diagnosis of Left Septal Fascicular Block: Anatomic and Clinical Considerations. <i>Annals of Noninvasive Electrocardiology</i> , 2011, 16, 196-207.	1.1	41
11	Quantification of the Attenuation of Storm Surge Components by a Coastal Wetland of the US Mid Atlantic. <i>Estuaries and Coasts</i> , 2017, 40, 930-946.	2.2	32
12	Uncertainty in hurricane surge simulation due to land cover specification. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1812-1827.	2.6	31
13	Chronic obstructive pulmonary disease and heart rate variability: a literature update. <i>International Archive of Medicine</i> , 2014, 7, 43.	1.2	31
14	Potential impacts of the Sunderban mangrove degradation on future coastal flooding in Bangladesh. <i>Journal of Hydro-Environment Research</i> , 2017, 17, 30-46.	2.2	31
15	Analysis of cardiac autonomic modulation of children with attention deficit hyperactivity disorder. <i>Neuropsychiatric Disease and Treatment</i> , 2014, 10, 613.	2.2	30
16	Heart Rate Variability and Cardiopulmonary Dysfunction in Patients with Duchenne Muscular Dystrophy: A Systematic Review. <i>Pediatric Cardiology</i> , 2018, 39, 869-883.	1.3	30
17	Avaliação da função barorreflexa em ratos jovens espontaneamente hipertensos. <i>Arquivos Brasileiros De Cardiologia</i> , 2009, 92, 216-221.	0.8	28
18	Do patients with electrocardiographic Brugada type 1 pattern have associated right bundle branch block? A comparative vectorcardiographic study. <i>Europace</i> , 2012, 14, 889-897.	1.7	28

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19	Planform channel dynamics and bank migration hazard assessment of a highly sinuous river in the north-eastern zone of Bangladesh. <i>Environmental Earth Sciences</i> , 2015, 73, 6613-6623.	2.7	28
20	Valuing natural habitats for enhancing coastal resilience: Wetlands reduce property damage from storm surge and sea level rise. <i>PLoS ONE</i> , 2020, 15, e0226275.	2.5	28
21	Evaluation of weather forecast systems for storm surge modeling in the Chesapeake Bay. <i>Ocean Dynamics</i> , 2018, 68, 91-107.	2.2	26
22	Cardiac autonomic modulation impairments in advanced breast cancer patients. <i>Clinical Research in Cardiology</i> , 2018, 107, 924-936.	3.3	25
23	Memantine Prevents Cardiomyocytes Nuclear Size Reduction in the Left Ventricle of Rats Exposed to Cold Stress. <i>Clinics</i> , 2009, 64, 921-926.	1.5	24
24	Anti-Hypertensive Drugs Have Different Effects on Ventricular Hypertrophy Regression. <i>Clinics</i> , 2010, 65, 723-728.	1.5	24
25	Potential of marshes to attenuate storm surge water level in the Chesapeake Bay. <i>Limnology and Oceanography</i> , 2018, 63, 951-967.	3.1	23
26	Advancing real-time flood prediction in large estuaries: iFLOOD a fully coupled surge-wave automated web-based guidance system. <i>Environmental Modelling and Software</i> , 2020, 131, 104748.	4.5	22
27	Kearns-Sayre syndrome: electro-vectorcardiographic evolution for left septal fascicular block of the his bundle. <i>Journal of Electrocardiology</i> , 2008, 41, 675-678.	0.9	21
28	Wellens syndrome associated with prominent anterior QRS forces: an expression of left septal fascicular block?. <i>Journal of Electrocardiology</i> , 2008, 41, 671-674.	0.9	21
29	Potential Impact of Climate Change on Hurricane Flooding Inundation, Population Affected and Property Damages in Corpus Christi <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , 2010, 46, 1049-1059.	2.4	21
30	Heart rate variability analysis by chaotic global techniques in children with attention deficit hyperactivity disorder. <i>Complexity</i> , 2016, 21, 412-419.	1.6	21
31	Efeitos do estresse pelo frio sobre o tamanho nuclear do cardiomiócito em ratos: avaliação por microscopia de luz. <i>Brazilian Journal of Cardiovascular Surgery</i> , 2008, 23, 530-533.	0.6	20
32	ATZ (3-amino-1,2,4-triazole) injected into the fourth cerebral ventricle influences the Bezold-Jarisch reflex in conscious rats. <i>Clinics</i> , 2010, 65, 1339-1343.	1.5	20
33	Comparison of Implicit and Explicit Vegetation Representations in SWAN Hindcasting Wave Dissipation by Coastal Wetlands in Chesapeake Bay. <i>Geosciences (Switzerland)</i> , 2019, 9, 8.	2.2	20
34	An exploration of heart rate response to differing music rhythm and tempos. <i>Complementary Therapies in Clinical Practice</i> , 2014, 20, 130-134.	1.7	19
35	Quantifying the potential impact of land cover changes due to sea-level rise on storm surge on lower Texas coast bays. <i>Coastal Engineering</i> , 2014, 94, 102-111.	4.0	19
36	Sensitivity considerations and the impact of spatial scaling for storm surge modeling in wetlands of the Mid-Atlantic region. <i>Ocean and Coastal Management</i> , 2016, 134, 226-238.	4.4	19

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37	Slow breathing influences cardiac autonomic responses to postural maneuver. Complementary Therapies in Clinical Practice, 2016, 23, 14-20.	1.7	19
38	Field-based numerical model investigation of wave propagation across marshes in the Chesapeake Bay under storm conditions. Coastal Engineering, 2019, 146, 32-46.	4.0	19
39	Strain differences in baroreceptor reflex in adult wistar kyoto rats. Clinics, 2010, 65, 203-208.	1.5	18
40	Heart rate variability in individuals with Down syndrome – A systematic review and meta-analysis. Autonomic Neuroscience: Basic and Clinical, 2018, 213, 23-33.	2.8	18
41	Fluoxetine effects on mitochondrial ultrastructure of right ventricle in rats exposed to cold stress. Brazilian Journal of Cardiovascular Surgery, 2009, 24, 173-179.	0.6	17
42	Effects of sidestream cigarette smoke exposure on baroreflex components in spontaneously hypertensive rats. International Journal of Environmental Health Research, 2010, 20, 431-437.	2.7	17
43	Arc StormSurge: Integrating Hurricane Storm Surge Modeling and <scp>GIS</scp>. Journal of the American Water Resources Association, 2014, 50, 219-233.	2.4	17
44	Response of cardiac autonomic modulation after a single exposure to musical auditory stimulation. Noise and Health, 2015, 17, 108.	0.5	17
45	Comparison of the Effects of Hydration with Water or Isotonic Solution on the Recovery of Cardiac Autonomic Modulation. International Journal of Sport Nutrition and Exercise Metabolism, 2015, 25, 145-153.	2.1	17
46	Hurricane Isaac: A Longitudinal Analysis of Storm Characteristics and Power Outage Risk. Risk Analysis, 2016, 36, 1936-1947.	2.7	17
47	Assessing the relevance of wetlands for storm surge protection: a coupled hydrodynamic and geospatial framework. Natural Hazards, 2016, 80, 839-861.	3.4	17
48	Potential Impacts of Sea-Level Rise and Land-Use Change on Special Flood Hazard Areas and Associated Risks. Natural Hazards Review, 2017, 18, .	1.5	17
49	Ultrafine particles and children’s health: Literature review. Paediatric Respiratory Reviews, 2019, 32, 73-81.	1.8	17
50	Sidestream cigarette smoke effects on cardiovascular responses in conscious rats: involvement of oxidative stress in the fourth cerebral ventricle. BMC Cardiovascular Disorders, 2012, 12, 22.	1.7	15
51	Cardiac Autonomic Modulation of Children with Down Syndrome. Pediatric Cardiology, 2015, 36, 344-349.	1.3	15
52	Hydrodynamic and Waves Response during Storm Surges on the Southern Brazilian Coast: A Hindcast Study. Water (Switzerland), 2020, 12, 3538.	2.7	15
53	Intra-strain variations of baroreflex sensitivity in young Wistar-Kyoto rats. Clinical and Investigative Medicine, 2009, 32, 251.	0.6	15
54	Cardiac autonomic regulation during exposure to auditory stimulation with classical baroque or heavy metal music of different intensities. Turk Kardiyoloji Dernegi Arsivi, 2014, 42, 139-146.	0.5	15

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55	Projecting the effects of land subsidence and sea level rise on storm surge flooding in Coastal North Carolina. Scientific Reports, 2021, 11, 21679.	3.3	15
56	Decreased Heart Rate Variability in Individuals With Amyotrophic Lateral Sclerosis. Respiratory Care, 2019, 64, 1088-1095.	1.6	14
57	Comparison Between Conventional Intervention and Non-immersive Virtual Reality in the Rehabilitation of Individuals in an Inpatient Unit for the Treatment of COVID-19: A Study Protocol for a Randomized Controlled Crossover Trial. Frontiers in Psychology, 2021, 12, 622618.	2.1	14
58	Multi-scale comparison of urban socio-economic vulnerability in the Washington, DC metropolitan region resulting from compound flooding. International Journal of Disaster Risk Reduction, 2021, 61, 102362.	3.9	13
59	Clinical Value of Lead aVR. , 2011, 16, 295-302.		12
60	Inter-Model Comparison of Delft3D-FM and 2D HEC-RAS for Total Water Level Prediction in Coastal to Inland Transition Zones. Journal of the American Water Resources Association, 2022, 58, 34-49.	2.4	12
61	Acute auditory stimulation with different styles of music influences cardiac autonomic regulation in men. , 2014, 8, 105-10.		12
62	CATALASE INHIBITION INTO THE FOURTH CEREBRAL VENTRICLE AFFECTS BRADYCARDIC PARASYMPATHETIC RESPONSE TO INCREASE IN ARTERIAL PRESSURE WITHOUT CHANGING THE BAROREFLEX. Journal of Integrative Neuroscience, 2011, 10, 1-14.	1.7	11
63	Using Non-authoritative Sources During Emergencies in Urban Areas. , 2015, , 337-361.		11
64	Coastal Wetlands Exposure to Storm Surge and Waves in the Albemarle-Pamlico Estuarine System during Extreme Events. Wetlands, 2021, 41, 1.	1.5	11
65	Potential Impacts of Future Extreme Precipitation Changes on Flood Engineering Design Across the Contiguous United States. Water Resources Research, 2022, 58, .	4.2	11
66	Efeitos da exposição à fumaça lateral do cigarro sobre o barorreflexo em ratos adultos. Arquivos Brasileiros De Cardiologia, 2011, 96, 148-153.	0.8	10
67	Potential Impacts of Sea Level Rise and Coarse Scale Marsh Migration on Storm Surge Hydrodynamics and Waves on Coastal Protected Areas in the Chesapeake Bay. Journal of Marine Science and Engineering, 2018, 6, 86.	2.6	10
68	CENTRAL N-ACETYLCYSTEINE EFFECTS ON BAROREFLEX IN JUVENILE SPONTANEOUSLY HYPERTENSIVE RATS. Journal of Integrative Neuroscience, 2011, 10, 161-176.	1.7	9
69	Secondary particles formed from the exhaust of vehicles using ethanol-gasoline blends increase the production of pulmonary and cardiac reactive oxygen species and induce pulmonary inflammation. Environmental Research, 2019, 177, 108661.	7.5	9
70	Energy Drink before Exercise Did Not Affect Autonomic Recovery Following Moderate Aerobic Exercise: A Crossover, Randomized and Controlled Trial. Journal of the American College of Nutrition, 2021, 40, 280-286.	1.8	8
71	Effects of the administration of a catalase inhibitor into the fourth cerebral ventricle on cardiovascular responses in spontaneously hypertensive rats exposed to sidestream cigarette smoke. Clinics, 2013, 68, 851-857.	1.5	8
72	Electric Countershock and Cold Stress Effects on Liver and Adrenal Gland. Clinics, 2010, 65, 291-296.	1.5	7

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73	Assessing the spatiotemporal socioeconomic flood vulnerability of agricultural communities in the Potomac River Watershed. <i>Natural Hazards</i> , 2021, 108, 225-251.	3.4	7
74	Quantifying the Impacts of Storm Surge, Sea Level Rise, and Potential Reduction and Changes in Wetlands in Coastal Areas of the Chesapeake Bay Region. <i>Natural Hazards Review</i> , 2021, 22, .	1.5	7
75	Changes in snowmelt runoff timing in the contiguous United States. <i>Hydrological Processes</i> , 2021, 35, e14430.	2.6	7
76	Impact of Forecasted Land Use Change on Design Peak Discharge at Watershed and Catchment Scales: Simple Equation to Predict Changes. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	1.9	6
77	Geometric indexes of heart rate variability in healthy individuals exposed to long-term air pollution. <i>Environmental Science and Pollution Research</i> , 2020, 27, 4170-4177.	5.3	6
78	Hydrodynamic and Wave Responses During Storm Surges on the Southern Brazilian Coast: A Real-Time Forecast System. <i>Water (Switzerland)</i> , 2020, 12, 3397.	2.7	6
79	Elastic Tubing Resistance Training and Autonomic Modulation in Subjects with Chronic Obstructive Pulmonary Disease. <i>BioMed Research International</i> , 2018, 2018, 1-9.	1.9	5
80	<i>De facto</i> reuse and disinfection by-products in drinking water systems in the Shenandoah River watershed. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1699-1708.	2.4	5
81	Temporal variations of <i>de facto</i> wastewater reuse and disinfection by-products in public water systems in the Shenandoah River watershed, USA. <i>Water Practice and Technology</i> , 2021, 16, 1434-1445.	2.0	5
82	Evaluation of heterogeneity statistics as reasonable proxies of the error of precipitation quantile estimation in the Minneapolis-St. Paul region. <i>Journal of Hydrology</i> , 2014, 513, 457-466.	5.4	4
83	Discriminatory Power of Heterogeneity Statistics with Respect to Error of Precipitation Quantile Estimation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, 04015011.	1.9	4
84	Influence of Different Types of Corticosteroids on Heart Rate Variability of Individuals with Duchenne Muscular Dystrophyâ€”A Pilot Cross Sectional Study. <i>Life</i> , 2021, 11, 752.	2.4	4
85	Evaluating storm surge predictability on subseasonal timescales for flood forecasting applications: A case study for Hurricane Isabel and Katrina. <i>Weather and Climate Extremes</i> , 2021, 34, 100378.	4.1	3
86	A single bout of exercise with a flexible pole induces significant cardiac autonomic responses in healthy men. <i>Clinics</i> , 2014, 69, 595-600.	1.5	3
87	Auditory stimulation with music influences the geometric indices of heart rate variability in response to the postural change maneuver. <i>Noise and Health</i> , 2014, 16, 57.	0.5	2
88	A geospatial framework to estimate depth of scour under buildings due to storm surge in coastal areas. <i>Natural Hazards</i> , 2017, 87, 1285-1311.	3.4	2
89	Comparing the Aerobic Fitness of Professional Male Soccer Players and Soccer Referees. <i>Current Sports Medicine Reports</i> , 2019, 18, 497-501.	1.2	2
90	Complexity Measures of Heart-Rate Variability in Amyotrophic Lateral Sclerosis with Alternative Pulmonary Capacities. <i>Entropy</i> , 2021, 23, 159.	2.2	2

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91	Autonomic modulation at rest and in response to postural change in adolescents with Duchenne muscular dystrophy: a cross-sectional study. <i>Arquivos De Neuro-Psiquiatria</i> , 2021, 79, 766-773.	0.8	2
92	Autonomic Modulation in Duchenne Muscular Dystrophy During a Computer Task: A Prospective Transversal Controlled Trial Assessment by Non-linear Techniques. <i>Frontiers in Neurology</i> , 2021, 12, 720282.	2.4	2
93	A Novel Framework for Parametric Analysis of Coastal Transition Zone Modeling. <i>Journal of the American Water Resources Association</i> , 0, , .	2.4	2
94	Intercomparing atmospheric reanalysis products for hydrodynamic and wave modeling of extreme events during the open-water Arctic season. <i>Arctic, Antarctic, and Alpine Research</i> , 2022, 54, 125-146.	1.1	2
95	Wave Attenuation by Vegetation: Model Implementation and Validation Study. <i>Frontiers in Built Environment</i> , 0, 8, .	2.3	2
96	The relationship between Monte Carlo estimators of heterogeneity and error for daily to monthly time steps in a small Minnesota precipitation gauge network. <i>Water Resources Research</i> , 2015, 51, 5161-5176.	4.2	1
97	The exclusive presence of the chronic pulmonary disease could be more important in affecting autonomic cardiac modulation than the severity of airflow obstruction: Analysis using heart rate variability. <i>Biomedical Signal Processing and Control</i> , 2018, 42, 101-106.	5.7	1
98	Extreme Water Level Simulation and Component Analysis in Delaware Estuary during Hurricane Isabel. <i>Journal of the American Water Resources Association</i> , 2022, 58, 19-33.	2.4	1
99	Conceptual ex ante simulation for Green Stormwater Infrastructure Adoption on private property using agent-based modeling. <i>Water Environment Research</i> , 2021, 93, 2648-2669.	2.7	1
100	ArcWaT: a model-based cell-by-cell GIS toolbox for estimating wave transformation during storm surge events. <i>Geocarto International</i> , 2022, 37, 10532-10555.	3.5	1
101	Efficient Integration of a Storm Surge Model into a Multidisciplinary Agent Based Model Framework. <i>Journal of Coastal Research</i> , 2016, 75, 1082-1086.	0.3	0
102	Reply to the letter "Cardiac autonomic evaluation in breast cancer patients: role of cytokines and heart rate recovery". <i>Clinical Research in Cardiology</i> , 2018, 107, 1084-1085.	3.3	0
103	Reply to the letter "The role of heart rate in the assessment of cardiac autonomic modulation with heart rate variability". <i>Clinical Research in Cardiology</i> , 2019, 108, 1410-1411.	3.3	0
104	RAPID PROBABILISTIC HURRICANE SURGE AND DAMAGE FORECASTING USING SURGE RESPONSE FUNCTIONS. <i>Coastal Engineering Proceedings</i> , 2011, 1, 20.	0.1	0
105	HURRICANE HAZARD ASSESSMENT: CONSIDERATIONS FOR SEA-LEVEL RISE AND CLIMATE CHANGE. <i>Coastal Engineering Proceedings</i> , 2012, 1, 7.	0.1	0
106	Cardiovascular Responses Induced by Catalase Inhibitor into the Fourth Cerebral Ventricle Is Changed in Wistar Rats Exposed to Sidestream Cigarette Smoke. <i>International Journal of Health Sciences</i> , 2013, 7, 200-207.	0.4	0
107	Wetlands as a nature-based coastal defense: a numerical modeling and field data integration approach to quantify storm surge attenuation for the Mid-Atlantic region. , 2015, , .		0