

Miguel Navarro-Cia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

2,624
citations

27
h-index

46
g-index

206
ext. papers

3,315
ext. citations

4.2
avg, IF

5.18
L-index

#	Paper	IF	Citations
123	Dual-band all-dielectric chiral photonic crystal. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 165303	3	1
122	Terahertz Metastructures for Noninvasive Biomedical Sensing and Characterization in Future Health Care [Bioelectromagnetics]. <i>IEEE Antennas and Propagation Magazine</i> , 2022 , 64, 60-70	1.7	2
121	Fabrication of Epitaxial W-Doped VO ₂ Nanostructured Films for Terahertz Modulation Using the Solvothermal Process. <i>ACS Applied Nano Materials</i> , 2021 , 4, 10592-10600	5.6	4
120	Study of Low Terahertz Radar Signal Backscattering for Surface Identification. <i>Sensors</i> , 2021 , 21,	3.8	7
119	Hybrid reflection retrieval method for terahertz dielectric imaging of human bone. <i>Biomedical Optics Express</i> , 2021 , 12, 4807-4820	3.5	1
118	Beam Profiling of a Commercial Lens-Assisted Terahertz Time Domain Spectrometer. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 11, 90-100	3.4	6
117	Pseudo-anapole regime in terahertz metasurfaces. <i>Physical Review B</i> , 2021 , 104,	3.3	2
116	Symmetry and Finite-Size Effects in Quasi-Optical Extraordinarily THz Transmitting Arrays of Tilted Slots. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6109-6117	4.9	2
115	Hydrothermal epitaxy growth of self-organized vanadium dioxide 3D structures with metal-insulator transition and THz transmission switch properties. <i>CrystEngComm</i> , 2020 , 22, 2612-2620	3.3	5
114	Revealing the underlying mechanisms behind TE extraordinary THz transmission. <i>Photonics Research</i> , 2020 , 8, 430	6	7
113	From symmetric to asymmetric bowtie nanoantennas: electrostatic conformal mapping perspective. <i>Nanophotonics</i> , 2020 , 9, 1177-1187	6.3	1
112	Tunable compression of THz chirped pulses using a helical graphene ribbon-loaded hollow-core waveguide. <i>Applied Optics</i> , 2020 , 59, 4247-4253	1.7	1
111	Experimental signature of a topological quantum dot. <i>Nanoscale</i> , 2020 , 12, 22817-22825	7.7	7
110	Leaky-Wave Antenna With Switchable Omnidirectional Conical Radiation via Polarization Handedness. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1282-1288	4.9	5
109	Far-Field and Near-Field Physics of Extraordinary THz Transmitting Hole-Array Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6029-6038	4.9	10
108	The dielectric properties of some ceramic substrate materials at terahertz frequencies. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4424-4428	6	17
107	Photonic Weyl points due to broken time-reversal symmetry in magnetized semiconductor. <i>Nature Physics</i> , 2019 , 15, 1150-1155	16.2	40

106	Hidden Symmetries in Bowtie Nanocavities and Diabolo Nanoantennas. <i>ACS Photonics</i> , 2019 , 6, 2014-2024,	4.3	1
105	Extraordinary THz Transmission with a Small Beam Spot: The Leaky Wave Mechanism. <i>Advanced Optical Materials</i> , 2018 , 6, 1701312	8.1	15
104	Circular-Polarization-Selective Transmission Induced by Spin-Orbit Coupling in a Helical Tape Waveguide. <i>Physical Review Applied</i> , 2018 , 9,	4.3	8
103	Understanding quantum emitters in plasmonic nanocavities with conformal transformation: Purcell enhancement and forces. <i>Nanoscale</i> , 2018 , 10, 13607-13616	7.7	7
102	Aluminum Nanotriplets for Light-Matter Coupling Robust to Nanoemitter Orientation. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700051	8.3	6
101	3-D-Printed 96 GHz Bullseye Antenna With Off-Axis Beaming. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 17-25	4.9	24
100	Annular Apertures in Metallic Screens as Extraordinary Transmission and Frequency Selective Surface Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 4933-4946	4.1	13
99	The Interplay of Symmetry and Scattering Phase in Second Harmonic Generation from Gold Nanoantennas. <i>Nano Letters</i> , 2016 , 16, 5278-85	11.5	49
98	Selective Pyroelectric Detection of Millimetre Waves Using Ultra-Thin Metasurface Absorbers. <i>Scientific Reports</i> , 2016 , 6, 21079	4.9	43
97	Improving the performance of the zoned fishnet metalens using the reference phase technique 2016 ,		1
96	Description of Bow-Tie Nanoantennas Excited by Localized Emitters Using Conformal Transformation. <i>ACS Photonics</i> , 2016 , 3, 1223-1232	6.3	21
95	[INVITED] Epsilon-near-zero metalenses operating in the visible: Invited paper for the section : Hot topics in Metamaterials and Structures. <i>Optics and Laser Technology</i> , 2016 , 80, 162-168	4.2	15
94	Accurate Circuit Modeling of Fishnet Structures for Negative-Index-Medium Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 15-26	4.1	17
93	Broadband frequency and angular response of a sinusoidal bullseye antenna. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 265103	3	6
92	Bias-free and compact mode-matched excitation of THz coaxial waveguides 2016 ,		1
91	Generation of radially-polarized terahertz pulses for coupling into coaxial waveguides. <i>Scientific Reports</i> , 2016 , 6, 38926	4.9	8
90	Linearly and circularly polarised Bull's eye antenna 2016 ,		1
89	Planar holographic metasurfaces for terahertz focusing. <i>Scientific Reports</i> , 2015 , 5, 7738	4.9	50

88	Zoned Fishnet Lens Antenna With Reference Phase for Side-Lobe Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 3710-3714	4.9	8
87	Silver-Coated Teflon Tubes for Waveguiding at 1 THz. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015 , 36, 542-555	2.2	39
86	Exploiting the dispersion of the double-negative-index fishnet metamaterial to create a broadband low-profile metallic lens. <i>Optics Express</i> , 2015 , 23, 8555-64	3.3	21
85	Unveiling the Origin of Third Harmonic Generation in Hybrid ITOPlasmonic Crystals. <i>Advanced Optical Materials</i> , 2015 , 3, 1059-1065	8.1	16
84	77-GHz High-Gain Bullseye Antenna With Sinusoidal Profile. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 205-208	3.8	30
83	Experimental Demonstration of a Millimeter-Wave Metallic ENZ Lens Based on the Energy Squeezing Principle. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 231-239	4.9	34
82	Principles of THz Generation 2015 , 3-68		5
81	Soret fishnet metalens antenna. <i>Scientific Reports</i> , 2015 , 5, 9988	4.9	11
80	Wood zone plate fishnet metalens. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 8	0.8	6
79	Dipolar resonances in conductive carbon micro-fibers probed by near-field terahertz spectroscopy. <i>Applied Physics Letters</i> , 2015 , 107, 021102	3.4	11
78	Experimental demonstration of deflection angle tuning in unidirectional fishnet metamaterials at millimeter-waves. <i>Applied Physics Letters</i> , 2015 , 106, 061109	3.4	9
77	Third-harmonic-upconversion enhancement from a single semiconductor nanoparticle coupled to a plasmonic antenna. <i>Nature Nanotechnology</i> , 2014 , 9, 290-4	28.7	304
76	ε-near-zero (ENZ) graded index quasi-optical devices: steering and splitting millimeter waves. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 094009	1.7	21
75	Compact Dual-Band Terahertz Quarter-Wave Plate Metasurface. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1679-1682	2.2	16
74	Mid-infrared plasmonic inductors: enhancing inductance with meandering lines. <i>Scientific Reports</i> , 2014 , 4, 3592	4.9	9
73	Mid-infrared Plasmonic Inductors 2014 ,		1
72	Zoned near-zero refractive index fishnet lens antenna: Steering millimeter waves. <i>Journal of Applied Physics</i> , 2014 , 115, 124902	2.5	20
71	Mechanical 144 GHz beam steering with all-metallic epsilon-near-zero lens antenna. <i>Applied Physics Letters</i> , 2014 , 105, 243503	3.4	36

70	High density micro-pyramids with silicon nanowire array for photovoltaic applications. <i>Nanotechnology</i> , 2014 , 25, 485202	3.4	27
69	Exploiting plasmonics for THz and infrared sensing 2014 ,		1
68	Silver-coated Teflon hollow waveguides for the delivery of terahertz radiation 2014 ,		5
67	Terahertz waveguides with low transmission losses: characterization and applications 2014 ,		2
66	Frozen mode from hybridized extraordinary transmission and Fabry-Perot resonances. <i>Physical Review B</i> , 2013 , 87,	3.3	9
65	Plasmonic Nanoantennas for Multispectral Surface-Enhanced Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18620-18626	3.8	56
64	Terahertz Corrugated and Bull's-Eye Antennas. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 740-747	3.4	29
63	Wideband unidirectional transmission with tunable sign-switchable refraction and deflection in nonsymmetric structures. <i>Physical Review B</i> , 2013 , 88,	3.3	20
62	Terahertz imaging of sub-wavelength particles with Zenneck surface waves. <i>Applied Physics Letters</i> , 2013 , 103, 221103	3.4	9
61	Ultrasensitive broadband probing of molecular vibrational modes with multifrequency optical antennas. <i>ACS Nano</i> , 2013 , 7, 669-75	16.7	106
60	Mode interference and radiation leakage in a tapered parallel plate waveguide for terahertz waves. <i>Applied Physics Letters</i> , 2013 , 102, 141103	3.4	7
59	Modes in silver-iodide-lined hollow metallic waveguides mapped by terahertz near-field time-domain microscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 127	1.7	11
58	Terahertz epsilon-near-zero graded-index lens. <i>Optics Express</i> , 2013 , 21, 9156-66	3.3	46
57	Terahertz wave transmission in flexible polystyrene-lined hollow metallic waveguides for the 2.5-5 THz band. <i>Optics Express</i> , 2013 , 21, 23748-55	3.3	40
56	Comment on [The transition from a TEM-like mode to a plasmonic mode in parallel-plate waveguides][Appl. Phys. Lett. 98, 231113 (2011)]. <i>Applied Physics Letters</i> , 2013 , 102, 246103	3.4	1
55	Widely tuneable scattering-type scanning near-field optical microscopy using pulsed quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 103, 213110	3.4	16
54	Hedgehog subwavelength hole arrays: control over the THz enhanced transmission. <i>New Journal of Physics</i> , 2013 , 15, 013003	2.9	4
53	Ultra-compact planoconcave zoned metallic lens based on the fishnet metamaterial. <i>Applied Physics Letters</i> , 2013 , 103, 183507	3.4	24

52	High numerical aperture and low-loss negative refraction based on the fishnet rich anisotropy. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012 , 10, 263-270	2.6	5
51	Lensing system and Fourier transformation using epsilon-near-zero metamaterials. <i>Physical Review B</i> , 2012 , 86,	3.3	29
50	Multiresonant broadband optical antennas as efficient tunable nanosources of second harmonic light. <i>Nano Letters</i> , 2012 , 12, 4997-5002	11.5	164
49	Fishnet metamaterial from an equivalent circuit perspective. <i>Applied Physics Letters</i> , 2012 , 101, 244101	3.4	17
48	Quarter-Wave Plate Based on Dielectric-Enabled Extraordinary Resonant Transmission. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 945-947	2.2	12
47	Broad-band near-infrared plasmonic nanoantennas for higher harmonic generation. <i>ACS Nano</i> , 2012 , 6, 3537-44	16.7	90
46	Toward compact millimeter-wave diode in thin stacked-hole array assisted by a dielectric grating. <i>Applied Physics Letters</i> , 2011 , 99, 154101	3.4	10
45	Circuit approach to the minimal configuration of terahertz anomalous extraordinary transmission. <i>Applied Physics Letters</i> , 2011 , 98, 014106	3.4	24
44	Beamforming by Left-Handed Extraordinary Transmission Metamaterial Bi- and Plano-Concave Lens at Millimeter-Waves. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 2141-2151	4.9	22
43	Numerical and experimental parametric analysis of anomalous enhanced transmission through subwavelength apertures. <i>Metamaterials</i> , 2011 , 5, 125-134		3
42	Redshifting extraordinary transmission by simple inductance addition. <i>Physical Review B</i> , 2011 , 84,	3.3	11
41	Dual-band double-negative-index fishnet metamaterial at millimeter-waves. <i>Optics Letters</i> , 2011 , 36, 4245-7	3	3
40	Enhanced lens by epsilon-near-zero metamaterial boosted by extraordinary optical transmission. <i>Physical Review B</i> , 2011 , 83,	3.3	37
39	Mastering the Propagation Through Stacked Perforated Plates: Subwavelength Holes vs. Propagating Holes. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 2980-2988	4.9	6
38	TRANSMISSION PROPERTIES OF STACKED SRR METASURFACES IN FREE SPACE. <i>Progress in Electromagnetics Research M</i> , 2011 , 20, 1-11	0.6	0
37	A SLOW LIGHT FISHNET-LIKE ABSORBER IN THE MILLIMETER-WAVE RANGE. <i>Progress in Electromagnetics Research</i> , 2011 , 118, 287-301	3.8	8
36	Negative group delay through subwavelength hole arrays. <i>Physical Review B</i> , 2011 , 84,	3.3	6
35	Route for Bulk Millimeter Wave and Terahertz Metamaterial Design. <i>IEEE Journal of Quantum Electronics</i> , 2011 , 47, 375-385	2	26

34	Understanding Anomalous Extraordinary Transmission From Equivalent Circuit and Grounded Slab Concepts. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 2180-2188	4.1	33
33	Enhancing the Dual-Band Guiding Capabilities of Coaxial Spoof Plasmons via use of Transmission Line Concepts. <i>Plasmonics</i> , 2011 , 6, 295-299	2.4	9
32	POLARIZATION-TUNABLE NEGATIVE OR POSITIVE REFRACTION IN SELF-COMPLEMENTARINESS-BASED EXTRAORDINARY TRANSMISSION PRISM. <i>Progress in Electromagnetics Research</i> , 2010 , 103, 101-114	3.8	6
31	Development and Characterization of Quasi-Optical Mesh Filters and Metastructures for Subterahertz and Terahertz Applications. <i>Key Engineering Materials</i> , 2010 , 437, 276-280	0.4	24
30	Strong lateral displacement in polarization anisotropic extraordinary transmission metamaterial. <i>New Journal of Physics</i> , 2010 , 12, 063037	2.9	17
29	Stacked complementary metasurfaces for ultraslow microwave metamaterials. <i>Applied Physics Letters</i> , 2010 , 96, 164103	3.4	14
28	Millimeter-wave phase resonances in compound reflection gratings with subwavelength grooves. <i>Optics Express</i> , 2010 , 18, 23957-64	3.3	8
27	Single negative birefringence in stacked spoof plasmon metasurfaces by prism experiment. <i>Optics Letters</i> , 2010 , 35, 643-5	3	11
26	Selective dual-band subwavelength-hole-arrays-based polariser. <i>IET Microwaves, Antennas and Propagation</i> , 2010 , 4, 1092	1.6	
25	Fresh metamaterials ideas for metallic lenses. <i>Metamaterials</i> , 2010 , 4, 119-126		3
24	Viability of focusing effect by left-handed stacked subwavelength hole arrays. <i>Physica B: Condensed Matter</i> , 2010 , 405, 2950-2954	2.8	4
23	ULTRA-WIDEBAND METAMATERIAL FILTER BASED ON ELECTROINDUCTIVE-WAVE COUPLING BETWEEN MICROSTRIPS. <i>Progress in Electromagnetics Research Letters</i> , 2009 , 12, 141-150	0.5	8
22	Connection between extraordinary transmission and negative refraction in a prism of stacked sub-wavelength hole arrays. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 165504	3	6
21	Experimental demonstration of phase resonances in metallic compound gratings with subwavelength slits in the millimeter wave regime. <i>Applied Physics Letters</i> , 2009 , 94, 091107	3.4	37
20	Electroinductive waves role in left-handed stacked complementary split rings resonators. <i>Optics Express</i> , 2009 , 17, 1274-81	3.3	14
19	Regular and anomalous extraordinary optical transmission at the THz-gap. <i>Optics Express</i> , 2009 , 17, 11730-38	3.3	44
18	Broadband spoof plasmons and subwavelength electromagnetic energy confinement on ultrathin metafilms. <i>Optics Express</i> , 2009 , 17, 18184-95	3.3	114
17	Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009 , 8, 212-215	3.8	8

16	Negative refraction through an extraordinary transmission left-handed metamaterial slab. <i>Physical Review B</i> , 2009 , 79,	3-3	23
15	Extraordinary Transmission surfaces as superstrate 2009 ,		3
14	Converging biconcave metallic lens by double-negative extraordinary transmission metamaterial. <i>Applied Physics Letters</i> , 2009 , 94, 144107	3-4	17
13	Negative refraction in a prism made of stacked subwavelength hole arrays. <i>Optics Express</i> , 2008 , 16, 560-563	3-3	45
12	Planoconcave lens by negative refraction of stacked subwavelength hole arrays. <i>Optics Express</i> , 2008 , 16, 9677-83	3-3	35
11	Polypropylene-substrate-based SRR- and CSRR- metasurfaces for submillimeter waves. <i>Optics Express</i> , 2008 , 16, 18312-9	3-3	26
10	Polarization selection with stacked hole array metamaterial. <i>Journal of Applied Physics</i> , 2008 , 103, 053102-5	3-3	42
9	Metamaterial multiresonances in waveguide and metasurfaces. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 2825-2827	1-2	5
8	Molding Left- or Right-Handed Metamaterials by Stacked Cutoff Metallic Hole Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1514-1521	4-9	53
7	Enhanced Gain by Double-Periodic Stacked Subwavelength Hole Array. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 831-833	2-6	16
6	Left-handed behavior in a microstrip line loaded with squared split-ring resonators and an EBG pattern. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 2689-2692	1-2	5
5	Parametrical study of left-handed or right-handed propagation by stacking hole arrays. <i>Optical and Quantum Electronics</i> , 2007 , 39, 285-293	2-4	4
4	Extraordinary transmission and left-handed propagation in miniaturized stacks of doubly periodic subwavelength hole arrays. <i>Optics Express</i> , 2007 , 15, 1107-14	3-3	54
3	Polarized left-handed extraordinary optical transmission of subterahertz waves. <i>Optics Express</i> , 2007 , 15, 8125-34	3-3	20
2	Quasioptical Polarizer Based on Self-Complementary Sub-Wavelength Hole Arrays. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 834-836	2-6	18
1	Edge state mimicking topological behavior in a one-dimensional electrical circuit. <i>New Journal of Physics</i> ,	2-9	1