

Erasmus Recami

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,710
citations

279487

23
h-index

276539

41
g-index

72
all docs

72
docs citations

72
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in the time analysis of tunneling processes. <i>Physics Reports</i> , 1992, 214, 339-356.	10.3	251
2	Unified time analysis of photon and particle tunnelling. <i>Physics Reports</i> , 2004, 398, 133-178.	10.3	155
3	On localized "X-shaped" Superluminal solutions to Maxwell equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 252, 586-610.	1.2	113
4	Theory of "frozen waves" modeling the shape of stationary wave fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 2465.	0.8	94
5	Propagation speed of evanescent modes. <i>Physical Review E</i> , 2000, 62, 8628-8635.	0.8	71
6	Superluminal Motions? A Bird's-Eye View of the Experimental Situation. <i>Foundations of Physics</i> , 2001, 31, 1119-1135.	0.6	69
7	Kinematics and hydrodynamics of spinning particles. <i>Physical Review A</i> , 1998, 57, 98-105.	1.0	57
8	Tachyon kinematics and causality: A systematic thorough analysis of the tachyon causal paradoxes. <i>Foundations of Physics</i> , 1987, 17, 239-296.	0.6	56
9	More about Tunnelling Times, the Dwell Time and the "Hartman Effect". <i>Journal De Physique, I</i> , 1995, 5, 1351-1365.	1.2	47
10	Spin and electron structure. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 318, 481-488.	1.5	46
11	Antiparticles from special Relativity with ortho-chronous and antichronous Lorentz transformations. <i>Foundations of Physics</i> , 1982, 12, 709-718.	0.6	44
12	Subluminal wave bullets: Exact localized subluminal solutions to the wave equations. <i>Physical Review A</i> , 2008, 77, .	1.0	39
13	How to recover causality in special relativity for tachyons. <i>Foundations of Physics</i> , 1978, 8, 329-340.	0.6	36
14	About zitterbewegung and electron structure. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 318, 623-628.	1.5	32
15	Superluminal localized solutions to Maxwell equations propagating along a normal-sized waveguide. <i>Physical Review E</i> , 2001, 64, 066603.	0.8	32
16	Chapter 4 Localized Waves: A Review. <i>Advances in Imaging and Electron Physics</i> , 2009, , 235-353.	0.1	32
17	Focused X-shaped pulses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 1564.	0.8	30
18	Superluminal X-shaped beams propagating without distortion X along a coaxial guide. <i>Physical Review E</i> , 2002, 66, 046617.	0.8	29

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19	A satisfactory formalism for magnetic monopoles by Clifford algebras. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 173, 233-236.	1.5	27
20	Localized X-shaped field generated by a superluminal electric charge. Physical Review E, 2004, 69, 027602.	0.8	27
21	Magnetic monopoles without string in the Kählerâ€“Clifford algebra bundle: A geometrical interpretation. Journal of Mathematical Physics, 1990, 31, 502-505.	0.5	26
22	Superluminal localized solutions to Maxwell equations propagating along a waveguide: The finite-energy case. Physical Review E, 2003, 67, 036620.	0.8	26
23	Superluminal tunnelling through successive barriers: Does qm predict infinite group-velocities?. Journal of Modern Optics, 2004, 51, 913-923.	0.6	26
24	Production of dynamic frozen waves: controlling shape, location (and speed) of diffraction-resistant beams. Optics Letters, 2015, 40, 5834.	1.7	26
25	SPECIAL RELATIVITY AND SUPERLUMINAL MOTIONS: A DISCUSSION OF SOME RECENT EXPERIMENTS. International Journal of Modern Physics A, 2000, 15, 2793-2812.	0.5	25
26	Chirped optical X-shaped pulses in material media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2455.	0.8	22
27	A Velocity Field and Operator for Spinning Particles in (Nonrelativistic) Quantum Mechanics. Foundations of Physics, 1998, 28, 763-776.	0.6	21
28	Superluminal waves and objects: An overview of the relevant experiments. Journal of Physics: Conference Series, 2009, 196, 012020.	0.3	21
29	The introduction of Superluminal Lorentz transformations: A revisitation. Foundations of Physics, 1984, 14, 367-407.	0.6	18
30	Field theory of the spinning electron and internal motions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 190, 137-143.	0.9	16
31	ON NON-SELF-ADJOINT OPERATORS FOR OBSERVABLES IN QUANTUM MECHANICS AND QUANTUM FIELD THEORY. International Journal of Modern Physics A, 2010, 25, 1785-1818.	0.5	15
32	A modified large number theory with constant G. Foundations of Physics, 1983, 13, 341-346.	0.6	14
33	A generalization of Dirac nonlinear electrodynamics, and spinning charged particles. Foundations of Physics, 1993, 23, 469-485.	0.6	13
34	Hydrodynamical Reformulation and Quantum Limit of The Barutâ€“Zanghi Theory. Foundations of Physics Letters, 1997, 10, 533-546.	0.6	12
35	Properties of localized pulses through the analysis of temporal modulation effects in Bessel beams and the convolution theorem. Optics Communications, 2004, 229, 99-107.	1.0	12
36	On the phenomenology of tachyon radiation. Foundations of Physics Letters, 1995, 8, 127-134.	0.6	11

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37	Cherenkov radiation versus X-shaped localized waves. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 928.	0.8	11
38	Producing acoustic frozen waves: simulated experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2414-2425.	1.7	11
39	Reply to the comments by leavens on Olkhovsky-Recami's approach to the "tunnelling time problem": More about the time analysis of tunnelling processes. Solid State Communications, 1994, 89, 31-35.	0.9	9
40	The strong coupling constant: Its theoretical derivation from a geometric approach to hadron structure. Foundations of Physics Letters, 1994, 7, 85-93.	0.6	9
41	Soliton-like solutions to the ordinary Schrödinger equation within standard quantum mechanics. Journal of Mathematical Physics, 2012, 53, .	0.5	9
42	Answer to "information flow, causality, and the classical theory of Tachyons": International Journal of Theoretical Physics, 1978, 17, 77-79.	0.5	6
43	Tachyons: may they have a role in elementary particle physics?. Progress in Particle and Nuclear Physics, 1985, 15, 499-517.	5.6	6
44	Effects of spin on the cyclotron frequency for a Dirac electron. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 267, 219-224.	0.9	6
45	Producing acoustic "Frozen Waves": Simulated experiments with diffraction/attenuation resistant beams in lossy media. Ultrasonics, 2014, 54, 1620-1630.	2.1	6
46	FIELD THEORY OF THE ELECTRON: SPIN AND ZITTERBEWEGUNG. , 1996, , 345-368.		4
47	Cherenkov radiation versus X-shaped localized waves: reply. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2536.	0.8	4
48	Gravitation and Tachyons. , 1977, , 305-321.		3
49	Does thermodynamics require our cosmos to undergo a series of contraction/expansion cycles?. Progress in Particle and Nuclear Physics, 1986, 17, 143-152.	5.6	2
50	Introduction of a Quantum of Time ("chronon"), and its Consequences for the Electron in Quantum and Classical Physics. Advances in Imaging and Electron Physics, 2010, , 33-115.	0.1	2
51	On a Time-Space Operator (and other Non-Self-Adjoint Operators) for Observables in QM and QFT. , 2016, , 371-417.		2
52	Structured Light by Linking Diffraction-Resistant Spatially Shaped Beams. Physical Review Applied, 2018, 10, .	1.5	2
53	"Regge-like" relations for stable (non-evaporating) black holes. Foundations of Physics Letters, 1994, 7, 167-179.	0.6	1
54	Superluminal motions in special relativity. , 1999, , .		1

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55	Deriving Spin within a Discrete-Time Theory. Foundations of Physics, 2007, 37, 277-294.	0.6	1
56	Arrays of frozen waves: Some theory and experiments. Optics Communications, 2021, 482, 126576.	1.0	1
57	Does thermodynamics require a new expansion after the "big crunch" of our cosmos?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 177, 304-309.	1.5	0
58	Response to Kowalczy?ski on tachyons. International Journal of Theoretical Physics, 1987, 26, 913-919.	0.5	0
59	Comments on a paper by Marchildon, Antippa, and Everett about tachyons. Foundations of Physics Letters, 1989, 2, 389-394.	0.6	0
60	MAGNETIC MONOPOLES WITHOUT STRINGS BY KÄHLER-CLIFFORD ALGEBRA: GEOMETRICAL INTERPRETATION OF A SATISFACTORY FORMALISM. Modern Physics Letters A, 1990, 05, 543-549.	0.5	0
61	Field Theory of the Spinning Electron: II " The New Non-Linear Field Equations. NATO ASI Series Series B: Physics, 1997, , 253-260.	0.2	0
62	Hydrodynamical Reformulation and Quantum Limit of the Barut-Zanghi Theory. , 1998, , 285-296.		0