

Sbastien Guenneau

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.

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	Cloaking strategy for Love waves. <i>Extreme Mechanics Letters</i> , 2022 , 50, 101564	3.9	0
221	Morphing for faster computations with finite difference time domain algorithms. <i>EPJ Applied Metamaterials</i> , 2022 , 9, 2	0.8	
220	Wavelet-based Edge Multiscale Finite Element Method for Helmholtz problems in perforated domains. <i>Multiscale Modeling and Simulation</i> , 2021 , 19, 1684-1709	1.8	
219	Self-dual singularity through lasing and antilasing in thin elastic plates. <i>Physical Review B</i> , 2021 , 103,	3.3	3
218	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
217	Time-domain investigation of an external cloak for antiplane elastic waves. <i>Applied Physics Letters</i> , 2021 , 118, 191102	3.4	1
216	Acoustic Topological Circuitry in Square and Rectangular Phononic Crystals. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
215	Active thermal cloaking and mimicking.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200941	2.4	5
214	Localizing Elastic Edge Waves via the Topological Rainbow Effect. <i>Physical Review Applied</i> , 2021 , 15,	4.3	10
213	On Near-cloaking for Linear Elasticity. <i>Multiscale Modeling and Simulation</i> , 2021 , 19, 633-664	1.8	1
212	Pulse Dynamics of Flexural Waves in Transformed Plates. <i>Advanced Functional Materials</i> , 2021 , 31, 20092666	2.6	3
211	Willis coupling in water waves. <i>New Journal of Physics</i> , 2021 , 23, 073004	2.9	6
210	Effective Model for Elastic Waves in a Substrate Supporting an Array of Plates/Beams with Flexural and Longitudinal Resonances. <i>Journal of Elasticity</i> , 2021 , 146, 143	1.5	0
209	Scattering cancellation technique for acoustic spinning objects. <i>Physical Review B</i> , 2020 , 101,	3.3	7
208	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, 1040295	2.5	7
207	Isotropic Chiral Acoustic Phonons in 3D Quasicrystalline Metamaterials. <i>Physical Review Letters</i> , 2020 , 124, 235502	7.4	14
206	Experimental observations of topologically guided water waves within non-hexagonal structures. <i>Applied Physics Letters</i> , 2020 , 116, 131603	3.4	12

205	Cloaking In-Plane Elastic Waves with Swiss Rolls. <i>Materials</i> , 2020 , 13,	3.5	6
204	Scattering theory and cancellation of gravity-flexural waves of floating plates. <i>Physical Review B</i> , 2020 , 101,	3.3	2
203	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
202	Hybridized Love Waves in a Guiding Layer Supporting an Array of Plates with Decorative Endings. <i>Materials</i> , 2020 , 13,	3.5	1
201	Hybrid topological guiding mechanisms for photonic crystal fibers. <i>Optics Express</i> , 2020 , 28, 30871-30888,	3.3	4
200	Parity-Time Symmetry and Exceptional Points for Flexural-Gravity Waves in Buoyant Thin-Plates. <i>Crystals</i> , 2020 , 10, 1039	2.3	0
199	Acoustic cloaking: Geometric transform, homogenization and a genetic algorithm. <i>Wave Motion</i> , 2020 , 92, 102413	1.8	11
198	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
197	Elastodynamic behavior of mechanical cloaks designed by direct lattice transformations. <i>Wave Motion</i> , 2020 , 92, 102419	1.8	10
196	Past, present and future of seismic metamaterials: experiments on soil dynamics, cloaking, large scale analogue computer and space-time modulations. <i>Comptes Rendus Physique</i> , 2020 , 21, 767-785	1.4	1
195	The influence of building interactions on seismic and elastic body waves. <i>EPJ Applied Metamaterials</i> , 2019 , 6, 18	0.8	9
194	Static chiral Willis continuum mechanics for three-dimensional chiral mechanical metamaterials. <i>Physical Review B</i> , 2019 , 99,	3.3	16
193	Scattering Cancellation-Based Cloaking for the Maxwell-Cattaneo Heat Waves. <i>Physical Review Applied</i> , 2019 , 11,	4.3	25
192	Controlling frequency dispersion in electromagnetic invisibility cloaks. <i>Scientific Reports</i> , 2019 , 9, 6022	4.9	8
191	Acoustic flat lensing using an indefinite medium. <i>Physical Review B</i> , 2019 , 99,	3.3	6
190	Role of nanophotonics in the birth of seismic megastructures. <i>Nanophotonics</i> , 2019 , 8, 1591-1605	6.3	5
189	Topological beam-splitting in photonic crystals. <i>Optics Express</i> , 2019 , 27, 16088-16102	3.3	31
188	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

187	Quasiperiodic Composites: Multiscale Reiterated Homogenization 2019 ,		1
186	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
185	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
184	How to advantageously manage the effective ellipticity of seismic waves in metamaterials?. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 365, 042063	0.4	
183	Conversion of Love waves in a forest of trees. <i>Physical Review B</i> , 2018 , 98,	3.3	23
182	Frequency domain transformation optics for diffusive photon density wavesUcloaking. <i>Optics Express</i> , 2018 , 26, 24792-24803	3.3	1
181	Metamaterial-like transformed urbanism. <i>Innovative Infrastructure Solutions</i> , 2017 , 2, 1	2.3	12
180	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
179	Enhanced sensing and conversion of ultrasonic Rayleigh waves by elastic metasurfaces. <i>Scientific Reports</i> , 2017 , 7, 6750	4.9	60
178	Localized surface plate modes via flexural Mie resonances. <i>Physical Review B</i> , 2017 , 95,	3.3	6
177	Type of dike using C-shaped vertical cylinders. <i>Physical Review B</i> , 2017 , 96,	3.3	7
176	Dynamic Homogenization of Acoustic and Elastic Metamaterials and Phononic Crystals. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 1-56	0.1	
175	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
174	Seismic Metamaterials: Controlling Surface Rayleigh Waves Using Analogies with Electromagnetic Metamaterials. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 301-337	0.1	2
173	Unveiling Extreme Anisotropy in Elastic Structured Media. <i>Physical Review Letters</i> , 2017 , 118, 254302	7.4	11
172	Clamped seismic metamaterials: ultra-low frequency stop bands. <i>New Journal of Physics</i> , 2017 , 19, 063022	2.9	67
171	Cloaking and anamorphism for light and mass diffusion. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 103002	1.7	5
170	Flat lens effect on seismic waves propagation in the subsoil. <i>Scientific Reports</i> , 2017 , 7, 18066	4.9	22

169	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
168	Sols structur�s sous sollicitation dynamique : des m�tam�mat�riaux en g�otechnique. <i>Revue Fran�aise De G�otechnique</i> , 2017 , 4	0.1	4
167	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
166	Analysis in temporal regime of dispersive invisible structures designed from transformation optics. <i>Physical Review B</i> , 2016 , 93,	3.3	6
165	Wavelength-scale light concentrator made by direct 3D laser writing of polymer metamaterials. <i>Scientific Reports</i> , 2016 , 6, 33627	4.9	19
164	Forests as a natural seismic metamaterial: Rayleigh wave bandgaps induced by local resonances. <i>Scientific Reports</i> , 2016 , 6, 19238	4.9	170
163	Transformation seismology: composite soil lenses for steering surface elastic Rayleigh waves. <i>Scientific Reports</i> , 2016 , 6, 25320	4.9	28
162	A seismic metamaterial: The resonant metawedge. <i>Scientific Reports</i> , 2016 , 6, 27717	4.9	164
161	Seismic waves damping with arrays of inertial resonators. <i>Extreme Mechanics Letters</i> , 2016 , 8, 30-37	3.9	59
160	Wave Mechanics in Media Pinned at Bravais Lattice Points. <i>SIAM Journal on Applied Mathematics</i> , 2016 , 76, 1-26	1.8	13
159	Finite element analysis of electromagnetic waves in two-dimensional transformed bianisotropic media. <i>Optics Express</i> , 2016 , 24, 26479-26493	3.3	4
158	Cyclic concentrator, carpet cloaks and fisheye lens via transformation plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 044023	1.7	6
157	Control of Rayleigh-like waves in thick plate Willis metamaterials. <i>AIP Advances</i> , 2016 , 6, 121707	1.5	19
156	Elastodynamic cloaking and field enhancement for soft spheres. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 445101	3	5
155	Cloaking a vertical cylinder via homogenization in the mild-slope equation. <i>Journal of Fluid Mechanics</i> , 2016 , 796,	3.7	16
154	Scattering problems in elastodynamics. <i>Physical Review B</i> , 2016 , 94,	3.3	15
153	Experiments on Maxwell�s fish-eye dynamics in elastic plates. <i>Applied Physics Letters</i> , 2015 , 106, 024101	3.4	19
152	Molding acoustic, electromagnetic and water waves with a single cloak. <i>Scientific Reports</i> , 2015 , 5, 106784	4.9	27

151	Thermal invisibility based on scattering cancellation and mantle cloaking. <i>Scientific Reports</i> , 2015 , 5, 9874-9	4.9	53
150	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
149	Constructing metamaterials from subwavelength pixels with constant indices product. <i>Optics Express</i> , 2015 , 23, 7140-51	3.3	1
148	Single frequency microwave cloaking and subwavelength imaging with curved wired media. <i>Optics Express</i> , 2015 , 23, 10319-26	3.3	3
147	Steering in-plane shear waves with inertial resonators in platonic crystals. <i>Applied Physics Letters</i> , 2015 , 106, 223502	3.4	4
146	Transformed Fourier and Fick equations for the control of heat and mass diffusion. <i>AIP Advances</i> , 2015 , 5, 053404	1.5	35
145	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
144	Dynamic effective anisotropy: Asymptotics, simulations, and microwave experiments with dielectric fibers. <i>Physical Review B</i> , 2015 , 92,	3.3	7
143	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
142	Time-driven superoscillations with negative refraction. <i>Physical Review Letters</i> , 2015 , 114, 013902	7.4	31
141	Numerical and experimental study of an invisibility carpet in a water channel. <i>Physical Review E</i> , 2015 , 91, 023010	2.4	18
140	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
139	Auxetic-like metamaterials as novel earthquake protections. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 17	0.8	16
138	Spectral effectiveness of engineered thermal cloaks in the frequency regime. <i>Scientific Reports</i> , 2014 , 4, 7386	4.9	21
137	Controlling solid elastic waves with spherical cloaks. <i>Applied Physics Letters</i> , 2014 , 105, 021901	3.4	35
136	Invisible waveguides on metal plates for plasmonic analogs of electromagnetic wormholes. <i>Physical Review A</i> , 2014 , 90,	2.6	12
135	Homogenisation for elastic photonic crystals and dynamic anisotropy. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 71, 84-96	5	41
134	Experiments on seismic metamaterials: molding surface waves. <i>Physical Review Letters</i> , 2014 , 112, 133901	7.4	308

133	Platonic scattering cancellation for bending waves in a thin plate. <i>Scientific Reports</i> , 2014 , 4, 4644	4.9	24
132	Transformation Optics of Surface Plasmon Polaritons. <i>Handbook of Surface Science</i> , 2014 , 4, 279-307		
131	Moulding and shielding flexural waves in elastic plates. <i>Europhysics Letters</i> , 2014 , 105, 54004	1.6	20
130	Biharmonic split ring resonator metamaterial: Artificially dispersive effective density in thin periodically perforated plates. <i>Europhysics Letters</i> , 2014 , 107, 44002	1.6	5
129	Morphing for faster computations in transformation optics. <i>Optics Express</i> , 2014 , 22, 28301-15	3.3	6
128	Finite frequency external cloaking with complementary bianisotropic media. <i>Optics Express</i> , 2014 , 22, 17387-402	3.3	8
127	Bicephalous transformed media: concentrator versus rotator and cloak versus superscatterer. <i>Optics Express</i> , 2014 , 22, 23614-9	3.3	4
126	Negative-index materials: a key to "white" multilayer Fabry-Perot. <i>Optics Letters</i> , 2014 , 39, 1729-32	3	1
125	Origami with negative refractive index to generate super-lenses. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 405303	1.8	4
124	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
123	Focusing light in a bianisotropic slab with negatively refracting materials. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 135901	1.8	2
122	Exciting graphene surface plasmon polaritons through light and sound interplay. <i>Physical Review Letters</i> , 2013 , 111, 237404	7.4	93
121	Flat lens for pulse focusing of elastic waves in thin plates. <i>Applied Physics Letters</i> , 2013 , 103, 071915	3.4	70
120	Photonic crystal carpet: Manipulating wave fronts in the near field at 1.55 μ m. <i>Physical Review B</i> , 2013 , 88,	3.3	6
119	Causality and passivity properties of effective parameters of electromagnetic multilayered structures. <i>Physical Review B</i> , 2013 , 88,	3.3	15
118	Fundamentals of Acoustic Metamaterials. <i>Springer Series in Materials Science</i> , 2013 , 1-42	0.9	
117	Cloaking Liquid Surface Waves and Plasmon Polaritons. <i>Springer Series in Materials Science</i> , 2013 , 267-288.9		
116	Experiments on transformation thermodynamics: molding the flow of heat. <i>Physical Review Letters</i> , 2013 , 110, 195901	7.4	388

115	High-frequency homogenization of zero-frequency stop band photonic and phononic crystals. <i>New Journal of Physics</i> , 2013 , 15, 103014	2.9	27
114	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
113	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
112	Anisotropic conductivity rotates heat fluxes in transient regimes. <i>Optics Express</i> , 2013 , 21, 6578-83	3.3	98
111	Elastic metamaterials with inertial locally resonant structures: Application to lensing and localization. <i>Physical Review B</i> , 2013 , 87,	3.3	138
110	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
109	Multiscale models of electromagnetic and plasmonic metamaterials. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2013 , 19-71	0.6	
108	METAMATERIALS AND THE MATHEMATICAL SCIENCE OF INVISIBILITY 2013 , 272-291		
107	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
106	Bloch dispersion and high frequency homogenization for separable doubly-periodic structures. <i>Wave Motion</i> , 2012 , 49, 333-346	1.8	27
105	Transformation thermodynamics: cloaking and concentrating heat flux. <i>Optics Express</i> , 2012 , 20, 8207-18,	3.3	405
104	Transformation plasmonics. <i>Nanophotonics</i> , 2012 , 1, 51-64	6.3	29
103	Transformation media with variable optical axes. <i>New Journal of Physics</i> , 2012 , 14, 103042	2.9	4
102	Frequency-selective surface acoustic invisibility for three-dimensional immersed objects. <i>Physical Review B</i> , 2012 , 86,	3.3	17
101	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
100	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
99	Dangers of using the edges of the Brillouin zone. <i>Physical Review B</i> , 2012 , 86,	3.3	28
98	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

97	Foundations of Photonic Crystal Fibres 2012 ,		11
96	An Introduction to Mathematics of Transformational Plasmonics 2012 , 235-277		
95	Controlling surface plasmon polaritons in transformed coordinates. <i>Journal of Modern Optics</i> , 2011 , 58, 994-1003	1.1	16
94	Understanding the functionality of an array of invisibility cloaks. <i>Physical Review B</i> , 2011 , 84,	3.3	15
93	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
92	Plasmonic space folding: focusing surface plasmons via negative refraction in complementary media. <i>ACS Nano</i> , 2011 , 5, 6819-25	16.7	37
91	Focussing light through a stack of toroidal channels in PMMA. <i>Optics Express</i> , 2011 , 19, 16154-9	3.3	3
90	Plasmonic interaction of visible light with gold nanoscale checkerboards. <i>Physical Review B</i> , 2011 , 84,	3.3	18
89	TRANSFORMATION ELECTROMAGNETISM 2011 , 239-262		
88	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
87	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
86	The colours of cloaks. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 024014	1.7	45
85	On a class of three-phase checkerboards with unusual effective properties. <i>Comptes Rendus - Mecanique</i> , 2011 , 339, 411-417	2.1	2
84	Numerical analysis of three-dimensional acoustic cloaks and carpets. <i>Wave Motion</i> , 2011 , 48, 483-496	1.8	22
83	Acoustic scattering cancellation via ultrathin pseudo-surface. <i>Applied Physics Letters</i> , 2011 , 99, 191913	3.4	24
82	Non-singular arbitrary cloaks dressing three-dimensional anisotropic obstacles. <i>Journal of Modern Optics</i> , 2011 , 58, 786-795	1.1	2
81	Non-singular cloaks allow mimesis. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 024012	1.7	16
80	High-frequency spectral analysis of thin periodic acoustic strips: Theory and numerics. <i>European Journal of Applied Mathematics</i> , 2010 , 21, 557-590	1	2

79	Focussing bending waves via negative refraction in perforated thin plates. <i>Applied Physics Letters</i> , 2010 , 96, 081909	3.4	62
78	Broadband cloaking and mirages with flying carpets. <i>Optics Express</i> , 2010 , 18, 11537-51	3.3	9
77	Transformational plasmonics: cloak, concentrator and rotator for SPPs. <i>Optics Express</i> , 2010 , 18, 12027-32	3.3	52
76	Hidden progress: broadband plasmonic invisibility. <i>Optics Express</i> , 2010 , 18, 15757-68	3.3	69
75	Homogenization of Dielectric Photonic Quasi Crystals. <i>Multiscale Modeling and Simulation</i> , 2010 , 8, 1862-1881	1.8	7
74	High directivity and confinement of flexural waves through ultra-refraction in thin perforated plates. <i>Europhysics Letters</i> , 2010 , 91, 54003	1.6	30
73	Focusing: coming to the point in metamaterials. <i>Journal of Modern Optics</i> , 2010 , 57, 511-527	1.1	21
72	From transformational optics to plasmonics 2010 ,		1
71	Electromagnetic analysis of arbitrarily shaped pinched carpets. <i>Physical Review A</i> , 2010 , 82,	2.6	9
70	Perfect lenses and corners for flexural waves. <i>Physica B: Condensed Matter</i> , 2010 , 405, 2947-2949	2.8	2
69	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
68	Acoustic band gaps in arrays of neutral inclusions. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 1962-1969	2.4	9
67	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
66	Geometrical Transformations for Numerical Modelling and for New Material Design in Photonics. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 49-61	0.2	
65	Chemometric analysis for comparison of heparan sulphate oligosaccharides. <i>Journal of the Royal Society Interface</i> , 2009 , 6, 997-1004	4.1	4
64	Negative bending mode curvature via Robin boundary conditions. <i>Comptes Rendus Physique</i> , 2009 , 10, 437-446	1.4	1
63	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
62	Tessellated and stellated invisibility. <i>Optics Express</i> , 2009 , 17, 13389-94	3.3	12

61	Revolution analysis of three-dimensional arbitrary cloaks. <i>Optics Express</i> , 2009 , 17, 22603-8	3.3	12
60	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
59	Mechanism for slow waves near cutoff frequencies in periodic waveguides. <i>Physical Review B</i> , 2009 , 79,	3.3	13
58	Ultrabroadband elastic cloaking in thin plates. <i>Physical Review Letters</i> , 2009 , 103, 024301	7.4	311
57	Guided and standing Bloch waves in periodic elastic strips. <i>Waves in Random and Complex Media</i> , 2009 , 19, 321-346	1.9	13
56	Cloaking bending waves propagating in thin elastic plates. <i>Physical Review B</i> , 2009 , 79,	3.3	108
55	Achieving control of in-plane elastic waves. <i>Applied Physics Letters</i> , 2009 , 94, 061903	3.4	216
54	Finite-Element Analysis of Cylindrical Invisibility Cloaks of Elliptical Cross Section. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1150-1153	2	30
53	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
52	Electromagnetic analysis of cylindrical cloaks of an arbitrary cross section. <i>Optics Letters</i> , 2008 , 33, 1584-5	5	87
51	Achieving invisibility over a finite range of frequencies. <i>Optics Express</i> , 2008 , 16, 5656-61	3.3	47
50	Pure currents in foliated waveguides. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2008 , 61, 453-474	1	5
49	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
48	A homogenization route towards square cylindrical acoustic cloaks. <i>New Journal of Physics</i> , 2008 , 10, 115030	2.9	42
47	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
46	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
45	Broadband cylindrical acoustic cloak for linear surface waves in a fluid. <i>Physical Review Letters</i> , 2008 , 101, 134501	7.4	265
44	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

43	Leaky modes in twisted microstructured optical fibers. <i>Waves in Random and Complex Media</i> , 2007 , 17, 559-570	1.9	38
42	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
41	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
40	Homogenization of 3D finite chiral photonic crystals. <i>Physica B: Condensed Matter</i> , 2007 , 394, 145-147	2.8	18
39	High order asymptotic analysis of twisted electrostatic problems. <i>Physica B: Condensed Matter</i> , 2007 , 394, 335-338	2.8	7
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