

Giuseppe Castaldi

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91
papers

3,255
citations

25
h-index

55
g-index

110
ext. papers

3,957
ext. citations

5.6
avg, IF

5
L-index

#	Paper	IF	Citations
91	Performing mathematical operations with metamaterials. <i>Science</i> , 2014 , 343, 160-3	33.3	504
90	Space-time-coding digital metasurfaces. <i>Nature Communications</i> , 2018 , 9, 4334	17.4	367
89	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009 , 460, 990-4	50.4	267
88	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. <i>Astrophysical Journal</i> , 2008 , 683, L45-L49	4.7	148
87	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010 , 713, 671-685	4.7	140
86	PT metamaterials via complex-coordinate transformation optics. <i>Physical Review Letters</i> , 2013 , 110, 173901	7.4	139
85	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008 , 681, 1419-1430	4.7	126
84	Breaking Reciprocity with Space-Time-Coding Digital Metasurfaces. <i>Advanced Materials</i> , 2019 , 31, e1904069	11.9	113
83	Coding Metasurfaces for Diffuse Scattering: Scaling Laws, Bounds, and Suboptimal Design. <i>Advanced Optical Materials</i> , 2017 , 5, 1700455	8.1	87
82	All-sky LIGO search for periodic gravitational waves in the early fifth-science-run data. <i>Physical Review Letters</i> , 2009 , 102, 111102	7.4	77
81	Optical fiber meta-tips. <i>Light: Science and Applications</i> , 2017 , 6, e16226	16.7	70
80	Search for gravitational-wave bursts in LIGO data from the fourth science run. <i>Classical and Quantum Gravity</i> , 2007 , 24, 5343-5369	3.3	70
79	Tunneling of obliquely incident waves through PT-symmetric epsilon-near-zero bilayers. <i>Physical Review B</i> , 2014 , 89,	3.3	67
78	Search for gravitational-wave bursts from soft gamma repeaters. <i>Physical Review Letters</i> , 2008 , 101, 211102	7.4	64
77	SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. <i>Astrophysical Journal</i> , 2010 , 715, 1438-1452	4.7	54
76	PT-symmetry-induced wave confinement and guiding in Ehear-zero metamaterials. <i>Physical Review B</i> , 2015 , 91,	3.3	48
75	Cloak/anti-cloak interactions. <i>Optics Express</i> , 2009 , 17, 3101-14	3.3	46

74	Nonlocal transformation optics. <i>Physical Review Letters</i> , 2012 , 108, 063902	7.4	41
73	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. <i>Astrophysical Journal</i> , 2009 , 701, L68-L74	4.7	40
72	Independent Manipulation of Heat and Electrical Current via Bifunctional Metamaterials. <i>Physical Review X</i> , 2014 , 4,	9.1	34
71	AN EXACT SYNTHESIS METHOD FOR DUAL-BAND CHEBYSHEV IMPEDANCE TRANSFORMERS. <i>Progress in Electromagnetics Research</i> , 2008 , 86, 305-319	3.8	31
70	Evidence of local effects in anomalous refraction and focusing properties of dodecagonal photonic quasicrystals. <i>Physical Review B</i> , 2008 , 77,	3.3	30
69	Evidence of guided resonances in photonic quasicrystal slabs. <i>Physical Review B</i> , 2011 , 84,	3.3	26
68	General class of metamaterial transformation slabs. <i>Physical Review B</i> , 2010 , 81,	3.3	26
67	Electromagnetic tunneling through a single-negative slab paired with a double-positive bilayer. <i>Physical Review B</i> , 2011 , 83,	3.3	26
66	Astrophysically triggered searches for gravitational waves: status and prospects. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114051	3.3	24
65	Excitation of Bloch Surface Waves on an Optical Fiber Tip. <i>Advanced Optical Materials</i> , 2018 , 6, 1800477	8.1	23
64	Supersymmetry-inspired non-Hermitian optical couplers. <i>Scientific Reports</i> , 2015 , 5, 8568	4.9	21
63	Analytical study of subwavelength imaging by uniaxial epsilon-near-zero metamaterial slabs. <i>Physical Review B</i> , 2012 , 86,	3.3	21
62	Dispersion engineering via nonlocal transformation optics. <i>Optica</i> , 2016 , 3, 179	8.6	21
61	Joint Multi-Frequency Beam Shaping and Steering via Space-Time-Coding Digital Metasurfaces. <i>Advanced Functional Materials</i> , 2021 , 31, 2007620	15.6	21
60	Suboptimal Coding Metasurfaces for Terahertz Diffuse Scattering. <i>Scientific Reports</i> , 2018 , 8, 11908	4.9	20
59	Optical nonlocality in multilayered hyperbolic metamaterials based on Thue-Morse superlattices. <i>Physical Review B</i> , 2013 , 87,	3.3	19
58	Reconfigurable anisotropy and functional transformations with VO ₂ -based metamaterial electric circuits. <i>Physical Review B</i> , 2015 , 91,	3.3	19
57	First joint search for gravitational-wave bursts in LIGO and GEO 600 data. <i>Classical and Quantum Gravity</i> , 2008 , 25, 245008	3.3	19

56	Mode confinement in photonic quasicrystal point-defect cavities for particle accelerators. <i>Applied Physics Letters</i> , 2008 , 93, 164102	3.4	18
55	Tuning efficiency and sensitivity of guided resonances in photonic crystals and quasi-crystals: a comparative study. <i>Optics Express</i> , 2010 , 18, 17280-93	3.3	17
54	Transformation Media for Thin Planar Retrodirective Reflectors. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 603-605	3.8	17
53	Optimized multilayer dielectric mirror coatings for gravitational wave interferometers 2006 ,		17
52	Optical isolation via unidirectional resonant photon tunneling. <i>Journal of Applied Physics</i> , 2014 , 115, 043107	3.7	16
51	Power scattering and absorption mediated by cloak/anti-cloak interactions: a transformation-optics route toward invisible sensors. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 2132 ¹⁻⁷	1.7	16
50	Analytical study of spherical cloak/anti-cloak interactions. <i>Wave Motion</i> , 2011 , 48, 455-467	1.8	16
49	Grating-coupling-based excitation of Bloch surface waves for lab-on-fiber optrodes. <i>Optics Express</i> , 2016 , 24, 27771-27784	3.3	15
48	Guided resonances in photonic quasicrystals. <i>Optics Express</i> , 2009 , 17, 6335-46	3.3	15
47	Transformation-Optics-Based Design of a Metamaterial Radome for Extending the Scanning Angle of a Phased-Array Antenna. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2017 , 2, 159-167	1.5	14
46	Enhanced Faraday rotation via resonant tunnelling in tri-layers containing magneto-optical metals. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 025002	3	12
45	EVALUATION OF A NEURAL-NETWORK-BASED ADAPTIVE BEAMFORMING SCHEME WITH MAGNITUDE-ONLY CONSTRAINTS. <i>Progress in Electromagnetics Research B</i> , 2009 , 11, 1-14	0.7	12
44	Hybrid photonic-bandgap accelerating cavities. <i>New Journal of Physics</i> , 2009 , 11, 113022	2.9	12
43	Exploiting space-time duality in the synthesis of impedance transformers via temporal metamaterials. <i>Nanophotonics</i> , 2021 ,	6.3	12
42	Magnified imaging based on non-Hermitian nonlocal cylindrical metasurfaces. <i>Physical Review B</i> , 2017 , 95,	3.3	11
41	Non-Hermiticity-induced wave confinement and guiding in loss-gain-loss three-layer systems. <i>Physical Review A</i> , 2016 , 94,	2.6	10
40	Electromagnetic tunneling of obliquely incident waves through a single-negative slab paired with a double-positive uniaxial slab. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2362	1.7	10
39	A dual-band Chebyshev impedance transformer. <i>Microwave and Optical Technology Letters</i> , 2003 , 39, 141-145	1.2	10

38	Experimental evidence of cut-wire-induced enhanced transmission of transverse-electric fields through sub-wavelength slits in a thin metallic screen. <i>Optics Express</i> , 2010 , 18, 26769-74	3.3	9
37	Boundary Effects of Weak Nonlocality in Multilayered Dielectric Metamaterials. <i>Physical Review Applied</i> , 2018 , 10,	4.3	9
36	Non-Hermitian doping of epsilon-near-zero media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13921-13928	11.5	8
35	Nonreciprocal Metasurfaces: Breaking Reciprocity with Space-Time-Coding Digital Metasurfaces (Adv. Mater. 41/2019). <i>Advanced Materials</i> , 2019 , 31, 1970295	24	8
34	Guided resonances in photonic crystals with point-defected aperiodically-ordered supercells. <i>Optics Express</i> , 2009 , 17, 19586-98	3.3	8
33	Nearly perfect nonmagnetic invisibility cloaking: Analytic solutions and parametric studies. <i>Physical Review B</i> , 2009 , 80,	3.3	8
32	Analytic structure of a family of hyperboloidal beams of potential interest for advanced LIGO. <i>Physical Review D</i> , 2006 , 73,	4.9	8
31	Aperiodic order induced enhancement of weak nonlocality in multilayered dielectric metamaterials. <i>Physical Review B</i> , 2018 , 98,	3.3	8
30	Efficient Faulty Element Diagnostics of Large Antenna Arrays by Discrete Mean Field Neural Nets. <i>Progress in Electromagnetics Research</i> , 2000 , 25, 53-76	3.8	7
29	Extreme-Parameter Non-Hermitian Dielectric Metamaterials. <i>ACS Photonics</i> , 2020 , 7, 2578-2588	6.3	7
28	Harnessing Spectral Singularities in Non- Hermitian Cylindrical Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1704-1716	4.9	7
27	A higher-order optical transformation for nonmagnetic cloaking. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 3186-3190	1.2	6
26	Genetically Optimized Metasurface Pairs for Wideband Out-of-Phase Mutual Response. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 788-791	3.8	5
25	Line Waves in Non-Hermitian Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 2064-2072	6.3	4
24	Recent advances and perspectives on space-time coding digital metasurfaces. <i>EPJ Applied Metamaterials</i> , 2020 , 7, 7	0.8	4
23	Surface-Wave Propagation on Non-Hermitian Metasurfaces With Extreme Anisotropy. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2060-2071	4.1	4
22	Degenerate-band-edge engineering inspired by nonlocal transformation optics. <i>EPJ Applied Metamaterials</i> , 2016 , 3, 2	0.8	4
21	Parametric study of guided resonances in octagonal photonic quasicrystals. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 2737-2740	1.2	3

20	Radiation from Fibonacci-type Quasiperiodic Arrays on Dielectric Substrates. <i>Journal of Electromagnetic Waves and Applications</i> , 2007 , 21, 1231-1245	1.3	3
19	Perspectives on beam-shaping optimization for thermal-noise reduction in advanced gravitational-wave interferometric detectors: Bounds, profiles, and critical parameters. <i>Physical Review D</i> , 2007 , 76,	4.9	3
18	Effects of deterministic disorder at deeply subwavelength scales in multilayered dielectric metamaterials. <i>Optics Express</i> , 2020 , 28, 10199-10209	3.3	3
17	Nonlocal effects in temporal metamaterials. <i>Nanophotonics</i> , 2022 , 11, 1285-1295	6.3	3
16	A transformation-optics-inspired route to sensor invisibility based on cloak/anti-cloak interactions 2010 ,		2
15	A Study of Ray-Chaotic Cylindrical Scatterers. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 2638-2648	4.9	2
14	Scattering Properties of One-Dimensional Aperiodically-Ordered Strip Arrays Based on Two-Symbol Substitutional Sequences. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1554-1563	4.9	2
13	Anomalous light transport induced by deeply subwavelength quasiperiodicity in multilayered dielectric metamaterials. <i>Physical Review B</i> , 2020 , 102,	3.3	2
12	Optical fiber meta-tips: perspectives in sensing applications 2017 ,		1
11	Short-Pulsed Wavepacket Propagation in Ray-Chaotic Enclosures. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 3827-3837	4.9	1
10	Electromagnetic funneling through a single-negative slab paired with a double-positive transformation slab. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2013 , 32, 1821-1833	0.7	1
9	Paired Cut-Wire Arrays for Enhanced Transmission of Transverse-Electric Fields Through Subwavelength Slits in a Thin Metallic Screen. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 641-644	3.8	1
8	Transformation optics-inspired metamaterial coatings for controlling the scattering response of wedge/corner-type structures. <i>Microwave and Optical Technology Letters</i> , 2009 , 51, 2709-2712	1.2	1
7	Synthesizing quasi-bound states in the continuum in epsilon-near-zero layered materials. <i>Applied Physics Letters</i> , 2021 , 119, 171110	3.4	1
6	Transformation-Based Cloak/Anti-Cloak Interactions: A Review 2014 , 167-190		1
5	Selected Applications of Transformation Electromagnetics. <i>Advances in Science and Technology</i> , 2010 , 75, 246-255	0.1	
4	IN-PLANE PROPAGATION IN PHOTONIC QUASI-CRYSTALS: BAND-GAP, CONFINEMENT, AND FOCUSING 2011 , 47-74		
3	OUT-OF-PLANE PROPAGATION IN PHOTONIC QUASI-CRYSTALS: GUIDED RESONANCES 2011 , 75-111		

- 2 Efficient Faulty Element Diagnostics of Large Antenna Arrays By Discrete Mean Field Neural Nets - Abstract *. *Journal of Electromagnetic Waves and Applications*, **1999**, 13, 1685-1686 1.3
- 1 Wave Propagation and Field Manipulation in Non-Hermitian Metamaterials **2018**, 545-567