Pedro da Silva Peixoto

List of Publications by Year
in descending order

31 papers	3,411 citations	567281 15 h-index	610901 24 g-index
39 all docs	39 docs citations	39 times ranked	7686 citing authors

#	Article	IF	Citations
1	Robot Dance: A mathematical optimization platform for intervention against COVID-19 in a complex network. EURO Journal on Computational Optimization, 2022, 10, 100025.	2.4	4
2	Three-quarters attack rate of SARS-CoV-2 in the Brazilian Amazon during a largely unmitigated epidemic. Science, 2021, 371, 288-292.	12.6	412
3	Resurgence of COVID-19 in Manaus, Brazil, despite high seroprevalence. Lancet, The, 2021, 397, 452-455.	13.7	720
4	Higher risk of death from COVID-19 in low-income and non-White populations of São Paulo, Brazil. BMJ Global Health, 2021, 6, e004959.	4.7	55
5	Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. Science, 2021, 372, 815-821.	12.6	1,125
6	The impact of super-spreader cities, highways, and intensive care availability in the early stages of the COVID-19 epidemic in Brazil. Scientific Reports, 2021, 11, 13001.	3.3	48
7	A snapshot of a pandemic: The interplay between social isolation and COVID-19 dynamics in Brazil. Patterns, 2021, 2, 100349.	5.9	4
8	Topography-based local spherical Voronoi grid refinement on classical and moist shallow-water finite-volume models. Geoscientific Model Development, 2021, 14, 6919-6944.	3.6	0
9	Modeling future spread of infections via mobile geolocation data and population dynamics.ÂAn application to COVID-19 in Brazil. PLoS ONE, 2020, 15, e0235732.	2.5	75
10	Using Seismic Noise Levels to Monitor Social Isolation: An Example From Rio de Janeiro, Brazil. Geophysical Research Letters, 2020, 47, e2020GL088748.	4.0	23
11	Evolution and epidemic spread of SARS-CoV-2 in Brazil. Science, 2020, 369, 1255-1260.	12.6	454
12	The relationship between clinics and the venom of the causative Amazon pit viper (Bothrops atrox). PLoS Neglected Tropical Diseases, 2020, 14, e0008299.	3.0	12
13	Comparing Numerical Accuracy of Icosahedral A-Grid and C-Grid Schemes in Solving the Shallow-Water Model. Monthly Weather Review, 2020, 148, 4009-4033.	1.4	6
14	Title is missing!. , 2020, 15, e0235732.		0
15	Title is missing!. , 2020, 15, e0235732.		0
16	Title is missing!. , 2020, 15, e0235732.		0
17	Title is missing!. , 2020, 15, e0235732.		0
18	Semi-Lagrangian Exponential Integration with Application to the Rotating Shallow Water Equations. SIAM Journal of Scientific Computing, 2019, 41, B903-B928.	2.8	13

#	Article	IF	Citations
19	Beyond spatial scalability limitations with a massively parallel method for linear oscillatory problems. International Journal of High Performance Computing Applications, 2018, 32, 913-933.	3.7	13
20	A numerical study of a semi-Lagrangian Parareal method applied to the viscous Burgers equation. Computing and Visualization in Science, 2018, 19, 45-57.	1.2	9
21	Numerical instabilities of spherical shallowâ€water models considering small equivalent depths. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 156-171.	2.7	17
22	Numerical instabilities of vectorâ€invariant momentum equations on rectangular Câ€grids. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 563-581.	2.7	18
23	Accuracy analysis of mimetic finite volume operators on geodesic grids and a consistent alternative. Journal of Computational Physics, 2016, 310, 127-160.	3.8	25
24	On vector field reconstructions for semi-Lagrangian transport methods on geodesic staggered grids. Journal of Computational Physics, 2014, 273, 185-211.	3.8	15
25	The use of mesenchymal stem cells in bladder augmentation. Pediatric Surgery International, 2014, 30, 361-370.	1.4	16
26	Analysis of grid imprinting on geodesic spherical icosahedral grids. Journal of Computational Physics, 2013, 237, 61-78.	3.8	26
27	Comparison of Phylogeny, Venom Composition and Neutralization by Antivenom in Diverse Species of Bothrops Complex. PLoS Neglected Tropical Diseases, 2013, 7, e2442.	3.0	130
28	Computational aspects of harmonic wavelet Galerkin methods and an application to a precipitation front propagation model. Computers and Mathematics With Applications, 2011, 61, 1217-1227.	2.7	3
29	Improved method to calculate the antibody avidity index. Journal of Clinical Laboratory Analysis, 2007, 21, 201-206.	2.1	47
30	Precession resonance of Rossby wave triads and the generation of low frequency atmospheric oscillations. Physics of Fluids, 0, , .	4.0	4
31	ClassificaÃ§Ã£o de risco em redes complexas: o caso da COVID-19 no Rio Grande do Sul. CiÃªncia E Natura, 0, 43, e1.	0.0	1