

# Mohamed Farhat

## List of Publications by Citations

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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	A perfect absorber made of a graphene micro-ribbon metamaterial. <i>Optics Express</i> , <b>2012</b> , 20, 28017-24	3.3	428
85	Ultrabroadband elastic cloaking in thin plates. <i>Physical Review Letters</i> , <b>2009</b> , 103, 024301	7.4	311
84	Broadband cylindrical acoustic cloak for linear surface waves in a fluid. <i>Physical Review Letters</i> , <b>2008</b> , 101, 134501	7.4	265
83	An ultra-broadband multilayered graphene absorber. <i>Optics Express</i> , <b>2013</b> , 21, 29938-48	3.3	204
82	A dynamically reconfigurable Fano metamaterial through graphene tuning for switching and sensing applications. <i>Scientific Reports</i> , <b>2013</b> , 3, 2105	4.9	154
81	Cloaking bending waves propagating in thin elastic plates. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	108
80	Exciting graphene surface plasmon polaritons through light and sound interplay. <i>Physical Review Letters</i> , <b>2013</b> , 111, 237404	7.4	93
79	Tunable graphene antennas for selective enhancement of THz-emission. <i>Optics Express</i> , <b>2013</b> , 21, 3737-45	4.9	89
78	A 3D tunable and multi-frequency graphene plasmonic cloak. <i>Optics Express</i> , <b>2013</b> , 21, 12592-603	3.3	71
77	Flat lens for pulse focusing of elastic waves in thin plates. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 071915	3.4	70
76	Bistable and self-tunable negative-index metamaterial at optical frequencies. <i>Physical Review Letters</i> , <b>2011</b> , 106, 105503	7.4	64
75	Focussing bending waves via negative refraction in perforated thin plates. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 081909	3.4	62
74	Thermal invisibility based on scattering cancellation and mantle cloaking. <i>Scientific Reports</i> , <b>2015</b> , 5, 9876	4.9	53
73	Flatland plasmonics and nanophotonics based on graphene and beyond. <i>Nanophotonics</i> , <b>2017</b> , 6, 1239-1262	1.6	49
72	Broadband cloaking of bending waves via homogenization of multiply perforated radially symmetric and isotropic thin elastic plates. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	48
71	Achieving invisibility over a finite range of frequencies. <i>Optics Express</i> , <b>2008</b> , 16, 5656-61	3.3	47
70	Graphene metascreen for designing compact infrared absorbers with enhanced bandwidth. <i>Nanotechnology</i> , <b>2015</b> , 26, 164002	3.4	46

69	A self-assembled three-dimensional cloak in the visible. <i>Scientific Reports</i> , <b>2013</b> , 3, 2328	4.9	46
68	The colours of cloaks. <i>Journal of Optics (United Kingdom)</i> , <b>2011</b> , 13, 024014	1.7	45
67	Cloaking dielectric spherical objects by a shell of metallic nanoparticles. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	42
66	A homogenization route towards square cylindrical acoustic cloaks. <i>New Journal of Physics</i> , <b>2008</b> , 10, 115030	2.9	42
65	Mirror-backed Dark Alumina: A Nearly Perfect Absorber for Thermoelectronics and Thermophotovoltaics. <i>Scientific Reports</i> , <b>2016</b> , 6, 19984	4.9	40
64	Synthesis and Optimization of Fractional-Order Elements Using a Genetic Algorithm. <i>IEEE Access</i> , <b>2019</b> , 7, 80233-80246	3.5	37
63	PT-symmetric metasurfaces: wave manipulation and sensing using singular points. <i>New Journal of Physics</i> , <b>2017</b> , 19, 065002	2.9	36
62	Efficient, broadband and wide-angle hot-electron transduction using metal-semiconductor hyperbolic metamaterials. <i>Nano Energy</i> , <b>2016</b> , 26, 371-381	17.1	36
61	An ultra-broadband single-component fractional-order capacitor using MoS <sub>2</sub> -ferroelectric polymer composite. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 093505	3.4	36
60	Acoustically induced transparency using Fano resonant periodic arrays. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 164901	2.5	32
59	Infrared beam-steering using acoustically modulated surface plasmons over a graphene monolayer. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 094008	1.7	30
58	High directivity and confinement of flexural waves through ultra-refraction in thin perforated plates. <i>Europhysics Letters</i> , <b>2010</b> , 91, 54003	1.6	30
57	Molding acoustic, electromagnetic and water waves with a single cloak. <i>Scientific Reports</i> , <b>2015</b> , 5, 10678	4.9	27
56	Ferroelectric Fractional-Order Capacitors. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2807-2813	4.3	26
55	A nonlinear plasmonic resonator for three-state all-optical switching. <i>Optics Express</i> , <b>2014</b> , 22, 6966-75	3.3	26
54	All-angle-negative-refraction and ultra-refraction for liquid surface waves in 2D phononic crystals. <i>Journal of Computational and Applied Mathematics</i> , <b>2010</b> , 234, 2011-2019	2.4	26
53	Scattering Cancellation-Based Cloaking for the Maxwell-Cattaneo Heat Waves. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	25
52	Platonic scattering cancellation for bending waves in a thin plate. <i>Scientific Reports</i> , <b>2014</b> , 4, 4644	4.9	24

51	Acoustic scattering cancellation via ultrathin pseudo-surface. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 191913	3.4	24
50	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> , <b>2008</b> , 77, 046308	2.4	24
49	Negative refraction, surface modes, and superlensing effect via homogenization near resonances for a finite array of split-ring resonators. <i>Physical Review E</i> , <b>2009</b> , 80, 046309	2.4	23
48	A THz graphene metasurface for polarization selective virus sensing. <i>Carbon</i> , <b>2021</b> , 176, 580-591	10.4	23
47	Numerical analysis of three-dimensional acoustic cloaks and carpets. <i>Wave Motion</i> , <b>2011</b> , 48, 483-496	1.8	22
46	PT-Symmetric Absorber-Laser Enables Electromagnetic Sensors with Unprecedented Sensitivity. <i>ACS Photonics</i> , <b>2020</b> , 7, 2080-2088	6.3	21
45	Linear and Circular Dichroism in Graphene-Based Reflectors for Polarization Control. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	20
44	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> , <b>2018</b> , 51, 065602	3	20
43	Scattering cancellation of the magnetic dipole field from macroscopic spheres. <i>Optics Express</i> , <b>2012</b> , 20, 13896-906	3.3	18
42	A perfect Fresnel acoustic reflector implemented by a Fano-resonant metascreen. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 144502	2.5	17
41	Frequency-selective surface acoustic invisibility for three-dimensional immersed objects. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	17
40	Deterministic and probabilistic deep learning models for inverse design of broadband acoustic cloak. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	17
39	Understanding the functionality of an array of invisibility cloaks. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	15
38	Resonant Beam Steering and Carpet Cloaking Using an Acoustic Transformational Metascreen. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	15
37	Cloaking through cancellation of diffusive wave scattering. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2016</b> , 472, 20160276	2.4	12
36	Modulatable optical radiators and metasurfaces based on quantum nanoantennas. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	11
35	Plasmonically Enhanced Schottky Photovoltaic Devices. <i>Scientific Reports</i> , <b>2017</b> , 7, 14253	4.9	10
34	The influence of building interactions on seismic and elastic body waves. <i>EPJ Applied Metamaterials</i> , <b>2019</b> , 6, 18	0.8	9

33	A Compact, Passive Frequency-Hopping Harmonic Sensor Based on a Microfluidic Reconfigurable Dual-Band Antenna. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 12495-12503	4	8
32	Spectrometer-Free Graphene Plasmonics Based Refractive Index Sensor. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
31	Scattering cancellation technique for acoustic spinning objects. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
30	Metasurface supporting broadband circular dichroism for reflected and transmitted fields simultaneously. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 435106	3	7
29	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> , <b>2011</b> , 230, 2237-2245	4.1	7
28	Tunability and switching of Fano and Lorentz resonances in PTX-symmetric electronic systems. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 031101	3.4	7
27	Enhanced Radio-Frequency Sensors Based on a Self-Dual Emitter-Absorber. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	7
26	Nanoantenna harmonic sensor: theoretical analysis of contactless detection of molecules with light. <i>Nanotechnology</i> , <b>2015</b> , 26, 415201	3.4	6
25	Localized surface plate modes via flexural Mie resonances. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	6
24	Density-near-zero using the acoustically induced transparency of a Fano acoustic resonator. <i>Europhysics Letters</i> , <b>2016</b> , 116, 46004	1.6	6
23	Two-dimensional materials-based radio frequency wireless communication and sensing systems for Internet-of-things applications <b>2020</b> , 29-57		5
22	Cloaking and anamorphism for light and mass diffusion. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 103002	1.7	5
21	Biharmonic split ring resonator metamaterial: Artificially dispersive effective density in thin periodically perforated plates. <i>Europhysics Letters</i> , <b>2014</b> , 107, 44002	1.6	5
20	Localized acoustic surface modes. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	4
19	Generation of high-power terahertz radiation by nonlinear photon-assisted tunneling transport in plasmonic metamaterials. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 124012	1.7	4
18	Self-dual singularity through lasing and antilasing in thin elastic plates. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
17	Polarization-State Modulation in Fano Resonant Graphene Metasurface Reflector. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	3
16	Simplified Modal-Cancellation Approach for Substrate-Integrated-Waveguide Narrow-Band Filter Design. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 962	2.6	2

15	Scattering theory and cancellation of gravity-flexural waves of floating plates. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
14	Nanoprojection Lithography Using Self-Assembled Interference Modules for Manufacturing Plasmonic Gratings. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1273-1275	2.2	2
13	Perfect lenses and corners for flexural waves. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 2947-2949	2.8	2
12	Ultrarobust Wireless Interrogation for Sensors and Transducers: A Non-Hermitian Telemetry Technique. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-9	5.2	2
11	Subwavelength sound screening by coupling space-coiled Fabry-Perot resonators. <i>Europhysics Letters</i> , <b>2017</b> , 119, 36001	1.6	1
10	Graphene nanoelectromagnetics: From radio frequency, terahertz to mid-infrared <b>2019</b> , 31-59		1
9	Effect of Time-Delayed Feedback on the Interaction of a Dimer System with its Environment. <i>Scientific Reports</i> , <b>2017</b> , 7, 15468	4.9	1
8	Non-Hermitian electromagnetic double-near-zero index medium in a two-dimensional photonic crystal. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 224102	3.4	1
7	Numerical modeling for terahertz testing of non-metallic pipes. <i>AIP Advances</i> , <b>2020</b> , 10, 095112	1.5	1
6	On Coding and Decoding Reconfigurable Radiation Pattern Modulation Symbols. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 614	2.6	1
5	Frequency domain transformation optics for diffusive photon density wavesbcloaking. <i>Optics Express</i> , <b>2018</b> , 26, 24792-24803	3.3	1
4	Bifacial Schottky-Junction Plasmonic-Based Solar Cell. <i>Energy Technology</i> , <b>2020</b> , 8, 1901280	3.5	0
3	Parity-Time Symmetry and Exceptional Points for Flexural-Gravity Waves in Buoyant Thin-Plates. <i>Crystals</i> , <b>2020</b> , 10, 1039	2.3	0
2	Enhanced acoustic pressure sensors based on coherent perfect absorber-laser effect. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 104902	2.5	0
1	Chapter 8 Experiments on Cloaking for Surface Water Waves <b>2016</b> , 287-312		