

Sbastien Guenneau

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.

222 papers	6,720 citations	38 h-index	74 g-index
245 ext. papers	7,792 ext. citations	3 avg, IF	6.28 L-index

#	Paper	IF	Citations
222	Transformation thermodynamics: cloaking and concentrating heat flux. <i>Optics Express</i> , 2012 , 20, 8207-18,	5.3	405
221	Experiments on transformation thermodynamics: molding the flow of heat. <i>Physical Review Letters</i> , 2013 , 110, 195901	7.4	388
220	Ultrabroadband elastic cloaking in thin plates. <i>Physical Review Letters</i> , 2009 , 103, 024301	7.4	311
219	Experiments on seismic metamaterials: molding surface waves. <i>Physical Review Letters</i> , 2014 , 112, 133901,	7.4	308
218	Broadband cylindrical acoustic cloak for linear surface waves in a fluid. <i>Physical Review Letters</i> , 2008 , 101, 134501	7.4	265
217	Acoustic metamaterials for sound focusing and confinement. <i>New Journal of Physics</i> , 2007 , 9, 399-399	2.9	222
216	Achieving control of in-plane elastic waves. <i>Applied Physics Letters</i> , 2009 , 94, 061903	3.4	216
215	Electromagnetic analysis of cylindrical invisibility cloaks and the mirage effect. <i>Optics Letters</i> , 2007 , 32, 1069-71	3	207
214	Forests as a natural seismic metamaterial: Rayleigh wave bandgaps induced by local resonances. <i>Scientific Reports</i> , 2016 , 6, 19238	4.9	170
213	A seismic metamaterial: The resonant metawedge. <i>Scientific Reports</i> , 2016 , 6, 27717	4.9	164
212	Elastic metamaterials with inertial locally resonant structures: Application to lensing and localization. <i>Physical Review B</i> , 2013 , 87,	3.3	138
211	Cloaking bending waves propagating in thin elastic plates. <i>Physical Review B</i> , 2009 , 79,	3.3	108
210	Anisotropic conductivity rotates heat fluxes in transient regimes. <i>Optics Express</i> , 2013 , 21, 6578-83	3.3	98
209	Exciting graphene surface plasmon polaritons through light and sound interplay. <i>Physical Review Letters</i> , 2013 , 111, 237404	7.4	93
208	Split-ring resonators and localized modes. <i>Physical Review B</i> , 2004 , 70,	3.3	93
207	Electromagnetic analysis of cylindrical cloaks of an arbitrary cross section. <i>Optics Letters</i> , 2008 , 33, 1584-6	3.3	87
206	Fick's second law transformed: one path to cloaking in mass diffusion. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130106	4.1	75

205	Dynamics of structural interfaces: Filtering and focussing effects for elastic waves. <i>Journal of the Mechanics and Physics of Solids</i> , 2010 , 58, 1212-1224	5	71
204	Sonic band gaps in PCF preforms: enhancing the interaction of sound and light. <i>Optics Express</i> , 2003 , 11, 2555-60	3.3	71
203	Flat lens for pulse focusing of elastic waves in thin plates. <i>Applied Physics Letters</i> , 2013 , 103, 071915	3.4	70
202	Hidden progress: broadband plasmonic invisibility. <i>Optics Express</i> , 2010 , 18, 15757-68	3.3	69
201	Clamped seismic metamaterials: ultra-low frequency stop bands. <i>New Journal of Physics</i> , 2017 , 19, 063022	2.9	67
200	Modelling of twisted optical waveguides with edge elements. <i>EPJ Applied Physics</i> , 2004 , 28, 153-157	1.1	66
199	Foundations of Photonic Crystal Fibres 2005 ,		63
198	Focussing bending waves via negative refraction in perforated thin plates. <i>Applied Physics Letters</i> , 2010 , 96, 081909	3.4	62
197	Enhanced sensing and conversion of ultrasonic Rayleigh waves by elastic metasurfaces. <i>Scientific Reports</i> , 2017 , 7, 6750	4.9	60
196	Seismic waves damping with arrays of inertial resonators. <i>Extreme Mechanics Letters</i> , 2016 , 8, 30-37	3.9	59
195	Geometrical transformations and equivalent materials in computational electromagnetism. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2008 , 27, 806-819	0.7	55
194	Thermal invisibility based on scattering cancellation and mantle cloaking. <i>Scientific Reports</i> , 2015 , 5, 9876	4.9	53
193	Transformational plasmonics: cloak, concentrator and rotator for SPPs. <i>Optics Express</i> , 2010 , 18, 12027-32	3.3	52
192	Perfect corner reflector. <i>Optics Letters</i> , 2005 , 30, 1204-6	3	51
191	Directional cloaking of flexural waves in a plate with a locally resonant metamaterial. <i>Journal of the Acoustical Society of America</i> , 2015 , 137, 1783-9	2.2	50
190	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
189	Achieving invisibility over a finite range of frequencies. <i>Optics Express</i> , 2008 , 16, 5656-61	3.3	47
188	The colours of cloaks. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 024014	1.7	45

187	Modelling of electromagnetic waves in periodic media with finite elements. <i>Journal of Computational and Applied Mathematics</i> , 2004 , 168, 321-329	2.4	44
186	A homogenization route towards square cylindrical acoustic cloaks. <i>New Journal of Physics</i> , 2008 , 10, 115030	2.9	42
185	Homogenisation for elastic photonic crystals and dynamic anisotropy. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 71, 84-96	5	41
184	Leaky modes in twisted microstructured optical fibers. <i>Waves in Random and Complex Media</i> , 2007 , 17, 559-570	1.9	38
183	Fresnel drag in space-time-modulated metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24943-24948	11.5	38
182	Plasmonic space folding: focusing surface plasmons via negative refraction in complementary media. <i>ACS Nano</i> , 2011 , 5, 6819-25	16.7	37
181	Transformed Fourier and Fick equations for the control of heat and mass diffusion. <i>AIP Advances</i> , 2015 , 5, 053404	1.5	35
180	Controlling solid elastic waves with spherical cloaks. <i>Applied Physics Letters</i> , 2014 , 105, 021901	3.4	35
179	On the use of PML for the computation of leaky modes. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2008 , 27, 95-109	0.7	34
178	Emergence of seismic metamaterials: Current state and future perspectives. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126034	2.3	32
177	Time-driven superoscillations with negative refraction. <i>Physical Review Letters</i> , 2015 , 114, 013902	7.4	31
176	Enhanced control of light and sound trajectories with three-dimensional gradient index lenses. <i>New Journal of Physics</i> , 2012 , 14, 035011	2.9	31
175	Topological beam-splitting in photonic crystals. <i>Optics Express</i> , 2019 , 27, 16088-16102	3.3	31
174	Elastic Wave Control Beyond Band-Gaps: Shaping the Flow of Waves in Plates and Half-Spaces with Subwavelength Resonant Rods. <i>Frontiers in Mechanical Engineering</i> , 2017 , 3,	2.6	30
173	High directivity and confinement of flexural waves through ultra-refraction in thin perforated plates. <i>Europhysics Letters</i> , 2010 , 91, 54003	1.6	30
172	Finite-Element Analysis of Cylindrical Invisibility Cloaks of Elliptical Cross Section. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1150-1153	2	30
171	Oblique propagation of electromagnetic and elastic waves for an array of cylindrical fibres. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003 , 459, 2215-2263	2.4	30
170	Transformation plasmonics. <i>Nanophotonics</i> , 2012 , 1, 51-64	6.3	29

169	High-frequency homogenization for checkerboard structures: defect modes, ultrarefraction, and all-angle negative refraction. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011 , 28, 1032-40	1.8	29
168	Transformation seismology: composite soil lenses for steering surface elastic Rayleigh waves. <i>Scientific Reports</i> , 2016 , 6, 25320	4.9	28
167	Dangers of using the edges of the Brillouin zone. <i>Physical Review B</i> , 2012 , 86,	3.3	28
166	Bloch waves in periodic multi-layered acoustic waveguides. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008 , 464, 2669-2692	2.4	28
165	Negative refraction in 2D checkerboards related by mirror anti-symmetry and 3D corner lenses. <i>New Journal of Physics</i> , 2005 , 7, 164-164	2.9	28
164	Homogenization of Three-Dimensional Finite Photonic Crystals. <i>Progress in Electromagnetics Research</i> , 2000 , 27, 91-127	3.8	28
163	Molding acoustic, electromagnetic and water waves with a single cloak. <i>Scientific Reports</i> , 2015 , 5, 10678	4.9	27
162	Bloch dispersion and high frequency homogenization for separable doubly-periodic structures. <i>Wave Motion</i> , 2012 , 49, 333-346	1.8	27
161	High-frequency homogenization of zero-frequency stop band photonic and phononic crystals. <i>New Journal of Physics</i> , 2013 , 15, 103014	2.9	27
160	Asymptotics for metamaterials and photonic crystals. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20120533	2.4	26
159	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
158	Scattering Cancellation-Based Cloaking for the Maxwell-Cattaneo Heat Waves. <i>Physical Review Applied</i> , 2019 , 11,	4.3	25
157	Negative refractive index, perfect lenses and checkerboards: Trapping and imaging effects in folded optical spaces. <i>Comptes Rendus Physique</i> , 2009 , 10, 352-378	1.4	25
156	Platonic scattering cancellation for bending waves in a thin plate. <i>Scientific Reports</i> , 2014 , 4, 4644	4.9	24
155	Acoustic scattering cancellation via ultrathin pseudo-surface. <i>Applied Physics Letters</i> , 2011 , 99, 191913	3.4	24
154	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
153	Confining light with negative refraction in checkerboard metamaterials and photonic crystals. <i>Physical Review A</i> , 2007 , 75,	2.6	24
152	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

151	Conversion of Love waves in a forest of trees. <i>Physical Review B</i> , 2018 , 98,	3.3	23
150	Mapping acoustical activity in 3D chiral mechanical metamaterials onto micropolar continuum elasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 137, 103877	5	22
149	Flat lens effect on seismic waves propagation in the subsoil. <i>Scientific Reports</i> , 2017 , 7, 18066	4.9	22
148	Numerical analysis of three-dimensional acoustic cloaks and carpets. <i>Wave Motion</i> , 2011 , 48, 483-496	1.8	22
147	Finite checkerboards of dissipative negative refractive index. <i>Optics Express</i> , 2006 , 14, 12950-7	3.3	22
146	Spectral effectiveness of engineered thermal cloaks in the frequency regime. <i>Scientific Reports</i> , 2014 , 4, 7386	4.9	21
145	Rayleigh-Bloch waves along elastic diffraction gratings. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20140465	2.4	21
144	Focusing: coming to the point in metamaterials. <i>Journal of Modern Optics</i> , 2010 , 57, 511-527	1.1	21
143	Moulding and shielding flexural waves in elastic plates. <i>Europhysics Letters</i> , 2014 , 105, 54004	1.6	20
142	All-angle negative refraction for surface acoustic waves in pillar-based two-dimensional phononic structures. <i>New Journal of Physics</i> , 2012 , 14, 123030	2.9	20
141	Homogenization of 3D finite photonic crystals with heterogeneous permittivity and permeability. <i>Waves in Random and Complex Media</i> , 2007 , 17, 653-697	1.9	20
140	Noncommuting limits and effective properties for oblique propagation of electromagnetic waves through an array of aligned fibres. <i>Physical Review B</i> , 2004 , 69,	3.3	20
139	Modeling of photonic crystal optical fibers with finite elements. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 1261-1264	2	20
138	Experiments on Maxwell's fish-eye dynamics in elastic plates. <i>Applied Physics Letters</i> , 2015 , 106, 024101	3.4	19
137	Wavelength-scale light concentrator made by direct 3D laser writing of polymer metamaterials. <i>Scientific Reports</i> , 2016 , 6, 33627	4.9	19
136	Numerical and Theoretical Study of Photonic Crystal Fibers. <i>Progress in Electromagnetics Research</i> , 2003 , 41, 271-305	3.8	19
135	Control of Rayleigh-like waves in thick plate Willis metamaterials. <i>AIP Advances</i> , 2016 , 6, 121707	1.5	19
134	Numerical and experimental study of an invisibility carpet in a water channel. <i>Physical Review E</i> , 2015 , 91, 023010	2.4	18

133	Plasmonic interaction of visible light with gold nanoscale checkerboards. <i>Physical Review B</i> , 2011 , 84,	3.3	18
132	Homogenization of 3D finite chiral photonic crystals. <i>Physica B: Condensed Matter</i> , 2007 , 394, 145-147	2.8	18
131	Frequency-selective surface acoustic invisibility for three-dimensional immersed objects. <i>Physical Review B</i> , 2012 , 86,	3.3	17
130	Duality relation for the Maxwell system. <i>Physical Review E</i> , 2003 , 67, 026610	2.4	17
129	Static chiral Willis continuum mechanics for three-dimensional chiral mechanical metamaterials. <i>Physical Review B</i> , 2019 , 99,	3.3	16
128	Controlling surface plasmon polaritons in transformed coordinates. <i>Journal of Modern Optics</i> , 2011 , 58, 994-1003	1.1	16
127	Non-singular cloaks allow mimesis. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 024012	1.7	16
126	Auxetic-like metamaterials as novel earthquake protections. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 17	0.8	16
125	Cloaking a vertical cylinder via homogenization in the mild-slope equation. <i>Journal of Fluid Mechanics</i> , 2016 , 796,	3.7	16
124	Causality and passivity properties of effective parameters of electromagnetic multilayered structures. <i>Physical Review B</i> , 2013 , 88,	3.3	15
123	Understanding the functionality of an array of invisibility cloaks. <i>Physical Review B</i> , 2011 , 84,	3.3	15
122	Scattering problems in elastodynamics. <i>Physical Review B</i> , 2016 , 94,	3.3	15
121	Isotropic Chiral Acoustic Phonons in 3D Quasicrystalline Metamaterials. <i>Physical Review Letters</i> , 2020 , 124, 235502	7.4	14
120	Compact optical circulator based on a uniformly magnetized ring cavity. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012 , 10, 83-101	2.6	14
119	Cloaking and imaging effects in plasmonic checkerboards of negative ϵ and μ and dielectric photonic crystal checkerboards. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2007 , 5, 63-72	2.6	14
118	Wave Mechanics in Media Pinned at Bravais Lattice Points. <i>SIAM Journal on Applied Mathematics</i> , 2016 , 76, 1-26	1.8	13
117	Mechanism for slow waves near cutoff frequencies in periodic waveguides. <i>Physical Review B</i> , 2009 , 79,	3.3	13
116	Guided and standing Bloch waves in periodic elastic strips. <i>Waves in Random and Complex Media</i> , 2009 , 19, 321-346	1.9	13

115	Bloch-wave homogenization for spectral asymptotic analysis of the periodic Maxwell operator. <i>Waves in Random and Complex Media</i> , 2007 , 17, 627-651	1.9	13
114	Analysis of Elastic Band Structures for Oblique Incidence. <i>Archive for Rational Mechanics and Analysis</i> , 2004 , 171, 129-150	2.3	13
113	Metamaterial-like transformed urbanism. <i>Innovative Infrastructure Solutions</i> , 2017 , 2, 1	2.3	12
112	Experimental observations of topologically guided water waves within non-hexagonal structures. <i>Applied Physics Letters</i> , 2020 , 116, 131603	3.4	12
111	Tailoring drug release rates in hydrogel-based therapeutic delivery applications using graphene oxide. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	12
110	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
109	Invisible waveguides on metal plates for plasmonic analogs of electromagnetic wormholes. <i>Physical Review A</i> , 2014 , 90,	2.6	12
108	Curved trajectories on transformed metal surfaces: Beam-splitter, invisibility carpet and black hole for surface plasmon polaritons. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2011 , 9, 302-307	2.6	12
107	Tessellated and stellated invisibility. <i>Optics Express</i> , 2009 , 17, 13389-94	3.3	12
106	Revolution analysis of three-dimensional arbitrary cloaks. <i>Optics Express</i> , 2009 , 17, 22603-8	3.3	12
105	Coupling between electromagnetic and mechanical vibrations of thin-walled structures. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2004 , 57, 407-428	1	12
104	Unveiling Extreme Anisotropy in Elastic Structured Media. <i>Physical Review Letters</i> , 2017 , 118, 254302	7.4	11
103	Asymptotic modelling of weakly twisted electrostatic problems. <i>Comptes Rendus - Mecanique</i> , 2006 , 334, 91-97	2.1	11
102	A finite element formulation for spectral problems in optical fibers. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2001 , 20, 120-132	0.7	11
101	Homogenization of Three-Dimensional Finite Photonic Crystals - Abstract. <i>Journal of Electromagnetic Waves and Applications</i> , 2000 , 14, 529-530	1.3	11
100	Foundations of Photonic Crystal Fibres 2012 ,		11
99	Acoustic cloaking: Geometric transform, homogenization and a genetic algorithm. <i>Wave Motion</i> , 2020 , 92, 102413	1.8	11
98	An asymptotic theory for waves guided by diffraction gratings or along microstructured surfaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20130467 ^{2.4}		10

97	Designing thermal energy harvesting devices with natural materials through optimized microstructures. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120948	4.9	10
96	Elastodynamic behavior of mechanical cloaks designed by direct lattice transformations. <i>Wave Motion</i> , 2020 , 92, 102419	1.8	10
95	Localizing Elastic Edge Waves via the Topological Rainbow Effect. <i>Physical Review Applied</i> , 2021 , 15,	4.3	10
94	The influence of building interactions on seismic and elastic body waves. <i>EPJ Applied Metamaterials</i> , 2019 , 6, 18	0.8	9
93	Broadband cloaking and mirages with flying carpets. <i>Optics Express</i> , 2010 , 18, 11537-51	3.3	9
92	Electromagnetic analysis of arbitrarily shaped pinched carpets. <i>Physical Review A</i> , 2010 , 82,	2.6	9
91	Acoustic band gaps in arrays of neutral inclusions. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 1962-1969	2.4	9
90	Asymptotic estimates for localized electromagnetic modes in doubly periodic structures with defects. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 1045-1067	2.4	9
89	Transfer matrix method for point sources radiating in classes of negative refractive index materials with 2n-fold antisymmetry. <i>Waves in Random and Complex Media</i> , 2007 , 17, 581-614	1.9	9
88	Design of photonic band gap optical fibers using finite elements. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2002 , 21, 534-539	0.7	9
87	Controlling frequency dispersion in electromagnetic invisibility cloaks. <i>Scientific Reports</i> , 2019 , 9, 6022	4.9	8
86	Finite frequency external cloaking with complementary bianisotropic media. <i>Optics Express</i> , 2014 , 22, 17387-402	3.3	8
85	Artificial dispersion via high-order homogenization: magnetoelectric coupling and magnetism from dielectric layers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20130240	2.4	8
84	Scattering cancellation technique for acoustic spinning objects. <i>Physical Review B</i> , 2020 , 101,	3.3	7
83	Effective model for elastic waves propagating in a substrate supporting a dense array of plates/beams with flexural resonances. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 143, 104029 ⁵		7
82	Type of dike using C-shaped vertical cylinders. <i>Physical Review B</i> , 2017 , 96,	3.3	7
81	Dynamic effective anisotropy: Asymptotics, simulations, and microwave experiments with dielectric fibers. <i>Physical Review B</i> , 2015 , 92,	3.3	7
80	Spectral Analysis of One-Dimensional High-Contrast Elliptic Problems with Periodic Coefficients. <i>Multiscale Modeling and Simulation</i> , 2015 , 13, 72-98	1.8	7

79	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
78	Homogenization of Dielectric Photonic Quasi Crystals. <i>Multiscale Modeling and Simulation</i> , 2010 , 8, 1862-1881	1.8	7
77	High order asymptotic analysis of twisted electrostatic problems. <i>Physica B: Condensed Matter</i> , 2007 , 394, 335-338	2.8	7
76	Spanning the scales of mechanical metamaterials using time domain simulations in transformed crystals, graphene flakes and structured soils. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 433004	1.8	6
75	Acoustic flat lensing using an indefinite medium. <i>Physical Review B</i> , 2019 , 99,	3.3	6
74	Cloaking In-Plane Elastic Waves with Swiss Rolls. <i>Materials</i> , 2020 , 13,	3.5	6
73	Analysis in temporal regime of dispersive invisible structures designed from transformation optics. <i>Physical Review B</i> , 2016 , 93,	3.3	6
72	Photonic crystal carpet: Manipulating wave fronts in the near field at 1.55 μm . <i>Physical Review B</i> , 2013 , 88,	3.3	6
71	Localized surface plate modes via flexural Mie resonances. <i>Physical Review B</i> , 2017 , 95,	3.3	6
70	Morphing for faster computations in transformation optics. <i>Optics Express</i> , 2014 , 22, 28301-15	3.3	6
69	Localised bending modes in split ring resonators. <i>Physica B: Condensed Matter</i> , 2007 , 394, 141-144	2.8	6
68	Acoustic stop bands in almost-periodic and weakly randomized stratified media: perturbation analysis. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2008 , 24, 549-556	2	6
67	Cyclic concentrator, carpet cloaks and fisheye lens via transformation plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 044023	1.7	6
66	Willis coupling in water waves. <i>New Journal of Physics</i> , 2021 , 23, 073004	2.9	6
65	Role of nanophotonics in the birth of seismic megastructures. <i>Nanophotonics</i> , 2019 , 8, 1591-1605	6.3	5
64	Cloaking and anamorphism for light and mass diffusion. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 103002	1.7	5
63	Biharmonic split ring resonator metamaterial: Artificially dispersive effective density in thin periodically perforated plates. <i>Europhysics Letters</i> , 2014 , 107, 44002	1.6	5
62	Pure currents in foliated waveguides. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2008 , 61, 453-474	1	5

61	Active thermal cloaking and mimicking.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200941	2.4	5
60	Elastodynamic cloaking and field enhancement for soft spheres. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 445101	3	5
59	Steering in-plane shear waves with inertial resonators in platonic crystals. <i>Applied Physics Letters</i> , 2015 , 106, 223502	3.4	4
58	Two-scale cut-and-projection convergence; homogenization of quasiperiodic structures. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 1101-1106	2.3	4
57	Bicephalous transformed media: concentrator versus rotator and cloak versus superscatterer. <i>Optics Express</i> , 2014 , 22, 23614-9	3.3	4
56	Origami with negative refractive index to generate super-lenses. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 405303	1.8	4
55	Transformation media with variable optical axes. <i>New Journal of Physics</i> , 2012 , 14, 103042	2.9	4
54	Chemometric analysis for comparison of heparan sulphate oligosaccharides. <i>Journal of the Royal Society Interface</i> , 2009 , 6, 997-1004	4.1	4
53	Swiss roll lattices: numerical and asymptotic modeling. <i>Waves in Random and Complex Media</i> , 2007 , 17, 571-579	1.9	4
52	Hybrid topological guiding mechanisms for photonic crystal fibers. <i>Optics Express</i> , 2020 , 28, 30871-30888	3.3	4
51	Sols structurés sous sollicitation dynamique : des matériaux en géotechnique. <i>Revue Française De Géotechnique</i> , 2017 , 4	0.1	4
50	Finite element analysis of electromagnetic waves in two-dimensional transformed bianisotropic media. <i>Optics Express</i> , 2016 , 24, 26479-26493	3.3	4
49	Single frequency microwave cloaking and subwavelength imaging with curved wired media. <i>Optics Express</i> , 2015 , 23, 10319-26	3.3	3
48	Analogies between optical propagation and heat diffusion: applications to microcavities, gratings and cloaks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150143	2.4	3
47	Focussing light through a stack of toroidal channels in PMMA. <i>Optics Express</i> , 2011 , 19, 16154-9	3.3	3
46	Estimates for localised transverse electric modes in multi-structured crystal fibres. <i>Physica B: Condensed Matter</i> , 2007 , 394, 281-284	2.8	3
45	Comparisons of finite element and Rayleigh methods for the study of conical Bloch waves in arrays of metallic cylinders. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2004 , 23, 932-949	0.7	3
44	Elastic waves in arrays of elliptic inclusions. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005 , 220,	1	3

43	Self-dual singularity through lasing and antilasing in thin elastic plates. <i>Physical Review B</i> , 2021 , 103,	3.3	3
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