Jose Sanchez-Dehesa

List of Publications by Year
in descending order

191	7,505	47006	60623
papers	citations	47 h-index	81 g-index

197	197	197	3735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sound Attenuation by a Two-Dimensional Array of Rigid Cylinders. Physical Review Letters, 1998, 80, 5325-5328.	7.8	481
2	Acoustic cloaking in two dimensions: a feasible approach. New Journal of Physics, 2008, 10, 063015.	2.9	343
3	Evidence of Fano-Like Interference Phenomena in Locally Resonant Materials. Physical Review Letters, 2002, 88, 225502.	7.8	314
4	Refractive Acoustic Devices for Airborne Sound. Physical Review Letters, 2001, 88, 023902.	7.8	245
5	Acoustic metamaterials for new two-dimensional sonic devices. New Journal of Physics, 2007, 9, 323-323.	2.9	213
6	Two-dimensional phononic crystals studied using a variational method: Application to lattices of locally resonant materials. Physical Review B, 2003, 67, .	3.2	189
7	Surface Shape Resonances in Lamellar Metallic Gratings. Physical Review Letters, 1998, 81, 665-668.	7.8	183
8	Sound focusing by gradient index sonic lenses. Applied Physics Letters, 2010, 97, .	3.3	175
9	Anisotropic mass density by two-dimensional acoustic metamaterials. New Journal of Physics, 2008, 10, 023004.	2.9	163
10	Large two-dimensional sonic band gaps. Physical Review E, 1999, 60, R6316-R6319.	2.1	145
11	Negative Refraction and Energy Funneling by Hyperbolic Materials: An Experimental Demonstration in Acoustics. Physical Review Letters, 2014, 112, 144301.	7.8	145
12	Omnidirectional broadband acoustic absorber based on metamaterials. Applied Physics Letters, 2012, 100, .	3.3	143
13	Elastic analog of graphene: Dirac cones and edge states for flexural waves in thin plates. Physical Review B, 2013, 87, .	3.2	140
14	Three-Dimensional Axisymmetric Cloak Based on the Cancellation of Acoustic Scattering from a Sphere. Physical Review Letters, 2013, 110, 124301.	7.8	138
15	Acoustic Analogue of Graphene: Observation of Dirac Cones in Acoustic Surface Waves. Physical Review Letters, 2012, 108, 174301.	7.8	135
16	Sonic gradient index lens for aqueous applications. Applied Physics Letters, 2010, 97, .	3.3	133
17	Homogenization of Two-Dimensional Clusters of Rigid Rods in Air. Physical Review Letters, 2006, 96, 204302.	7.8	120
18	Acoustic Analogue of Electronic Bloch Oscillations and Resonant Zener Tunneling in Ultrasonic Superlattices. Physical Review Letters, 2007, 98, 134301.	7.8	115

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19	Gradient index lenses for flexural waves based on thickness variations. Applied Physics Letters, 2014, 105, .	3.3	107
20	Integrated optical devices design by genetic algorithm. Applied Physics Letters, 2004, 84, 4460-4462.	3.3	105
21	Anisotropic Mass Density by Radially Periodic Fluid Structures. Physical Review Letters, 2010, 105, 174301.	7.8	105
22	Synthesis and Photonic Bandgap Characterization of Polymer Inverse Opals. Advanced Materials, 2001, 13, 393-396.	21.0	101
23	Effective parameters of clusters of cylinders embedded in a nonviscous fluid or gas. Physical Review B, 2006, 74, .	3.2	94
24	Noise control by sonic crystal barriers made of recycled materials. Journal of the Acoustical Society of America, 2011, 129, 1173-1183.	1.1	91
25	Radial Wave Crystals: Radially Periodic Structures from Anisotropic Metamaterials for Engineering Acoustic or Electromagnetic Waves. Physical Review Letters, 2009, 103, 064301.	7.8	82
26	Broadband sound absorption by lattices of microperforated cylindrical shells. Applied Physics Letters, 2012, 101, .	3.3	81
27	Localized surface plasmons in lamellar metallic gratings. Journal of Lightwave Technology, 1999, 17, 2191-2195.	4.6	80
28	Acoustic cloak for airborne sound by inverse design. Applied Physics Letters, 2011, 99, .	3.3	72
29	Analysis of Cummerâ€“Schurig acoustic cloaking. New Journal of Physics, 2007, 9, 450-450.	2.9	71
30	Quasi-two-dimensional acoustic metamaterial with negative bulk modulus. Physical Review B, 2012, 85, .	3.2	71
31	Acoustic interferometers based on two-dimensional arrays of rigid cylinders in air. Physical Review B, 2003, 67, .	3.2	70
32	Experimental evidence of polarization dependence in the optical response of opal-based photonic crystals. Applied Physics Letters, 2003, 82, 4068-4070.	3.3	67
33	Superprism effect in opal-based photonic crystals. Physical Review B, 2001, 64, .	3.2	65
34	Negative mass density and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï</mml:mi></mml:math>-near-zero quasi-two-dimensional metamaterials: Design and applications. Physical Review B, 2013, 88, .	3.2	64
35	Acoustic lens design by genetic algorithms. Physical Review B, 2004, 70, .	3.2	63
36	Sound focusing by flat acoustic lenses without negative refraction. Applied Physics Letters, 2005, 86, 054102.	3.3	61

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37	Opal-like photonic crystal with diamond lattice. Applied Physics Letters, 2001, 79, 2309-2311.	3.3	59
38	Double negative metamaterials based on ferromagnetic microwires. Physical Review B, 2010, 81, .	3.2	57
39	Symmetry characterization of eigenstates in opal-based photonic crystals. Physical Review B, 2002, 65, .	3.2	56
40	Acoustic resonances in two-dimensional radial sonic crystal shells. New Journal of Physics, 2010, 12, 073034.	2.9	55
41	Majorana-like Zero Modes in KekulÃ© Distorted Sonic Lattices. Physical Review Letters, 2019, 123, 196601.	7.8	55
42	Single-phase metamaterial plates for broadband vibration suppression at low frequencies. Journal of Sound and Vibration, 2019, 444, 108-126.	3.9	55
43	The existence of full gaps and deaf bands in two-dimensional sonic crystals. Journal of Lightwave Technology, 1999, 17, 2202-2207.	4.6	54
44	Schottky barrier formation. I. Abrupt metal-semiconductor junctions. Journal of Physics C: Solid State Physics, 1983, 16, 6499-6512.	1.5	51
45	Reflectance properties of two-dimensional sonic band-gap crystals. Journal of the Acoustical Society of America, 2001, 109, 2598-2605.	1.1	51
46	Electronic structure of a GaAs quantum well in an electric field. Physical Review B, 1986, 33, 8758-8761.	3.2	49
47	Optical study of the full photonic band gap in silicon inverse opals. Applied Physics Letters, 2002, 81, 4925-4927.	3.3	49
48	Viscothermal Losses in Double-Negative Acoustic Metamaterials. Physical Review Applied, 2017, 8, .	3.8	47
49	Comparison of the sound attenuation efficiency of locally resonant materials and elastic band-gap structures. Physical Review B, 2004, 70, .	3.2	45
50	Heterojunction valence-band-discontinuity dependence on face orientation. Physical Review B, 1987, 35, 6468-6470.	3.2	41
51	Fano-like resonance phenomena by flexural shell modes in sound transmission through two-dimensional periodic arrays of thin-walled hollow cylinders. Physical Review B, 2006, 74, .	3.2	41
52	Photonic band gap properties of CdS-in-opal systems. Applied Physics Letters, 2001, 78, 3181-3183.	3.3	40
53	Analogue Transformations in Physics and their Application to Acoustics. Scientific Reports, 2013, 3, 2009.	3.3	39
54	Antimony Trisulfide Inverted Opals: Growth, Characterization, and Photonic Properties. Advanced Materials, 2002, 14, 1486-1490.	21.0	38

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55	Quenching of acoustic bandgaps by flow noise. Applied Physics Letters, 2009, 94, .	3.3	38
56	Multiple scattering formulation of two-dimensional acoustic and electromagnetic metamaterials. New Journal of Physics, 2011, 13, 093018.	2.9	38
57	Acoustic metamaterial absorbers based on multilayered sonic crystals. Journal of Applied Physics, 2015, 117, .	2.5	38
58	Experimental evidence of left handed transmission through arrays of ferromagnetic microwires. Applied Physics Letters, 2009, 94, .	3.3	36
59	Electronic structure of (100) semiconductor heterojunctions. Surface Science, 1986, 168, 553-557.	1.9	34
60	Experimental evidence of omnidirectional elastic bandgap in finite one-dimensional phononic systems. Applied Physics Letters, 2004, 85, 154-156.	3.3	34
61	Inverse designed photonic crystal de-multiplex waveguide coupler. Optics Express, 2005, 13, 5440.	3.4	34
62	Theoretical investigation of the pressure dependences of energy gaps in semiconductors. Physical Review B, 1985, 32, 1152-1155.	3.2	33
63	Suzuki phase in two-dimensional sonic crystals. Physical Review B, 2001, 64, .	3.2	32
64	Left handed material based on amorphous ferromagnetic microwires tunable by dc current. Applied Physics Letters, 2010, 97, .	3.3	32
65	Omnidirectional broadband insulating device for flexural waves in thin plates. Journal of Applied Physics, 2013, 114, .	2.5	32
66	Transparent Gradient-Index Lens for Underwater Sound Based on Phase Advance. Physical Review Applied, 2015, 4, .	3.8	32
67	Inverse design of photonic crystal devices. IEEE Journal on Selected Areas in Communications, 2005, 23, 1365-1371.	14.0	31
68	Acoustical scattering by radially stratified scatterers. Journal of the Acoustical Society of America, 2008, 124, 2715-2726.	1.1	31
69	Broadband Acoustic Cloaking within an Arbitrary Hard Cavity. Physical Review Applied, 2015, 3, .	3.8	31
70	Aerogel-based metasurfaces for perfect acoustic energy absorption. Applied Physics Letters, 2019, 115, .	3.3	31
71	Beyond Anderson Localization in 1D: Anomalous Localization of Microwaves in Random Waveguides. Physical Review Letters, 2014, 113, 233901.	7.8	30
72	Self-consistent calculation of properties of GaAs-AlAs superlattices with homopolar interfaces. Physical Review B, 1982, 26, 5824-5831.	3.2	28

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73	Aerogel as a Soft Acoustic Metamaterial for Airborne Sound. Physical Review Applied, 2016, 5, .	3.8	27
74	Self-consistent calculation of the electronic properties of a selectively dopedAlxGa1âˆ'xAsâˆ'GaAsquantum well under high magnetic fields. Physical Review B, 1987, 36, 5070-5073.	3.2	25
75	Broadband acoustic cloaks based on the homogenization of layered materials. Wave Motion, 2011, 48, 497-504.	2.0	25
76	Face centered cubic photonic bandgap materials based on opal-semiconductor composites. Journal of Lightwave Technology, 1999, 17, 1975-1981.	4.6	24
77	Double-negative acoustic metamaterials based on quasi-two-dimensional fluid-like shells. New Journal of Physics, 2012, 14, 103052.	2.9	24
78	Localized defect modes in finite metallic two-dimensional photonic crystals. Physical Review B, 2002, 65, .	3.2	23
79	High-efficiency defect-based photonic-crystal tapers designed by a genetic algorithm. Journal of Lightwave Technology, 2005, 23, 3881-3888.	4.6	23
80	Inverse Design for Full Control of Spontaneous Emission Using Light Emitting Scattering Optical Elements. Physical Review Letters, 2006, 96, 153902.	7.8	23
81	Experimental realization of broadband tunable resonators based on anisotropic metafluids. Applied Physics Letters, 2011, 98, .	3.3	23
82	A Numerical Model of an Acoustic Metamaterial Using the Boundary Element Method Including Viscous and Thermal Losses. Journal of Computational Acoustics, 2017, 25, 1750006.	1.0	23
83	Scattering of flexural waves from an N-beam resonator in a thin plate. Journal of the Acoustical Society of America, 2017, 142, 3205-3215.	1.1	23
84	Acoustic cloak based on BÃ©zier scatterers. Scientific Reports, 2018, 8, 12924.	3.3	23
85	Analysis of wave propagation in a two-dimensional photonic crystal with negative index of refraction: plane wave decomposition of the Bloch modes. Optics Express, 2005, 13, 4160.	3.4	22
86	Optical studies of highly strained InGaAs/GaAs quantum wells grown on vicinal surfaces. Journal of Applied Physics, 1997, 81, 3281-3289.	2.5	21
87	Generalized Wannier functions at interfaces: Stacking faults in silicon. Physical Review B, 1981, 24, 1006-1013.	3.2	20
88	Left and right tunnelling times of electrons from quantum wells in double-barrier heterostructures investigated by the stabilization method. Journal of Physics Condensed Matter, 1994, 6, 887-898.	1.8	20
89	Directional acoustic source by scattering acoustical elements. Applied Physics Letters, 2007, 90, 224107.	3.3	20
90	Optimum control of broadband noise by arrays of cylindrical units made of a recycled material. Applied Acoustics, 2013, 74, 58-62.	3.3	20

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91	Theoretical study of platonic crystals with periodically structured N-beam resonators. Journal of Applied Physics, 2018, 123, .	2.5	19
92	Experimental Evidence of Rainbow Trapping and Bloch Oscillations of Torsional Waves in Chirped Metallic Beams. Scientific Reports, 2019, 9, 1860.	3.3	19
93	Anomalous refractive properties of a two-dimensional photonic band-gap prism. Physical Review B, 2003, 67, .	3.2	18
94	Sound scattering by anisotropic metafluids based on two-dimensional sonic crystals. Physical Review B, 2009, 79, .	3.2	18
95	Self-consistent calculation of the internal strain parameter of silicon. Physical Review B, 1982, 26, 5960-5962.	3.2	16
96	Homogenization theory for periodic distributions of elastic cylinders embedded in a viscous fluid. Journal of the Acoustical Society of America, 2012, 132, 2896-2908.	1.1	16
97	Radial Photonic Crystal Shells and Their Application as Resonant and Radiating Elements. IEEE Transactions on Antennas and Propagation, 2013, 61, 755-767.	5.1	16
98	Experimental evidence of super-resolution better thanÎ»/105 with positive refraction. New Journal of Physics, 2014, 16, 033015.	2.9	16
99	Radial Photonic Crystal for detection of frequency and position of radiation sources. Scientific Reports, 2012, 2, 558.	3.3	15
100	Analysis of flexural wave cloaks. AIP Advances, 2016, 6, .	1.3	15
101	Two-dimensional elastic bandgap crystal to attenuate surface waves. Journal of Lightwave Technology, 1999, 17, 2196-2201.	4.6	14
102	Evidence of two-dimensional magic clusters in the scattering of sound. Physical Review B, 2007, 75, .	3.2	14
103	Reduced acoustic cloaks based on temperature gradients. Applied Physics Letters, 2012, 101, 084103.	3.3	14
104	Enhanced inertia from lossy effective fluids using multi-scale sonic crystals. AIP Advances, 2014, 4, .	1.3	14
105	Spaceâ€“time transformation acoustics. Wave Motion, 2014, 51, 785-797.	2.0	14
106	Sound Insulation and Reflection Properties of Sonic Crystal Barrier Based on Micro-Perforated Cylinders. Materials, 2019, 12, 2806.	2.9	14
107	Pressure experiments and self-consistent modelling of the transport properties in delta -doped AlGaAs layers. Semiconductor Science and Technology, 1991, 6, 445-448.	2.0	13
108	Theoretical study of strained thin quantum wells grown on vicinal surfaces. Physical Review B, 1995, 51, 14352-14360.	3.2	13

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109	Photonic crystal microprisms obtained by carving artificial opals. Journal of Applied Physics, 2003, 93, 671-674.	2.5	13
110	Theoretical and experimental study of the Suzuki-phase photonic crystal lattice by angle-resolved photoluminescence spectroscopy. Optics Express, 2007, 15, 704.	3.4	13
111	Acoustic characterization of silica aerogel clamped plates for perfect absorption. Journal of Non-Crystalline Solids, 2018, 499, 283-288.	3.1	13
112	Early-stage formation of metal-semiconductor interfaces. Physical Review B, 1988, 37, 8516-8518.	3.2	12
113	Multidisciplinary approach to cylindrical anisotropic metamaterials. New Journal of Physics, 2011, 13, 103034.	2.9	12
114	Plasmon modes at a wedge using a non-local dielectric function. Solid State Communications, 1980, 35, 815-818.	1.9	11
115	Homogenization of two-dimensional anisotropic dissipative photonic crystal. Applied Physics Letters, 2010, 97, 231122.	3.3	11
116	Zero-phase propagation in realistic plate-type acoustic metamaterials. Applied Physics Letters, 2019, 115, .	3.3	11
117	Electron-phonon interaction in tetrahedrally bonded solids. Journal of Physics C: Solid State Physics, 1981, 14, 3355-3363.	1.5	10
118	Schottky-barrier formation for abrupt metal-covalent semiconductor junctions. Solid State Communications, 1984, 50, 29-31.	1.9	10
119	Optimal design of microscaled scattering optical elements. Applied Physics Letters, 2005, 87, 193506.	3.3	10
120	Sound control by temperature gradients. Applied Physics Letters, 2009, 95, 204102.	3.3	10
121	Anomalous sound absorption in lattices of cylindrical perforated shells. Applied Physics Letters, 2015, 106, .	3.3	10
122	Diamond structure versus wurtzite structure for silicon. Solid State Communications, 1981, 38, 871-873.	1.9	9
123	Experimental realization of sonic demultiplexing devices based on inverse designed scattering acoustic elements. Applied Physics Letters, 2006, 88, 163506.	3.3	9
124	Analogue transformation acoustics and the compression of spacetime. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 312-318.	2.0	9
125	Localization in highly strained In0.35Ga0.65As/GaAs ultrathin quantum wells. Superlattices and Microstructures, 1993, 14, 39.	3.1	8
126	Optical control of the two-dimensional electron-gas density in modulation-doped quantum wells studied by magnetophotoluminescence. Physical Review B, 1993, 48, 1967-1969.	3.2	8

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127	Acoustic transparency in two-dimensional sonic crystals. New Journal of Physics, 2009, 11, 013039.	2.9	8
128	Modulation of electromagnic waves by alternating currents through left-handed ferromagnetic microwires. Journal of Applied Physics, 2012, 111, .	2.5	8
129	Scattering of flexural waves from a hole in a thin plate with an internal beam. Journal of the Acoustical Society of America, 2015, 137, 293-302.	1.1	8
130	Theoretical analysis of optical-phonon deformation potentials in semiconductors. Journal of Physics C: Solid State Physics, 1983, 16, 2251-2259.	1.5	7
131	Schottky barrier formation. II. Etched metal-semiconductor junctions. Journal of Physics C: Solid State Physics, 1984, 17, 2039-2047.	1.5	7
132	Reply to â€˜â€˜Comment on â€˜Heterojunction valence-band-discontinuity dependence on face orientationâ€™ â€™â€™. Physical Review B, 1988, 37, 4803-4804.	3.2	7
133	Lateral-superlattice effects in very narrow strained semiconductor quantum wells grown on vicinal surfaces. Physical Review B, 1993, 47, 13880-13883.	3.2	7
134	Microlens array for focusing airborne ultrasound using heated wire grid. Applied Physics Letters, 2007, 91, .	3.3	6
135	Laser nanosources based on planar photonic crystals as new platforms for nanophotonic devices. Photonics and Nanostructures - Fundamentals and Applications, 2007, 5, 79-85.	2.0	6
136	Extraordinary absorption by a thin dielectric slab backed with a metasurface. Physical Review B, 2014, 89, .	3.2	6
137	Redirection of sound in straight fluid channel with elastic boundaries. Physical Review B, 2015, 91, .	3.2	6
138	Poisson-like effect for flexural waves in periodically perforated thin plates. Journal of the Acoustical Society of America, 2018, 144, 1053-1058.	1.1	6
139	Viscothermal Effects in a Two-Dimensional Acoustic Black Hole: A Boundary Element Approach. Physical Review Applied, 2021, 15, .	3.8	6
140	Terrace length commensurability and surface reconstruction in highly strained InGaAs/GaAs quantum wells grown on vicinal substrates. Superlattices and Microstructures, 1994, 15, 155.	3.1	5
141	Template assisted fabrication technique towards Si-inverse opals with diamond structure. Photonics and Nanostructures - Fundamentals and Applications, 2004, 2, 59-63.	2.0	5
142	Directive excitation of guided electromagnetic waves through polarization control. Physical Review B, 2014, 89, .	3.2	5
143	On the origin of pure optical rotation in twisted-cross metamaterials. Scientific Reports, 2016, 6, 30307.	3.3	5
144	Experimental evidence of a hiding zone in a density-near-zero acoustic metamaterial. Journal of Applied Physics, 2021, 129, 145101.	2.5	5

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145	Electronic structure of modulation n-doped multiple quantum well. Applied Surface Science, 1990, 41-42, 464-469.	6.1	4
146	Doping-profile effects on the tunneling times of electrons confined in double-barrier heterostructures. Physical Review B, 1994, 50, 11884-11894.	3.2	4
147	Comment on â€œTheory of tailoring sonic devices: Diffraction dominates over refractionâ€• Physical Review E, 2005, 71, 018601; discussion 018602.	2.1	4
148	Resonant excitation of coupled Rayleigh waves in a short and narrow fluid channel clad between two identical metal plates. AIP Advances, 2011, 1, .	1.3	4
149	Resonant coupling of Rayleigh waves through a narrow fluid channel causing extraordinary low acoustic transmission. Journal of the Acoustical Society of America, 2012, 132, 2807-2815.	1.1	4
150	Transformational acoustic metamaterials based on pressure gradients. Physical Review B, 2014, 90, .	3.2	4
151	Experimental verification of total absorption by a low-loss thin dielectric layer. Applied Physics Letters, 2015, 106, .	3.3	4
152	Redirection and Splitting of Sound Waves by a Periodic Chain of Thin Perforated Cylindrical Shells. Physical Review Applied, 2017, 7, .	3.8	4
153	Electronic Levels of Quantum Dots: A Variational Approach. Journal of the Physical Society of Japan, 2000, 69, 3904-3911.	1.6	3
154	Anisotropic metamaterials as sensing devices in acoustics and electromagnetism. Proceedings of SPIE, 2012, , .	0.8	3
155	Preface to Special Topic: Selected Articles from Phononics 2013: The Second International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Optomechanics, 2-7 June 2013, Sharm El-Sheikh, Egypt. AIP Advances, 2014, 4, .	1.3	3
156	Effective transport properties for periodic multiphase fiber-reinforced composites with complex constituents and parallelogram unit cells. International Journal of Solids and Structures, 2020, 204-205, 96-113.	2.7	3
157	Magnetoluminescence studies of modulation n-doped GaAsî—¸AlGaAs multiple quantum wells. Surface Science, 1990, 228, 202-205.	1.9	2
158	<title>Lateral localization effects in strained InGaAs/GaAs semiconductor quantum wells grown on vicinal surfaces</title>. , 1994, 2139, 222.		2
159	Low-Qwhispering gallery modes in anisotropic metamaterial shells. Physical Review B, 2013, 88, .	3.2	2
160	Structural properties of Ga28P13 clusters encapsulated in zeolite Y. Solid-State Electronics, 1996, 40, 771-775.	1.4	1
161	Do hysteresis effects occur in self-consistent electronic levels of quantum wires?. Superlattices and Microstructures, 2002, 31, 257-267.	3.1	1
162	Inverse design of photonic devices by using a genetic algorithm. , 2004, , .		1

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163	Sound propagation in the time-domain by the Split-Operator technique. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, .	0.8	1
164	Electromagnetic beaming from omnidirectional sources by inverse design. Applied Physics Letters, 2008, 92, 051105.	3.3	1
165	Electromagnetic absorption in anisotropic photonic crystal of alumina cylinders. Metamaterials, 2011, 5, 74-80.	2.2	1
166	Analysis of equivalent anisotropy arising from dual isotropic layers of acoustic media. Journal of the Acoustical Society of America, 2012, 132, 2915-2922.	1.1	1
167	Elastic analogue of graphene: Dirac cones and edge states in the propagation of flexural waves in thin plates. , 2013, , .		1
168	Analogue transformation acoustics: Generalizing transformation techniques to non-form-invariant equations. , 2013, , .		1
169	Wireless energy transfer between anisotropic metamaterials shells. Annals of Physics, 2014, 345, 55-62.	2.8	1
170	Wood anomalies in lattices of cylindrical perforated shells. , 2015, , .		1
171	Simple closed-form property expressions of a metafluid composed of a hexagonal array of transversely isotropic elastic fibres embedded in an ideal fluid. Mechanics Research Communications, 2019, 99, 47-51.	1.8	1
172	Experimental evidence of the Poisson-like effect for flexural waves in thin metallic plates. Applied Physics Letters, 2022, 120, 094102.	3.3	1
173	Tunneling time of electrons in modulation n- doped GaAlAsî—¸GaAsî—¸AlAs quantum wells. Superlattices and Microstructures, 1991, 10, 221-224.	3.1	0
174	Proposals of inverse designed microscaled scattering optical elements. , 2006, 6182, 284.		0
175	Highly/directional sources by periodic and non-periodic dielectric rods. , 2007, , .		0
176	Scattering Optical Elements: Towards complete control of light propagation on the wavelength scale. , 2007, , .		0
177	Inverse design beyond photonic crystals: an introduction to scattering optical elements. , 2007, , .		0
178	Acoustic metamaterials based on the homogenization of periodic scatterers. Proceedings of SPIE, 2011, , .	0.8	0
179	Super resolution using a modified Spherical Geodesic Waveguide suitable for manufacturing. Proceedings of SPIE, 2012, , .	0.8	0
180	Acoustic Cloaking via Homogenization. Springer Series in Materials Science, 2013, , 219-239.	0.6	0

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181	Omnidirectional broadband flexural focusing structure. , 2013, , .		0
182	Metamaterial shells based on radial photonic crystals: Theory and applications. , 2013, , .		0
183	Noise attenuation by sonic crystal barriers made of microperforated units. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
184	Negative and density-near-zero acoustic metamaterials based on quasi-two-dimensional phononic crystals.. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
185	Spatial sorting and routing of electromagnetic waves based on polarization control. , 2014, , .		0
186	Quasi-two-dimensional acoustic metamaterials. , 2014, , .		0
187	Beyond Anderson localization: Anomalous transmission of waves through media with Lévy disorder. , 2015, , .		0
188	Total absorption by a low-loss dielectric thin layer on top of a metallic metasurface. , 2015, , .		0
189	Introduction to Acoustics of Phononic Crystals. Homogenization at Low Frequencies. , 2016, , 1-21.		0
190	Inverse Opals Fabrication. , 2001, , 219-227.		0
191	Experimental demonstration of a three-dimensional acoustic cloak based on a cancellation effect. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0