

Ian Hooper

List of Publications by Year in descending order

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78
papers

2,482
citations

257101

24
h-index

197535

49
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78
all docs

78
docs citations

78
times ranked

3295
citing authors

#	ARTICLE	IF	CITATIONS
1	Waveguide-Mode-Enhanced Millimeter-Wave Photomodulators. <i>Physical Review Applied</i> , 2022, 17, .	1.5	0
2	Space squeezing optics: Performance limits and implementation at microwave frequencies. <i>APL Photonics</i> , 2022, 7, .	3.0	3
3	Multi-scale bullseye antennas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, .	1.6	2
4	Super-resolution imaging for sub-IR frequencies based on total internal reflection. <i>Optica</i> , 2021, 8, 88.	4.8	12
5	Absorption modes of MÃ¶bius strip resonators. <i>Scientific Reports</i> , 2021, 11, 9045.	1.6	2
6	Metamaterial Analogues of Strongly Coupled Molecular Ensembles. <i>ACS Photonics</i> , 2021, 8, 2997-3003.	3.2	1
7	Efficient mm-wave photomodulation via coupled Fabryâ€“Perot cavities. <i>Journal of Applied Physics</i> , 2021, 129, 033102.	1.1	0
8	Exploring microwave absorption by non-periodic metasurfaces. <i>Advanced Electromagnetics</i> , 2021, 10, 1-6.	0.7	4
9	Effective-periodicity effects in Fibonacci slot arrays. <i>Physical Review B</i> , 2021, 104, .	1.1	4
10	Direct observation of defect modes in molecular aggregate analogs. <i>Physical Review B</i> , 2020, 102, .	1.1	1
11	Total internal reflection geometry for near-field imaging. , 2020, , .		0
12	Metamaterial Analogues of Molecular Aggregates. <i>ACS Photonics</i> , 2019, 6, 3003-3009.	3.2	10
13	Broadband, slow sound on a glide-symmetric meander-channel surface. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 3190-3194.	0.5	10
14	A Ferrite-Filled Cavity Resonator for Electronic Article Surveillance on Metallic Packaging. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-10.	1.2	1
15	Engineered Silicon for Efficient mm-Wave and THz Modulators. , 2019, , .		0
16	High efficiency photomodulators for millimeter wave and THz radiation. <i>Scientific Reports</i> , 2019, 9, 18304.	1.6	20
17	Investigating the nature of chiral near-field interactions. <i>Physical Review B</i> , 2018, 97, .	1.1	9
18	Covert Images Using Surface Plasmonâ€“Mediated Optical Polarization Conversion. <i>Advanced Optical Materials</i> , 2018, 6, 1700843.	3.6	13

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19	Realizing an ultra-wideband backward-wave metamaterial waveguide. <i>Physical Review B</i> , 2018, 98, .	1.1	4
20	Investigation of the coupling between tunable split-ring resonators. <i>Physical Review B</i> , 2018, 98, .	1.1	12
21	Mimicking graphene physics with a plane hexagonal wire mesh. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	0
22	Isotropic Backward Waves Supported by a Spiral Array Metasurface. <i>Scientific Reports</i> , 2018, 8, 7098.	1.6	4
23	Electromagnetic interactions in a pair of coupled split-ring resonators. <i>Physical Review B</i> , 2017, 96, .	1.1	21
24	Absence of Anderson localization in certain random lattices. <i>Physical Review E</i> , 2017, 96, 022122.	0.8	8
25	Gapless states in microwave artificial graphene. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	9
26	Direct observation of negative-index microwave surface waves. <i>Scientific Reports</i> , 2016, 6, 22018.	1.6	22
27	Broadband metasurface for surface wave lenses. , 2016, , .		3
28	Topological modes in one-dimensional solids and photonic crystals. <i>Physical Review B</i> , 2016, 93, .	1.1	7
29	Gap-Corrected Thin-Film Permittivity and Permeability Measurement With a Broadband Coaxial Line Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, , 1-7.	2.9	9
30	Independently controlling permittivity and diamagnetism in broadband, low-loss, isotropic metamaterials at microwave frequencies. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	8
31	Scalable polymer-based ferrite composites with matching permeability and permittivity for high-frequency applications. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 609-614.	1.1	5
32	Measurement of Photon Sorting at Microwave Frequencies in a Cavity Array Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2015, 63, 4521-4524.	3.1	2
33	The Basics of Plasmonics. <i>Handbook of Surface Science</i> , 2014, , 37-74.	0.3	6
34	Plasmonic meta-atoms and metasurfaces. <i>Nature Photonics</i> , 2014, 8, 889-898.	15.6	802
35	One dimensional electromagnetic waves on flat surfaces. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 435103.	1.3	25
36	Light harvesting with metasurfaces: applications to sensors and energy generation. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 731-737.	1.1	3

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37	Massively Sub-wavelength Guiding of Electromagnetic Waves. Scientific Reports, 2014, 4, 7495.	1.6	37
38	Removing singular refractive indices with sculpted surfaces. Scientific Reports, 2014, 4, 4876.	1.6	38
39	Broadband and low loss high refractive index metamaterials in the microwave regime. Applied Physics Letters, 2013, 102, 091108.	1.5	10
40	Transmutation of singularities and zeros in graded index optical instruments: a methodology for designing practical devices. Optics Express, 2013, 21, 32313.	1.7	5
41	Heavily loaded ferrite-polymer composites to produce high refractive index materials at centimetre wavelengths. APL Materials, 2013, 1, .	2.2	9
42	Light localization, photon sorting, and enhanced absorption in subwavelength cavity arrays. Optics Express, 2012, 20, 24226.	1.7	21
43	Metamaterial tunnel barrier gives broadband microwave transmission. Journal of Applied Physics, 2011, 109, 013104.	1.1	12
44	Structurally dictated anisotropic "designer surface plasmons". Applied Physics Letters, 2011, 99, 181107.	1.5	6
45	Dual-channel differential surface plasmon ellipsometry for bio-chemical sensing. Biosensors and Bioelectronics, 2009, 25, 411-417.	5.3	23
46	Surface plasmon polaritons on deep, narrow-ridged rectangular gratings. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1228.	0.9	20
47	Interactions between Fabry-Pérot and nanohole resonances in metallo-dielectric plasmonic nanostructures. Journal of Modern Optics, 2009, 56, 1199-1204.	0.6	10
48	Magneto-optic behaviour in the presence of surface plasmons. Journal of Physics Condensed Matter, 2008, 20, 345230.	0.7	28
49	The transverse magnetic reflectivity minimum of metals. Optics Express, 2008, 16, 7580.	1.7	7
50	Some considerations on the transmissivity of thin metal films. Optics Express, 2008, 16, 17258.	1.7	22
51	Optical resonances on sub-wavelength silver lamellar gratings. Optics Express, 2008, 16, 22003.	1.7	18
52	Field profiles of coupled surface plasmon-polaritons. Journal of Modern Optics, 2008, 55, 2929-2943.	0.6	32
53	Coupled surface plasmons on thin silver gratings. Journal of Optics, 2008, 10, 015007.	1.5	17
54	Surface plasmon differential ellipsometry of aqueous solutions for bio-chemical sensing. Journal Physics D: Applied Physics, 2008, 41, 105408.	1.3	22

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55	Strongly coupled surface plasmons on thin shallow metallic gratings. <i>Physical Review B</i> , 2008, 77, .	1.1	40
56	Grating-coupled surface plasmon polaritons and waveguide modes in a silver-dielectric-silver structure. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 3547.	0.8	9
57	Experimental method for reliably establishing the refractive index of buprestid beetle exocuticle. <i>Optics Express</i> , 2007, 15, 4351.	1.7	80
58	Photonic bandgaps for grating-coupled waveguide modes with a silver tunnel barrier. <i>New Journal of Physics</i> , 2007, 9, 251-251.	1.2	6
59	Waveguide Arrays as Plasmonic Metamaterials: Transmission below Cutoff. <i>Physical Review Letters</i> , 2006, 96, 073904.	2.9	73
60	Microwave Transmission of a Compound Metal Grating. <i>Physical Review Letters</i> , 2006, 96, 257402.	2.9	71
61	Detailed optical study of the transparent wing membranes of the dragonfly <i>Aeshna cyanea</i> . <i>Optics Express</i> , 2006, 14, 4891.	1.7	66
62	Dependence on surface profile in grating-assisted coupling of light to surface plasmon-polaritons. <i>Optics Communications</i> , 2006, 261, 291-295.	1.0	25
63	Phase sensitive array detection with polarisation modulated differential sensing. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 651-655.	4.0	13
64	Making Tunnel Barriers (Including Metals) Transparent. <i>Physical Review Letters</i> , 2006, 97, 053902.	2.9	75
65	The optical response of single-interface and thin slab dielectric gratings. <i>Journal of Optics</i> , 2006, 8, S250-S263.	1.5	0
66	Low dispersion surface plasmon-polaritons on deep silver gratings. <i>Journal of Modern Optics</i> , 2006, 53, 1569-1576.	0.6	7
67	Directionally Controlled Fluorescence Emission in Butterflies. <i>Science</i> , 2005, 310, 1151-1151.	6.0	141
68	Light emission through a corrugated metal film: The role of cross-coupled surface plasmon polaritons. <i>Physical Review B</i> , 2004, 69, .	1.1	50
69	Broad-band polarization conversion from a finite periodic structure in the microwave regime. <i>Applied Physics Letters</i> , 2004, 84, 849-851.	1.5	13
70	Sensing using differential surface plasmon ellipsometry. <i>Journal of Applied Physics</i> , 2004, 96, 3004-3011.	1.1	40
71	Transmission of light through thin silver films via surface plasmon-polaritons. <i>Optics Express</i> , 2004, 12, 5881.	1.7	41
72	Differential ellipsometric surface plasmon resonance sensors with liquid crystal polarization modulators. <i>Applied Physics Letters</i> , 2004, 85, 3017-3019.	1.5	36

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73	Coupled surface plasmon polaritons on thin metal slabs corrugated on both surfaces. Physical Review B, 2004, 70, .	1.1	77
74	Surface plasmon polaritons on narrow-ridged short-pitch metal gratings in the conical mount. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 836.	0.8	30
75	Surface plasmon polaritons on thin-slab metal gratings. Physical Review B, 2003, 67, .	1.1	56
76	Surface plasmon polaritons on narrow-ridged short-pitch metal gratings. Physical Review B, 2002, 66, .	1.1	27
77	Dispersion of surface plasmon polaritons on short-pitch metal gratings. Physical Review B, 2002, 65, .	1.1	88
78	Broadband polarization-converting mirror for the visible region of the spectrum. Optics Letters, 2002, 27, 2152.	1.7	39