List of Publications by Year in descending order

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FARIO MANCINI

#	Article	IF	CITATIONS
1	Cancer Diagnosis Using Deep Learning: A Bibliographic Review. Cancers, 2019, 11, 1235.	3.7	268
2	A Novel Technique for Open-Stopband Suppression in 1-D Periodic Printed Leaky-Wave Antennas. IEEE Transactions on Antennas and Propagation, 2009, 57, 1894-1906.	5.1	234
3	Full-Wave Modal Dispersion Analysis and Broadside Optimization for a Class of Microstrip CRLH Leaky-Wave Antennas. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2826-2837.	4.6	152
4	Introduction to electromagnetic scattering: tutorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 163.	1.5	70
5	Scattering by a Circular Cylinder Buried Under a Slightly Rough Surface: The Cylindrical-Wave Approach. IEEE Transactions on Antennas and Propagation, 2012, 60, 2834-2842.	5.1	54
6	Ultra-thin narrow-band, complementary narrow-band, and dual-band metamaterial absorbers for applications in the THz regime. Journal of Applied Physics, 2017, 121, .	2.5	53
7	Nonlinear beam self-imaging and self-focusing dynamics in a GRIN multimode optical fiber: theory and experiments. Optics Express, 2020, 28, 24005.	3.4	52
8	Statistical mechanics of beam self-cleaning in GRIN multimode optical fibers. Optics Express, 2022, 30, 10850.	3.4	49
9	Regularization of Mixed-Potential Layered-Media Green's Functions for Efficient Interpolation Procedures in Planar Periodic Structures. IEEE Transactions on Antennas and Propagation, 2009, 57, 122-134.	5.1	48
10	Brain Networks Underlying Eye's Pupil Dynamics. Frontiers in Neuroscience, 2019, 13, 965.	2.8	42
11	Scattering by Perfectly Conducting Circular Cylinders Buried in a Dielectric Slab Through the Cylindrical Wave Approach. IEEE Transactions on Antennas and Propagation, 2009, 57, 1208-1217.	5.1	39
12	Electromagnetic Scattering by a Metallic Cylinder Buried in a Lossy Medium With the Cylindrical-Wave Approach. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 179-183.	3.1	39
13	Scattering by dielectric circular cylinders in a dielectric slab. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 687.	1.5	37
14	Multiphoton-Absorption-Excited Up-Conversion Luminescence in Optical Fibers. Physical Review Applied, 2020, 14, .	3.8	34
15	Thermalization of Orbital Angular Momentum Beams in Multimode Optical Fibers. Physical Review Letters, 2022, 128, .	7.8	29
16	On the electromagnetic power transmission between two lossy media: discussion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2281.	1.5	28
17	Homogenization of a multilayer sphere as a radial uniaxial sphere: features and limits. Journal of Electromagnetic Waves and Applications, 2014, 28, 916-931.	1.6	28
18	Polarization-maintaining reflection-mode THz time-domain spectroscopy of a polyimide based ultra-thin narrow-band metamaterial absorber. Scientific Reports, 2018, 8, 1985.	3.3	28

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19	High-energy soliton fission dynamics in multimode GRIN fiber. Optics Express, 2020, 28, 20473.	3.4	27
20	Single-mode spatiotemporal soliton attractor in multimode GRIN fibers. Photonics Research, 2021, 9, 741.	7.0	26
21	Conditions for walk-off soliton generation in a multimode fiber. Communications Physics, 2021, 4, .	5.3	26
22	Spectral domain method for the electromagnetic scattering by a buried sphere. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 783.	1.5	25
23	Measurement System for Evaluating Dielectric Permittivity of Granular Materials in the 1.7–2.6-GHz Band. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1051-1059.	4.7	24
24	3D time-domain beam mapping for studying nonlinear dynamics in multimode optical fibers. Optics Letters, 2021, 46, 66.	3.3	24
25	Short-Pulse Electromagnetic Scattering by Buried Perfectly Conducting Cylinders. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 611-615.	3.1	22
26	Electromagnetic scattering of an inhomogeneous elliptically polarized plane wave by a multilayered sphere. Journal of Electromagnetic Waves and Applications, 2016, 30, 492-504.	1.6	22
27	Femtosecond nonlinear losses in multimode optical fibers. Photonics Research, 2021, 9, 2443.	7.0	22
28	Introduction to electromagnetic scattering, part II: tutorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1300.	1.5	22
29	Electromagnetic interaction with two eccentric spheres. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 783.	1.5	21
30	Electromagnetic scattering by two concentric spheres buried in a stratified material. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 277.	1.5	21
31	Spatiotemporal beam self-cleaning for high-resolution nonlinear fluorescence imaging with multimode fiber. Scientific Reports, 2021, 11, 18240.	3.3	19
32	Vectorial spherical-harmonics representation of an inhomogeneous elliptically polarized plane wave. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1379.	1.5	18
33	Electromagnetic scattering by a buried sphere in a lossy medium of an inhomogeneous plane wave at arbitrary incidence: spectral-domain method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 947.	1.5	18
34	Stepped leaky-wave antennas for microwave and millimeter wave applications. Annales Des Telecommunications/Annals of Telecommunications, 1997, 52, 202-208.	2.5	17
35	Helical plasma filaments from the self-channeling of intense femtosecond laser pulses in optical fibers. Optics Letters, 2022, 47, 1.	3.3	17
36	An Approach to the Extreme Miniaturization of Rotary Comb Drives. Actuators, 2018, 7, 70.	2.3	16

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37	Deeply penetrating waves in lossy media. Optics Letters, 2012, 37, 2616.	3.3	15
38	Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. IEEE Photonics Journal, 2020, 12, 1-8.	2.0	15
39	Experimental observation of self-imaging in SMF-28 optical fibers. Optics Express, 2021, 29, 12625.	3.4	15
40	In silico validation procedure for cell volume fraction estimation through dielectric spectroscopy. Journal of Biological Physics, 2015, 41, 223-234.	1.5	14
41	Scattering of an electromagnetic plane wave by a sphere embedded in a cylinder. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 760.	1.5	14
42	Scattering from multiple PEC sphere using Translation Addition Theorems for Spherical Vector Wave Function. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106905.	2.3	14
43	Rainbow Archimedean spiral emission from optical fibres. Scientific Reports, 2021, 11, 13030.	3.3	14
44	Multiphoton ionization of standard optical fibers. Photonics Research, 2022, 10, 1394.	7.0	14
45	Benefits and hazards of electromagnetic waves, telecommunication, physical and biomedical: a review. European Review for Medical and Pharmacological Sciences, 2019, 23, 3121-3128.	0.7	14
46	Design and Realization of a cheap Ground Penetrating Radar Prototype @ 2.45 GHz. , 2016, , .		13
47	FBG Multifunctional pH Sensor - Monitoring the pH Rain in Cultural Heritage. Acta IMEKO (2012), 2018, 7, 24.	0.7	13
48	Reflection and Transmission at the Interface With an Electric–Magnetic Uniaxial Medium With Applications to Boundary Conditions. IEEE Transactions on Antennas and Propagation, 2013, 61, 5666-5675.	5.1	12
49	Tag recognition: A new methodology for the structural monitoring of cultural heritage. Measurement: Journal of the International Measurement Confederation, 2018, 127, 308-313.	5.0	12
50	Multimode soliton collisions in graded-index optical fibers. Optics Express, 2022, 30, 21710.	3.4	12
51	Cloaking Using the Anisotropic Multilayer Sphere. Photonics, 2020, 7, 52.	2.0	11
52	Introduction to Radar Scattering Application in Remote Sensing and Diagnostics: Review. Atmosphere, 2020, 11, 517.	2.3	11
53	Equivalent-circuit model for stacked slot-based 2D periodic arrays of arbitrary geometry for broadband analysis. Journal of Applied Physics, 2018, 123, .	2.5	9
54	Fractal Dimension Analysis of High-Resolution X-Ray Phase Contrast Micro-Tomography Images at Different Threshold Levels in a Mouse Spinal Cord. Condensed Matter, 2018, 3, 48.	1.8	9

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55	Cloaking using anisotropic multilayer circular cylinder. AIP Advances, 2020, 10, .	1.3	9
56	Multimode solitons in step-index fibers. Optics Express, 2022, 30, 6300.	3.4	9
57	An Analytical Study of Electromagnetic Deep Penetration Conditions and Implications in Lossy Media through Inhomogeneous Waves. Materials, 2018, 11, 1595.	2.9	8
58	Finite-Size and Illumination Conditions Effects in All-Dielectric Metasurfaces. Electronics (Switzerland), 2022, 11, 1017.	3.1	8
59	Broad-band terahertz metamaterial absorber with stacked electric ring resonators. Journal of Electromagnetic Waves and Applications, 2017, 31, 727-739.	1.6	7
60	Scattering of Light from the Systemic Circulatory System. Diagnostics, 2020, 10, 1026.	2.6	7
61	On a Lossy Electric–Magnetic Uniaxial Medium and Its Applications to Boundary Conditions. IEEE Transactions on Antennas and Propagation, 2015, 63, 1686-1692.	5.1	6
62	Efficient Near-Field Interpolation of Mixed-Potential Green's Functions in Layered Media. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 674-677.	4.0	5
63	A Primer on Electromagnetic Fields. , 2015, , .		5
64	Analysis of the electromagnetic reflection and transmission through a stratified lossy medium of an elliptically polarized plane wave. Mathematics and Mechanics of Complex Systems, 2016, 4, 153-167.	0.9	5
65	A novel model to detect the content of inorganic nanoparticles in coatings used for stone protection. Progress in Organic Coatings, 2017, 106, 177-185.	3.9	5
66	A Multifunctional Integrated Design of Simultaneous Unity Absorption and Polarization Conversion. Plasmonics, 2020, 15, 1141-1149.	3.4	5
67	Steerable3D: An ImageJ plugin for neurovascular enhancement in 3-D segmentation. Physica Medica, 2021, 81, 197-209.	0.7	5
68	Electromagnetic Scattering by a Cylinder in a Lossy Medium of an Inhomogeneous Elliptically Polarized Plane Wave. Journal of Telecommunications and Information Technology, 2020, 4, 36-42.	0.4	5
69	Application of the Cylindrical Wave Approach to the Simulation of Buried Utilities. International Journal of Geophysics, 2011, 2011, 1-8.	1.1	4
70	An analysis of the inhomogeneous wave interaction with plane interfaces. , 2014, , .		4
71	Realization of a Radial Uniaxial sphere with a multilayer sphere. , 2014, , .		4
72	On zero-reflection and zero-transmission of a stratified lossy medium. , 2016, , .		4

On zero-reflection and zero-transmission of a stratified lossy medium. , 2016, , . 72

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73	Analysis of reflection from a novel anisotropic lossy medium characterized by particular material properties. Journal of Electromagnetic Waves and Applications, 2017, 31, 798-807.	1.6	4
74	To study the Mueller matrix polarimetry for the characterization of wood and Teflon flat samples. Results in Optics, 2021, 4, 100102.	2.0	4
75	Electromagnetic Scattering of Inhomogeneous Plane Wave by Ensemble of Cylinders. Journal of Telecommunications and Information Technology, 2020, 3, 1-7.	0.4	4
76	Multiple Scattering by Two PEC Spheres Using Translation Addition Theorem. Electronics (Switzerland), 2022, 11, 126.	3.1	4
77	Analysis of the polarizability of an array of spherical metallic inclusions in a dielectric host sphere. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2409.	1.5	3
78	Improvement of GPR tracking by using inertial and GPS combined data. , 2016, , .		3
79	Deep Learning for Applications to Ground Penetrating Radar and Electromagnetic Diagnostic. , 2019, , .		3
80	Electromagnetic scattering between an elliptically inhomogeneous plane wave and a multilayered cylinder. Journal of Electromagnetic Waves and Applications, 2020, 34, 2455-2466.	1.6	3
81	Study of optical tag profile of the tag recognition measurement system in cultural heritage. Journal of Cultural Heritage, 2020, 45, 240-248.	3.3	3
82	GPR radargrams analysis through machine learning approach. Journal of Electromagnetic Waves and Applications, 2021, 35, 1678-1686.	1.6	3
83	Managing Self-Phase Modulation in Pseudo-Linear Multimodal and Monomodal Systems. Journal of Lightwave Technology, 2021, 39, 1953-1960.	4.6	3
84	Verification of the electromagnetic deep-penetration effect in the real world. Scientific Reports, 2021, 11, 15928.	3.3	3
85	The Nature of the Radiation at Low Frequencies from a Class of Periodic Structures. , 2000, , .		2
86	Metal-Insulator-Metal (MIM) plasmonic waveguide based directional couplers operating at telecom wavelengths. , 2013, , .		2
87	Spectralâ€domain solution to the electromagnetic scattering of a twoâ€dimensional beam by cylinders buried below a flat interface. Near Surface Geophysics, 2015, 13, 219-225.	1.2	2
88	Plane-wave expansion of elliptic cylindrical functions. Optics Communications, 2015, 349, 185-192.	2.1	2
89	PIM generation by rough conductors. , 2017, , .		2
90	Effect of Finite Terms on the Truncation Error of Addition Theorems for Spherical Vector Wave Function. , 2019, , .		2

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91	Laser Beam Self-Focusing in Optical Fiber controlled through FBG integration. , 2020, , .		2
92	The polarizability of an alternative sequence of isotropic and radially anisotropic multilayer sphere. , 2020, , .		2
93	Finding the polarizability of radially anisotropic multilayer circular cylinder. , 2020, , .		2
94	Understanding the Spread of COVID-19 Based on Economic and Socio-Political Factors. Sustainability, 2022, 14, 1768.	3.2	2
95	Parallelism between risk and perception of risk among caregivers during anesthesia delivery. European Review for Medical and Pharmacological Sciences, 2019, 23, 3129-3141.	0.7	2
96	A BEM formulation for efficient and accurate analysis of dielectric waveguiding structures: Extension to multiboundary topologies. International Journal of RF and Microwave Computer-Aided Engineering, 1998, 8, 355-366.	1.2	1
97	Analytic solution for the reflection of cylindrical wave at planar interfaces. , 2014, , .		1
98	A spectral-domain method for the electromagnetic scattering from a multilayered sphere buried in a stratified medium. , 2015, , .		1
99	Plane-wave reflection from the interface of a novel uniaxial medium with extreme parameters. , 2016, , .		1
100	Narrow-band and dual-band metamaterial absorbers in the THz regime. , 2016, , .		1
101	Can the Perception of Risk Be Decreased among Caregivers during Anesthesia Delivery?. , 2018, , .		1
102	Numerical analysis of electromagnetic interactions by a cell during the mitosis phases. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3110.	2.1	1
103	Numerical simulation of the blood oxygenation level–dependent functional magnetic resonance signal using finite element method. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3290.	2.1	1
104	Cloaking and Magnifying using Radial Anisotropy in Non-Integer Dimensional Space. , 2020, , .		1
105	Semi-analytical form of full-wave self-interaction integrals over rectangles. , 2020, , .		1
106	Polarizability of dielectric prolate half ellipse. , 2021, , .		1
107	Comparative modal analysis of NRD parallelepiped dielectric resonators. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1403-1418.	0.6	0
108	A Novel 3D BEM Approach for Efficient Analysis of Microwave Passive Components. , 2000, , .		0

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109	Spectral Green's Functions for Layered Gyrotropic Structures Through a Transmission-Line Approach. Journal of Infrared, Millimeter and Terahertz Waves, 2001, 22, 1469-1484.	0.6	0
110	Analysis and design of a microstrip patch antenna for harmonic tuning in a high-efficiency integrated microwave transmitter. , 2007, , .		0
111	Efficient Design of a Compact Wideband EBG Filter for Active Integrated Antennas. , 2008, , .		0
112	Unidimensional EBG cavities as superstrates of a patch antenna. Microwave and Optical Technology Letters, 2009, 51, 2769-2774.	1.4	0
113	EBG SUPERSTRATES FOR DIRECTIVITY ENHANCEMENT OF ANTENNAS. , 2011, , 215-238.		0
114	Homogenization model of two eccentric spheres. , 2014, , .		0
115	Electromagnetic reflection at an interface of a lossy electric-magnetic uniaxial medium and its applications. , 2014, , .		0
116	Analytical evaluation of the capacitance of a conical sensor for micro-nano imaging techniques. , 2015, , .		0
117	Numerical investigation of DB metamaterial and retrieval of its effective parameters. , 2016, , .		0
118	A preliminary work on the discrimination of magnetic properties by means of TDR data. , 2016, , .		0
119	The Key role of Giovanni Giorgi in Developing the MKSA System of Units. , 2019, , .		0
120	Adverse Patient Events in Anesthesia Delivery – Review and Analysis of Potentially Avoidable Events. , 2020, , .		0
121	Measuring immediate effects of patellar taping on balance kinematics. , 2020, , .		0
122	Infrared light power transmission limitation of optical fibers. , 2021, , .		0
123	Rainbow spiral emission from optical fibers. , 2021, , .		0
124	Direct visualization of bimodal-propagation-induced spatial self-imaging. , 2021, , .		0
125	Scattering of an inhomogeneous wave impinging on parallel stratified cylinders. , 2021, , .		0
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Mueller matrix polarimetry for differentiating characteristic features of different materials (wood,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50

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127	Leaky Wave Antennas. , 0, , .		Ο
128	Electromagnetic interaction with a monodispersed system in sedimentation equilibrium. , 2020, , .		0
129	Multiphoton Absorption Excited Upconversion Luminescence in Multimode Optical Fiber. , 2020, , .		0
130	Nonlinear beam cleanup in Yb-doped GRIN multimode fiber taper. , 2020, , .		0
131	Femtosecond soliton spatio-temporal properties in multimode GRIN fibers. , 2021, , .		0
132	Mode-scrambling security using short pulses in multimode graded-index fiber. , 2021, , .		0
133	Spatio-Temporal Behaviour of Femtosecond Solitons in Graded-Index Multimode Fibers. , 2021, , .		0
134	Helical plasma filaments from the self-channeling of intense femtosecond laser pulses in optical fibers: publisher's note. Optics Letters, 2022, 47, 1919.	3.3	0