

List of Publications by Year in descending order

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times ranked

134
citing authors

#	ARTICLE	IF	CITATIONS
1	Can Maxwell's equations be obtained from the continuity equation?. American Journal of Physics, 2007, 75, 652-657.	0.7	57
2	Radiation fields of a dipole in arbitrary motion. American Journal of Physics, 1994, 62, 1109-1115.	0.7	29
3	Jefimenko's formulas with magnetic monopoles and the Liénard-Wiechert fields of a dual-charged particle. American Journal of Physics, 1994, 62, 525-531.	0.7	26
4	Time-dependent generalizations of the Biot-Savart and Coulomb laws: A formal derivation. American Journal of Physics, 1995, 63, 928-932.	0.7	20
5	A formal interpretation of the displacement current and the instantaneous formulation of Maxwell's equations. American Journal of Physics, 2011, 79, 409-416.	0.7	20
6	How the potentials in different gauges yield the same retarded electric and magnetic fields. American Journal of Physics, 2007, 75, 176-183.	0.7	19
7	Generalization of the Schott energy in electrodynamic radiation theory. American Journal of Physics, 2006, 74, 150-153.	0.7	16
8	Electric and magnetic fields of a toroidal dipole in arbitrary motion. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 249, 1-9.	2.1	14
9	New approach to the classical radiation fields of moving dipoles. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 237, 343-348.	2.1	14
10	Preacceleration without radiation: The nonexistence of preradiation phenomenon. American Journal of Physics, 2006, 74, 1025-1030.	0.7	14
11	The Galilean limits of Maxwell's equations. American Journal of Physics, 2010, 78, 1048-1055.	0.7	14
12	The covariant formulation of Maxwell's equations expressed in a form independent of specific units. European Journal of Physics, 2009, 30, 23-33.	0.6	13
13	Comment on "Causality, the Coulomb field, and Newton's law of gravitation," by F. Rohrlich [Am. J. Phys. 70 (4), 411-414 (2002)]. American Journal of Physics, 2003, 71, 729-730.	0.7	12
14	Explicit expressions for the electric and magnetic fields of a moving magnetic dipole. Physical Review E, 1998, 58, 5047-5056.	2.1	9
15	Comment on "A generalized Helmholtz theorem for time-varying vector fields," by Artice M. Davis [Am. J. Phys. 74, 72-76 (2006)]. American Journal of Physics, 2006, 74, 743-745.	0.7	9
16	A short proof of the generalized Helmholtz theorem. American Journal of Physics, 1990, 58, 154-155.	0.7	8
17	Electromagnetism in Euclidean four space: A discussion between God and the Devil. American Journal of Physics, 1994, 62, 914-916.	0.7	8
18	The radiation reaction force on an electron reexamined. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 272-277.	2.1	8

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19	The Kirchhoff gauge. <i>Annals of Physics</i> , 2006, 321, 1265-1273.	2.8	8
20	On Feynman's handwritten notes on electromagnetism and the idea of introducing potentials before fields. <i>European Journal of Physics</i> , 2020, 41, 035202.	0.6	7
21	The {oldsymbol{c}} equivalence principle and the correct form of writing Maxwell's equations. <i>European Journal of Physics</i> , 2010, 31, 1177-1185.	0.6	6
22	Comment on "Alternate derivation" of Maxwell's source equations from gauge invariance of classical mechanics, by James S. Marsh [<i>Am. J. Phys.</i> 61, 177-178 (1993)]. <i>American Journal of Physics</i> , 1994, 62, 949-950.	0.7	5
23	Comment on "Helmholtz Theorem and the V-Gauge in the Problem of Superluminal and Instantaneous Signals in Classical Electrodynamics," by A. Chubykalo et al.. <i>Foundations of Physics Letters</i> , 2006, 19, 579-590.	0.6	5
24	The exact relation between the displacement current and the conduction current: Comment on "Time-dependent generalizations of the Biot-Savart and Coulomb laws," by D. J. Griffiths and M. A. Heald [<i>Am. J. Phys.</i> 59 (2), 111-117 (1991)]. <i>American Journal of Physics</i> , 2008, 76, 592-595.	0.7	5
25	How to obtain the covariant form of Maxwell's equations from the continuity equation. <i>European Journal of Physics</i> , 2009, 30, 845-854.	0.6	5
26	Can the Lorenz-gauge potentials be considered physical quantities?. <i>European Journal of Physics</i> , 2010, 31, 307-315.	0.6	5
27	Alternate derivation of the Liénard-Wiechert fields of a point charge. <i>American Journal of Physics</i> , 1996, 64, 409-413.	0.7	4
28	A short proof that the Coulomb-gauge potentials yield the retarded fields. <i>European Journal of Physics</i> , 2011, 32, 213-216.	0.6	4
29	An axiomatic approach to Maxwell's equations. <i>European Journal of Physics</i> , 2016, 37, 055204.	0.6	4
30	Can classical electrodynamics predict nonlocal effects?. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	4
31	Topology, nonlocality and duality in classical electrodynamics. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	4
32	Unified model based on U(1) duality symmetry of polarization and magnetization. <i>Physical Review E</i> , 1998, 58, R6951-R6954.	2.1	3
33	Duality transformations and the Liénard-Wiechert fields of a dual-charged particle. <i>American Journal of Physics</i> , 1995, 63, 242-244.	0.7	2
34	Reply to "Comment(s) on "Preacceleration without radiation: The nonexistence of preradiation phenomenon," by J. D. Jackson [<i>Am. J. Phys.</i> 75 (9), 844-845 (2007)] and V. Hnizdo [<i>Am. J. Phys.</i> 75 (9), 845-846 (2007)]. <i>American Journal of Physics</i> , 2007, 75, 847-850.	0.7	2
35	Comment on "An educational path for the magnetic vector potential and its physical implications". <i>European Journal of Physics</i> , 2014, 35, 028001.	0.6	2
36	Helmholtz's theorem for two retarded fields and its application to Maxwell's equations. <i>European Journal of Physics</i> , 2020, 41, 035201.	0.6	2

#	ARTICLE	IF	CITATIONS
37	The Coulomb static gauge. American Journal of Physics, 2007, 75, 459-462.	0.7	1
38	Reply to "Comment on "Can Maxwell's equations be obtained from the continuity equation?", by E. Kapuscik [Am. J. Phys. 77, 754 (2009)]. American Journal of Physics, 2009, 77, 755-756.	0.7	1
39	A note on the relativistic temperature. European Physical Journal Plus, 2022, 137, 1.	2.6	1
40	A note on the electric and magnetic susceptibilities. European Journal of Physics, 2017, 38, 015202.	0.6	0
41	Decomposition of a symmetric second-order tensor. European Journal of Physics, 2018, 39, 035202.	0.6	0
42	Comment on "defining the electromagnetic potentials". European Journal of Physics, 2021, 42, 028001.	0.6	0
43	Reply to Comments on "Feynman's handwritten notes on electromagnetism and the idea of introducing potentials before fields". European Journal of Physics, 2021, 42, 018002.	0.6	0