

Fabrice Lemoult

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.

39
papers

1,885
citations

17
h-index

43
g-index

47
ext. papers

2,223
ext. citations

6.2
avg, IF

5.08
L-index

#	Paper	IF	Citations
39	Negative refractive index and acoustic superlens from multiple scattering in single negative metamaterials. <i>Nature</i> , 2015 , 525, 77-81	50.4	350
38	Wave propagation control at the deep subwavelength scale in metamaterials. <i>Nature Physics</i> , 2013 , 9, 55-60	16.2	219
37	Resonant metalenses for breaking the diffraction barrier. <i>Physical Review Letters</i> , 2010 , 104, 203901	7.4	168
36	Acoustic resonators for far-field control of sound on a subwavelength scale. <i>Physical Review Letters</i> , 2011 , 107, 064301	7.4	164
35	Crystalline metamaterials for topological properties at subwavelength scales. <i>Nature Communications</i> , 2017 , 8, 16023	17.4	135
34	Superabsorption of acoustic waves with bubble metascreens. <i>Physical Review B</i> , 2015 , 91,	3.3	132
33	Experimental demonstration of ordered and disordered multiresonant metamaterials for lamb waves. <i>Physical Review Letters</i> , 2014 , 112, 234301	7.4	104
32	Topological acoustic polaritons: robust sound manipulation at the subwavelength scale. <i>New Journal of Physics</i> , 2017 , 19, 075003	2.9	103
31	A polychromatic approach to far-field superlensing at visible wavelengths. <i>Nature Communications</i> , 2012 , 3, 889	17.4	82
30	Manipulating spatiotemporal degrees of freedom of waves in random media. <i>Physical Review Letters</i> , 2009 , 103, 173902	7.4	52
29	Wave-Field Shaping in Cavities: Waves Trapped in a Box with Controllable Boundaries. <i>Physical Review Letters</i> , 2015 , 115, 017701	7.4	47
28	Revisiting the wire medium: an ideal resonant metalens. <i>Waves in Random and Complex Media</i> , 2011 , 21, 591-613	1.9	46
27	Far-field sub-wavelength imaging and focusing using a wire medium based resonant metalens. <i>Waves in Random and Complex Media</i> , 2011 , 21, 614-627	1.9	41
26	Ultra small mode volume defect cavities in spatially ordered and disordered metamaterials. <i>Applied Physics Letters</i> , 2013 , 102, 144104	3.4	35
25	Subwavelength focusing in bubbly media using broadband time reversal. <i>Physical Review B</i> , 2015 , 91,	3.3	34
24	Soda Cans Metamaterial: A Subwavelength-Scaled Phononic Crystal. <i>Crystals</i> , 2016 , 6, 82	2.3	28
23	Spatiotemporal Wave Front Shaping in a Microwave Cavity. <i>Physical Review Letters</i> , 2016 , 117, 134302	7.4	27

22	Acoustic double negativity induced by position correlations within a disordered set of monopolar resonators. <i>Physical Review B</i> , 2017 , 96,	3.3	14
21	Far field subwavelength imaging of magnetic patterns. <i>Applied Physics Letters</i> , 2012 , 101, 111102	3.4	14
20	Left-handed band in an electromagnetic metamaterial induced by sub-wavelength multiple scattering. <i>Applied Physics Letters</i> , 2019 , 114, 111101	3.4	11
19	Symmetry issues in the hybridization of multi-mode waves with resonators: an example with Lamb waves metamaterial. <i>Scientific Reports</i> , 2015 , 5, 13714	4.9	11
18	Mimicking the cochlea with an active acoustic metamaterial. <i>New Journal of Physics</i> , 2019 , 21, 093012	2.9	10
17	Crystalline Soda Can Metamaterial exhibiting Graphene-like Dispersion at subwavelength scale. <i>Scientific Reports</i> , 2017 , 7, 15359	4.9	10
16	Locally polarized wave propagation through crystalline metamaterials. <i>Physical Review B</i> , 2020 , 101,	3.3	7
15	Structure-composition correspondence in crystalline metamaterials for acoustic valley-Hall effect and unidirectional sound guiding. <i>Europhysics Letters</i> , 2020 , 129, 44001	1.6	6
14	Time Reversal in Subwavelength-Scaled Resonant Media: Beating the Diffraction Limit. <i>International Journal of Microwave Science and Technology</i> , 2011 , 2011, 1-14		6
13	Exploiting spatiotemporal degrees of freedom for far-field subwavelength focusing using time reversal in fractals. <i>Physical Review B</i> , 2016 , 93,	3.3	4
12	Hybridization band gap based smart antennas: Deep subwavelength yet directional and strongly decoupled MIMO antennas 2012 ,		4
11	Measuring Dirac Cones in a Subwavelength Metamaterial. <i>Physical Review Letters</i> , 2018 , 121, 267601	7.4	4
10	Dirac cones and chiral selection of elastic waves in a soft strip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30186-30190	11.5	3
9	Inducing topology in a wire medium based metamaterial [Invited]. <i>Optical Materials Express</i> , 2021 , 11, 821	2.6	3
8	Cloaking, trapping and superlensing of lamb waves with negative refraction.. <i>Scientific Reports</i> , 2021 , 11, 23901	4.9	3
7	Nonreciprocal Manipulation of Subwavelength Fields in Locally Resonant Metamaterial Crystals. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1726-1732	4.9	2
6	New Trends Toward Locally-Resonant Metamaterials at the Mesoscopic Scale. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 251-299	0.1	1
5	Subwavelength Focussing in Metamaterials Using Far Field Time Reversal. <i>Springer Series in Materials Science</i> , 2013 , 141-168	0.9	1

- 4 Subwavelength focusing and imaging from the far field using time reversal in subwavelength scaled resonant media **2017**, 1
- 3 Soda Cans Metamaterial: Homogenization and Beyond. *World Scientific Series in Nanoscience and Nanotechnology*, **2017**, 205-250 0.1
- 2 Beating the Diffraction Limit with Positive Refraction: The Resonant Metalens Approach **2017**, 33-90
- 1 Three-dimensional acoustic lensing with a bubbly diamond metamaterial. *Journal of Applied Physics*, **2021**, 129, 245107 2.5