

Stefan Enoch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7341360/publications.pdf>

Version: 2024-02-01

206
papers

8,773
citations

61945

43
h-index

45285

90
g-index

209
all docs

209
docs citations

209
times ranked

5674
citing authors

#	ARTICLE	IF	CITATIONS
1	A Metamaterial for Directive Emission. <i>Physical Review Letters</i> , 2002, 89, 213902.	2.9	1,050
2	Strong Influence of Hole Shape on Extraordinary Transmission through Periodic Arrays of Subwavelength Holes. <i>Physical Review Letters</i> , 2004, 92, 183901.	2.9	581
3	Experiments on Seismic Metamaterials: Molding Surface Waves. <i>Physical Review Letters</i> , 2014, 112, 133901.	2.9	439
4	Ultrabroadband Elastic Cloaking in Thin Plates. <i>Physical Review Letters</i> , 2009, 103, 024301.	2.9	384
5	Theory of light transmission through subwavelength periodic hole arrays. <i>Physical Review B</i> , 2000, 62, 16100-16108.	1.1	357
6	Anomalous refractive properties of photonic crystals. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 1012.	0.8	344
7	Broadband Cylindrical Acoustic Cloak for Linear Surface Waves in a Fluid. <i>Physical Review Letters</i> , 2008, 101, 134501.	2.9	314
8	Role of shape and localized resonances in extraordinary transmission through periodic arrays of subwavelength holes: Experiment and theory. <i>Physical Review B</i> , 2005, 72, .	1.1	279
9	Self-guiding in two-dimensional photonic crystals. <i>Optics Express</i> , 2003, 11, 1203.	1.7	214
10	Strong Modification of the Nonlinear Optical Response of Metallic Subwavelength Hole Arrays. <i>Physical Review Letters</i> , 2006, 97, 146102.	2.9	197
11	Optical sensing based on plasmon coupling in nanoparticle arrays. <i>Optics Express</i> , 2004, 12, 3422.	1.7	196
12	Resonant optical transmission through thin metallic films with and without holes. <i>Optics Express</i> , 2003, 11, 482.	1.7	186
13	A Metallic Fabry-Pérot Directive Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2006, 54, 220-224.	3.1	169
14	Electromagnetic coupling between a metal nanoparticle grating and a metallic surface. <i>Optics Letters</i> , 2005, 30, 3404.	1.7	151
15	Morpho butterflies wings color modeled with lamellar grating theory. <i>Optics Express</i> , 2001, 9, 567.	1.7	136
16	Cloaking bending waves propagating in thin elastic plates. <i>Physical Review B</i> , 2009, 79, .	1.1	126
17	Clamped seismic metamaterials: ultra-low frequency stop bands. <i>New Journal of Physics</i> , 2017, 19, 063022.	1.2	115
18	Band Gap Formation and Multiple Scattering in Photonic Quasicrystals with a Penrose-Type Lattice. <i>Physical Review Letters</i> , 2005, 94, 183903.	2.9	100

#	ARTICLE	IF	CITATIONS
19	Seismic waves damping with arrays of inertial resonators. <i>Extreme Mechanics Letters</i> , 2016, 8, 30-37.	2.0	95
20	Total absorption of light by lamellar metallic gratings. <i>Optics Express</i> , 2008, 16, 15431.	1.7	94
21	Photonic Crystal Lens: From Negative Refraction and Negative Index to Negative Permittivity and Permeability. <i>Physical Review Letters</i> , 2006, 97, 073905.	2.9	93
22	Design and properties of dielectric surface plasmon Bragg mirrors. <i>Optics Express</i> , 2010, 18, 14496.	1.7	92
23	Flat lens for pulse focusing of elastic waves in thin plates. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	82
24	Emergence of seismic metamaterials: Current state and future perspectives. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126034.	0.9	81
25	Perfect lenses made with left-handed materials: Alice's mirror?. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 122.	0.8	80
26	Hidden progress: broadband plasmonic invisibility. <i>Optics Express</i> , 2010, 18, 15757.	1.7	72
27	Focussing bending waves via negative refraction in perforated thin plates. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	71
28	Coupling localized and extended plasmons to improve the light extraction through metal films. <i>Optics Express</i> , 2007, 15, 10533.	1.7	70
29	Plasmonic Space Folding: Focusing Surface Plasmons via Negative Refraction in Complementary Media. <i>ACS Nano</i> , 2011, 5, 6819-6825.	7.3	70
30	Comparison of plasmon surface waves on shallow and deep metallic 1D and 2D gratings. <i>Optics Express</i> , 2007, 15, 4224.	1.7	68
31	Enhanced emission with angular confinement from photonic crystals. <i>Applied Physics Letters</i> , 2002, 81, 1588-1590.	1.5	60
32	Absorption of light by extremely shallow metallic gratings: metamaterial behavior. <i>Optics Express</i> , 2009, 17, 6770.	1.7	60
33	Simple layer-by-layer photonic crystal for the control of thermal emission. <i>Applied Physics Letters</i> , 2005, 86, 261101.	1.5	59
34	Broadband cloaking of bending waves via homogenization of multiply perforated radially symmetric and isotropic thin elastic plates. <i>Physical Review B</i> , 2012, 85, .	1.1	58
35	Transformational plasmonics: cloak, concentrator and rotator for SPPs. <i>Optics Express</i> , 2010, 18, 12027.	1.7	54
36	The richness of the dispersion relation of electromagnetic bandgap materials. <i>IEEE Transactions on Antennas and Propagation</i> , 2003, 51, 2659-2666.	3.1	53

#	ARTICLE	IF	CITATIONS
37	Localized modes in photonic quasicrystals with Penrose-type lattice. <i>Optics Express</i> , 2006, 14, 10021.	1.7	53
38	The colours of cloaks. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 024014.	1.0	53
39	Achieving invisibility over a finite range of frequencies. <i>Optics Express</i> , 2008, 16, 5656.	1.7	51
40	Highly directive light sources using two-dimensional photonic crystal slabs. <i>Applied Physics Letters</i> , 2001, 79, 4280-4282.	1.5	49
41	Numerical evidence of ultrarefractive optics in photonic crystals. <i>Optics Communications</i> , 1999, 161, 171-176.	1.0	48
42	Stacking patterns in self-assembly opal photonic crystals. <i>Applied Physics Letters</i> , 2007, 90, 161131.	1.5	46
43	A homogenization route towards square cylindrical acoustic cloaks. <i>New Journal of Physics</i> , 2008, 10, 115030.	1.2	46
44	Enhanced light transmission by hole arrays. <i>Journal of Optics</i> , 2002, 4, S83-S87.	1.5	44
45	Time-Driven Superoscillations with Negative Refraction. <i>Physical Review Letters</i> , 2015, 114, 013902.	2.9	41
46	Flat lens effect on seismic waves propagation in the subsoil. <i>Scientific Reports</i> , 2017, 7, 18066.	1.6	41
47	Finite wavelength cloaking by plasmonic resonance. <i>New Journal of Physics</i> , 2008, 10, 115020.	1.2	39
48	Transformation plasmonics. <i>Nanophotonics</i> , 2012, 1, 51-64.	2.9	39
49	Auxetic-like metamaterials as novel earthquake protections. <i>EPJ Applied Metamaterials</i> , 2015, 2, 17.	0.8	39
50	Photosensitive chalcogenide metasurfaces supporting bound states in the continuum. <i>Optics Express</i> , 2019, 27, 33847.	1.7	39
51	Combined fictitious-sourcesâ€“scattering-matrix method. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 1417.	0.8	38
52	Enhanced control of light and sound trajectories with three-dimensional gradient index lenses. <i>New Journal of Physics</i> , 2012, 14, 035011.	1.2	37
53	Structural Colors in Nature and Butterfly-Wing Modeling. <i>Optics and Photonics News</i> , 2003, 14, 38.	0.4	36
54	Local observation of plasmon focusingâ€“in Talbot carpets. <i>Optics Express</i> , 2009, 17, 23772.	1.7	36

#	ARTICLE	IF	CITATIONS
55	Enhanced transmission due to nonplasmon resonances in one- and two-dimensional gratings. <i>Applied Optics</i> , 2004, 43, 999.	2.1	34
56	High directivity and confinement of flexural waves through ultra-refraction in thin perforated plates. <i>Europhysics Letters</i> , 2010, 91, 54003.	0.7	31
57	Molding acoustic, electromagnetic and water waves with a single cloak. <i>Scientific Reports</i> , 2015, 5, 10678.	1.6	31
58	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.	1.1	29
59	Numerical analysis of three-dimensional acoustic cloaks and carpets. <i>Wave Motion</i> , 2011, 48, 483-496.	1.0	29
60	Theoretical study of photonic band gaps in woodpile crystals. <i>Physical Review E</i> , 2003, 67, 066601.	0.8	28
61	Analysis of the physical origin of surface modes on finite-size photonic crystals. <i>Physical Review B</i> , 2005, 72, .	1.1	28
62	Confining light with negative refraction in checkerboard metamaterials and photonic crystals. <i>Physical Review A</i> , 2007, 75, .	1.0	28
63	A Novel Metamaterial-Inspired RF-coil for Preclinical Dual-Nuclei MRI. <i>Scientific Reports</i> , 2018, 8, 9190.	1.6	28
64	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.	0.8	27
65	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.	0.8	27
66	Acoustic scattering cancellation via ultrathin pseudo-surface. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	27
67	Platonic Scattering Cancellation for Bending Waves in a Thin Plate. <i>Scientific Reports</i> , 2014, 4, 4644.	1.6	27
68	From scattering or impedance matrices to Bloch modes of photonic crystals. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2002, 19, 1547.	0.8	26
69	Dispersion Diagrams of Bloch Modes Applied to the Design of Directive Sources. <i>Progress in Electromagnetics Research</i> , 2003, 41, 61-81.	1.6	26
70	Wavelength-scale light concentrator made by direct 3D laser writing of polymer metamaterials. <i>Scientific Reports</i> , 2016, 6, 33627.	1.6	25
71	Combined Method for the Computation of the Doubly Periodic Green's Function. <i>Journal of Electromagnetic Waves and Applications</i> , 2001, 15, 205-221.	1.0	24
72	Control of Rayleigh-like waves in thick plate Willis metamaterials. <i>AIP Advances</i> , 2016, 6, .	0.6	24

#	ARTICLE	IF	CITATIONS
73	Kerker Effect in Ultrahigh-Field Magnetic Resonance Imaging. <i>Physical Review X</i> , 2018, 8, .	2.8	24
74	A Comparative Study of Representative Categories of EBG Dielectric Quasi-Crystals. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2006, 5, 331-334.	2.4	23
75	InGaN green light emitting diodes with deposited nanoparticles. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2007, 5, 86-90.	1.0	23
76	Numerical and experimental study of an invisibility carpet in a water channel. <i>Physical Review E</i> , 2015, 91, 023010.	0.8	22
77	Metamaterial-like transformed urbanism. <i>Innovative Infrastructure Solutions</i> , 2017, 2, 1.	1.1	22
78	Direct Imaging of the Energy-Transfer Enhancement between Two Dipoles in a Photonic Cavity. <i>Physical Review X</i> , 2019, 9, .	2.8	22
79	Plasmon assisted thermal modulation in nanoparticles. <i>Optics Express</i> , 2013, 21, 12145.	1.7	21
80	Stacked magnetic resonators for MRI RF coils decoupling. <i>Journal of Magnetic Resonance</i> , 2017, 275, 11-18.	1.2	21
81	Compressed perovskite aqueous mixtures near their phase transitions show very high permittivities: New prospects for high-field MRI dielectric shimming. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1753-1765.	1.9	21
82	CMOS-compatible all-dielectric metalens for improving pixel photodetector arrays. <i>APL Photonics</i> , 2020, 5, .	3.0	21
83	Towards -1 effective index with one-dimensional metal-dielectric metamaterial: a quantitative analysis of the role of absorption losses. <i>Optics Express</i> , 2007, 15, 7720.	1.7	20
84	Investigation of Extracting Photonic Crystal Lattices for Guided Modes of GaAs-Based Heterostructures. <i>IEEE Journal of Quantum Electronics</i> , 2008, 44, 777-789.	1.0	20
85	Cloaking a vertical cylinder via homogenization in the mild-slope equation. <i>Journal of Fluid Mechanics</i> , 2016, 796, .	1.4	20
86	Directive emission from defect-free dodecagonal photonic quasicrystals: A leaky wave characterization. <i>Physical Review B</i> , 2009, 79, .	1.1	19
87	Plasmonic interaction of visible light with gold nanoscale checkerboards. <i>Physical Review B</i> , 2011, 84, .	1.1	19
88	Frequency-selective surface acoustic invisibility for three-dimensional immersed objects. <i>Physical Review B</i> , 2012, 86, .	1.1	19
89	Controlling surface plasmon polaritons in transformed coordinates. <i>Journal of Modern Optics</i> , 2011, 58, 994-1003.	0.6	17
90	Understanding the functionality of an array of invisibility cloaks. <i>Physical Review B</i> , 2011, 84, .	1.1	17

#	ARTICLE	IF	CITATIONS
91	Measurement and simulation of the polarization-dependent Purcell factor in a microwave fishnet metamaterial. <i>Physical Review B</i> , 2017, 95, .	1.1	17
92	Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics. <i>Advanced Materials</i> , 2019, 31, e1900912.	11.1	17
93	Invisible waveguides on metal plates for plasmonic analogs of electromagnetic wormholes. <i>Physical Review A</i> , 2014, 90, .	1.0	16
94	Mystery of the double limit in homogenization of finitely or perfectly conducting periodic structures. <i>Optics Letters</i> , 2007, 32, 3441.	1.7	14
95	Cloaking and imaging effects in plasmonic checkerboards of negative and and dielectric photonic crystal checkerboards. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2007, 5, 63-72.	1.0	14
96	Type of dike using C-shaped vertical cylinders. <i>Physical Review B</i> , 2017, 96, .	1.1	14
97	Design considerations for a new generation of SiPMs with unprecedented timing resolution. <i>Journal of Instrumentation</i> , 2021, 16, P02019-P02019.	0.5	14
98	Second-harmonic generation in multilayered devices: theoretical tools. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998, 15, 1030.	0.9	13
99	The influence of building interactions on seismic and elastic body waves. <i>EPJ Applied Metamaterials</i> , 2019, 6, 18.	0.8	13
100	Revolution analysis of three-dimensional arbitrary cloaks. <i>Optics Express</i> , 2009, 17, 22603.	1.7	12
101	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.	1.0	12
102	Controlling frequency dispersion in electromagnetic invisibility cloaks. <i>Scientific Reports</i> , 2019, 9, 6022.	1.6	12
103	Acoustic flat lensing using an indefinite medium. <i>Physical Review B</i> , 2019, 99, .	1.1	12
104	Wireless coils based on resonant and nonresonant coupledâ€‘wire structure for small animal multinuclear imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4079.	1.6	12
105	Sums of spherical waves for lattices, layers, and lines. <i>Journal of Mathematical Physics</i> , 2001, 42, 5859-5870.	0.5	11
106	Electromagnetic analysis of arbitrarily shaped pinched carpets. <i>Physical Review A</i> , 2010, 82, .	1.0	11
107	Dynamic effective anisotropy: Asymptotics, simulations, and microwave experiments with dielectric fibers. <i>Physical Review B</i> , 2015, 92, .	1.1	11
108	Decoupling of Closely Spaced Dipole Antennas for Ultrahigh Field MRI With Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1094-1106.	3.1	11

#	ARTICLE	IF	CITATIONS
109	Two-dimensional complete band gaps in one-dimensional metal-dielectric periodic structures. Applied Physics Letters, 2008, 92, .	1.5	10
110	Role of nanophotonics in the birth of seismic megastructures. Nanophotonics, 2019, 8, 1591-1605.	2.9	10
111	Compensation of loss to approach $\hat{\epsilon} \approx 1$ effective index by gain in metal-dielectric stacks. EPJ Applied Physics, 2009, 46, 32603.	0.3	9
112	Broadband cloaking and mirages with flying carpets. Optics Express, 2010, 18, 11537.	1.7	9
113	Spanning the scales of mechanical metamaterials using time domain simulations in transformed crystals, graphene flakes and structured soils. Journal of Physics Condensed Matter, 2017, 29, 433004.	0.7	9
114	Finite elements modelling of scattering problems for flexural waves in thin plates: Application to elliptic invisibility cloaks, rotators and the mirage effect. Journal of Computational Physics, 2011, 230, 2237-2245.	1.9	8
115	Polarizability expressions for predicting resonances in plasmonic and Mie scatterers. Physical Review A, 2017, 95, .	1.0	8
116	Imaging of two samples with a single transmit/receive channel using coupled ceramic resonators for MR microscopy at 17.2 T. NMR in Biomedicine, 2020, 33, e4397.	1.6	8
117	A Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 6317-6329.	3.1	8
118	Complete Electromagnetic Dyadic Green Function Characterization in a Complex Environment – Resonant Dipole-Dipole Interaction and Cooperative Effects. Physical Review X, 2021, 11, .	2.8	8
119	Metamaterials: from microwaves to the visible region. Comptes Rendus Physique, 2005, 6, 693-701.	0.3	7
120	Non-Bloch plasmonic stop-band in real-metal gratings. Optics Express, 2007, 15, 6241.	1.7	7
121	Biharmonic split ring resonator metamaterial: Artificially dispersive effective density in thin periodically perforated plates. Europhysics Letters, 2014, 107, 44002.	0.7	7
122	Cyclic concentrator, carpet cloaks and fisheye lens via transformation plasmonics. Journal of Optics (United Kingdom), 2016, 18, 044023.	1.0	7
123	Photonic crystal surface modes narrow-band filtering. Optics Express, 2005, 13, 5783.	1.7	6
124	Plasmon surface waves and complex-type surface waves: comparative analysis of single interfaces, lamellar gratings, and two-dimensional hole arrays. Applied Optics, 2007, 46, 154.	2.1	6
125	Scattering by complex inhomogeneous objects: a first-order reciprocity method. Optics Express, 2014, 22, 16558.	1.7	6
126	Free-Space Characterization of the Permeability of Inhomogeneous Magneto-Dielectric Materials. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5035-5045.	2.9	6

#	ARTICLE	IF	CITATIONS
127	Hilbert fractal inspired dipoles for passive RF shimming in ultra-high field MRI. Photonics and Nanostructures - Fundamentals and Applications, 2022, 48, 100988.	1.0	6
128	Second-harmonic specular and scattered generated light: application to the experimental study of zinc-sulfide thin films. Applied Optics, 1997, 36, 6319.	2.1	5
129	Bistable prism coupler with both second- and third-order nonlinearities. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 588.	0.9	5
130	Second-harmonic scattered light from one-dimensional rough thin films. Optics Communications, 1998, 148, 137-143.	1.0	4
131	Second harmonic scattered light from a zinc-sulfide thin film. Optics Communications, 1999, 161, 177-181.	1.0	4
132	<title>Self-guiding in two-dimensional photonic crystals</title>. , 2002, , .		4
133	Why a harmonic solution for lossless, perfectly homogeneous, left-handed material cannot exist. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1937.	0.8	4
134	Seismic Metamaterials: Controlling Surface Rayleigh Waves Using Analogies with Electromagnetic Metamaterials. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 301-337.	0.1	4
135	Enhancing surface coil sensitive volume with hybridized electric dipoles at 17.2â€T. Journal of Magnetic Resonance, 2019, 307, 106567.	1.2	4
136	Sols structurÃ©s sous sollicitation dynamiqueâ€™: des mÃ©tamÃ©riaux en gÃ©otechnique. Revue FranÃ§aise De GÃ©otechnique, 2017, , 4.	0.1	4
137	Evaluation of new MR invisible silicon carbide based dielectric pads for 7ÃˆT MRI. Magnetic Resonance Imaging, 2022, 90, 37-43.	1.0	4
138	Ultrarefraction and negative refraction in metamaterials. , 2004, , .		3
139	Polarization insensitive blazed diffraction gratings. Journal of the European Optical Society-Rapid Publications, 2006, 1, .	0.9	3
140	Focussing light through a stack of toroidal channels in PMMA. Optics Express, 2011, 19, 16154.	1.7	3
141	Single frequency microwave cloaking and subwavelength imaging with curved wired media. Optics Express, 2015, 23, 10319.	1.7	3
142	Radio Frequency Coil for Dual-Nuclei MR Muscle Energetics Investigation Based on Two Capacitively Coupled Periodic Wire Arrays. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 721-725.	2.4	3
143	<title>Radiating dipoles in woodpile and simple cubic structures</title>. , 2002, , .		2
144	Solutions of Maxwell's equations in presence of lamellar gratings including infinitely conducting metal. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 3099.	0.8	2

#	ARTICLE	IF	CITATIONS
145	Aperiodic-Tiling-Based Mushroom-Type High-Impedance Surfaces. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 54-57.	2.4	2
146	Quasi-TEM modes in rectangular waveguides: a study based on the properties of PMC and hard surfaces. Journal of Modern Optics, 2009, 56, 530-538.	0.6	2
147	Perfect lenses and corners for flexural waves. Physica B: Condensed Matter, 2010, 405, 2947-2949.	1.3	2
148	Non-singular arbitrary cloaks dressing three-dimensional anisotropic obstacles. Journal of Modern Optics, 2011, 58, 786-795.	0.6	2
149	Surface and bulk scattering by magnetic and dielectric inhomogeneities: a first-order method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1772.	0.8	2
150	Electromagnetic sunscreen model: implementation and comparison between several methods: step-film model, differential method, Mie scattering, and scattering by a set of parallel cylinders. Applied Optics, 2014, 53, 6537.	0.9	2
151	A dual-frequency MRI coil for small animal imaging at 7 Tesla based on metamaterial-inspired wire structures. , 2016, , .		2
152	A metamaterial-inspired MR antenna independently tunable at two frequencies. , 2017, , .		2
153	Efficient and full-wave electromagnetic analysis of MRI antennas using the Array Scanning Method. , 2018, , .		2
154	Analysis of Low Frequency Acoustic Stop Bands in Cubic Arrays of Thick Spherical Shells With Holes. Frontiers in Materials, 2019, 6, .	1.2	2
155	Enhancement of transmit and receive efficiencies with hybridized meta-atom in 7T head coil array. , 2019, , .		2
156	Constructive Near-Field Interference Effect in a Birdcage MRI Coil with an Artificial Magnetic Shield. Physical Review Applied, 2020, 13, .	1.5	2
157	3D crystals dispersion relation: improved convergence using fast Fourier factorization (FFF) method. , 2001, , .		1
158	Superprism Effects and EBG Antenna Applications. , 0, , 261-283.		1
159	Modelling of a single object embedded in a layered medium. Journal of Modern Optics, 2007, 54, 871-879.	0.6	1
160	Metamaterial-induced band-gap of surface plasmon propagation. Journal of Optics, 2009, 11, 114018.	1.5	1
161	From transformational optics to plasmonics. , 2010, , .		1
162	Sun protection and hydration of stratum corneum: a study by differential method. International Journal of Cosmetic Science, 2014, 36, 436-441.	1.2	1

#	ARTICLE	IF	CITATIONS
163	Electromagnetic sunscreen model: design of experiments on particle specifications. Applied Optics, 2015, 54, 8369.	2.1	1
164	Development of 3D photonic crystals using sol-gel process for high power laser applications. , 2015, , .		1
165	Mimicking Electromagnetic Wave Coupling in Tokamak Plasma with Fishnet Metamaterials. Scientific Reports, 2018, 8, 5841.	1.6	1
166	Electromagnetic Modelling of Dielectric and Metallic Photonic Crystals. , 2001, , 241-256.		1
167	Color rendering techniques applied to the study of butterflies wings. , 2002, , .		1
168	Subwavelength hole array enhanced light transmission. , 2001, , .		0
169	The richness of the dispersion relation of photonic crystals: application to superprism effect and other remarkable effects. , 0, , .		0
170	Design and fabrication of biperiodic AR gratings for the infrared. , 2004, , .		0
171	Optical sensing based on localized surface plasmons. , 2005, , .		0
172	Shape resonances in extraordinary transmission. , 0, , .		0
173	Electromagnetic coupling between localized and surface plasmons. , 2006, , .		0
174	Colour reveals stacking order in ultra thin self-assembled photonic crystals. , 2007, , .		0
175	High-Impedance Surfaces with Aperiodically-Ordered Textures. , 2007, , .		0
176	Photonic Quasicrystals, Some Properties and Applications. , 2008, , .		0
177	A comparative study of directive emission from photonic quasicrystals. Proceedings of SPIE, 2008, , .	0.8	0
178	Thin metamaterials as antireflection coating. , 2010, , .		0
179	TRANSFORMATION ELECTROMAGNETISM. , 2011, , 239-262.		0
180	Cloaking Liquid Surface Waves and Plasmon Polaritons. Springer Series in Materials Science, 2013, , 267-288.	0.4	0

#	ARTICLE	IF	CITATIONS
181	Scattering of inhomogeneous metamaterials: A first order approach. , 2013, , .		0
182	Transformation Optics of Surface Plasmon Polaritons. Handbook of Surface Science, 2014, 4, 279-307.	0.3	0
183	Mechanical waves deflection/damping with seismic metamaterials. , 2015, , .		0
184	Chapter 8 Experiments on Cloaking for Surface Water Waves. , 2016, , 287-312.		0
185	Evaluating the Purcell factor in hyperbolic metamaterials. , 2016, , .		0
186	Hybridized eigenmodes of periodic wire arrays and their application in radiofrequency coils for preclinical MRI. , 2017, , .		0
187	A Quantitative Study of a New RF-coil for 7 Tesla Small-Animal Imaging. , 2018, , .		0
188	Kerker Effect with Hybridized Radiofrequency Resonators. , 2018, , .		0
189	Theoretical Study of a High Permittivity Dielectric Resonator as a Potential NMR Probe. , 2018, , .		0
190	MetaMaterials for ultra-high field MRI. M-Cube project: objectives and some results. , 2018, , .		0
191	Some challenges regarding cloaking and earthquake protection. , 2018, , .		0
192	How to advantageously manage the effective ellipticity of seismic waves in metamaterials?. IOP Conference Series: Materials Science and Engineering, 2018, 365, 042063.	0.3	0
193	RF Coils for Preclinical Multinuclear Imaging Based on Coupled-wire Structures Working in Resonant and Non-resonant Regime. , 2019, , .		0
194	Efficient Probes for Ultra-high-field Magnetic Resonance Microscopy Based on Coupled Ceramic Resonators. , 2019, , .		0
195	Two-orders fast multipole analysis of meta-atoms. , 2019, , .		0
196	Antenna Impedance for FRET: A Theoretical and Experimental Framework for Studying Dipole-Dipole Interactions with Microwave Antennas. , 2019, , .		0
197	Tunable all-dielectric RF-coils for magnetic resonance microscopy. , 2019, , .		0
198	A practical realization of an artificial magnetic shield for preclinical birdcage RF coils. Journal of Physics: Conference Series, 2020, 1461, 012085.	0.3	0

#	ARTICLE	IF	CITATIONS
199	Near Field Dipole-Dipole Coupling Near Conductive Plate In The Microwave Range: An RF Analogue To Förster Resonance Energy Transfer In Optics. , 2021, , .		0
200	Metamaterials for surface waves. , 2010, , .		0
201	An Introduction to Mathematics of Transformational Plasmonics. , 2012, , 235-277.		0
202	Hyperbolic metamaterials based on metal-dielectric thin layers. , 2018, , .		0
203	Metamaterials: opportunities in medical imaging. , 2019, , .		0
204	Hilbert Fractal Inspired Dipoles for B1 + Field Control in Ultra-High Field MRI. , 2020, , .		0
205	An Artificial Shield for MRI Birdcage Coil with Constructive Interference. , 2020, , .		0
206	Reply to Comments on "A Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imaging" IEEE Transactions on Antennas and Propagation, 2022, 70, 3131-3131.	3.1	0