

JosÃ© Luis Trueba

List of Publications by Year in descending order

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31
papers

578
citations

567281

15
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

344
citing authors

#	ARTICLE	IF	CITATIONS
1	The electromagnetic helicity. <i>European Journal of Physics</i> , 1996, 17, 141-144.	0.6	75
2	Knots in electromagnetism. <i>Physics Reports</i> , 2017, 667, 1-61.	25.6	67
3	Ball lightning an electromagnetic knot?. <i>Nature</i> , 1996, 383, 32-32.	27.8	51
4	ANALYTICAL ESTIMATES OF THE EFFECT OF NONLINEAR DAMPING IN SOME NONLINEAR OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2000, 10, 2257-2267.	1.7	49
5	Mechanism of Branching in Negative Ionization Fronts. <i>Physical Review Letters</i> , 2005, 95, 165001.	7.8	34
6	Energy dissipation in a nonlinearly damped Duffing oscillator. <i>Physica D: Nonlinear Phenomena</i> , 2001, 159, 22-34.	2.8	27
7	Features of electrical discharges in air triggered by laser. <i>Journal of Electrostatics</i> , 2009, 67, 301-306.	1.9	25
8	Exchange of helicity in a knotted electromagnetic field. <i>Annalen Der Physik</i> , 2012, 524, 71-75.	2.4	24
9	A class of non-null toroidal electromagnetic fields and its relation to the model of electromagnetic knots. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 025203.	2.1	24
10	Fingering from Ionization Fronts in Plasmas. <i>SIAM Journal on Applied Mathematics</i> , 2008, 68, 1122-1145.	1.8	23
11	Motion of charged particles in a knotted electromagnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 235401.	2.1	21
12	Ball lightning as a force-free magnetic knot. <i>Physical Review E</i> , 2000, 62, 7181-7190.	2.1	20
13	A topological mechanism of discretization for the electric charge. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 422, 196-200.	4.1	17
14	The Riddle of Ball Lightning: A Review. <i>Scientific World Journal, The</i> , 2006, 6, 254-278.	2.1	17
15	A model of ball lightning as a magnetic knot with linked streamers. <i>Journal of Geophysical Research</i> , 1998, 103, 23309-23313.	3.3	15
16	Photoionization effects in ionization fronts. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 5176-5182.	2.8	15
17	Ionization fronts in negative corona discharges. <i>Physical Review E</i> , 2005, 71, 037401.	2.1	13
18	Power laws and self-similar behaviour in negative ionization fronts. <i>Journal of Physics A</i> , 2006, 39, 7561-7578.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Topological Electromagnetism with Hidden Nonlinearity. , 0, , 197-253.		7
20	Investigations of pre-breakdown phenomena: streamer discharges. Contemporary Physics, 2005, 46, 265-276.	1.8	7
21	Topological Quantization of the Magnetic Flux. Foundations of Physics, 2006, 36, 427-436.	1.3	7
22	Spin-Orbital Momentum Decomposition and Helicity Exchange in a Set of Non-Null Knotted Electromagnetic Fields. Symmetry, 2018, 10, 88.	2.2	7
23	Fluctuation charge effects in ionization fronts. Journal Physics D: Applied Physics, 2008, 41, 105204.	2.8	6
24	On the Fibration Defined by the Field Lines of a Knotted Class of Electromagnetic Fields at a Particular Time. Symmetry, 2017, 9, 218.	2.2	6
25	ArrayÃs, Fontelos, and Trueba Reply:. Physical Review Letters, 2008, 101, .	7.8	3
26	Time evolving potentials for electromagnetic knots. International Journal of Geometric Methods in Modern Physics, 2017, 14, 1750073.	2.0	3
27	Null Electromagnetic Fields from Dilatation and Rotation Transformations of the Hopfion. Symmetry, 2019, 11, 1105.	2.2	3
28	On the estimate of the stochastic layer width for a model of tracer dynamics. Chaos, 2003, 13, 866-873.	2.5	2
29	Vorticity field, helicity integral and persistence of entanglement in reaction-diffusion systems. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 282001.	2.1	1
30	Analytical Estimates of the Dispersion Curve in Planar Ionization Fronts. , 2009, , .		0
31	A new paradigm for the dynamics of the early Universe. Classical and Quantum Gravity, 2019, 36, 245016.	4.0	0