

Ping Sheng

List of Publications by Year in descending order

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457
papers

36,187
citations

4136

87
h-index

3647

180
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465
all docs

465
docs citations

465
times ranked

18666
citing authors

#	ARTICLE	IF	CITATIONS
1	Locally Resonant Sonic Materials. <i>Science</i> , 2000, 289, 1734-1736.	6.0	4,009
2	Structural and electrical properties of granular metal films. <i>Advances in Physics</i> , 1975, 24, 407-461.	35.9	1,360
3	Transformation optics and metamaterials. <i>Nature Materials</i> , 2010, 9, 387-396.	13.3	1,017
4	Acoustic metamaterials: From local resonances to broad horizons. <i>Science Advances</i> , 2016, 2, e1501595.	4.7	986
5	Fluctuation-induced tunneling conduction in disordered materials. <i>Physical Review B</i> , 1980, 21, 2180-2195.	1.1	925
6	Hopping Conductivity in Granular Metals. <i>Physical Review Letters</i> , 1973, 31, 44-47.	2.9	859
7	Membrane-Type Acoustic Metamaterial with Negative Dynamic Mass. <i>Physical Review Letters</i> , 2008, 101, 204301.	2.9	839
8	Dark acoustic metamaterials as super absorbers for low-frequency sound. <i>Nature Communications</i> , 2012, 3, 756.	5.8	835
9	Acoustic metasurface with hybrid resonances. <i>Nature Materials</i> , 2014, 13, 873-878.	13.3	801
10	Superconductivity in 4 Angstrom Single-Walled Carbon Nanotubes. <i>Science</i> , 2001, 292, 2462-2465.	6.0	778
11	Fluctuation-Induced Tunneling Conduction in Carbon-Polyvinylchloride Composites. <i>Physical Review Letters</i> , 1978, 40, 1197-1200.	2.9	560
12	Focusing of Sound in a 3D Phononic Crystal. <i>Physical Review Letters</i> , 2004, 93, 024301.	2.9	536
13	The giant electrorheological effect in suspensions of nanoparticles. <i>Nature Materials</i> , 2003, 2, 727-730.	13.3	530
14	Photonic Band Gap from a Stack of Positive and Negative Index Materials. <i>Physical Review Letters</i> , 2003, 90, 083901.	2.9	508
15	Geometric phase and band inversion in periodic acoustic systems. <i>Nature Physics</i> , 2015, 11, 240-244.	6.5	498
16	Analytic model of phononic crystals with local resonances. <i>Physical Review B</i> , 2005, 71, .	1.1	408
17	Hybrid elastic solids. <i>Nature Materials</i> , 2011, 10, 620-624.	13.3	386
18	Acoustic metamaterial panels for sound attenuation in the 50â€”1000 Hz regime. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	385

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19	Optimal sound-absorbing structures. <i>Materials Horizons</i> , 2017, 4, 673-680.	6.4	365
20	Boundary-layer phase transition in nematic liquid crystals. <i>Physical Review A</i> , 1982, 26, 1610-1617.	1.0	355
21	Characterizing and Patterning of PDMS-Based Conducting Composites. <i>Advanced Materials</i> , 2007, 19, 2682-2686.	11.1	347
22	Sound Absorption Structures: From Porous Media to Acoustic Metamaterials. <i>Annual Review of Materials Research</i> , 2017, 47, 83-114.	4.3	342
23	Elastic wave scattering by periodic structures of spherical objects: Theory and experiment. <i>Physical Review B</i> , 2000, 62, 2446-2457.	1.1	329
24	Phase Transition in Surface-Aligned Nematic Films. <i>Physical Review Letters</i> , 1976, 37, 1059-1062.	2.9	322
25	Molecular scale contact line hydrodynamics of immiscible flows. <i>Physical Review E</i> , 2003, 68, 016306.	0.8	307
26	A variational approach to moving contact line hydrodynamics. <i>Journal of Fluid Mechanics</i> , 2006, 564, 333.	1.4	301
27	Theory for the Dielectric Function of Granular Composite Media. <i>Physical Review Letters</i> , 1980, 45, 60-63.	2.9	298
28	Large third-order optical nonlinearity in Au:SiO ₂ composite films near the percolation threshold. <i>Applied Physics Letters</i> , 1997, 70, 1-3.	1.5	287
29	Coupled Membranes with Doubly Negative Mass Density and Bulk Modulus. <i>Physical Review Letters</i> , 2013, 110, 134301.	2.9	276
30	Hopping conductivity in granular disordered systems. <i>Physical Review B</i> , 1983, 27, 2583-2586.	1.1	273
31	Exact eigenfunctions for square-wave gratings: Application to diffraction and surface-plasmon calculations. <i>Physical Review B</i> , 1982, 26, 2907-2916.	1.1	263
32	Ultrasound Tunneling through 3D Phononic Crystals. <i>Physical Review Letters</i> , 2002, 88, 104301.	2.9	253
33	Three-component elastic wave band-gap material. <i>Physical Review B</i> , 2002, 65, .	1.1	240
34	Locally resonant sonic materials. <i>Physica B: Condensed Matter</i> , 2003, 338, 201-205.	1.3	239
35	Transport properties of the composite material carbon-poly(vinyl chloride). <i>Physical Review B</i> , 1978, 18, 5712-5716.	1.1	214
36	Subwavelength total acoustic absorption with degenerate resonators. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	212

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37	Electrorheological fluids: structures and mechanisms. <i>Soft Matter</i> , 2008, 4, 200-210.	1.2	207
38	Robust Photonic Band Gap from Tunable Scatterers. <i>Physical Review Letters</i> , 2000, 84, 2853-2856.	2.9	186
39	Electrorheological Fluids: Mechanisms, Dynamics, and Microfluidics Applications. <i>Annual Review of Fluid Mechanics</i> , 2012, 44, 143-174.	10.8	184
40	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. <i>Nature Communications</i> , 2015, 6, 6088.	5.8	181
41	Wavelength-selective absorption enhancement in thin-film solar cells. <i>Applied Physics Letters</i> , 1983, 43, 579-581.	1.5	180
42	An efficient numerical evaluation of the Green's function for the Helmholtz operator on periodic structures. <i>Journal of Computational Physics</i> , 1986, 63, 222-235.	1.9	175
43	Broadband locally resonant sonic shields. <i>Applied Physics Letters</i> , 2003, 83, 5566-5568.	1.5	171
44	Large-Area Two-Dimensional Mesoscale Quasi-Crystals. <i>Advanced Materials</i> , 2003, 15, 1526-1528.	11.1	169
45	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. <i>Nature Nanotechnology</i> , 2018, 13, 345-350.	15.6	157
46	Feature article: Electronic transport in granular metal films. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992, 65, 357-384.	0.6	156
47	Effective Mass Density of Fluid-Solid Composites. <i>Physical Review Letters</i> , 2006, 96, 024301.	2.9	156
48	Breaking the barriers: advances in acoustic functional materials. <i>National Science Review</i> , 2018, 5, 159-182.	4.6	153
49	Electromagnetic-Wave Tunneling Through Negative-Permittivity Media with High Magnetic Fields. <i>Physical Review Letters</i> , 2005, 94, .	2.9	150
50	Tuning Fabry-Perot resonances via diffraction evanescent waves. <i>Physical Review B</i> , 2007, 76, .	1.1	150
51	Negative-refraction imaging with two-dimensional phononic crystals. <i>Physical Review B</i> , 2005, 72, .	1.1	146
52	Variable liquid crystal pretilt angles by nanostructured surfaces. <i>Applied Physics Letters</i> , 2006, 88, 051910.	1.5	146
53	Voltage-Induced Tunneling Conduction in Granular Metals at Low Temperatures. <i>Physical Review Letters</i> , 1972, 28, 34-37.	2.9	141
54	Two- and Three-Dimensional Ordered Structures of Hollow Silver Spheres Prepared by Colloidal Crystal Templating. <i>Advanced Materials</i> , 2004, 16, 417-422.	11.1	135

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55	Active control of membrane-type acoustic metamaterial by electric field. Applied Physics Letters, 2015, 106, .	1.5	134
56	Frequency Dependent Electrorheological Properties: Origin and Bounds. Physical Review Letters, 1996, 77, 2499-2502.	2.9	128
57	Generalized hydrodynamic equations for nematic liquid crystals. Physical Review E, 1998, 58, 7475-7485.	0.8	128
58	Photonic clusters formed by dielectric microspheres: Numerical simulations. Physical Review B, 2005, 72, .	1.1	125
59	Real-time detection, control, and sorting of microfluidic droplets. Biomicrofluidics, 2007, 1, 44101.	1.2	124
60	Knife-edge scanning measurements of subwavelength focused light beams. Applied Optics, 1977, 16, 1971.	2.1	123
61	A generalized differential effective medium theory. Journal of the Mechanics and Physics of Solids, 1985, 33, 525-543.	2.3	123
62	Particle size scaling of the giant electrorheological effect. Applied Physics Letters, 2004, 85, 299-301.	1.5	122
63	Scalar-Wave Localization in a Two-Component Composite. Physical Review Letters, 1986, 57, 1879-1882.	2.9	120
64	Effective-medium theories for two-phase dielectric media. Journal of Applied Physics, 1985, 57, 1990-1996.	1.1	118
65	Immiscible-fluid displacement: Contact-line dynamics and the velocity-dependent capillary pressure. Physical Review A, 1992, 45, 5694-5708.	1.0	118
66	Subwavelength Photonic Band Gaps from Planar Fractals. Physical Review Letters, 2002, 89, 223901.	2.9	118
67	Chiral microstructures (spirals) fabrication by holographic lithography. Optics Express, 2005, 13, 7615.	1.7	116
68	Effective-medium theory of sedimentary rocks. Physical Review B, 1990, 41, 4507-4512.	1.1	115
69	Dynamics of immiscible-fluid displacement in a capillary tube. Physical Review Letters, 1990, 64, 882-885.	2.9	112
70	Group Velocity in Strongly Scattering Media. Science, 1996, 271, 634-637.	6.0	111
71	Dynamic mass density and acoustic metamaterials. Physica B: Condensed Matter, 2007, 394, 256-261.	1.3	110
72	Moving contact line on chemically patterned surfaces. Journal of Fluid Mechanics, 2008, 605, 59-78.	1.4	110

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73	Design and Fabrication of Magnetically Functionalized Core/Shell Microspheres for Smart Drug Delivery. <i>Advanced Functional Materials</i> , 2009, 19, 292-297.	7.8	110
74	Dynamic Permeability in Porous Media. <i>Physical Review Letters</i> , 1988, 61, 1591-1594.	2.9	108
75	New Electrorheological Fluid: Theory and Experiment. <i>Physical Review Letters</i> , 1997, 78, 2987-2990.	2.9	105
76	Three-dimensional self-assembly of metal nanoparticles: Possible photonic crystal with a complete gap below the plasma frequency. <i>Physical Review B</i> , 2001, 64, .	1.1	102
77	Liquid Crystal Orientation Transition on Microtextured Substrates. <i>Physical Review Letters</i> , 2003, 91, 215501.	2.9	100
78	Homogenization scheme for acoustic metamaterials. <i>Physical Review B</i> , 2014, 89, .	1.1	100
79	First-principles calculations of dynamic permeability in porous media. <i>Physical Review B</i> , 1989, 39, 12027-12039.	1.1	96
80	Polarization bandgaps and fluid-like elasticity in fully solid elastic metamaterials. <i>Nature Communications</i> , 2016, 7, 13536.	5.8	96
81	Shaping reverberating sound fields with an actively tunable metasurface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6638-6643.	3.3	95
82	Localization in One-Dimensional Disordered Systems in the Presence of an Electric Field. <i>Physical Review Letters</i> , 1983, 50, 764-767.	2.9	93
83	Power-Law Slip Profile of the Moving Contact Line in Two-Phase Immiscible Flows. <i>Physical Review Letters</i> , 2004, 93, 094501.	2.9	93
84	Low-frequency narrow-band acoustic filter with large orifice. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	91
85	Critical point in the magnetic field-temperature phase diagram of nematic liquid crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1974, 48, 235-236.	0.9	89
86	Planar Magnetic Colloidal Crystals. <i>Physical Review Letters</i> , 2000, 85, 5464-5467.	2.9	89
87	Effective dynamic mass density of composites. <i>Physical Review B</i> , 2007, 76, .	1.1	89
88	Sound absorption by subwavelength membrane structures: A geometric perspective. <i>Comptes Rendus - Mecanique</i> , 2015, 343, 635-644.	2.1	82
89	First-principles Fourier approach for the calculation of the effective dielectric constant of periodic composites. <i>Physical Review B</i> , 1990, 41, 2417-2420.	1.1	81
90	The melting behavior of small clusters of atoms. <i>Chemical Physics Letters</i> , 1984, 110, 63-66.	1.2	80

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91	Third-order optical nonlinearity enhancement through composite microstructures. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1022.	0.9	79
92	Wave transport in random media: The ballistic to diffusive transition. Physical Review E, 1999, 60, 4843-4850.	0.8	79
93	Heat Conductivity of Amorphous Solids: Simulation Results on Model Structures. Science, 1991, 253, 539-542.	6.0	77
94	Field Induced Structural Transition in Mesocrystallites. Physical Review Letters, 1999, 82, 4248-4251.	2.9	77
95	Polydimethylsiloxane microfluidic chip with integrated microheater and thermal sensor. Biomicrofluidics, 2009, 3, 12005.	1.2	76
96	Dielectric electrorheological fluids: Theory and experiment. Advances in Physics, 2003, 52, 343-383.	35.9	74
97	Measurements of sound transmission through panels of locally resonant materials between impedance tubes. Applied Acoustics, 2005, 66, 751-765.	1.7	72
98	Terahertz electric response of fractal metamaterial structures. Physical Review B, 2008, 77, .	1.1	71
99	Strong optical force induced by morphology-dependent resonances. Optics Letters, 2005, 30, 1956.	1.7	70
100	Realization of optical periodic quasicrystals using holographic lithography. Applied Physics Letters, 2006, 88, 051901.	1.5	69
101	Generation and manipulation of "smart" droplets. Soft Matter, 2009, 5, 576-581.	1.2	69
102	Mechanisms of the giant electrorheological effect. Solid State Communications, 2006, 139, 581-588.	0.9	68
103	Electrical properties of carbon-polymer composites. Journal of Electronic Materials, 1982, 11, 699-747.	1.0	66
104	Phonon transport in strong-scattering media. Physical Review Letters, 1994, 72, 234-237.	2.9	66
105	Energy Velocity of Diffusing Waves in Strongly Scattering Media. Physical Review Letters, 1997, 79, 3166-3169.	2.9	66
106	Phononic crystals. Physica Status Solidi (B): Basic Research, 2004, 241, 3454-3462.	0.7	66
107	Perspective: Acoustic metamaterials in transition. Journal of Applied Physics, 2018, 123, .	1.1	66
108	Brewster Anomalies: A Polarization-Induced Delocalization Effect. Physical Review Letters, 1988, 60, 108-111.	2.9	65

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109	Group velocity of acoustic waves in strongly scattering media: Dependence on the volume fraction of scatterers. <i>Physical Review E</i> , 1998, 58, 6626-6636.	0.8	65
110	Giant Hall Effect in Nonmagnetic Granular Metal Films. <i>Physical Review Letters</i> , 2001, 86, 5562-5565.	2.9	65
111	Minimum wave-localization length in a one-dimensional random medium. <i>Physical Review B</i> , 1986, 34, 4757-4761.	1.1	64
112	Optical nonlinearity enhancement via geometric anisotropy. <i>Physical Review E</i> , 1997, 56, R1322-R1325.	0.8	63
113	Design and fabrication of microfluidic mixer from carbonyl iron- PDMS composite membrane. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 919-925.	1.0	63
114	Theoretical requirements for broadband perfect absorption of acoustic waves by ultra-thin elastic meta-films. <i>Scientific Reports</i> , 2015, 5, 12139.	1.6	62
115	Constant-coupling theory of nematic liquid crystals. <i>Physical Review A</i> , 1976, 14, 1883-1894.	1.0	61
116	Dynamic flow and switching bistability in twisted nematic liquid crystal cells. <i>Applied Physics Letters</i> , 1997, 71, 596-598.	1.5	61
117	Resonant transmission of microwaves through subwavelength fractal slits in a metallic plate. <i>Physical Review B</i> , 2005, 72, .	1.1	61
118	Active microfluidic mixer chip. <i>Applied Physics Letters</i> , 2006, 88, 153508.	1.5	61
119	Microfluidic Fabrication of Porous Polymer Microspheres: Dual Reactions in Single Droplets. <i>Langmuir</i> , 2009, 25, 7072-7077.	1.6	59
120	Conceptual-based design of an ultrabroadband microwave metamaterial absorber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	59
121	Consistent modeling of the electrical and elastic properties of sedimentary rocks. <i>Geophysics</i> , 1991, 56, 1236-1243.	1.4	58
122	Superconducting characteristics of 4- β , γ carbon nanotube-zeolite composite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7299-7303.	3.3	58
123	Probing a Random Medium with a Pulse. <i>SIAM Journal on Applied Mathematics</i> , 1989, 49, 582-607.	0.8	57
124	Crosstalk noise from multiple thick-phase holograms. <i>Journal of Applied Physics</i> , 1977, 48, 681-685.	1.1	56
125	Lattice softening in nanometer-size iron particles. <i>Physical Review B</i> , 1991, 44, 11689-11696.	1.1	56
126	Anisotropy and oblique total transmission at a planar negative-index interface. <i>Physical Review B</i> , 2003, 68, .	1.1	56

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127	Pair-cluster theory for the dielectric constant of composite media. <i>Physical Review B</i> , 1980, 22, 6364-6368.	1.1	55
128	Ground States of Magnetorheological Fluids. <i>Physical Review Letters</i> , 1998, 81, 1509-1512.	2.9	55
129	Liquid crystal pretilt angle control using nanotextured surfaces. <i>Journal of Applied Physics</i> , 2006, 99, 124506.	1.1	54
130	Acoustic wave transmission through a bull's eye structure. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	54
131	Orientalional states and phase transitions induced by microtextured substrates. <i>Physical Review E</i> , 1997, 55, 7111-7120.	0.8	53
132	Design and integration of an all-in-one biomicrofluidic chip. <i>Biomicrofluidics</i> , 2008, 2, 34103.	1.2	53
133	Resonant Raman Scattering of the Smallest Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2008, 101, 047402.	2.9	53
134	Acoustic analog of electromagnetically induced transparency in periodic arrays of square rods. <i>Physical Review E</i> , 2010, 82, 026601.	0.8	52
135	Influence of liquid phase on nanoparticle-based giant electrorheological fluid. <i>Nanotechnology</i> , 2008, 19, 165602.	1.3	51
136	Localization and backscattering spectrum of seismic waves in stratified lithology. <i>Geophysics</i> , 1990, 55, 1158-1165.	1.4	50
137	Optical properties of aggregate clusters. <i>Physical Review B</i> , 1988, 37, 5232-5235.	1.1	48
138	Wave localization in random networks. <i>Physical Review B</i> , 1994, 49, 83-89.	1.1	48
139	Towards anti-causal Green's function for three-dimensional sub-diffraction focusing. <i>Nature Physics</i> , 2018, 14, 608-612.	6.5	48
140	Properties of fractal colloid aggregates. <i>Faraday Discussions of the Chemical Society</i> , 1987, 83, 153.	2.2	47
141	Hydrodynamic slip boundary condition at chemically patterned surfaces: A continuum deduction from molecular dynamics. <i>Physical Review E</i> , 2005, 72, 022501.	0.8	47
142	Micropumps Based on the Enhanced Electroosmotic Effect of Aluminum Oxide Membranes. <i>Advanced Materials</i> , 2007, 19, 4234-4237.	11.1	47
143	Novel acoustic excitations in suspensions of hard-sphere colloids. <i>Physical Review Letters</i> , 1990, 65, 2602-2605.	2.9	46
144	Multiband subwavelength magnetic reflectors based on fractals. <i>Applied Physics Letters</i> , 2003, 83, 3257-3259.	1.5	46

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145	Magnetically responsive elastic microspheres. Applied Physics Letters, 2008, 92, .	1.5	46
146	Liquid-Crystal Phase Transitions Induced by Microtextured Substrates. Physical Review Letters, 1996, 77, 4564-4567.	2.9	45
147	Single-electron tunneling study of two-dimensional gold clusters. Applied Physics Letters, 2000, 77, 1179-1181.	1.5	45
148	Microwave transmission through metallic hole arrays: Surface electric field measurements. Applied Physics Letters, 2006, 89, 1319-1317.	1.5	45
149	Graphene Magnetoresistance Device in van der Pauw Geometry. Nano Letters, 2011, 11, 2973-2977.	4.5	45
150	Acoustic and electromagnetic quasimodes in dispersed random media. Physical Review A, 1992, 46, 6513-6534.	1.0	44
151	Paperlike thermochromic display. Applied Physics Letters, 2007, 90, 2135-2138.	1.5	44
152	Ultrasonic wave transport in a system of disordered resonant scatterers: Propagating resonant modes and hybridization gaps. Physical Review B, 2011, 84, .	1.1	44
153	Wave localization characteristics in the time domain. Physical Review Letters, 1987, 59, 1918-1921.	2.9	43
154	Superconductivity in Bundles of Double-Wall Carbon Nanotubes. Scientific Reports, 2012, 2, 625.	1.6	43
155	Direct Measurement of Friction of a Fluctuating Contact Line. Physical Review Letters, 2013, 111, 026101.	2.9	43
156	Observation of bending wave localization and quasi mobility edge in two dimensions. Physical Review Letters, 1992, 69, 3080-3083.	2.9	42
157	Liquid crystal pretilt control by inhomogeneous surfaces. Physical Review E, 2005, 72, 021711.	0.8	42
158	Fabrication of Copper Nanowire Encapsulated in the Pore Channels of SBA-15 by Metal Organic Chemical Vapor Deposition. Journal of Physical Chemistry C, 2007, 111, 12536-12541.	1.5	42
159	Soft silicone rubber in phononic structures: Correct elastic moduli. Physical Review B, 2013, 88, .	1.1	42
160	An energetic variational approach for ion transport. Communications in Mathematical Sciences, 2014, 12, 779-789.	0.5	42
161	Underwater metamaterial absorber with impedance-matched composite. Science Advances, 2022, 8, eabm4206.	4.7	42
162	Hybrid Approach to High-Frequency Microfluidic Mixing. Physical Review Letters, 2006, 97, 044501.	2.9	41

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163	Multiple-Scattering Noise in One Dimension: Universality through Localization-Length Scaling. <i>Physical Review Letters</i> , 1986, 57, 1000-1003.	2.9	40
164	Theory of acoustic excitations in colloidal suspensions. <i>Physical Review Letters</i> , 1991, 66, 1240-1243.	2.9	40
165	Theoretical studies on the transmission and reflection properties of metallic planar fractals. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 368-373.	1.3	40
166	Acoustic metamaterials. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	40
167	Dynamic rigidity percolation in inverted micelles. <i>Physical Review Letters</i> , 1989, 63, 263-266.	2.9	39
168	Localization transition in media with anisotropic diagonal disorder. <i>Physical Review Letters</i> , 1989, 63, 2837-2840.	2.9	39
169	Reflectivity of planar metallic fractal patterns. <i>Applied Physics Letters</i> , 2003, 82, 1012-1014.	1.5	39
170	Electrorheological fluid-actuated microfluidic pump. <i>Applied Physics Letters</i> , 2006, 89, 083505.	1.5	39
171	Giant Electrorheological Effect: A Microscopic Mechanism. <i>Physical Review Letters</i> , 2010, 105, 046001.	2.9	39
172	Photonic band gaps from metallo-dielectric spheres. <i>Physica B: Condensed Matter</i> , 2000, 279, 150-154.	1.3	38
173	Fano effect of metamaterial resonance in terahertz extraordinary transmission. <i>Applied Physics Letters</i> , 2011, 98, 011911.	1.5	38
174	Observation of fluctuation modulation of tunnel junctions by applied ac stress in carbon polyvinylchloride composites. <i>Physical Review B</i> , 1981, 24, 6131-6134.	1.1	37
175	Melting transition of small molecular clusters. <i>Journal of Physics C: Solid State Physics</i> , 1981, 14, L565-L569.	1.5	37
176	Frequency and water content dependencies of electrorheological properties. <i>Physical Review E</i> , 1997, 55, R1294-R1297.	0.8	37
177	Multiple scattering theory and its application to photonic band gap systems consisting of coated spheres. <i>Optics Express</i> , 2001, 8, 203.	1.7	37
178	Continuous liquid crystal pretilt control through textured substrates. <i>Applied Physics Letters</i> , 2004, 85, 5556-5558.	1.5	37
179	Development of an atomic-force-microscope-based hanging-fiber rheometer for interfacial microrheology. <i>Physical Review E</i> , 2009, 80, 061604.	0.8	37
180	Fluctuation-induced tunneling conduction through nanoconstrictions. <i>Physical Review B</i> , 2009, 79, .	1.1	37

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181	Fabrication of iron oxide/silica core-shell nanoparticles and their magnetic characteristics. Journal of Alloys and Compounds, 2012, 543, 43-48.	2.8	37
182	Enhancement of the Upper Critical Field and Fluctuations above the Bulk T_c in Superconducting Ultrathin Lead Nanowire Arrays. ACS Nano, 2013, 7, 4187-4193.	7.3	37
183	Photonic bandtail in 1D randomly-perturbed periodic systems. Optics Communications, 1993, 98, 231-235.	1.0	36
184	Wetting-induced electrorheological effect. Journal of Applied Physics, 2006, 99, 106104.	1.1	36
185	Electron localization in metal-decorated graphene. Physical Review B, 2011, 84, .	1.1	36
186	Microwave and Acoustic Absorption Metamaterials. Physical Review Applied, 2022, 17, .	1.5	36
187	Geometric effects in continuous-media percolation. Physical Review B, 1982, 26, 1331-1335.	1.1	35
188	Quantum interference and the giant Hall effect in percolating systems. Physical Review B, 2002, 66, .	1.1	35
189	Localized and delocalized surface-plasmon-mediated light tunneling through monolayer hexagonal-close-packed metallic nanoshells. Physical Review B, 2009, 80, .	1.1	35
190	Regulating Top Surface Multilayer/Single Crystal Graphene Growth by Gettering Carbon Diffusion at Backside of the Copper Foil. Advanced Functional Materials, 2017, 27, 1700121.	7.8	35
191	The Coulomb quasigap and the metal-insulator transition in granular systems. Journal of Physics C: Solid State Physics, 1984, 17, L93-L96.	1.5	34
192	Electrorheological Fluid Dynamics. Physical Review Letters, 2008, 101, 194503.	2.9	33
193	Differential effective medium theory of sedimentary rocks. Applied Physics Letters, 1984, 44, 738-740.	1.5	32
194	Nematic-isotropic phase transition: An extended mean field theory. Physical Review Letters, 1993, 70, 1271-1274.	2.9	32
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