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	Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. Science, 2021, 372, 815-821.	12.6	1,125
2	Resurgence of COVID-19 in Manaus, Brazil, despite high seroprevalence. Lancet, The, 2021, 397, 452-455.	13.7	720
3	Evolution and epidemic spread of SARS-CoV-2 in Brazil. Science, 2020, 369, 1255-1260.	12.6	454
4	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
5	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
6	Modeling future spread of infections via mobile geolocation data and population dynamics. An application to COVID-19 in Brazil. PLoS ONE, 2020, 15, e0235732.	2.5	75
7	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
8	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
9	Improved method to calculate the antibody avidity index. Journal of Clinical Laboratory Analysis, 2007, 21, 201-206.	2.1	47
10	Analysis of grid imprinting on geodesic spherical icosahedral grids. Journal of Computational Physics, 2013, 237, 61-78.	3.8	26
11	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
12	Using Seismic Noise Levels to Monitor Social Isolation: An Example From Rio de Janeiro, Brazil. Geophysical Research Letters, 2020, 47, e2020GL088748.	4.0	23
13	Numerical instabilities of vector-invariant momentum equations on rectangular C-grids. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 563-581.	2.7	18
14	Numerical instabilities of spherical shallow-water models considering small equivalent depths. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 156-171.	2.7	17
15	The use of mesenchymal stem cells in bladder augmentation. Pediatric Surgery International, 2014, 30, 361-370.	1.4	16
16	On vector field reconstructions for semi-Lagrangian transport methods on geodesic staggered grids. Journal of Computational Physics, 2014, 273, 185-211.	3.8	15
17	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
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	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
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	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
22	A snapshot of a pandemic: The interplay between social isolation and COVID-19 dynamics in Brazil. Patterns, 2021, 2, 100349.	5.9	4
23	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
24	Precession resonance of Rossby wave triads and the generation of low frequency atmospheric oscillations. Physics of Fluids, 0, , .	4.0	4
25	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
26	Classificação de risco em redes complexas: o caso da COVID-19 no Rio Grande do Sul. Ciência E Natura, 0, 43, e1.	0.0	1
27	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
28	Title is missing!. , 2020, 15, e0235732.		0
29	Title is missing!. , 2020, 15, e0235732.		0
30	Title is missing!. , 2020, 15, e0235732.		0
31	Title is missing!. , 2020, 15, e0235732.		0