John O Hara

List of Publications by Year in Descending Order

64	5,194	32	70
papers	citations	h-index	g-index
70	6,252	3.7	5.41
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
64	Fundamental Performance Limits on Terahertz Wireless Links Imposed by Group Velocity Dispersion. *IEEE Transactions on Terahertz Science and Technology*, **2021**, 1-1	3.4	0
63	TV White Space Based Wireless Broadband Internet Connectivity: A Case Study With Implementation Details and Performance Analysis. *IEEE Open Journal of the Communications Society* , **2021**, 1-1	6.7	1
62	Emulating UAV Motion by Utilizing Robotic Arm for mmWave Wireless Channel Characterization. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	3
61	Gesture Recognition Using Reflected Visible and Infrared Lightwave Signals. *IEEE Transactions on Human-Machine Systems*, **2021**, 51, 44-55	4.1	5
60	A Do-It-Yourself (DIY) Light Wave Sensing and Communication Project: Low-Cost, Portable, Effective, and Fun. *IEEE Transactions on Education*, **2021**, 64, 205-212	2.1	1
59	Dispersion from Diffuse Reflectors and its Effect on Terahertz Wireless Communication Performance. *IEEE Transactions on Terahertz Science and Technology*, **2021**, 1-1	3.4	0
58	Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at ~1.1 Meters Distance. *IEEE Photonics Journal*, **2020**, 12, 1-23	1.8	2
57	Compensating Atmospheric Channel Dispersion for Terahertz Wireless Communication. *Scientific Reports*, **2020**, 10, 5816	4.9	6
56	Broadband tunable terahertz cross-polarization converter based on Dirac semimetals. *Applied Physics Express*, **2019**, 12, 075003	2.4	23
55	A Perspective on Terahertz Next-Generation Wireless Communications. *Technologies*, **2019**, 7, 43	2.4	40
54	Remote NO gas sensing by enhanced 910-m propagation of THz pulses. *Optics Express*, **2019**, 27, 27514-27522	3.3	7
53	Controllable broadband asymmetric transmission of terahertz wave based on Dirac semimetals. *Optics Express*, **2019**, 27, 35784-35796	3.3	21
52	Comment on the Veracity of the ITU-R Recommendation for Atmospheric Attenuation at Terahertz Frequencies. *IEEE Transactions on Terahertz Science and Technology*, **2018**, 8, 372-375	3.4	14
51	Plasmon Resonances in Nanohemisphere Monolayers. *Journal of Physical Chemistry C*, **2017**, 121, 23599-23608	4.4	4
50	All-Dielectric Meta-lens Designed for Photoconductive Terahertz Antennas. *IEEE Photonics Journal*, **2017**, 9, 1-9	1.8	11
49	Independently tunable dual-band perfect absorber based on graphene at mid-infrared frequencies. *Scientific Reports*, **2015**, 5, 18463	4.9	108
48	Active metasurface terahertz deflector with phase discontinuities. *Optics Express*, **2015**, 23, 27152-8	3.3	41

47	Orthogonally twisted planar concentric split ring resonators towards strong near field coupled terahertz metamaterials. *Applied Physics Letters*, **2014**, 104, 101105	3.4	20
46	Limitation in thin-film sensing with transmission-mode terahertz time-domain spectroscopy. *Optics Express*, **2014**, 22, 972-86	3.3	45
45	Electromagnetic Response of Finite Terahertz Metafilm Arrays Excited on Total Internal Reflection Boundaries. *IEEE Transactions on Terahertz Science and Technology*, **2013**, 3, 709-720	3.4	2
44	A review of terahertz plasmonics in subwavelength holes on conducting films. *IEEE Journal of Selected Topics in Quantum Electronics*, **2013**, 19, 8400416-8400416	3.8	24
43	Direct observation of electro-optic modulation in a single split-ring resonator. *Applied Physics Letters*, **2013**, 102, 091109	3.4	2
42	Tailoring terahertz plasmons with silver nanorod arrays. *Scientific Reports*, **2013**, 3,	4.9	19
41	A Review on Thin-film Sensing with Terahertz Waves. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2012**, 33, 245-291	2.2	133
40	An active hybrid plasmonic metamaterial. *Optical Materials Express*, **2012**, 2, 31	2.6	37
39	Modeling of active and passive nonlinear metamaterials. *Metamaterials*, **2012**, 6, 8-26		3
38	Terahertz chiral metamaterials with giant and dynamically tunable optical activity. *Physical Review B*, **2012**, 86,	3.3	178
37	. *IEEE Antennas and Propagation Magazine*, **2012**, 54, 10-35	1.7	1097
36	An approach for mechanically tunable, dynamic terahertz bandstop filters. *Applied Physics A: Materials Science and Processing*, **2012**, 107, 285-291	2.6	10
35	Modal analysis method to describe weak nonlinear effects in metamaterials. *Physical Review B*, **2012**, 85,	3.3	10
34	Dynamically reconfigurable terahertz metamaterial through photo-doped semiconductor. *Applied Physics Letters*, **2011**, 99, 231101	3.4	68
33	Resonance tuning behavior in closely spaced inhomogeneous bilayer metamaterials. *Applied Physics Letters*, **2011**, 98, 131105	3.4	34
32	Tailored resonator coupling for modifying the terahertz metamaterial response. *Optics Express*, **2011**, 19, 10679-85	3.3	53
31	A broadband planar terahertz metamaterial with nested structure. *Optics Express*, **2011**, 19, 15817-23	3.3	44
30	Manipulation of terahertz radiation using metamaterials. *Laser and Photonics Reviews*, **2011**, 5, 513-533	8.3	112

29	Orientation dependent far-infrared terahertz absorptions in single crystal pentaerythritol tetranitrate (PETN) using terahertz time-domain spectroscopy. *Journal of Physical Chemistry A*, **2011**, 115, 439-42	2.8	11
28	Active terahertz metamaterials. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 108, 834-840	0.7	4
27	Tuning the resonance in high-temperature superconducting terahertz metamaterials. *Physical Review Letters*, **2010**, 105, 247402	7.4	188
26	Large dynamic resonance transition between surface plasmon and localized surface plasmon modes. *Optics Express*, **2010**, 18, 12482-8	3.3	13
25	Antireflection coating using metamaterials and identification of its mechanism. *Physical Review Letters*, **2010**, 105, 073901	7.4	249
24	Perfect subwavelength fishnetlike metamaterial-based film terahertz absorbers. *Physical Review B*, **2010**, 82,	3.3	152
23	A method to determine effective metamaterial properties based on stratified metafilms. *European Physical Journal D*, **2010**, 58, 243-247	1.3	5
22	Large-area metamaterials on thin membranes for multilayer and curved applications at terahertz and higher frequencies. *Applied Physics Letters*, **2009**, 94, 161113	3.4	37
21	A discussion on the interpretation and characterization of metafilms/metasurfaces: The two-dimensional equivalent of metamaterials. *Metamaterials*, **2009**, 3, 100-112		221
20	Polarization orientation dependence of the far infrared spectra of oriented single crystals of 1,3,5-trinitro-S-triazine (RDX) using terahertz time-domain spectroscopy. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 315-22	4.4	14
19	Ultrafast optical control of terahertz surface plasmons in subwavelength hole arrays at room temperature. *Applied Physics Letters*, **2009**, 95, 011105	3.4	45
18	Metamaterials for THz polarimetric devices. *Optics Express*, **2009**, 17, 773-83	3.3	73
17	Experimental demonstration of frequency-agile terahertz metamaterials. *Nature Photonics*, **2008**, 2, 295-298	33.9	620
16	Characterization and analysis of terahertz metamaterials based on rectangular split-ring resonators. *Applied Physics Letters*, **2008**, 92, 011119	3.4	82
15	Effect of metal permittivity on resonant properties of terahertz metamaterials. *Optics Letters*, **2008** , 33, 1506-8	3	74
14	Thin-film sensing with planar terahertz metamaterials: sensitivity and limitations. *Optics Express*, **2008**, 16, 1786-95	3.3	372
13	Optically thin terahertz metamaterials. *Optics Express*, **2008**, 16, 6537-43	3.3	87
12	Electronic control of extraordinary terahertz transmission through subwavelength metal hole arrays. *Optics Express*, **2008**, 16, 7641-8	3.3	97

List of Publications

11	Hybrid metamaterials enable fast electrical modulation of freely propagating terahertz waves. *Applied Physics Letters*, **2008**, 93, 091117	3.4	105
10	Carrier dynamics in InGaAs with embedded ErAs nanoislands. *Applied Physics Letters*, **2008**, 93, 121108	3.4	29
9	Complementary planar terahertz metamaterials. *Optics Express*, **2007**, 15, 1084-95	3.3	247
8	Properties of Planar Electric Metamaterials for Novel TeraHertz Applications. *Journal of Nanoelectronics and Optoelectronics*, **2007**, 2, 90-95	1.3	24
7	Split-Ring Resonator Enhanced Terahertz Antenna **2007**,		1
6	Enhanced terahertz detection via ErAs:GaAs nanoisland superlattices. *Applied Physics Letters*, **2006**, 88, 251119	3.4	74
5	Prism coupling to terahertz surface plasmon polaritons. *Optics Express*, **2005**, 13, 6117-26	3.3	48
4	Quasi-optic synthetic phased-array terahertz imaging. *Journal of the Optical Society of America B: Optical Physics*, **2004**, 21, 1178	1.7	41
3	Terahertz surface plasmon polariton coupling on metallic gratings. *Optics Express*, **2004**, 12, 6397-402	3.3	55
2	Synthetic phased-array terahertz imaging. *Optics Letters*, **2002**, 27, 1070-2	3	22
1	Quasi-optic terahertz imaging. *Optics Letters*, **2001**, 26, 1918-20	3	23