

# Giuseppe D Aguanno

## List of Publications by Citations

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73  
papers

2,305  
citations

24  
h-index

46  
g-index

84  
ext. papers

2,650  
ext. citations

3  
avg, IF

4.55  
L-index

#	Paper	IF	Citations
73	Dispersive properties of finite, one-dimensional photonic band gap structures: applications to nonlinear quadratic interactions. <i>Physical Review E</i> , <b>1999</b> , 60, 4891-8	2.4	243
72	Generalized nonlinear Schrödinger equation for dispersive susceptibility and permeability: application to negative index materials. <i>Physical Review Letters</i> , <b>2005</b> , 95, 013902	7.4	160
71	Plasmonic Brewster angle: broadband extraordinary transmission through optical gratings. <i>Physical Review Letters</i> , <b>2011</b> , 106, 123902	7.4	133
70	Negative refraction and sub-wavelength focusing in the visible range using transparent metallo-dielectric stacks. <i>Optics Express</i> , <b>2007</b> , 15, 508-23	3.3	129
69	Enhancement of second-harmonic generation in a one-dimensional semiconductor photonic band gap. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3021-3023	3.4	129
68	Nonlinear plasmonic cloaks to realize giant all-optical scattering switching. <i>Physical Review Letters</i> , <b>2012</b> , 108, 263905	7.4	121
67	Photonic band edge effects in finite structures and applications to chi 2 interactions. <i>Physical Review E</i> , <b>2001</b> , 64, 016609	2.4	71
66	Bright and dark gap solitons in a negative index Fabry-Pérot etalon. <i>Physical Review Letters</i> , <b>2004</b> , 93, 213902	7.4	62
65	Broadband metamaterial for nonresonant matching of acoustic waves. <i>Scientific Reports</i> , <b>2012</b> , 2, 340	4.9	59
64	Group velocity, energy velocity, and superluminal propagation in finite photonic band-gap structures. <i>Physical Review E</i> , <b>2001</b> , 63, 036610	2.4	58
63	Dynamics of short pulses and phase matched second harmonic generation in negative index materials. <i>Optics Express</i> , <b>2006</b> , 14, 4746-56	3.3	51
62	Density of modes and tunneling times in finite one-dimensional photonic crystals: a comprehensive analysis. <i>Physical Review E</i> , <b>2004</b> , 70, 016612	2.4	46
61	Transmission resonances in plasmonic metallic gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2011</b> , 28, 253	1.7	42
60	Experimental demonstration of plasmonic Brewster angle extraordinary transmission through extreme subwavelength slit arrays in the microwave. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	38
59	Generalized coupled-mode theory for $\chi(2)$ interactions in finite multilayered structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 2111	1.7	38
58	Plasmonic nanoparticles and metasurfaces to realize Fano spectra at ultraviolet wavelengths. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 143113	3.4	36
57	All-optical switching at the Fano resonances in subwavelength gratings with very narrow slits. <i>Optics Letters</i> , <b>2011</b> , 36, 1984-6	3	35

56	Enhancement of $\chi^{(2)}$ cascading processes in one-dimensional photonic bandgap structures. <i>Optics Letters</i> , <b>1999</b> , 24, 1663-5	3	35
55	Broadband super-resolving lens with high transparency in the visible range. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 174113	3-4	33
54	Ultraviolet surface-enhanced Raman scattering at the plasmonic band edge of a metallic grating. <i>Optics Express</i> , <b>2012</b> , 20, 1868-77	3-3	31
53	Second-harmonic generation from a positive-negative index material heterostructure. <i>Physical Review E</i> , <b>2005</b> , 72, 066612	2-4	29
52	Quenched optical transmission in ultrathin subwavelength plasmonic gratings. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	28
51	Nonlinear pulse propagation in one-dimensional metal-dielectric multilayer stacks: ultrawide bandwidth optical limiting. <i>Physical Review E</i> , <b>2006</b> , 73, 016603	2-4	27
50	Transmission function properties for multi-layered structures: application to super-resolution. <i>Optics Express</i> , <b>2009</b> , 17, 17517-29	3-3	25
49	Broadband Brewster transmission through 2D metallic gratings. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 094317	2-5	24
48	Nonlinear mode coupling in whispering-gallery-mode resonators. <i>Physical Review A</i> , <b>2016</b> , 93,	2-6	23
47	Negative refraction of ultra-short electromagnetic pulses. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 393-402	1-9	23
46	TE and TM guided modes in an air waveguide with negative-index-material cladding. <i>Physical Review E</i> , <b>2005</b> , 71, 046603	2-4	23
45	Temporal soliton excitation in a near-zero plasmonic metamaterial. <i>Optics Letters</i> , <b>2014</b> , 39, 5566-9	3	22
44	Taming the thermal emissivity of metals: A metamaterial approach. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 201109	3-4	22
43	Optical vortices during a superresolution process in a metamaterial. <i>Physical Review A</i> , <b>2008</b> , 77,	2-6	22
42	Dispersion-free pulse propagation in a negative-index material. <i>Optics Letters</i> , <b>2005</b> , 30, 1998-2000	3	22
41	Energy exchange properties during second-harmonic generation in finite one-dimensional photonic band-gap structures with deep gratings. <i>Physical Review E</i> , <b>2003</b> , 67, 016606	2-4	22
40	Non-phase-matched enhancement of second-harmonic generation in multilayer nonlinear structures with internal reflections. <i>Optics Letters</i> , <b>2004</b> , 29, 1924-6	3	22
39	Ultraslow light pulses in a nonlinear metamaterial. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 1236	1-7	19

38	Thermal emission from a metamaterial wire medium slab. <i>Optics Express</i> , <b>2012</b> , 20, 9784-9	3.3	18
37	Broadband omnidirectional reflection from negative index materials. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 261921	3.4	18
36	Dissipative cnoidal waves (Turing rolls) and the soliton limit in microring resonators. <i>Optica</i> , <b>2019</b> , 6, 1228.6		18
35	Phase-matched second harmonic generation at the Dirac point of a 2-D photonic crystal. <i>Optics Express</i> , <b>2014</b> , 22, 6381-90	3.3	17
34	Second-harmonic generation at angular incidence in a negative-positive index photonic band-gap structure. <i>Physical Review E</i> , <b>2006</b> , 74, 026608	2.4	17
33	Signal velocity and group velocity for an optical pulse propagating through a GaAs cavity. <i>Physical Review E</i> , <b>2003</b> , 68, 016602	2.4	17
32	Energy considerations for a superlens based on metal/dielectric multilayers. <i>Optics Express</i> , <b>2008</b> , 16, 19342-53	3.3	16
31	Radiation pressure of light pulses and conservation of linear momentum in dispersive media. <i>Physical Review E</i> , <b>2006</b> , 73, 056604	2.4	16
30	Large enhancement of interface second-harmonic generation near the zero-n(-) gap of a negative-index Bragg grating. <i>Physical Review E</i> , <b>2006</b> , 73, 036603	2.4	16
29	Efficient nonlinear infrared parametric generation in one-dimensional photonic band gap structures. <i>Optics Communications</i> , <b>2001</b> , 189, 135-142	2	16
28	Enhanced second-harmonic generation from resonant GaAs gratings. <i>Optics Letters</i> , <b>2011</b> , 36, 704-6	3	14
27	Field localization and enhancement of phase-locked second- and third-order harmonic generation in absorbing semiconductor cavities. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	14
26	Gap solitons in a nonlinear quadratic negative-index cavity. <i>Physical Review E</i> , <b>2007</b> , 75, 066606	2.4	14
25	Transit time of optical pulses propagating through a finite length medium. <i>Physical Review E</i> , <b>2002</b> , 65, 056615	2.4	14
24	Experimental study of Bloch vector analysis in nonlinear, finite, dissipative systems. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	13
23	Long range plasmon assisted all-optical switching at telecommunication wavelengths. <i>Optics Letters</i> , <b>2012</b> , 37, 121-3	3	13
22	Dynamics of counterpropagating pulses in photonic crystals: enhancement and suppression of stimulated emission processes. <i>Physical Review E</i> , <b>2003</b> , 67, 036617	2.4	12
21	Transit time of chirped pulses through one-dimensional, nonabsorbing barriers. <i>Optics Letters</i> , <b>2002</b> , 27, 176-8	3	12

20	Ultra-broadband, polarization-independent, wide-angle absorption in impedance-matched metamaterials with anti-reflective moth-eye surfaces. <i>Optics Express</i> , <b>2018</b> , 26, 24031-24043	3.3	12
19	Nonlinearity-based circulator. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 181102	3.4	11
18	All-optical bistability and switching near the Dirac point of a 2-D photonic crystal. <i>Optics Express</i> , <b>2013</b> , 21, 11862-8	3.3	10
17	Coherence length for second-harmonic generation in nonlinear, one-dimensional, finite, multilayered structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 877	1.7	10
16	Homogenization procedure for a metamaterial and local violation of the second principle of thermodynamics. <i>Optics Communications</i> , <b>2010</b> , 283, 1613-1620	2	8
15	Influence of losses on the superresolution performances of an impedance-matched negative-index material. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 236	1.7	8
14	Reflectivity control via second-order interaction process in one-dimensional photonic band-gap structures. <i>Optics Communications</i> , <b>2000</b> , 184, 283-288	2	8
13	Coherent thermal emission near 10.6 $\mu\text{m}$ mediated by localized phonon-polariton modes in microparticle arrays. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 031110	3.4	7
12	Second harmonic generation from metallo-dielectric multilayered structures in the plasmonic regime. <i>Optics Express</i> , <b>2010</b> , 18, 23698-710	3.3	7
11	Pulse propagation, dispersion, and energy in magnetic materials. <i>Physical Review E</i> , <b>2005</b> , 72, 066601	2.4	7
10	Optically transparent microwave absorber based on water-based moth-eye structures. <i>Optics Express</i> , <b>2021</b> , 29, 9190-9198	3.3	7
9	Mode-matched Fano resonances for all-optical switching applications. <i>Optics Communications</i> , <b>2012</b> , 285, 1945-1948	2	6
8	Accessing quadratic nonlinearities of metals through metallodielectric photonic-band-gap structures. <i>Physical Review E</i> , <b>2006</b> , 74, 036605	2.4	5
7	Collinear terahertz generation in photonic crystal structures via difference-frequency generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2006</b> , 23, 168	1.7	3
6	Quasi-normal modes description of waves in 1-D photonic crystal <b>2003</b> ,		3
5	Cross-phase modulation in one-dimensional photonic crystals: applications to all-optical devices. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 389-391	1.9	3
4	Switching intense laser pulses guided by Kerr-effect-modified modes of a hollow-core photonic-crystal fiber. <i>Physical Review E</i> , <b>2005</b> , 71, 026609	2.4	3
3	Deterministic access of broadband frequency combs in microresonators using cnoidal waves in the soliton crystal limit. <i>Optics Express</i> , <b>2020</b> , 28, 36304-36315	3.3	3

- 2 Nonlinear topological transitions over a metasurface. *Physical Review B*, **2019**, 100, 3.3 2
- 1 Tree-tensor-network classifiers for machine learning: From quantum inspired to quantum assisted. *Physical Review A*, **2021**, 104, 2.6 1