Massimo Materassi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5779455/publications.pdf

Version: 2024-02-01

48	540	687363 13	713466 21
papers	citations	h-index	g-index

52	52	52	560
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metriplectic Structure of a Radiationâ€“Matter-Interaction Toy Model. Entropy, 2022, 24, 506.	2.2	0
2	Lagrangian evolution of field gradient tensor invariants in magneto-hydrodynamic theory. Chaos, Solitons and Fractals: X, 2022, 9, 100080.	2.1	2
3	A stretched logistic equation for pandemic spreading. Chaos, Solitons and Fractals, 2020, 140, 110113.	5.1	16
4	New insights and best practices for the successful use of Empirical Mode Decomposition, Iterative Filtering and derived algorithms. Scientific Reports, 2020, 10, 15161.	3.3	89
5	Steering complex networks toward desired dynamics. Scientific Reports, 2020, 10, 20744.	3.3	2
6	Scintillation modeling. , 2020, , 277-299.		2
7	Stochastic Lagrangians for noisy dynamics. Chaos, Solitons and Fractals, 2020, 134, 109713.	5.1	0
8	Advanced statistical tools in the near-Earth space science. , 2020, , 243-256.		0
9	The complex ionosphere. , 2020, , 199-222.		2
10	On Geometrical Invariants of the Magnetic Field Gradient Tensor in Turbulent Space Plasmas: Scale Variability in the Inertial Range. Astrophysical Journal, 2019, 878, 124.	4.5	8
11	Stochastic field theory for the ionospheric fluctuations in Equatorial Spread F. Chaos, Solitons and Fractals, 2019, 121, 186-210.	5.1	3
12	Some fractal thoughts about the COVID-19 infection outbreak. Chaos, Solitons and Fractals: X, 2019, 4, 100032.	2.1	10
13	Role of the external drivers in the occurrence of low-latitude ionospheric scintillation revealed by multi-scale analysis. Journal of Space Weather and Space Climate, 2019, 9, A35.	3.3	17
14	Stepping into the Equatorward Boundary of the Auroral Oval: preliminary results of multi scale statistical analysis. Annals of Geophysics, 2019, 61, .	1.0	7
15	Adaptive Local Iterative Filtering: A Promising Technique for the Analysis of Nonstationary Signals. Journal of Geophysical Research: Space Physics, 2018, 123, 1031-1046.	2.4	40
16	Exposing Cancer's Complexity Using Radiomics in Clinical Imaging An Investigation on the Role of Histogram Analysis as Imaging Biomarker to Unravel Intra-Tumour Heterogeneity. , 2018, , .		1
17	Fractal-Radiomics as Complexity Analysis of CT and MRI Cancer Images. , 2018, , .		5
18	Metriplectic torque for rotation control of a rigid body. Cybernetics and Physics, 2018, , 78-86.	0.3	7

#	Article	IF	Citations
19	Kleptoparasitism and complexity in a multi-trophic web. Ecological Complexity, 2017, 29, 49-60.	2.9	9
20	Modelling ionospheric scintillation under the crest of the equatorial anomaly. Advances in Space Research, 2017, 60, 1698-1707.	2.6	12
21	Kleptoparasitism and Scavenging Can Stabilize Ecosystem Dynamics. American Naturalist, 2017, 190, 398-409.	2.1	13
22	Entropy as a Metric Generator of Dissipation in Complete Metriplectic Systems. Entropy, 2016, 18, 304.	2.2	6
23	The stochastic tetrad magneto-hydrodynamics via functional formalism. Journal of Plasma Physics, 2015, 81, .	2.1	4
24	STATISTICS OF THE VELOCITY GRADIENT TENSOR IN SPACE PLASMA TURBULENT FLOWS. Astrophysical Journal, 2015, 812, 84.	4.5	10
25	Metriplectic Algebra for Dissipative Fluids in Lagrangian Formulation. Entropy, 2015, 17, 1329-1346.	2.2	6
26	Information Theory Analysis of Cascading Process in a Synthetic Model of Fluid Turbulence. Entropy, 2014, 16, 1272-1286.	2.2	19
27	Imaging space weather over Europe. Space Weather, 2013, 11, 69-78.	3.7	13
28	Metriplectic framework for dissipative magneto-hydrodynamics. Physica D: Nonlinear Phenomena, 2012, 241, 729-734.	2.8	13
29	Algebrizing friction: a brief look at the Metriplectic Formalism. Intellectual Archive, 2012, 1, 45-52.	0.1	2
30	Predictive Space Weather: An information theory approach. Advances in Space Research, 2011, 47, 877-885.	2.6	25
31	Optimum parameter for estimating phase fluctuations on transionospheric signals at high latitudes. Advances in Space Research, 2011, 47, 2188-2193.	2.6	5
32	Low latitude scintillations: A comparison of modeling and observations within the CIGALA project. , 2011, , .		0
33	Universal fluctuations in tropospheric radar measurements. Europhysics Letters, 2010, 89, 20006.	2.0	9
34	Stochastic Lagrangian for the two-dimensional visco-resistive magnetohydrodynamics. Plasma Physics and Controlled Fusion, 2010, 52, 075004.	2.1	1
35	Detrend effect on the scalograms of GPS power scintillation. Advances in Space Research, 2009, 43, 1740-1748.	2.6	13
36	Ionospheric scintillation monitoring and modelling. Annals of Geophysics, 2009, 52, .	1.0	8

#	Article	IF	Citations
37	Turning the resistive MHD into a stochastic field theory. Nonlinear Processes in Geophysics, 2008, 15, 701-709.	1.3	10
38	Magnetic Reconnection Rate in Space Plasmas: A Fractal Approach. Physical Review Letters, 2007, 99, 175002.	7.8	9
39	Wavelet analysis of GPS amplitude scintillation: A case study. Radio Science, 2007, 42, n/a-n/a.	1.6	33
40	Determining the verse of magnetic turbulent cascades in the Earth's magnetospheric cusp via transfer entropy analysis: preliminary results. Nonlinear Processes in Geophysics, 2007, 14, 153-161.	1.3	19
41	Statistics in the p-model. Chaos, Solitons and Fractals, 2006, 30, 642-655.	5.1	1
42	Anisotropic scaling features and complexity in magnetospheric-cusp: a case study. Nonlinear Processes in Geophysics, 2005, 12, 817-825.	1.3	19
43	Long-term trends of the critical frequency of the F2 layer at northern and southern high latitude regions. Physics and Chemistry of the Earth, 2002, 27, 607-612.	2.9	14
44	Report on the long term trend of the critical frequency of the F2 layer at high latitudes. Acta Geodaetica Et Geophysica Hungarica, 2002, 37, 297-302.	0.4	1
45	A CANONICAL DECOMPOSITION IN COLLECTIVE AND RELATIVE VARIABLES OF A KLEINâ€“GORDON FIELD IN THE REST-FRAME WIGNER-COVARIANT INSTANT FORM. International Journal of Modern Physics A, 2000, 15, 2821-2916.	1.5	6
46	Conformal nature of the Hawking radiation. Journal of High Energy Physics, 2000, 2000, 032-032.	4.7	0
47	COLLECTIVE AND RELATIVE VARIABLES FOR A CLASSICAL KLEINâ€“GORDON FIELD. International Journal of Modern Physics A, 1999, 14, 3387-3420.	1.5	10
48	A canonical realization of the BMS algebra. Journal of Mathematical Physics, 1999, 40, 480-500.	1.1	39