

Salvatore Esposito

List of Publications by Year in descending order

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95
papers

1,391
citations

430874

18
h-index

345221

36
g-index

114
all docs

114
docs citations

114
times ranked

1174
citing authors

#	ARTICLE	IF	CITATIONS
1	PARthENoPE: Public algorithm evaluating the nucleosynthesis of primordial elements. Computer Physics Communications, 2008, 178, 956-971.	7.5	196
2	Nuclear reaction network for primordial nucleosynthesis: a detailed analysis of rates, uncertainties and light nuclei yields. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 010-010.	5.4	176
3	Early-universe constraints on a time-varying fine structure constant. Physical Review D, 2001, 64, .	4.7	105
4	Non equilibrium spectra of degenerate relic neutrinos. Nuclear Physics B, 2000, 590, 539-561.	2.5	71
5	Multibarrier tunneling. Physical Review E, 2003, 67, 016609.	2.1	64
6	Testing standard and degenerate big bang nucleosynthesis with BOOMERANG and MAXIMA-1. Physical Review D, 2001, 63, .	4.7	49
7	Majorana solution of the Thomas-Fermi equation. American Journal of Physics, 2002, 70, 852-856.	0.7	49
8	Universal photonic tunneling time. Physical Review E, 2001, 64, 026609.	2.1	46
9	The standard and degenerate primordial nucleosynthesis versus recent experimental data. Journal of High Energy Physics, 2000, 2000, 038-038.	4.7	44
10	Neutrino propagation in a medium with a magnetic field. Zeitschrift für Physik C-Particles and Fields, 1996, 70, 55-63.	1.5	42
11	Covariant Majorana Formulation of Electrodynamics. Foundations of Physics, 1998, 28, 231-244.	1.3	39
12	Big bang nucleosynthesis: an accurate determination of light element yields. Nuclear Physics B, 2000, 568, 421-444.	2.5	36
13	Neutrino energy loss rate in a stellar plasma. Nuclear Physics B, 2003, 658, 217-253.	2.5	34
14	Precision rates for nucleon weak interactions in primordial nucleosynthesis and 4He abundance. Nuclear Physics B, 1999, 540, 3-36.	2.5	33
15	Mpemba effect and phase transitions in the adiabatic cooling of water before freezing. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 757-763.	2.6	24
16	Fermi, Majorana and the Statistical Model of Atoms. Foundations of Physics, 2004, 34, 1431-1450.	1.3	20
17	High sensitivity measurements of thermal properties of textile fabrics. Polymer Testing, 2013, 32, 1029-1036.	4.8	20
18	On the Role of Spin in Quantum Mechanics. Foundations of Physics Letters, 1999, 12, 165-177.	0.6	19

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19	Classical vgr $\hat{v} \ll c$ solutions of Maxwell's equations and the photon tunneling effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 225, 203-209.	2.1	16
20	RADIATIVE CORRECTIONS TO NEUTRINO ENERGY LOSS RATE IN STELLAR INTERIORS. Modern Physics Letters A, 2002, 17, 491-502.	1.2	15
21	LABORATORY BOUNDS ON LORENTZ SYMMETRY VIOLATION IN LOW ENERGY NEUTRINO PHYSICS. Modern Physics Letters A, 2006, 21, 349-361.	1.2	15
22	Majorana Transformation for Differential Equations. International Journal of Theoretical Physics, 2002, 41, 2417-2426.	1.2	14
23	Following Weyl on Quantum Mechanics: The Contribution of Ettore Majorana. Foundations of Physics, 2004, 34, 871-887.	1.3	14
24	Wave function renormalization at finite temperature. Physical Review D, 1998, 58, .	4.7	13
25	Searching for an equation: Dirac, Majorana and the others. Annals of Physics, 2012, 327, 1617-1644.	2.8	13
26	Majorana Solutions to the Two-Electron Problem. Foundations of Physics, 2012, 42, 1586-1608.	1.3	11
27	Minimal Coupling of the Kalb-Ramond Field to a Scalar Field. International Journal of Theoretical Physics, 2004, 43, 445-456.	1.2	10
28	Baryon asymmetry in the Universe resulting from Lorentz violation. Europhysics Letters, 2006, 74, 747-753.	2.0	10
29	Describing Sr ₂ RuO ₄ superconductivity in a generalized Ginzburg-Landau theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2385-2388.	2.1	10
30	Majorana and the Quasi-Stationary States in Nuclear Physics. Foundations of Physics, 2008, 38, 228-240.	1.3	9
31	A peculiar lecture by Ettore Majorana. European Journal of Physics, 2006, 27, 1147-1156.	0.6	8
32	Teaching theoretical physics: The cases of Enrico Fermi and Ettore Majorana. American Journal of Physics, 2007, 75, 781-790.	0.7	8
33	FLAVOR-CONSERVING OSCILLATIONS OF DIRAC-MAJORANA NEUTRINOS. International Journal of Modern Physics A, 1998, 13, 5023-5036.	1.5	7
34	Ettore Majorana and his heritage seventy years later. Annalen Der Physik, 2008, 17, 302-318.	2.4	7
35	Transition from Majorana to Weyl fermions and anapole moments. Europhysics Letters, 2013, 102, 17006.	2.0	7
36	A GEOMETRIC PICTURE FOR FERMION MASSES. Modern Physics Letters A, 1995, 10, 3077-3081.	1.2	6

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37	An unknown story: Majorana and the Pauli-Weisskopf scalar electrodynamics. <i>Annalen Der Physik</i> , 2007, 16, 824-841.	2.4	6
38	Ettore Majorana's Course on Theoretical Physics: A Recent Discovery. <i>Physics in Perspective</i> , 2007, 9, 329-345.	0.7	6
39	CPT-VIOLATING NEUTRINO OSCILLATIONS. <i>Modern Physics Letters A</i> , 2010, 25, 597-606.	1.2	6
40	Feynman's different approach to electromagnetism. <i>European Journal of Physics</i> , 2019, 40, 065205.	0.6	6
41	Photon Wave Mechanics: A De Broglie-Bohm Approach. <i>Foundations of Physics Letters</i> , 1999, 12, 533-545.	0.6	5
42	Superconductors with two critical temperatures. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 451, 86-89.	1.2	5
43	Magnetic properties of two-phase superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 883-888.	1.2	5
44	A GENERALIZATION OF THE GINZBURG-LANDAU THEORY TO p-WAVE SUPERCONDUCTORS. <i>Modern Physics Letters B</i> , 2008, 22, 1709-1716.	1.9	5
45	Physical realization of photonic Klein tunneling. <i>Europhysics Letters</i> , 2011, 95, 10002.	2.0	5
46	Delayed luminescence induced by complex domains in water and in TEOS aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 772-780.	2.8	5
47	Pontecorvo Neutrino-Antineutrino Oscillations: Theory and Experimental Limits. <i>Modern Physics Letters A</i> , 1997, 12, 1829-1838.	1.2	4
48	Supernova neutrino energy spectra and the MSW effect. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997, 73, 633-639.	1.5	4
49	QUANTUM PHASE EXCITATIONS IN GINZBURG-LANDAU SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , 2006, 20, 737-745.	2.0	4
50	Second discontinuity in the specific heat of two-phase superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 467, 4-8.	1.2	4
51	Black hole dynamical evolution in a Lorentz-violating spacetime. <i>Physical Review D</i> , 2011, 83, .	4.7	4
52	The colours of Newton's Opticks: a high-performance project for motivated students. <i>European Journal of Physics</i> , 2020, 41, 055702.	0.6	4
53	On the indistinguishability of Majorana-from Dirac-neutrino propagation in a stellar medium. <i>Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods</i> , 1996, 111, 1449-1459.	0.2	3
54	Fleeting genius. <i>Physics World</i> , 2006, 19, 34-36.	0.0	3

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55	Fundamental times, lengths and physical constants: Some unknown contributions by Ettore Majorana. <i>Annalen Der Physik</i> , 2010, 522, 456-466.	2.4	3
56	The disappearance of Ettore Majorana: an analytic examination. <i>Contemporary Physics</i> , 2010, 51, 193-209.	1.8	3
57	A road map for Feynman's adventures in the land of gravitation. <i>European Physical Journal H</i> , 2021, 46, 1.	0.8	3
58	When Physics Meets Biology. <i>Transversal: International Journal for the Historiography of Science</i> , 2018, , .	0.2	3
59	THE SOLAR NEUTRINO PROBLEM WITHIN MSW THEORY. <i>Modern Physics Letters A</i> , 1993, 08, 1557-1562.	1.2	2
60	THE ACTION OF NEUTRINO PONDEROMOTIVE FORCE ON SUPERNOVA DYNAMICS. <i>Modern Physics Letters A</i> , 1999, 14, 1763-1773.	1.2	2
61	Primordial nucleosynthesis: Accurate predictions. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2000, 81, 59-62.	0.4	2
62	Hole Theory and Quantum Electrodynamics in an Unknown Manuscript in French by Ettore Majorana. <i>Foundations of Physics</i> , 2007, 37, 1049-1068.	1.3	2
63	A theory of ferromagnetism by Ettore Majorana. <i>Annals of Physics</i> , 2009, 324, 16-29.	2.8	2
64	Ettore Majorana. <i>Springer Biographies</i> , 2017, , .	0.0	2
65	Some insight into Feynman's approach to electromagnetism. <i>European Journal of Physics</i> , 2021, 42, 025206.	0.6	2
66	Flavour transitions of Dirac-Majorana neutrinos. <i>European Physical Journal C</i> , 1998, 4, 221.	3.9	2
67	Spreading Newtonian Philosophy with Instruments: The Case of Atwood's Machine. <i>Advances in Historical Studies</i> , 2014, 03, 68-81.	0.1	2
68	The Genesis of the Quantum Theory of the Chemical Bond. <i>Advances in Historical Studies</i> , 2014, 03, 229-257.	0.1	2
69	From England to Italy: The Intriguing Story of Polini's Engine for the King of Naples. <i>Physics in Perspective</i> , 2021, 23, 104-138.	0.7	2
70	The physical leaky tank car problem, revisited. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	2
71	Three flavour Majorana neutrinos with magnetic moments in a supernova. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997, 76, 479-485.	1.5	1
72	Radiation-induced fermion resonance. <i>Foundations of Physics Letters</i> , 1998, 11, 103-107.	0.6	1

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73	New results in primordial nucleosynthesis. Nuclear Physics, Section B, Proceedings Supplements, 2000, 85, 292-297.	0.4	1
74	THE EFFECT OF VERY LOW ENERGY SOLAR NEUTRINOS ON THE MSW MECHANISM. Modern Physics Letters A, 2004, 19, 2611-2617.	1.2	1
75	Hole Theory and Quantum Electrodynamics in an Unknown Manuscript in French by Ettore Majorana. Foundations of Physics, 2007, 37, 956-976.	1.3	1
76	Majorana, Pauling and the quantum theory of the chemical bond. Annalen Der Physik, 2015, 527, A29.	2.4	1
77	Searching for a response: the intriguing mystery of Feynman's theoretical reference amplifier. European Physical Journal H, 2019, 44, 331-347.	0.8	1
78	A Proposal for Introducing Quantum Physics in the Footsteps of Einstein. Physical Sciences Forum, 2021, 2, .	0.3	1
79	Introducing Quantum and Statistical Physics in the Footsteps of Einstein: A Proposal. Universe, 2021, 7, 184.	2.5	1
80	Darwin and the others: the reception of Poli's Testacea outside Italy and other recent discoveries about the Molfetta scientist. , 2019, , .		1
81	MSW PROCESS IN SUPERNOVAE. Modern Physics Letters A, 1995, 10, 179-181.	1.2	0
82	Supernova neutrino energy spectra and resonant transition effects. Nuclear Physics, Section B, Proceedings Supplements, 1998, 66, 265-268.	0.4	0
83	A degenerate big bang nucleosynthesis from CMB observations ?. Nuclear Physics, Section B, Proceedings Supplements, 2001, 95, 63-65.	0.4	0
84	Ettore Majorana centennial and neutrino legacy. Nuclear Physics, Section B, Proceedings Supplements, 2007, 168, 377-382.	0.4	0
85	The Majorana mystery. Physics World, 2010, 23, 44-45.	0.0	0
86	Can sunlight shift the Earth onto a different orbit?. Physics Education, 2011, 46, 604-606.	0.5	0
87	The fisherman and his net: is Physics discovered or invented?. Contemporary Physics, 2012, 53, 169-172.	1.8	0
88	A new dielectric effect in viscous liquids. EPJ Applied Physics, 2013, 62, 31103.	0.7	0
89	Minimum light transmission in graphene in the presence of a magnetic field. Materials Research Express, 2015, 2, 125005.	1.6	0
90	Phase time and transmission probability in the traversal of a PT-symmetric potential: The case of an electromagnetic waveguide. International Journal of Modern Physics B, 2017, 31, 1750213.	2.0	0

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91	A demonstration device for cosmic rays telescopes. Physics Education, 2018, 53, 015009.	0.5	0
92	A new approach to the Thomasâ€™Fermi boundary-value problem. European Physical Journal Plus, 2020, 135, 1.	2.6	0
93	E. Majorana researcher and teacher: the latest achievements. , 2007, , .		0
94	Dependence of the critical temperature on the Higgs field parametrization. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 115001.	3.6	0
95	40â€™years of history of physics in Italy. Centaurus, 2021, 63, 804-806.	0.6	0