

JosÃ© Luis Trueba

List of Publications by Year in descending order

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31
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344
citing authors

#	ARTICLE	IF	CITATIONS
1	Null Electromagnetic Fields from Dilatation and Rotation Transformations of the Hopfion. Symmetry, 2019, 11, 1105.	2.2	3
2	A new paradigm for the dynamics of the early Universe. Classical and Quantum Gravity, 2019, 36, 245016.	4.0	0
3	Spin-Orbital Momentum Decomposition and Helicity Exchange in a Set of Non-Null Knotted Electromagnetic Fields. Symmetry, 2018, 10, 88.	2.2	7
4	Time evolving potentials for electromagnetic knots. International Journal of Geometric Methods in Modern Physics, 2017, 14, 1750073.	2.0	3
5	Knots in electromagnetism. Physics Reports, 2017, 667, 1-61.	25.6	67
6	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
7	A class of non-null toroidal electromagnetic fields and its relation to the model of electromagnetic knots. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 025203.	2.1	24
8	Exchange of helicity in a knotted electromagnetic field. Annalen Der Physik, 2012, 524, 71-75.	2.4	24
9	Motion of charged particles in a knotted electromagnetic field. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 235401.	2.1	21
10	Analytical Estimates of the Dispersion Curve in Planar Ionization Fronts. , 2009, , .		0
11	Features of electrical discharges in air triggered by laser. Journal of Electrostatics, 2009, 67, 301-306.	1.9	25
12	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
13	Fingering from Ionization Fronts in Plasmas. SIAM Journal on Applied Mathematics, 2008, 68, 1122-1145.	1.8	23
14	Fluctuation charge effects in ionization fronts. Journal Physics D: Applied Physics, 2008, 41, 105204.	2.8	6
15	Array's, Fontelos, and Trueba Reply:. Physical Review Letters, 2008, 101, .	7.8	3
16	Photoionization effects in ionization fronts. Journal Physics D: Applied Physics, 2006, 39, 5176-5182.	2.8	15
17	The Riddle of Ball Lightning: A Review. Scientific World Journal, The, 2006, 6, 254-278.	2.1	17
18	Topological Quantization of the Magnetic Flux. Foundations of Physics, 2006, 36, 427-436.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Power laws and self-similar behaviour in negative ionization fronts. Journal of Physics A, 2006, 39, 7561-7578.	1.6	9
20	Ionization fronts in negative corona discharges. Physical Review E, 2005, 71, 037401.	2.1	13
21	Mechanism of Branching in Negative Ionization Fronts. Physical Review Letters, 2005, 95, 165001.	7.8	34
22	Investigations of pre-breakdown phenomena: streamer discharges. Contemporary Physics, 2005, 46, 265-276.	1.8	7
23	On the estimate of the stochastic layer width for a model of tracer dynamics. Chaos, 2003, 13, 866-873.	2.5	2
24	Energy dissipation in a nonlinearly damped Duffing oscillator. Physica D: Nonlinear Phenomena, 2001, 159, 22-34.	2.8	27
25	Ball lightning as a force-free magnetic knot. Physical Review E, 2000, 62, 7181-7190.	2.1	20
26	ANALYTICAL ESTIMATES OF THE EFFECT OF NONLINEAR DAMPING IN SOME NONLINEAR OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2257-2267.	1.7	49
27	A topological mechanism of discretization for the electric charge. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 196-200.	4.1	17
28	A model of ball lightning as a magnetic knot with linked streamers. Journal of Geophysical Research, 1998, 103, 23309-23313.	3.3	15
29	Ball lightning an electromagnetic knot?. Nature, 1996, 383, 32-32.	27.8	51
30	The electromagnetic helicity. European Journal of Physics, 1996, 17, 141-144.	0.6	75
31	Topological Electromagnetism with Hidden Nonlinearity. , 0, , 197-253.		7