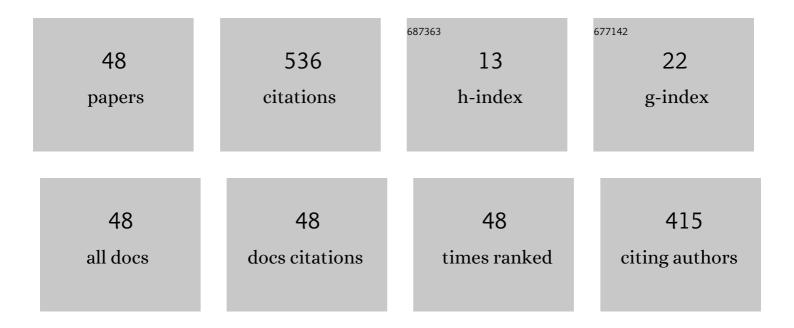
## Jean-Guy Caputo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Vortex Polarity Switching by a Spin-Polarized Current. Physical Review Letters, 2007, 98, 056604.	7.8	77
2	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
3	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
4	Nonlinear waves in networks: Model reduction for the sine-Gordon equation. Physical Review E, 2014, 90, 022912.	2.1	28
5	Nonlinear energy transmission in the gap. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 129-135.	2.1	27
6	EFFECT OF GEOMETRY ON FLUXON WIDTH IN A JOSEPHSON JUNCTION. International Journal of Modern Physics C, 1996, 07, 191-216.	1.7	20
7	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
8	Two-dimensional effects in Josephson junctions: Static properties. Physical Review E, 1996, 54, 2092-2101.	2.1	18
9	Front Solutions of Richards' Equation. Transport in Porous Media, 2008, 74, 1-20.	2.6	18
10	Stability analysis of static solutions in a Josephson junction. Superconductor Science and Technology, 2000, 13, 423-438.	3.5	17
11	Electromagnetically induced switching of ferroelectric thin films. Physical Review B, 2007, 75, .	3.2	16
12	Electrodynamics of a split-ring Josephson resonator in a microwave line. Physical Review B, 2012, 85, .	3.2	16
13	Polarization rotation by an rf-SQUID metasurface. Physical Review B, 2015, 91, .	3.2	14
14	Epidemic model on a network: Analysis and applications to COVID-19. Physica A: Statistical Mechanics and Its Applications, 2021, 564, 125520.	2.6	14
15	Raman solitons in transient SRS. Inverse Problems, 2000, 16, 303-314.	2.0	13
16	Importance of the Internal Shape Mode in Magnetic Vortex Dynamics. Physical Review Letters, 2004, 93, 167201.	7.8	13
17	Spectral Graph Analysis of the Geometry of Power Flows in Transmission Networks. IEEE Systems Journal, 2020, 14, 2736-2747.	4.6	13
18	Radial sine-Gordon kinks as sources of fast breathers. Physical Review E, 2013, 88, 022915.	2.1	12

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#	Article	IF	CITATIONS
19	Oscillations of networks: the role of soft nodes. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 035101.	2.1	12
20	Effective sine-Gordon model for the static properties of narrow window junctions. Journal of Applied Physics, 1999, 85, 7291-7301.	2.5	11
21	Dynamics of point Josephson junctions in a microstrip line. Physica C: Superconductivity and Its Applications, 2005, 425, 69-89.	1.2	11
22	Wave dynamics on networks: Method and application to the sine-Gordon equation. Applied Numerical Mathematics, 2018, 131, 54-71.	2.1	10
23	Planar and radial kinks in nonlinear Klein-Gordon models: Existence, stability, and dynamics. Physical Review E, 2018, 98, .	2.1	9
24	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
25	High-frequency polarization switching of a thin ferroelectric film. Physical Review B, 2010, 82, .	3.2	7
26	Interference filter properties of nonuniform Josephson junction arrays. Journal of Applied Physics, 2007, 102, .	2.5	6
27	Reaction-diffusion front crossing a local defect. Physical Review E, 2011, 84, 041108.	2.1	6
28	Screening magnetic fields by superconductors: A simple model. Journal of Applied Physics, 2013, 114, 233913.	2.5	6
29	Inverse source problem in a forced network. Inverse Problems, 2019, 35, 055006.	2.0	6
30	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"&gt;<mml:mrow><mml:mo>{</mml:mo><mml:mo>a^`</mml:mo><mml:mo><mml:mo> Discrete Applied Mathematics, 2019, 269, 120-129.</mml:mo></mml:mo></mml:mrow></mml:math 	>,< <mark>0.9</mark>	o> <sup>6</sup> mml:mn>
31	Two point Josephson junctions in a superconducting stripline: static case. Physica C: Superconductivity and Its Applications, 2004, 402, 160-173.	1.2	5
32	Propagation of extremely short pulses in nonresonant media: the total Maxwell–Duffing model. Physica D: Nonlinear Phenomena, 2004, 189, 107-114.	2.8	5
33	Bistable reaction–diffusion on a network. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 075102.	2.1	4
34	Analysis of trophic networks: an optimisation approach. Journal of Mathematical Biology, 2021, 83, 53.	1.9	4
35	Coupling Conditions for Water Waves at Forks. Symmetry, 2019, 11, 434.	2.2	3
36	High-order harmonic generation by double-photoionization accounting for the correlation between continuum electrons. Optik, 2011, 122, 247-255.	2.9	2

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#	Article	IF	CITATIONS
37	Spectral solutions of PDEs on networks. Applied Numerical Mathematics, 2022, 172, 99-117.	2.1	2
38	Stimulated Raman scattering with strong damping: A simple theory of the spike phenomenon. Physical Review E, 2005, 71, 036601.	2.1	1
39	Cavity with an embedded polarized film: an adapted spectral approach. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 165204.	2.1	1
40	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
41	Scattering of a short electromagnetic pulse from a Lorentz–Duffing film: Theoretical and numerical analysis. Wave Motion, 2019, 89, 43-56.	2.0	1
42	Localized solutions of nonlinear network wave equations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 035101.	2.1	1
43	Spectra of chains connected to complete graphs. Linear Algebra and Its Applications, 2020, 605, 29-62.	0.9	1
44	Inhomogeneous parallel arrays of Josephson junctions. Physica C: Superconductivity and Its Applications, 2011, 471, 344-356.	1.2	0
45	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	Ο
46	Spectral analysis of load flow equations for transmission networks. Engineering Research Express, 2019, 1, 025007.	1.6	0
47	Stopping a reaction-diffusion front. Physical Review E, 2021, 103, 032210.	2.1	0
48	The \$\$phi ^4\$\$ Model in Higher Dimensions. Advances in Dynamics, Patterns, Cognition, 2019, , 235-252.	0.3	0