

Ping Sheng

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430
papers

30,254
citations

83
h-index

165
g-index

465
ext. papers

33,302
ext. citations

5.2
avg. IF

7.23
L-index

#	Paper	IF	Citations
430	Locally resonant sonic materials. <i>Science</i> , 2000 , 289, 1734-6	33.3	3041
429	Structural and electrical properties of granular metal films. <i>Advances in Physics</i> , 1975 , 24, 407-461	18.4	1284
428	Fluctuation-induced tunneling conduction in disordered materials. <i>Physical Review B</i> , 1980 , 21, 2180-2195	3.3	842
427	Transformation optics and metamaterials. <i>Nature Materials</i> , 2010 , 9, 387-96	27	835
426	Hopping Conductivity in Granular Metals. <i>Physical Review Letters</i> , 1973 , 31, 44-47	7.4	798
425	Superconductivity in 4 angstrom single-walled carbon nanotubes. <i>Science</i> , 2001 , 292, 2462-5	33.3	673
424	Acoustic metamaterials: From local resonances to broad horizons. <i>Science Advances</i> , 2016 , 2, e1501595	14.3	662
423	Membrane-type acoustic metamaterial with negative dynamic mass. <i>Physical Review Letters</i> , 2008 , 101, 204301	7.4	641
422	Dark acoustic metamaterials as super absorbers for low-frequency sound. <i>Nature Communications</i> , 2012 , 3, 756	17.4	634
421	Acoustic metasurface with hybrid resonances. <i>Nature Materials</i> , 2014 , 13, 873-8	27	585
420	Fluctuation-Induced Tunneling Conduction in Carbon-Polyvinylchloride Composites. <i>Physical Review Letters</i> , 1978 , 40, 1197-1200	7.4	508
419	The giant electrorheological effect in suspensions of nanoparticles. <i>Nature Materials</i> , 2003 , 2, 727-30	27	462
418	Focusing of sound in a 3D phononic crystal. <i>Physical Review Letters</i> , 2004 , 93, 024301	7.4	457
417	Photonic band gap from a stack of positive and negative index materials. <i>Physical Review Letters</i> , 2003 , 90, 083901	7.4	435
416	Geometric phase and band inversion in periodic acoustic systems. <i>Nature Physics</i> , 2015 , 11, 240-244	16.2	348
415	Analytic model of phononic crystals with local resonances. <i>Physical Review B</i> , 2005 , 71,	3.3	341
414	Boundary-layer phase transition in nematic liquid crystals. <i>Physical Review A</i> , 1982 , 26, 1610-1617	2.6	335

413	Hybrid elastic solids. <i>Nature Materials</i> , 2011 , 10, 620-4	27	319
412	Acoustic metamaterial panels for sound attenuation in the 50–1000 Hz regime. <i>Applied Physics Letters</i> , 2010 , 96, 041906	3-4	313
411	Characterizing and Patterning of PDMS-Based Conducting Composites. <i>Advanced Materials</i> , 2007 , 19, 2682-2686	24	307
410	Phase Transition in Surface-Aligned Nematic Films. <i>Physical Review Letters</i> , 1976 , 37, 1059-1062	7-4	303
409	Elastic wave scattering by periodic structures of spherical objects: Theory and experiment. <i>Physical Review B</i> , 2000 , 62, 2446-2457	3-3	300
408	Theory for the Dielectric Function of Granular Composite Media. <i>Physical Review Letters</i> , 1980 , 45, 60-63	7-4	280
407	Large third-order optical nonlinearity in Au:SiO ₂ composite films near the percolation threshold. <i>Applied Physics Letters</i> , 1997 , 70, 1-3	3-4	262
406	Hopping conductivity in granular disordered systems. <i>Physical Review B</i> , 1983 , 27, 2583-2586	3-3	258
405	A variational approach to moving contact line hydrodynamics. <i>Journal of Fluid Mechanics</i> , 2006 , 564, 333-37	3-7	254
404	Molecular scale contact line hydrodynamics of immiscible flows. <i>Physical Review E</i> , 2003 , 68, 016306	2-4	243
403	Exact eigenfunctions for square-wave gratings: Application to diffraction and surface-plasmon calculations. <i>Physical Review B</i> , 1982 , 26, 2907-2916	3-3	235
402	Coupled membranes with doubly negative mass density and bulk modulus. <i>Physical Review Letters</i> , 2013 , 110, 134301	7-4	219
401	Ultrasound tunneling through 3D phononic crystals. <i>Physical Review Letters</i> , 2002 , 88, 104301	7-4	219
400	Optimal sound-absorbing structures. <i>Materials Horizons</i> , 2017 , 4, 673-680	14-4	213
399	Sound Absorption Structures: From Porous Media to Acoustic Metamaterials. <i>Annual Review of Materials Research</i> , 2017 , 47, 83-114	12-8	210
398	Three-component elastic wave band-gap material. <i>Physical Review B</i> , 2002 , 65,	3-3	203
397	Transport properties of the composite material carbon-poly(vinyl chloride). <i>Physical Review B</i> , 1978 , 18, 5712-5716	3-3	187
396	Electrorheological fluids: structures and mechanisms. <i>Soft Matter</i> , 2008 , 4, 200-210	3-6	183

395	Locally resonant sonic materials. <i>Physica B: Condensed Matter</i> , 2003 , 338, 201-205	2.8	177
394	Robust photonic band gap from tunable scatterers. <i>Physical Review Letters</i> , 2000 , 84, 2853-6	7.4	175
393	Subwavelength total acoustic absorption with degenerate resonators. <i>Applied Physics Letters</i> , 2015 , 107, 104104	3.4	157
392	Wavelength-selective absorption enhancement in thin-film solar cells. <i>Applied Physics Letters</i> , 1983 , 43, 579-581	3.4	157
391	Scattering and Localization of Classical Waves in Random Media. <i>Series on Directions in Condensed Matter Physics</i> , 1990 ,		156
390	Large-Area Two-Dimensional Mesoscale Quasi-Crystals. <i>Advanced Materials</i> , 2003 , 15, 1526-1528	24	153
389	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. <i>Nature Communications</i> , 2015 , 6, 6088	17.4	151
388	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		150
387	Electrorheological Fluids: Mechanisms, Dynamics, and Microfluidics Applications. <i>Annual Review of Fluid Mechanics</i> , 2012 , 44, 143-174	22	148
386	Broadband locally resonant sonic shields. <i>Applied Physics Letters</i> , 2003 , 83, 5566-5568	3.4	145
385	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	4.1	136
384	Voltage-Induced Tunneling Conduction in Granular Metals at Low Temperatures. <i>Physical Review Letters</i> , 1972 , 28, 34-37	7.4	134
383	Tuning Fabry-Perot resonances via diffraction evanescent waves. <i>Physical Review B</i> , 2007 , 76,	3.3	132
382	Effective mass density of fluid-solid composites. <i>Physical Review Letters</i> , 2006 , 96, 024301	7.4	131
381	Variable liquid crystal pretilt angles by nanostructured surfaces. <i>Applied Physics Letters</i> , 2006 , 88, 051910	9.4	131
380	Two- and Three-Dimensional Ordered Structures of Hollow Silver Spheres Prepared by Colloidal Crystal Templating. <i>Advanced Materials</i> , 2004 , 16, 417-422	24	129
379	Electromagnetic-Wave Tunneling Through Negative-Permittivity Media with High Magnetic Fields. <i>Physical Review Letters</i> , 2005 , 94,	7.4	127
378	Negative-refraction imaging with two-dimensional phononic crystals. <i>Physical Review B</i> , 2005 , 72,	3.3	122

377	Frequency Dependent Electrorheological Properties: Origin and Bounds. <i>Physical Review Letters</i> , 1996 , 77, 2499-2502	7.4	116
376	Scalar-wave localization in a two-component composite. <i>Physical Review Letters</i> , 1986 , 57, 1879-1882	7.4	115
375	A generalized differential effective medium theory. <i>Journal of the Mechanics and Physics of Solids</i> , 1985 , 33, 525-543	5	111
374	Photonic clusters formed by dielectric microspheres: Numerical simulations. <i>Physical Review B</i> , 2005 , 72,	3.3	109
373	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. <i>Nature Nanotechnology</i> , 2018 , 13, 345-350	28.7	106
372	Real-time detection, control, and sorting of microfluidic droplets. <i>Biomicrofluidics</i> , 2007 , 1, 44101	3.2	106
371	Particle size scaling of the giant electrorheological effect. <i>Applied Physics Letters</i> , 2004 , 85, 299-301	3.4	106
370	Active control of membrane-type acoustic metamaterial by electric field. <i>Applied Physics Letters</i> , 2015 , 106, 091904	3.4	104
369	Generalized hydrodynamic equations for nematic liquid crystals. <i>Physical Review E</i> , 1998 , 58, 7475-7485	2.4	104
368	Breaking the barriers: advances in acoustic functional materials. <i>National Science Review</i> , 2018 , 5, 159-182	2.8	102
367	Design and Fabrication of Magnetically Functionalized Core/Shell Microspheres for Smart Drug Delivery. <i>Advanced Functional Materials</i> , 2009 , 19, 292-297	15.6	102
366	Immiscible-fluid displacement: Contact-line dynamics and the velocity-dependent capillary pressure. <i>Physical Review A</i> , 1992 , 45, 5694-5708	2.6	102
365	Moving contact line on chemically patterned surfaces. <i>Journal of Fluid Mechanics</i> , 2008 , 605, 59-78	3.7	100
364	Subwavelength photonic band gaps from planar fractals. <i>Physical Review Letters</i> , 2002 , 89, 223901	7.4	99
363	New Electrorheological Fluid: Theory and Experiment. <i>Physical Review Letters</i> , 1997 , 78, 2987-2990	7.4	98
362	Chiral microstructures (spirals) fabrication by holographic lithography. <i>Optics Express</i> , 2005 , 13, 7615-20	3.3	97
361	Group Velocity in Strongly Scattering Media. <i>Science</i> , 1996 , 271, 634-637	33.3	97
360	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,	3.3	94

- 359 Liquid crystal orientation transition on microtextured substrates. *Physical Review Letters*, **2003**, 91, 2155-2159. 1.7 92
- 358 Knife-edge scanning measurements of subwavelength focused light beams. *Applied Optics*, **1977**, 16, 1971-4. 1.7 92
- 357 Dynamic mass density and acoustic metamaterials. *Physica B: Condensed Matter*, **2007**, 394, 256-261. 2.8 91
- 356 Dynamics of immiscible-fluid displacement in a capillary tube. *Physical Review Letters*, **1990**, 64, 882-885. 7.4 91
- 355 Effective-medium theory of sedimentary rocks. *Physical Review B*, **1990**, 41, 4507-4512. 3.3 91
- 354 Effective-medium theories for two-phase dielectric media. *Journal of Applied Physics*, **1985**, 57, 1990-1996. 5 91
- 353 Homogenization scheme for acoustic metamaterials. *Physical Review B*, **2014**, 89, 110101. 3.3 90
- 352 Dynamic permeability in porous media. *Physical Review Letters*, **1988**, 61, 1591-1594. 7.4 88
- 351 Localization in One-Dimensional Disordered Systems in the Presence of an Electric Field. *Physical Review Letters*, **1983**, 50, 764-767. 7.4 88
- 350 Planar magnetic colloidal crystals. *Physical Review Letters*, **2000**, 85, 5464-7. 7.4 87
- 349 Critical point in the magnetic field-temperature phase diagram of nematic liquid crystals. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1974**, 48, 235-236. 2.3 85
- 348 First-principles calculations of dynamic permeability in porous media. *Physical Review B*, **1989**, 39, 12027-12039. 3.4 84
- 347 First-principles Fourier approach for the calculation of the effective dielectric constant of periodic composites. *Physical Review B*, **1990**, 41, 2417-2420. 3.3 78
- 346 The melting behavior of small clusters of atoms. *Chemical Physics Letters*, **1984**, 110, 63-66. 2.5 78
- 345 Power-law slip profile of the moving contact line in two-phase immiscible flows. *Physical Review Letters*, **2004**, 93, 094501. 7.4 75
- 344 Field Induced Structural Transition in Mesocrystallites. *Physical Review Letters*, **1999**, 82, 4248-4251. 7.4 75
- 343 Effective dynamic mass density of composites. *Physical Review B*, **2007**, 76, 110101. 3.3 73
- 342 Third-order optical nonlinearity enhancement through composite microstructures. *Journal of the Optical Society of America B: Optical Physics*, **1998**, 15, 1022. 1.7 73

341	Low-frequency narrow-band acoustic filter with large orifice. <i>Applied Physics Letters</i> , 2013 , 103, 011903	3.4	71
340	Heat conductivity of amorphous solids: simulation results on model structures. <i>Science</i> , 1991 , 253, 539-423	3.3	70
339	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	11.5	69
338	Generation and manipulation of smart droplets. <i>Soft Matter</i> , 2009 , 5, 576-581	3.6	67
337	Dielectric electrorheological fluids: Theory and experiment. <i>Advances in Physics</i> , 2003 , 52, 343-383	18.4	65
336	Polydimethylsiloxane microfluidic chip with integrated microheater and thermal sensor. <i>Biomicrofluidics</i> , 2009 , 3, 12005	3.2	64
335	Giant Hall effect in nonmagnetic granular metal films. <i>Physical Review Letters</i> , 2001 , 86, 5562-5	7.4	63
334	Wave transport in random media: the ballistic to diffusive transition. <i>Physical Review E</i> , 1999 , 60, 4843-50	4	63
333	Phononic crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 3454-3462	1.3	62
332	Phonon transport in strong-scattering media. <i>Physical Review Letters</i> , 1994 , 72, 234-237	7.4	62
331	Minimum wave-localization length in a one-dimensional random medium. <i>Physical Review B</i> , 1986 , 34, 4757-4761	3.3	61
330	Sound absorption by subwavelength membrane structures: A geometric perspective. <i>Comptes Rendus - Mecanique</i> , 2015 , 343, 635-644	2.1	60
329	Polarization bandgaps and fluid-like elasticity in fully solid elastic metamaterials. <i>Nature Communications</i> , 2016 , 7, 13536	17.4	60
328	Optical nonlinearity enhancement via geometric anisotropy. <i>Physical Review E</i> , 1997 , 56, R1322-R1325	2.4	60
327	Constant-coupling theory of nematic liquid crystals. <i>Physical Review A</i> , 1976 , 14, 1883-1894	2.6	60
326	Measurements of sound transmission through panels of locally resonant materials between impedance tubes. <i>Applied Acoustics</i> , 2005 , 66, 751-765	3.1	59
325	Brewster anomalies: A polarization-induced delocalization effect. <i>Physical Review Letters</i> , 1988 , 60, 108-111	11	59
324	Strong optical force induced by morphology-dependent resonances. <i>Optics Letters</i> , 2005 , 30, 1956-8	3	58

323	Superconducting characteristics of 4-A carbon nanotube-zeolite composite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7299-303	11.5	57
322	Energy Velocity of Diffusing Waves in Strongly Scattering Media. <i>Physical Review Letters</i> , 1997 , 79, 3166-3169	3.1	57
321	Electrical properties of carbon-polymer composites. <i>Journal of Electronic Materials</i> , 1982 , 11, 699-747	1.9	57
320	Design and fabrication of microfluidic mixer from carbonyl iron/DMS composite membrane. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 919-925	2.8	56
319	Dynamic flow and switching bistability in twisted nematic liquid crystal cells. <i>Applied Physics Letters</i> , 1997 , 71, 596-598	3.4	56
318	Terahertz electric response of fractal metamaterial structures. <i>Physical Review B</i> , 2008 , 77,	3.3	56
317	Microfluidic fabrication of porous polymer microspheres: dual reactions in single droplets. <i>Langmuir</i> , 2009 , 25, 7072-7	4	55
316	Perspective: Acoustic metamaterials in transition. <i>Journal of Applied Physics</i> , 2018 , 123, 090901	2.5	55
315	Ground States of Magnetorheological Fluids. <i>Physical Review Letters</i> , 1998 , 81, 1509-1512	7.4	54
314	Orientalional states and phase transitions induced by microtextured substrates. <i>Physical Review E</i> , 1997 , 55, 7111-7120	2.4	53
313	Theoretical requirements for broadband perfect absorption of acoustic waves by ultra-thin elastic meta-films. <i>Scientific Reports</i> , 2015 , 5, 12139	4.9	52
312	Realization of optical periodic quasicrystals using holographic lithography. <i>Applied Physics Letters</i> , 2006 , 88, 051901	3.4	52
311	Mechanisms of the giant electrorheological effect. <i>Solid State Communications</i> , 2006 , 139, 581-588	1.6	52
310	Crosstalk noise from multiple thick-phase holograms. <i>Journal of Applied Physics</i> , 1977 , 48, 681-685	2.5	52
309	Active microfluidic mixer chip. <i>Applied Physics Letters</i> , 2006 , 88, 153508	3.4	51
308	Consistent modeling of the electrical and elastic properties of sedimentary rocks. <i>Geophysics</i> , 1991 , 56, 1236-1243	3.1	51
307	Pair-cluster theory for the dielectric constant of composite media. <i>Physical Review B</i> , 1980 , 22, 6364-6368	3.3	51
306	Resonant Raman scattering of the smallest single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2008 , 101, 047402	7.4	50

305	Resonant transmission of microwaves through subwavelength fractal slits in a metallic plate. <i>Physical Review B</i> , 2005 , 72,	3.3	50
304	Liquid crystal pretilt angle control using nanotextured surfaces. <i>Journal of Applied Physics</i> , 2006 , 99, 124506	3.6	50
303	Design and integration of an all-in-one biomicrofluidic chip. <i>Biomicrofluidics</i> , 2008 , 2, 34103	3.2	48
302	Anisotropy and oblique total transmission at a planar negative-index interface. <i>Physical Review B</i> , 2003 , 68,	3.3	48
301	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	2.4	48
300	Probing a Random Medium with a Pulse. <i>SIAM Journal on Applied Mathematics</i> , 1989 , 49, 582-607	1.8	48
299	Lattice softening in nanometer-size iron particles. <i>Physical Review B</i> , 1991 , 44, 11689-11696	3.3	48
298	Optical properties of aggregate clusters. <i>Physical Review B</i> , 1988 , 37, 5232-5235	3.3	48
297	Acoustic analog of electromagnetically induced transparency in periodic arrays of square rods. <i>Physical Review E</i> , 2010 , 82, 026601	2.4	47
296	Acoustic wave transmission through a bullseye structure. <i>Applied Physics Letters</i> , 2008 , 92, 124106	3.4	47
295	Liquid-Crystal Phase Transitions Induced by Microtextured Substrates. <i>Physical Review Letters</i> , 1996 , 77, 4564-4567	7.4	45
294	Properties of fractal colloid aggregates. <i>Faraday Discussions of the Chemical Society</i> , 1987 , 83, 153		45
293	Wave localization in random networks. <i>Physical Review B</i> , 1994 , 49, 83-89	3.3	43
292	Novel acoustic excitations in suspensions of hard-sphere colloids. <i>Physical Review Letters</i> , 1990 , 65, 2602-2605	2.6	43
291	Acoustic and electromagnetic quasimodes in dispersed random media. <i>Physical Review A</i> , 1992 , 46, 6513-6534	2.6	42
290	Magnetically responsive elastic microspheres. <i>Applied Physics Letters</i> , 2008 , 92, 012108	3.4	41
289	Paperlike thermochromic display. <i>Applied Physics Letters</i> , 2007 , 90, 213508	3.4	41
288	Hydrodynamic slip boundary condition at chemically patterned surfaces: a continuum deduction from molecular dynamics. <i>Physical Review E</i> , 2005 , 72, 022501	2.4	41

287	Localization and backscattering spectrum of seismic waves in stratified lithology. <i>Geophysics</i> , 1990 , 55, 1158-1165	3.1	41
286	Influence of liquid phase on nanoparticle-based giant electrorheological fluid. <i>Nanotechnology</i> , 2008 , 19, 165602	3.4	40
285	Micropumps Based on the Enhanced Electroosmotic Effect of Aluminum Oxide Membranes. <i>Advanced Materials</i> , 2007 , 19, 4234-4237	2.4	40
284	Microwave transmission through metallic hole arrays: Surface electric field measurements. <i>Applied Physics Letters</i> , 2006 , 89, 131917	3.4	40
283	Single-electron tunneling study of two-dimensional gold clusters. <i>Applied Physics Letters</i> , 2000 , 77, 1179-1181	3.4	40
282	Fabrication of Copper Nanowire Encapsulated in the Pore Channels of SBA-15 by Metal Organic Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12536-12541	3.8	39
281	Liquid crystal pretilt control by inhomogeneous surfaces. <i>Physical Review E</i> , 2005 , 72, 021711	2.4	39
280	Wave localization characteristics in the time domain. <i>Physical Review Letters</i> , 1987 , 59, 1918-1921	7.4	39
279	Superconductivity in bundles of double-wall carbon nanotubes. <i>Scientific Reports</i> , 2012 , 2, 625	4.9	38
278	Hybrid approach to high-frequency microfluidic mixing. <i>Physical Review Letters</i> , 2006 , 97, 044501	7.4	38
277	Theory of acoustic excitations in colloidal suspensions. <i>Physical Review Letters</i> , 1991 , 66, 1240-1243	7.4	38
276	Giant electrorheological effect: a microscopic mechanism. <i>Physical Review Letters</i> , 2010 , 105, 046001	7.4	37
275	Graphene magnetoresistance device in van der Pauw geometry. <i>Nano Letters</i> , 2011 , 11, 2973-7	11.5	37
274	Ultrasonic wave transport in a system of disordered resonant scatterers: Propagating resonant modes and hybridization gaps. <i>Physical Review B</i> , 2011 , 84,	3.3	37
273	Observation of bending wave localization and quasi mobility edge in two dimensions. <i>Physical Review Letters</i> , 1992 , 69, 3080-3083	7.4	37
272	Localization transition in media with anisotropic diagonal disorder. <i>Physical Review Letters</i> , 1989 , 63, 2837-2840	7.4	37
271	Electrorheological fluid-actuated microfluidic pump. <i>Applied Physics Letters</i> , 2006 , 89, 083505	3.4	36
270	Continuous liquid crystal pretilt control through textured substrates. <i>Applied Physics Letters</i> , 2004 , 85, 5556-5558	3.4	36

269	Dynamic rigidity percolation in inverted micelles. <i>Physical Review Letters</i> , 1989 , 63, 263-266	7.4	36
268	Fano effect of metamaterial resonance in terahertz extraordinary transmission. <i>Applied Physics Letters</i> , 2011 , 98, 011911	3.4	35
267	Localized and delocalized surface-plasmon-mediated light tunneling through monolayer hexagonal-close-packed metallic nanoshells. <i>Physical Review B</i> , 2009 , 80,	3.3	35
266	Frequency and water content dependencies of electrorheological properties. <i>Physical Review E</i> , 1997 , 55, R1294-R1297	2.4	35
265	Multiband subwavelength magnetic reflectors based on fractals. <i>Applied Physics Letters</i> , 2003 , 83, 3257-3259	3.5	35
264	Reflectivity of planar metallic fractal patterns. <i>Applied Physics Letters</i> , 2003 , 82, 1012-1014	3.4	35
263	Photonic band gaps from metallo-dielectric spheres. <i>Physica B: Condensed Matter</i> , 2000 , 279, 150-154	2.8	35
262	Observation of fluctuation modulation of tunnel junctions by applied ac stress in carbon polyvinylchloride composites. <i>Physical Review B</i> , 1981 , 24, 6131-6134	3.3	35
261	Melting transition of small molecular clusters. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, L565-L569		35
260	Electron localization in metal-decorated graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	34
259	Fluctuation-induced tunneling conduction through nanoconstrictions. <i>Physical Review B</i> , 2009 , 79,	3.3	34
258	Theoretical studies on the transmission and reflection properties of metallic planar fractals. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 368-373	3	34
257	Quantum interference and the giant Hall effect in percolating systems. <i>Physical Review B</i> , 2002 , 66,	3.3	34
256	Multiple scattering noise in one dimension: Universality through localization length scaling. <i>Physical Review Letters</i> , 1986 , 57, 1000-1003	7.4	34
255	The Coulomb quasigap and the metal-insulator transition in granular systems. <i>Journal of Physics C: Solid State Physics</i> , 1984 , 17, L93-L96		34
254	Direct measurement of friction of a fluctuating contact line. <i>Physical Review Letters</i> , 2013 , 111, 026101	7.4	33
253	Soft silicone rubber in phononic structures: Correct elastic moduli. <i>Physical Review B</i> , 2013 , 88,	3.3	33
252	Fabrication of iron oxide/silica core-shell nanoparticles and their magnetic characteristics. <i>Journal of Alloys and Compounds</i> , 2012 , 543, 43-48	5.7	33

251	Multiple scattering theory and its application to photonic band gap systems consisting of coated spheres. <i>Optics Express</i> , 2001 , 8, 203-8	3-3	33
250	Geometric effects in continuous-media percolation. <i>Physical Review B</i> , 1982 , 26, 1331-1335	3-3	33
249	An energetic variational approach for ion transport. <i>Communications in Mathematical Sciences</i> , 2014 , 12, 779-789	1	33
248	Superconducting resistive transition in coupled arrays of 4 π carbon nanotubes. <i>Physical Review B</i> , 2010 , 81,	3-3	31
247	Nematic-isotropic phase transition: An extended mean field theory. <i>Physical Review Letters</i> , 1993 , 70, 1271-1274	7-4	31
246	Photonic bandtail in 1D randomly-perturbed periodic systems. <i>Optics Communications</i> , 1993 , 98, 231-235		31
245	Regulating Top-Surface Multilayer/Single-Crystal Graphene Growth by π -Ettering π Carbon Diffusion at Backside of the Copper Foil. <i>Advanced Functional Materials</i> , 2017 , 27, 1700121	15.6	30
244	Towards anti-causal Green π function for three-dimensional sub-diffraction focusing. <i>Nature Physics</i> , 2018 , 14, 608-612	16.2	30
243	"Giant" enhancement of the upper critical field and fluctuations above the bulk T _c in superconducting ultrathin lead nanowire arrays. <i>ACS Nano</i> , 2013 , 7, 4187-93	16.7	30
242	Electrorheological fluid dynamics. <i>Physical Review Letters</i> , 2008 , 101, 194503	7-4	30
241	Development of an atomic-force-microscope-based hanging-fiber rheometer for interfacial microrheology. <i>Physical Review E</i> , 2009 , 80, 061604	2-4	29
240	Novel properties of 0.4 nm single-walled carbon nanotubes templated in the channels of AlPO ₄₋₅ single crystals. <i>New Journal of Physics</i> , 2003 , 5, 146-146	2-9	29
239	Smart electroresponsive droplets in microfluidics. <i>Soft Matter</i> , 2012 , 8, 11589	3-6	28
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