Jean-Guy Caputo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Spectral solutions of PDEs on networks. Applied Numerical Mathematics, 2022, 172, 99-117.	2.1	2
2	Breather stripes and radial breathers of the two-dimensional sine-Gordon equation. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105596.	3.3	9
3	Epidemic model on a network: Analysis and applications to COVID-19. Physica A: Statistical Mechanics and Its Applications, 2021, 564, 125520.	2.6	14
4	Stopping a reaction-diffusion front. Physical Review E, 2021, 103, 032210.	2.1	0
5	Analysis of trophic networks: an optimisation approach. Journal of Mathematical Biology, 2021, 83, 53.	1.9	4
6	Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks. IEEE Systems Journal, 2020, 14, 2736-2747.	4.6	13
7	Spectra of chains connected to complete graphs. Linear Algebra and Its Applications, 2020, 605, 29-62.	0.9	1
8	Spectral analysis of load flow equations for transmission networks. Engineering Research Express, 2019, 1, 025007.	1.6	0
9	Scattering of a short electromagnetic pulse from a Lorentz–Duffing film: Theoretical and numerical analysis. Wave Motion, 2019, 89, 43-56.	2.0	1
10	Coupling Conditions for Water Waves at Forks. Symmetry, 2019, 11, 434.	2.2	3
11	Localized solutions of nonlinear network wave equations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 035101.	2.1	1
12	Inverse source problem in a forced network. Inverse Problems, 2019, 35, 055006.	2.0	6
13	On graph Laplacian eigenvectors with components in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e526" altimg="si5.gif"><mml:mrow><mml:mo>{</mml:mo>a^^<mml:mn>1</mml:mn><ml:mo>, Discrete Applied Mathematics. 2019. 269. 120-129.</ml:mo></mml:mrow></mml:math 	<td>o>⁶mml:m⊓</td>	o> ⁶ mml:m⊓
14	The \$\$phi ^4\$\$ Model in Higher Dimensions. Advances in Dynamics, Patterns, Cognition, 2019, , 235-252.	0.3	0
15	Wave dynamics on networks: Method and application to the sine-Gordon equation. Applied Numerical Mathematics, 2018, 131, 54-71.	2.1	10
16	Planar and radial kinks in nonlinear Klein-Gordon models: Existence, stability, and dynamics. Physical Review E, 2018, 98, .	2.1	9
17	Bistable reaction–diffusion on a network. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 075102.	2.1	4
18	Polarization rotation by an rf-SQUID metasurface. Physical Review B. 2015, 91.	3.2	14

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19	Nonlinear waves in networks: Model reduction for the sine-Gordon equation. Physical Review E, 2014, 90, 022912.	2.1	28
20	Radial sine-Gordon kinks as sources of fast breathers. Physical Review E, 2013, 88, 022915.	2.1	12
21	Screening magnetic fields by superconductors: A simple model. Journal of Applied Physics, 2013, 114, 233913.	2.5	6
22	Oscillations of networks: the role of soft nodes. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 035101.	2.1	12
23	Fast control of the reflection of a ferroelectric by means of an extremely short pulse. Journal of Optics (United Kingdom), 2013, 15, 025203.	2.2	0
24	Electrodynamics of a split-ring Josephson resonator in a microwave line. Physical Review B, 2012, 85, .	3.2	16
25	Inhomogeneous parallel arrays of Josephson junctions. Physica C: Superconductivity and Its Applications, 2011, 471, 344-356.	1.2	0
26	High-order harmonic generation by double-photoionization accounting for the correlation between continuum electrons. Optik, 2011, 122, 247-255.	2.9	2
27	Reaction-diffusion front crossing a local defect. Physical Review E, 2011, 84, 041108.	2.1	6
28	Fast electromagnetic response of a thin film of resonant atoms with permanent dipole. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 015206.	2.1	1
29	High-frequency polarization switching of a thin ferroelectric film. Physical Review B, 2010, 82, .	3.2	7
30	Cavity with an embedded polarized film: an adapted spectral approach. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 165204.	2.1	1
31	Front Solutions of Richards' Equation. Transport in Porous Media, 2008, 74, 1-20.	2.6	18
32	Electromagnetically induced switching of ferroelectric thin films. Physical Review B, 2007, 75, .	3.2	16
33	Interference filter properties of nonuniform Josephson junction arrays. Journal of Applied Physics, 2007, 102, .	2.5	6
34	Vortex Polarity Switching by a Spin-Polarized Current. Physical Review Letters, 2007, 98, 056604.	7.8	77
35	Dynamics of point Josephson junctions in a microstrip line. Physica C: Superconductivity and Its Applications, 2005, 425, 69-89.	1.2	11
36	Stimulated Raman scattering with strong damping: A simple theory of the spike phenomenon. Physical Review E, 2005, 71, 036601.	2.1	1

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37	Two point Josephson junctions in a superconducting stripline: static case. Physica C: Superconductivity and Its Applications, 2004, 402, 160-173.	1.2	5
38	Propagation of extremely short pulses in nonresonant media: the total Maxwell–Duffing model. Physica D: Nonlinear Phenomena, 2004, 189, 107-114.	2.8	5
39	Importance of the Internal Shape Mode in Magnetic Vortex Dynamics. Physical Review Letters, 2004, 93, 167201.	7.8	13
40	Extremely short electromagnetic pulses in a resonant medium with a permanent dipole moment. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 94, 245-250.	0.6	37
41	Unidirectional propagation of an ultra-short electromagnetic pulse in a resonant medium with high frequency Stark shift. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 296, 34-42.	2.1	35
42	Nonlinear energy transmission in the gap. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 129-135.	2.1	27
43	Raman solitons in transient SRS. Inverse Problems, 2000, 16, 303-314.	2.0	13
44	Stability analysis of static solutions in a Josephson junction. Superconductor Science and Technology, 2000, 13, 423-438.	3.5	17
45	Effective sine-Gordon model for the static properties of narrow window junctions. Journal of Applied Physics, 1999, 85, 7291-7301.	2.5	11
46	Two-dimensional effects in Josephson junctions: Static properties. Physical Review E, 1996, 54, 2092-2101.	2.1	18
47	EFFECT OF GEOMETRY ON FLUXON WIDTH IN A JOSEPHSON JUNCTION. International Journal of Modern Physics C, 1996, 07, 191-216.	1.7	20
48	A SEMI-LINEAR ELLIPTIC PDE MODEL FOR THE STATIC SOLUTION OF JOSEPHSON JUNCTIONS. International Journal of Modern Physics C, 1995, 06, 241-262.	1.7	18