

Mohamed Farhat

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.

86
papers

3,207
citations

29
h-index

56
g-index

109
ext. papers

3,744
ext. citations

3.6
avg, IF

5.67
L-index

#	Paper	IF	Citations
86	Non-Hermitian electromagnetic double-near-zero index medium in a two-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2021 , 119, 224102	3.4	1
85	On Coding and Decoding Reconfigurable Radiation Pattern Modulation Symbols. <i>Electronics (Switzerland)</i> , 2021 , 10, 614	2.6	1
84	Enhanced acoustic pressure sensors based on coherent perfect absorber-laser effect. <i>Journal of Applied Physics</i> , 2021 , 129, 104902	2.5	0
83	Self-dual singularity through lasing and antilasing in thin elastic plates. <i>Physical Review B</i> , 2021 , 103,	3.3	3
82	A THz graphene metasurface for polarization selective virus sensing. <i>Carbon</i> , 2021 , 176, 580-591	10.4	23
81	Polarization-State Modulation in Fano Resonant Graphene Metasurface Reflector. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	3
80	Enhanced Radio-Frequency Sensors Based on a Self-Dual Emitter-Absorber. <i>Physical Review Applied</i> , 2021 , 15,	4.3	7
79	Ultrarobust Wireless Interrogation for Sensors and Transducers: A Non-Hermitian Telemetry Technique. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-9	5.2	2
78	Deterministic and probabilistic deep learning models for inverse design of broadband acoustic cloak. <i>Physical Review Research</i> , 2021 , 3,	3.9	17
77	Scattering cancellation technique for acoustic spinning objects. <i>Physical Review B</i> , 2020 , 101,	3.3	7
76	A Compact, Passive Frequency-Hopping Harmonic Sensor Based on a Microfluidic Reconfigurable Dual-Band Antenna. <i>IEEE Sensors Journal</i> , 2020 , 20, 12495-12503	4	8
75	Two-dimensional materials-based radio frequency wireless communication and sensing systems for Internet-of-things applications 2020 , 29-57		5
74	Metasurface supporting broadband circular dichroism for reflected and transmitted fields simultaneously. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 435106	3	7
73	Simplified Modal-Cancellation Approach for Substrate-Integrated-Waveguide Narrow-Band Filter Design. <i>Electronics (Switzerland)</i> , 2020 , 9, 962	2.6	2
72	PT-Symmetric Absorber-Laser Enables Electromagnetic Sensors with Unprecedented Sensitivity. <i>ACS Photonics</i> , 2020 , 7, 2080-2088	6.3	21
71	Scattering theory and cancellation of gravity-flexural waves of floating plates. <i>Physical Review B</i> , 2020 , 101,	3.3	2
70	Linear and Circular Dichroism in Graphene-Based Reflectors for Polarization Control. <i>Physical Review Applied</i> , 2020 , 13,	4.3	20

69	Bifacial Schottky-Junction Plasmonic-Based Solar Cell. <i>Energy Technology</i> , 2020 , 8, 1901280	3.5	0
68	Spectrometer-Free Graphene Plasmonics Based Refractive Index Sensor. <i>Sensors</i> , 2020 , 20,	3.8	8
67	Tunability and switching of Fano and Lorentz resonances in PTX-symmetric electronic systems. <i>Applied Physics Letters</i> , 2020 , 117, 031101	3.4	7
66	Parity-Time Symmetry and Exceptional Points for Flexural-Gravity Waves in Buoyant Thin-Plates. <i>Crystals</i> , 2020 , 10, 1039	2.3	0
65	Numerical modeling for terahertz testing of non-metallic pipes. <i>AIP Advances</i> , 2020 , 10, 095112	1.5	1
64	The influence of building interactions on seismic and elastic body waves. <i>EPJ Applied Metamaterials</i> , 2019 , 6, 18	0.8	9
63	Synthesis and Optimization of Fractional-Order Elements Using a Genetic Algorithm. <i>IEEE Access</i> , 2019 , 7, 80233-80246	3.5	37
62	Scattering Cancellation-Based Cloaking for the Maxwell-Cattaneo Heat Waves. <i>Physical Review Applied</i> , 2019 , 11,	4.3	25
61	Graphene nanoelectromagnetics: From radio frequency, terahertz to mid-infrared 2019 , 31-59		1
60	A perfect Fresnel acoustic reflector implemented by a Fano-resonant metascreen. <i>Journal of Applied Physics</i> , 2018 , 123, 144502	2.5	17
59	Towards fractional-order capacitors with broad tunable constant phase angles: multi-walled carbon nanotube-polymer composite as a case study. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 065602	3	20
58	Resonant Beam Steering and Carpet Cloaking Using an Acoustic Transformational Metascreen. <i>Physical Review Applied</i> , 2018 , 10,	4.3	15
57	Frequency domain transformation optics for diffusive photon density waves bcloaking. <i>Optics Express</i> , 2018 , 26, 24792-24803	3.3	1
56	An ultra-broadband single-component fractional-order capacitor using MoS ₂ -ferroelectric polymer composite. <i>Applied Physics Letters</i> , 2018 , 113, 093505	3.4	36
55	Flatland plasmonics and nanophotonics based on graphene and beyond. <i>Nanophotonics</i> , 2017 , 6, 1239-1262	4.6	49
54	PT-symmetric metasurfaces: wave manipulation and sensing using singular points. <i>New Journal of Physics</i> , 2017 , 19, 065002	2.9	36
53	Plasmonically Enhanced Schottky Photovoltaic Devices. <i>Scientific Reports</i> , 2017 , 7, 14253	4.9	10
52	Subwavelength sound screening by coupling space-coiled Fabry-Perot resonators. <i>Europhysics Letters</i> , 2017 , 119, 36001	1.6	1

51	Ferroelectric Fractional-Order Capacitors. <i>ChemElectroChem</i> , 2017 , 4, 2807-2813	4.3	26
50	Localized surface plate modes via flexural Mie resonances. <i>Physical Review B</i> , 2017 , 95,	3.3	6
49	Generation of high-power terahertz radiation by nonlinear photon-assisted tunneling transport in plasmonic metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 124012	1.7	4
48	Effect of Time-Delayed Feedback on the Interaction of a Dimer System with its Environment. <i>Scientific Reports</i> , 2017 , 7, 15468	4.9	1
47	Cloaking and anamorphism for light and mass diffusion. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 103002	1.7	5
46	Cloaking through cancellation of diffusive wave scattering. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160276	2.4	12
45	Mirror-backed Dark Alumina: A Nearly Perfect Absorber for Thermoelectronics and Thermophotovoltaics. <i>Scientific Reports</i> , 2016 , 6, 19984	4.9	40
44	Localized acoustic surface modes. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	4
43	Chapter 8 Experiments on Cloaking for Surface Water Waves 2016 , 287-312		
42	Density-near-zero using the acoustically induced transparency of a Fano acoustic resonator. <i>Europhysics Letters</i> , 2016 , 116, 46004	1.6	6
41	Efficient, broadband and wide-angle hot-electron transduction using metal-semiconductor hyperbolic metamaterials. <i>Nano Energy</i> , 2016 , 26, 371-381	17.1	36
40	Modulatable optical radiators and metasurfaces based on quantum nanoantennas. <i>Physical Review B</i> , 2015 , 91,	3.3	11
39	Molding acoustic, electromagnetic and water waves with a single cloak. <i>Scientific Reports</i> , 2015 , 5, 10678	4.9	27
38	Thermal invisibility based on scattering cancellation and mantle cloaking. <i>Scientific Reports</i> , 2015 , 5, 9876	4.9	53
37	Graphene metascreen for designing compact infrared absorbers with enhanced bandwidth. <i>Nanotechnology</i> , 2015 , 26, 164002	3.4	46
36	Nanoantenna harmonic sensor: theoretical analysis of contactless detection of molecules with light. <i>Nanotechnology</i> , 2015 , 26, 415201	3.4	6
35	Acoustically induced transparency using Fano resonant periodic arrays. <i>Journal of Applied Physics</i> , 2015 , 118, 164901	2.5	32
34	Infrared beam-steering using acoustically modulated surface plasmons over a graphene monolayer. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 094008	1.7	30

33	Platonic scattering cancellation for bending waves in a thin plate. <i>Scientific Reports</i> , 2014 , 4, 4644	4.9	24
32	Biharmonic split ring resonator metamaterial: Artificially dispersive effective density in thin periodically perforated plates. <i>Europhysics Letters</i> , 2014 , 107, 44002	1.6	5
31	A nonlinear plasmonic resonator for three-state all-optical switching. <i>Optics Express</i> , 2014 , 22, 6966-75	3.3	26
30	A self-assembled three-dimensional cloak in the visible. <i>Scientific Reports</i> , 2013 , 3, 2328	4.9	46
29	Exciting graphene surface plasmon polaritons through light and sound interplay. <i>Physical Review Letters</i> , 2013 , 111, 237404	7.4	93
28	Flat lens for pulse focusing of elastic waves in thin plates. <i>Applied Physics Letters</i> , 2013 , 103, 071915	3.4	70
27	Tunable graphene antennas for selective enhancement of THz-emission. <i>Optics Express</i> , 2013 , 21, 3737-453	5.3	89
26	A 3D tunable and multi-frequency graphene plasmonic cloak. <i>Optics Express</i> , 2013 , 21, 12592-603	3.3	71
25	An ultra-broadband multilayered graphene absorber. <i>Optics Express</i> , 2013 , 21, 29938-48	3.3	204
24	A dynamically reconfigurable Fano metamaterial through graphene tuning for switching and sensing applications. <i>Scientific Reports</i> , 2013 , 3, 2105	4.9	154
23	Nanoprojection Lithography Using Self-Assembled Interference Modules for Manufacturing Plasmonic Gratings. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1273-1275	2.2	2
22	A perfect absorber made of a graphene micro-ribbon metamaterial. <i>Optics Express</i> , 2012 , 20, 28017-24	3.3	428
21	Frequency-selective surface acoustic invisibility for three-dimensional immersed objects. <i>Physical Review B</i> , 2012 , 86,	3.3	17
20	Scattering cancellation of the magnetic dipole field from macroscopic spheres. <i>Optics Express</i> , 2012 , 20, 13896-906	3.3	18
19	Broadband cloaking of bending waves via homogenization of multiply perforated radially symmetric and isotropic thin elastic plates. <i>Physical Review B</i> , 2012 , 85,	3.3	48
18	Understanding the functionality of an array of invisibility cloaks. <i>Physical Review B</i> , 2011 , 84,	3.3	15
17	Bistable and self-tunable negative-index metamaterial at optical frequencies. <i>Physical Review Letters</i> , 2011 , 106, 105503	7.4	64
16	Finite elements modelling of scattering problems for flexural waves in thin plates: Application to elliptic invisibility cloaks, rotators and the mirage effect. <i>Journal of Computational Physics</i> , 2011 , 230, 2237-2245	4.1	7

15	The colours of cloaks. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 024014	1.7	45
14	Numerical analysis of three-dimensional acoustic cloaks and carpets. <i>Wave Motion</i> , 2011 , 48, 483-496	1.8	22
13	Acoustic scattering cancellation via ultrathin pseudo-surface. <i>Applied Physics Letters</i> , 2011 , 99, 191913	3.4	24
12	Cloaking dielectric spherical objects by a shell of metallic nanoparticles. <i>Physical Review B</i> , 2011 , 83,	3.3	42
11	Focussing bending waves via negative refraction in perforated thin plates. <i>Applied Physics Letters</i> , 2010 , 96, 081909	3.4	62
10	High directivity and confinement of flexural waves through ultra-refraction in thin perforated plates. <i>Europhysics Letters</i> , 2010 , 91, 54003	1.6	30
9	Perfect lenses and corners for flexural waves. <i>Physica B: Condensed Matter</i> , 2010 , 405, 2947-2949	2.8	2
8	All-angle-negative-refraction and ultra-refraction for liquid surface waves in 2D phononic crystals. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 2011-2019	2.4	26
7	Negative refraction, surface modes, and superlensing effect via homogenization near resonances for a finite array of split-ring resonators. <i>Physical Review E</i> , 2009 , 80, 046309	2.4	23
6	Ultrabroadband elastic cloaking in thin plates. <i>Physical Review Letters</i> , 2009 , 103, 024301	7.4	311
5	Cloaking bending waves propagating in thin elastic plates. <i>Physical Review B</i> , 2009 , 79,	3.3	108
4	Achieving invisibility over a finite range of frequencies. <i>Optics Express</i> , 2008 , 16, 5656-61	3.3	47
3	A homogenization route towards square cylindrical acoustic cloaks. <i>New Journal of Physics</i> , 2008 , 10, 115030	2.9	42
2	Analytical and numerical analysis of lensing effect for linear surface water waves through a square array of nearly touching rigid square cylinders. <i>Physical Review E</i> , 2008 , 77, 046308	2.4	24
1	Broadband cylindrical acoustic cloak for linear surface waves in a fluid. <i>Physical Review Letters</i> , 2008 , 101, 134501	7.4	265