

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132 papers	15,875 citations	52 h-index	125 g-index
134 ext. papers	16,903 ext. citations	7 avg, IF	6.14 L-index

#	Paper	IF	Citations
132	Unusual consequences of donor and acceptor doping on the thermoelectric properties of the MgAg _{0.97} Sb _{0.99} alloy. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2600-2611	13	4
131	Investigation of the bipolar effect in the thermoelectric material CaMg ₂ Bi ₂ using a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16566-74	3.6	47
130	Predicting high thermoelectric performance of ABX ternary compounds NaMgX (X = P, Sb, As) with weak electron-phonon coupling and strong bonding anharmonicity. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3281-3289	7.1	32
129	Full-scale computation for all the thermoelectric property parameters of half-Heusler compounds. <i>Scientific Reports</i> , 2016 , 6, 22778	4.9	67
128	Optimizing the thermoelectric performance of low-temperature SnSe compounds by electronic structure design. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13365-13370	13	47
127	High thermoelectric conversion efficiency of MgAgSb-based material with hot-pressed contacts. <i>Energy and Environmental Science</i> , 2015 , 8, 1299-1308	35.4	114
126	Enhanced Thermoelectric Performance of Te-doped FeSb(₂) Nanocomposite. <i>Journal of Low Temperature Physics</i> , 2014 , 176, 122-130	1.3	3
125	Sonochemical synthesis of hierarchical ZnO nanostructures. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 395-400	8.9	144
124	Study on the effect of Pb partial substitution for Te on the thermoelectric properties of La ₃ Te ₄ -Pbx materials. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 185303	3	9
123	Perspectives on thermoelectrics: from fundamentals to device applications. <i>Energy and Environmental Science</i> , 2012 , 5, 5147-5162	35.4	925
122	Thermoelectric properties of Ho-doped Bi _{0.88} Sb _{0.12} . <i>Journal of Materials Science</i> , 2012 , 47, 5729-5734	4.3	7
121	Transport properties of Ni, Co, Fe, Mn doped Cu _{0.01} Bi ₂ Te _{2.7} Se _{0.3} for thermoelectric device applications. <i>Journal of Applied Physics</i> , 2012 , 112, 054509	2.5	13
120	Enhanced thermoelectric figure of merit of p-type half-Heuslers. <i>Nano Letters</i> , 2011 , 11, 556-60	11.5	326
119	Physics and applications of aligned carbon nanotubes. <i>Advances in Physics</i> , 2011 , 60, 553-678	18.4	108
118	Nanocoax solar cells based on aligned multiwalled carbon nanotube arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 924-927	1.6	21
117	The evolution of carbon nanotubes during their growth by plasma enhanced chemical vapor deposition. <i>Nanotechnology</i> , 2011 , 22, 405601	3.4	12
116	Effect of selenium deficiency on the thermoelectric properties of n-type In ₄ Se ₃ compounds. <i>Physical Review B</i> , 2011 , 83,	3.3	57

115	Effects of nanoscale porosity on thermoelectric properties of SiGe. <i>Journal of Applied Physics</i> , 2010 , 107, 094308	2.5	152
114	Effect of filler mass and binding on thermal conductivity of fully filled skutterudites. <i>Physical Review B</i> , 2010 , 82,	3.3	18
113	Efficient nanocoax-based solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 181-183	2.5	77
112	Experimental studies on anisotropic thermoelectric properties and structures of n-type Bi ₂ Te _{2.7} Se _{0.3} . <i>Nano Letters</i> , 2010 , 10, 3373-8	11.5	524
111	Hot electron effect in nanoscopically thin photovoltaic junctions. <i>Applied Physics Letters</i> , 2009 , 95, 23312	3.14	37
110	Thermoelectric properties and efficiency measurements under large temperature differences. <i>Review of Scientific Instruments</i> , 2009 , 80, 093901	1.7	49
109	The Promise of Nanocomposite Thermoelectric Materials. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1166, 1		1
108	Assembly of multi-functional nanocomponents on periodic nanotube array for biosensors. <i>Micro and Nano Letters</i> , 2009 , 4, 27-33	0.9	12
107	New composite thermoelectric materials for energy harvesting applications. <i>Jom</i> , 2009 , 61, 86-90	2.1	36
106	Bulk nanostructured thermoelectric materials: current research and future prospects. <i>Energy and Environmental Science</i> , 2009 , 2, 466	35.4	1448
105	Increased phonon scattering by nanograins and point defects in nanostructured silicon with a low concentration of germanium. <i>Physical Review Letters</i> , 2009 , 102, 196803	7.4	228
104	Solubility study of Yb in n-type skutterudites Yb _x Co ₄ Sb ₁₂ and their enhanced thermoelectric properties. <i>Physical Review B</i> , 2009 , 80,	3.3	92
103	Modeling study of thermoelectric SiGe nanocomposites. <i>Physical Review B</i> , 2009 , 80,	3.3	160
102	Enhancement of Thermoelectric Figure-of-Merit by a Nanostructure Approach. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1166, 3		4
101	Enhanced thermoelectric figure of merit in nanostructured n-type silicon germanium bulk alloy. <i>Applied Physics Letters</i> , 2008 , 93, 193121	3.4	560
100	Interaction between carbon nanotubes and mammalian cells: characterization by flow cytometry and application. <i>Nanotechnology</i> , 2008 , 19, 1-10	3.4	584
99	Discretely guided electromagnetic effective medium. <i>Applied Physics Letters</i> , 2008 , 92, 043114	3.4	12
98	Diffusion of nickel and tin in p-type (Bi,Sb) ₂ Te ₃ and n-type Bi ₂ (Te,Se) ₃ thermoelectric materials. <i>Applied Physics Letters</i> , 2008 , 92, 101910	3.4	80

97	Enhanced ductile behavior of tensile-elongated individual double-walled and triple-walled carbon nanotubes at high temperatures. <i>Physical Review Letters</i> , 2007 , 98, 185501	7.4	51
96	Near-infrared photoluminescence in germanium oxide enclosed germanium nano- and micro-crystals. <i>Nanotechnology</i> , 2007 , 18, 075707	3.4	6
95	Electrostatic-Force-Directed Assembly of Ag Nanocrystals onto Vertically Aligned Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17919-17922	3.8	32
94	Carbon nanotube-mediated delivery of nucleic acids does not result in non-specific activation of B lymphocytes. <i>Nanotechnology</i> , 2007 , 18, 365101	3.4	21
93	Field emission of silicon nanowires grown on carbon cloth. <i>Applied Physics Letters</i> , 2007 , 90, 033112	3.4	47
92	A hot-wire probe for thermal measurements of nanowires and nanotubes inside a transmission electron microscope. <i>Review of Scientific Instruments</i> , 2007 , 78, 104903	1.7	42
91	Surface phase separation in nanosized charge-ordered manganites. <i>Applied Physics Letters</i> , 2007 , 90, 082508	3.4	108
90	Subwavelength waveguide for visible light. <i>Applied Physics Letters</i> , 2007 , 90, 021104	3.4	58
89	Aligned carbon nanofibres by a low-energy dark discharge for field emission and optoelectronics. <i>Nanotechnology</i> , 2006 , 17, 501-505	3.4	6
88	Kink formation and motion in carbon nanotubes at high temperatures. <i>Physical Review Letters</i> , 2006 , 97, 075501	7.4	70
87	Field emission of silicon nanowires. <i>Applied Physics Letters</i> , 2006 , 88, 213108	3.4	42
86	Enhancement of field emission of aligned carbon nanotubes by thermal oxidation. <i>Applied Physics Letters</i> , 2006 , 89, 223119	3.4	40
85	Visible light diffraction studies on periodically aligned arrays of carbon nanotubes: Experimental and theoretical comparison. <i>Applied Physics Letters</i> , 2006 , 88, 203122	3.4	25
84	Real-time observation of tubule formation from amorphous carbon nanowires under high-bias Joule heating. <i>Nano Letters</i> , 2006 , 6, 1699-705	11.5	101
83	A-site disorder induced collapse of charge-ordered state and phase separated phase in manganites. <i>Applied Physics Letters</i> , 2006 , 89, 222505	3.4	29
82	Preparation and photoabsorption characterization of BiFeO ₃ nanowires. <i>Applied Physics Letters</i> , 2006 , 89, 102506	3.4	305
81	Broadband ZnO single-nanowire light-emitting diode. <i>Nano Letters</i> , 2006 , 6, 1719-22	11.5	491
80	Ferromagnetic metal to cluster-glass insulator transition induced by A-site disorder in manganites. <i>Applied Physics Letters</i> , 2006 , 88, 152505	3.4	16

79	Superplastic carbon nanotubes. <i>Nature</i> , 2006 , 439, 281	50.4	303
78	Atomic-scale imaging of wall-by-wall breakdown and concurrent transport measurements in multiwall carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 94, 236802	7.4	184
77	Improved superlensing in two-dimensional photonic crystals with a basis. <i>Applied Physics Letters</i> , 2005 , 86, 061105	3.4	20
76	Triangular lattice of carbon nanotube arrays for negative index of refraction and subwavelength lensing effect. <i>Applied Physics Letters</i> , 2005 , 86, 153120	3.4	14
75	Synthesis of multiwalled carbon nanotubes through a modified Wolff-Kishner reduction process. <i>Journal of the American Chemical Society</i> , 2005 , 127, 18018-9	16.4	20
74	Low temperature solvothermal synthesis of multiwall carbon nanotubes. <i>Nanotechnology</i> , 2005 , 16, 21-23	3.4	31
73	High-yield synthesis of single-crystalline antimony telluride hexagonal nanoplates using a solvothermal approach. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13792-3	16.4	174
72	Effect of temperature, pressure, and gas ratio of methane to hydrogen on the synthesis of double-walled carbon nanotubes by chemical vapour deposition. <i>Nanotechnology</i> , 2005 , 16, 532-535	3.4	49
71	Spectroscopic studies of arrays of multiwalled carbon nanotubes 2005 , 5931, 242		1
70	Optical antenna arrays of carbon nanotubes and their fabrication on polyimide and transparent conducting oxides for direct device integration 2005 , 6003, 127		
69	Nanomaterials fabrication and physics 2005 , 6002, 181		
68	Ex-Situ Processing of Ti-Containing Films 2005 , 275-316		
67	Synthesis of gram-scale germanium nanocrystals by a low-temperature inverse micelle solvothermal route. <i>Nanotechnology</i> , 2005 , 16, 1126-1129	3.4	28
66	Large-scale triangular lattice arrays of sub-micron islands by microsphere self-assembly. <i>Nanotechnology</i> , 2005 , 16, 819-822	3.4	23
65	Plasma deposition of thin carbonfluorine films on aligned carbon nanotube. <i>Applied Physics Letters</i> , 2005 , 86, 043107	3.4	12
64	Giant field enhancement at carbon nanotube tips induced by multistage effect. <i>Applied Physics Letters</i> , 2005 , 87, 053110	3.4	92
63	High-bias-induced structure and the corresponding electronic property changes in carbon nanotubes. <i>Applied Physics Letters</i> , 2005 , 87, 263107	3.4	39
62	Synthesis and characterization of La _{0.825} Sr _{0.175} MnO ₃ nanowires. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L467-L475	1.8	30

61	Field emission of carbon nanotubes grown on carbon cloth. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 2363		24
60	Superconductor Bi-oxide films via an electrodeposition process. <i>Superconductor Science and Technology</i> , 2004 , 17, 120-124	3.1	3
59	Correlation of field emission and surface microstructure of vertically aligned carbon nanotubes. <i>Applied Physics Letters</i> , 2004 , 84, 413-415	3.4	67
58	Transplanting carbon nanotubes. <i>Applied Physics Letters</i> , 2004 , 85, 5995-5997	3.4	20
57	Field emission of carbon nanotubes grown on carbon cloth. <i>Applied Physics Letters</i> , 2004 , 85, 810-812	3.4	82
56	Synthesis and photoluminescence studies on ZnO nanowires. <i>Nanotechnology</i> , 2004 , 15, 404-409	3.4	96
55	Enhanced Field Emission of ZnO Nanowires. <i>Advanced Materials</i> , 2004 , 16, 2028-2032	24	230
54	Rapid photon flux switching in two-dimensional photonic crystals. <i>Applied Physics Letters</i> , 2004 , 84, 1817-1819	3.4	20
53	Receiving and transmitting light-like radio waves: Antenna effect in arrays of aligned carbon nanotubes. <i>Applied Physics Letters</i> , 2004 , 85, 2607-2609	3.4	206
52	Periodicity and alignment of large-scale carbon nanotubes arrays. <i>Applied Physics Letters</i> , 2004 , 85, 4741-4743	3.4	39
51	Formation of Super Arrays of Periodic Nanoparticles and Aligned ZnO Nanorods [Simulation and Experiments]. <i>Nano Letters</i> , 2004 , 4, 2037-2040	11.5	81
50	Field emission of zinc oxide nanowires grown on carbon cloth. <i>Applied Physics Letters</i> , 2004 , 85, 1407-1409	3.4	161
49	Unrestricted superlensing in a triangular two dimensional photonic crystal. <i>Optics Express</i> , 2004 , 12, 2919-2924	3.4	116
48	Making carbon nanotube probes for high aspect ratio scanning probe metrology 2003 ,		3
47	Nanoelectrode Arrays Based on Low Site Density Aligned Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 107-109	11.5	127
46	Field-emission studies on thin films of zinc oxide nanowires. <i>Applied Physics Letters</i> , 2003 , 83, 4821-4823	3.4	250
45	Growth of large periodic arrays of carbon nanotubes. <i>Applied Physics Letters</i> , 2003 , 82, 460-462	3.4	133
44	ZnO Nanobridges and Nanonails. <i>Nano Letters</i> , 2003 , 3, 235-238	11.5	582

43	Photonic Crystals Based on Periodic Arrays of Aligned Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 13-18	11.5	251
42	Plasma Coating and Enhanced Dispersion of Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 791, 1		2
41	Effect of length and spacing of vertically aligned carbon nanotubes on field emission properties. <i>Applied Physics Letters</i> , 2003 , 82, 3520-3522	3.4	230
40	Large-quantity free-standing ZnO nanowires. <i>Applied Physics Letters</i> , 2003 , 83, 2061-2063	3.4	157
39	Growth and Characterizations of Well-Aligned Carbon Nanotubes 2003 , 133-140		
38	Boron carbide nanolumps on carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 80, 500-502	3.4	30
37	SYNTHESIS OF AMORPHOUS SiO _x NANOSTRUCTURES. <i>International Journal of Nanoscience</i> , 2002 , 01, 149-157	0.6	9
36	Structural studies of electrodeposited and sprayed thallium-oxide films. <i>Superconductor Science and Technology</i> , 2002 , 15, 1288-1294	3.1	8
35	Using carbon nanotube cantilevers in scanning probe metrology 2002 ,		3
34	Growth of aligned carbon nanotubes with controlled site density. <i>Applied Physics Letters</i> , 2002 , 80, 4018-4020	3.4	148
33	Carbon nanotube/carbon fiber hybrid multiscale composites. <i>Journal of Applied Physics</i> , 2002 , 91, 6034-6037	3.7	635
32	Growth and characterization of aligned carbon nanotubes from patterned nickel nanodots and uniform thin films. <i>Journal of Materials Research</i> , 2001 , 16, 3246-3253	2.5	58
31	Straight carbon nanotube Y junctions. <i>Applied Physics Letters</i> , 2001 , 79, 1879-1881	3.4	102
30	Fabrication of Freestanding Carbon Nanotube Arrays in Large Scale. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 633, 13221		2
29	Synthesis and characterization of thallium-based 1212 films with high critical current density on LaAlO ₃ substrates. <i>Superconductor Science and Technology</i> , 2000 , 13, 173-177	3.1	14
28	Large arrays of well-aligned carbon nanotubes 1999 ,		1
27	Systematics of c-axis phonons in the thallium- and bismuth-based cuprate superconductors. <i>Physical Review B</i> , 1999 , 60, 13196-13205	3.3	30
26	c-axis penetration depth and interlayer conductivity in the thallium-based cuprate superconductors. <i>Physical Review B</i> , 1999 , 60, R15051-R15054	3.3	16

25	TL Cuprate Superconductors Studied by XPS. <i>Surface Science Spectra</i> , 1999 , 6, 237-253	1.2	
24	Chemical bonding in TL cuprates studied by x-ray photoemission. <i>Physical Review B</i> , 1999 , 60, 4309-4319	3.3	20
23	Growth of a single freestanding multiwall carbon nanotube on each nanonickel dot. <i>Applied Physics Letters</i> , 1999 , 75, 1086-1088	3.4	346
22	Epitaxial superconducting $Tl_{0.5}Pb_{0.5}Sr_{1.6}Ba_{0.4}Ca_2Cu_3O_9$ films on $LaAlO_3$ by thermal spray and post-spray annealing. <i>Superconductor Science and Technology</i> , 1999 , 12, L1-L4	3.1	13
21	Anisotropy Induced Crossover from Fractal to Non-Fractal Flux Penetration in High- T_c thin Films 1999 , 291-306		
20	Epitaxial Film Growth of $Tl_{0.78}Bi_{0.22}Sr_{1.6}Ba_{0.4}Ca_2Cu_3O_9$ on Rolling Assisted Biaxially Textured Nickel Substrates with YSZ And CeO_2 Buffer Layers. <i>Journal of Superconductivity and Novel Magnetism</i> , 1998 , 11, 159-161		17
19	Global and local measures of the intrinsic Josephson coupling in $Tl_2Ba_2CuO_6$ as a test of the interlayer tunnelling model. <i>Nature</i> , 1998 , 395, 360-362	50.4	96
18	Synthesis of large arrays of well-aligned carbon nanotubes on glass. <i>Science</i> , 1998 , 282, 1105-7	33.3	2077
17	$Tl_2Ba_2CuO_6$ by XPS. <i>Surface Science Spectra</i> , 1998 , 5, 304-312	1.2	3
16	Growth of highly oriented carbon nanotubes by plasma-enhanced hot filament chemical vapor deposition. <i>Applied Physics Letters</i> , 1998 , 73, 3845-3847	3.4	240
15	Pairing symmetry from in-plane torque anisotropy in $Tl_2Ba_2CuO_6$ thin films. <i>Physical Review B</i> , 1998 , 57, 6137-6144	3.3	29
14	Crossover between fractal and nonfractal flux penetration in high-temperature superconducting thin films. <i>Physical Review B</i> , 1998 , 58, 12467-12477	3.3	25
13	Continuous control of the superconducting transition temperature from overdoped to underdoped regimes in tetragonal $Tl_2Ba_2CuO_6$ thin films. <i>Applied Physics Letters</i> , 1997 , 71, 1706-1708	3.4	13
12	Experimental test of the interlayer pairing models for high- T_c superconductivity using grazing-incidence infrared reflectometry. <i>Physical Review B</i> , 1997 , 55, 11118-11121	3.3	44
11	Pure $d_{x^2-y^2}$ order-parameter symmetry in the tetragonal superconductor $Tl_2Ba_2CuO_6$ <i>Nature</i> , 1997 , 387, 481-483	50.4	108
10	Pairing Symmetry in Single-Layer Tetragonal Tl_2Ba_2CuO [IMAGE] Superconductors. <i>Science</i> , 1996 , 271, 329-332	33.3	199
9	Half-integer flux quantum effect in cuprate superconductors as a probe of pairing symmetry. <i>Physica Scripta</i> , 1996 , T66, 212-214	2.6	1
8	Scanning SQUID microscope tests of the symmetry of the high- T_c gap. <i>European Physical Journal D</i> , 1996 , 46, 3169-3176		6

7	Electronic structure of $\text{Ti}_2\text{Ba}_2\text{CuO}_6 + \delta$ epitaxial films measured by x-ray photoemission. <i>Physical Review B</i> , 1996 , 54, 6115-6118	3-3	9
6	The structural symmetry of epitaxial $\text{Ti}_2\text{Ba}_2\text{CuO}_6 + \delta$ thin films. <i>Applied Physics Letters</i> , 1996 , 69, 1798-1800	3-4	23
5	Fabrication of Ag-clad $(\text{Ti}, \text{V})(\text{Sr}, \text{Ba})_2\text{Ca}_2\text{Cu}_3\text{O}_y$ superconducting tapes. <i>Superconductor Science and Technology</i> , 1995 , 8, 174-176	3-1	4
4	Superconducting epitaxial $(\text{Ti}, \text{Bi})\text{Sr}_{1.6}\text{Ba}_{0.4}\text{Ca}_2\text{Cu}_3\text{O}_{9-x}$ film with high critical current in magnetic field. <i>Applied Physics Letters</i> , 1994 , 65, 237-239	3-4	31
3	Superior flux pinning in in situ synthesized silver-sheathed superconducting tape of $\text{Ti}_{0.5}\text{Pb}_{0.5}\text{Sr}_{1.6}\text{Ba}_{0.4}\text{Ca}_{0.8}\text{Y}_{0.2}\text{Cu}_2\text{O}_y$. <i>Applied Physics Letters</i> , 1993 , 62, 3025-3027	3-4	21
2	Uniform and flexible 24-meter superconducting tape of silver-sheathed $\text{Ti}_{0.5}\text{Pb}_{0.5}\text{Ba}_{0.4}\text{Sr}_{1.6}\text{Ca}_2\text{Cu}_3\text{O}_{8.2}$. <i>Applied Physics Letters</i> , 1992 , 61, 1715-1717	3-4	42
1	Structural study of undoped and doped $\text{Bi}_2\text{Sr}_2\text{CuO}_6$ phases by transmission electron microscopy. <i>Applied Physics Letters</i> , 1989 , 55, 2775-2777	3-4	7