

# Alexander A Balandin

## List of Publications by Year in descending order

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328  
papers

47,607  
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3919

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1627

215  
g-index

328  
all docs

328  
docs citations

328  
times ranked

38127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior Thermal Conductivity of Single-Layer Graphene. Nano Letters, 2008, 8, 902-907.	4.5	11,726
2	Thermal properties of graphene and nanostructured carbon materials. Nature Materials, 2011, 10, 569-581.	13.3	5,065
3	Extremely high thermal conductivity of graphene: Prospects for thermal management applications in nanoelectronic circuits. Applied Physics Letters, 2008, 92, .	1.5	1,745
4	Grapheneâ€“Multilayer Graphene Nanocomposites as Highly Efficient Thermal Interface Materials. Nano Letters, 2012, 12, 861-867.	4.5	1,238
5	Dimensional crossover of thermal transport in few-layer graphene. Nature Materials, 2010, 9, 555-558.	13.3	1,198
6	Temperature Dependence of the Raman Spectra of Graphene and Graphene Multilayers. Nano Letters, 2007, 7, 2645-2649.	4.5	1,057
7	Thermal conductivity of isotopically modifiedÂgraphene. Nature Materials, 2012, 11, 203-207.	13.3	846
8	Phonon thermal conduction in graphene: Role of Umklapp and edge roughness scattering. Physical Review B, 2009, 79, .	1.1	836
9	Thermal properties of graphene and multilayer graphene: Applications in thermal interface materials. Solid State Communications, 2012, 152, 1331-1340.	0.9	689
10	Phonon heat conduction in a semiconductor nanowire. Journal of Applied Physics, 2001, 89, 2932-2938.	1.1	589
11	Significant decrease of the lattice thermal conductivity due to phonon confinement in a free-standing semiconductor quantum well. Physical Review B, 1998, 58, 1544-1549.	1.1	573
12	Micro-Raman investigation of optical phonons in ZnO nanocrystals. Journal of Applied Physics, 2005, 97, 124313.	1.1	556
13	Low-frequency 1/f noise in graphene devices. Nature Nanotechnology, 2013, 8, 549-555.	15.6	505
14	Strongly Anisotropic Thermal Conductivity of Freeâ€“standing Reduced Graphene Oxide Films Annealed at High Temperature. Advanced Functional Materials, 2015, 25, 4664-4672.	7.8	462
15	Lattice thermal conductivity of graphene flakes: Comparison with bulk graphite. Applied Physics Letters, 2009, 94, 203103.	1.5	461
16	Graphene quilts for thermal management of high-power GaN transistors. Nature Communications, 2012, 3, 827.	5.8	435
17	Graphene-enhanced hybrid phase change materials for thermal management of Li-ion batteries. Journal of Power Sources, 2014, 248, 37-43.	4.0	409
18	Exfoliation and Characterization of Bismuth Telluride Atomic Quintuples and Quasi-Two-Dimensional Crystals. Nano Letters, 2010, 10, 1209-1218.	4.5	405

#	ARTICLE	IF	CITATIONS
19	Modification of graphene properties due to electron-beam irradiation. Applied Physics Letters, 2009, 94, .	1.5	394
20	Photoluminescence investigation of the carrier recombination processes in ZnO quantum dots and nanocrystals. Physical Review B, 2006, 73, .	1.1	392
21	Selective Gas Sensing with a Single Pristine Graphene Transistor. Nano Letters, 2012, 12, 2294-2298.	4.5	361
22	Thermal conductivity of GaN films: Effects of impurities and dislocations. Journal of Applied Physics, 2002, 92, 2534-2539.	1.1	349
23	Origin of the optical phonon frequency shifts in ZnO quantum dots. Applied Physics Letters, 2005, 86, 053103.	1.5	347
24	Thermal properties of the hybrid graphene-metal nano-micro-composites: Applications in thermal interface materials. Applied Physics Letters, 2012, 100, .	1.5	338
25	Two-dimensional phonon transport in graphene. Journal of Physics Condensed Matter, 2012, 24, 233203.	0.7	333
26	Thermal Conductivity of Graphene Laminate. Nano Letters, 2014, 14, 5155-5161.	4.5	268
27	Micro-Raman spectroscopy of mechanically exfoliated few-quintuple layers of Bi <sub>2</sub> Te <sub>3</sub> , Bi <sub>2</sub> Se <sub>3</sub> , and Sb <sub>2</sub> Te <sub>3</sub> materials. Journal of Applied Physics, 2012, 111, .	1.1	267
28	Origin of ultraviolet photoluminescence in ZnO quantum dots: Confined excitons versus surface-bound impurity exciton complexes. Applied Physics Letters, 2004, 85, 5971-5973.	1.5	266
29	Phononics in low-dimensional materials. Materials Today, 2012, 15, 266-275.	8.3	262
30	Thermal Properties of Grapheneâ€“Copperâ€“Graphene Heterogeneous Films. Nano Letters, 2014, 14, 1497-1503.	4.5	260
31	Graphene Thermal Properties: Applications in Thermal Management and Energy Storage. Applied Sciences (Switzerland), 2014, 4, 525-547.	1.3	258
32	Towards Ultrathick Battery Electrodes: Aligned Carbon Nanotube â€“ Enabled Architecture. Advanced Materials, 2012, 24, 533-537.	11.1	257
33	Phonons and thermal transport in graphene and graphene-based materials. Reports on Progress in Physics, 2017, 80, 036502.	8.1	249
34	Anomalous Size Dependence of the Thermal Conductivity of Graphene Ribbons. Nano Letters, 2012, 12, 3238-3244.	4.5	247
35	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. ACS Applied Materials & Interfaces, 2018, 10, 37555-37565.	4.0	243
36	Ultraviolet Raman microscopy of single and multilayer graphene. Journal of Applied Physics, 2009, 106, .	1.1	218

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37	Thermal conduction in Al <sub>x</sub> Ga <sub>1-x</sub> N alloys and thin films. <i>Journal of Applied Physics</i> , 2005, 97, 073710.	1.1	215
38	The effect of substrates on the Raman spectrum of graphene: Graphene- on-sapphire and graphene-on-glass. <i>Applied Physics Letters</i> , 2007, 91, 201904.	1.5	213
39	Heat conduction in graphene: experimental study and theoretical interpretation. <i>New Journal of Physics</i> , 2009, 11, 095012.	1.2	213
40	Effect of phonon confinement on the thermoelectric figure of merit of quantum wells. <i>Journal of Applied Physics</i> , 1998, 84, 6149-6153.	1.1	209
41	High-temperature quenching of electrical resistance in graphene interconnects. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	205
42	Effects of Functionalization on Thermal Properties of Single-Wall and Multi-Wall Carbon Nanotube-Polymer Nanocomposites. <i>ACS Nano</i> , 2013, 7, 5114-5121.	7.3	205
43	Excitonic properties of strained wurtzite and zinc-blende GaN/Al <sub>x</sub> Ga <sub>1-x</sub> N quantum dots. <i>Journal of Applied Physics</i> , 2003, 94, 7178-7186.	1.1	202
44	Thermal conductivity of diamond-like carbon films. <i>Applied Physics Letters</i> , 2006, 89, 161921.	1.5	202
45	Miniband formation in a quantum dot crystal. <i>Journal of Applied Physics</i> , 2001, 89, 5509-5515.	1.1	187
46	Thermal conductivity of graphene with defects induced by electron beam irradiation. <i>Nanoscale</i> , 2016, 8, 14608-14616.	2.8	187
47	Dual-Functional Graphene Composites for Electromagnetic Shielding and Thermal Management. <i>Advanced Electronic Materials</i> , 2019, 5, 1800558.	2.6	183
48	Thermal Properties of the Binary-Filler Hybrid Composites with Graphene and Copper Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 1904008.	7.8	179
49	A charge-density-wave oscillator based on an integrated tantalum disulfide-boron nitride-graphene device operating at room temperature. <i>Nature Nanotechnology</i> , 2016, 11, 845-850.	15.6	170
50	Triple-Mode Single-Transistor Graphene Amplifier and Its Applications. <i>ACS Nano</i> , 2010, 4, 5532-5538.	7.3	168
51	Intermediate-band solar cells based on quantum dot supracrystals. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	167
52	Phonons in twisted bilayer graphene. <i>Physical Review B</i> , 2013, 88, .	1.1	167
53	Magnetically-functionalized self-aligning graphene fillers for high-efficiency thermal management applications. <i>Materials and Design</i> , 2015, 88, 214-221.	3.3	166
54	Variable temperature Raman microscopy as a nanometrology tool for graphene layers and graphene-based devices. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	163

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55	Mechanically-exfoliated stacks of thin films of Bi <sub>2</sub> Te <sub>3</sub> topological insulators with enhanced thermoelectric performance. Applied Physics Letters, 2010, 97, .	1.5	163
56	Graphene-on-Diamond Devices with Increased Current-Carrying Capacity: Carbon sp <sup>2</sup> -on-sp <sup>3</sup> Technology. Nano Letters, 2012, 12, 1603-1608.	4.5	163
57	Graphene related materials for thermal management. 2D Materials, 2020, 7, 012001.	2.0	161
58	Crystal symmetry breaking in few-quintuple Bi <sub>2</sub> Te <sub>3</sub> films: Applications in nanometrology of topological insulators. Applied Physics Letters, 2010, 96, .	1.5	159
59	Nanophononics: Phonon Engineering in Nanostructures and Nanodevices. Journal of Nanoscience and Nanotechnology, 2005, 5, 1015-1022.	0.9	154
60	Charge Density Waves in Exfoliated Films of van der Waals Materials: Evolution of Raman Spectrum in TiSe <sub>2</sub> . Nano Letters, 2012, 12, 5941-5945.	4.5	154
61	Phononics of Graphene and Related Materials. ACS Nano, 2020, 14, 5170-5178.	7.3	154
62	Mechanism for thermoelectric figure-of-merit enhancement in regimented quantum dot superlattices. Applied Physics Letters, 2003, 82, 415-417.	1.5	152
63	Interface and confined optical phonons in wurtzite nanocrystals. Physical Review B, 2004, 70, .	1.1	145
64	Thermal conductivity of twisted bilayer graphene. Nanoscale, 2014, 6, 13402-13408.	2.8	136
65	Atomically-thin crystalline films and ribbons of bismuth telluride. Applied Physics Letters, 2010, 96, .	1.5	125
66	Low-frequency electronic noise in the double-gate single-layer graphene transistors. Applied Physics Letters, 2009, 95, .	1.5	124
67	Growth of large-area graphene films from metal-carbon melts. Journal of Applied Physics, 2010, 108, .	1.1	123
68	Effect of dislocations on thermal conductivity of GaN layers. Applied Physics Letters, 2001, 79, 4316-4318.	1.5	121
69	ZnO Quantum Dots: Physical Properties and Optoelectronic Applications. Journal of Nanoelectronics and Optoelectronics, 2006, 1, 19-38.	0.1	121
70	Raman-based technique for measuring thermal conductivity of graphene and related materials. Journal of Raman Spectroscopy, 2018, 49, 106-120.	1.2	119
71	Temperature dependence of thermal conductivity of Al <sub>x</sub> Ga <sub>1-x</sub> N thin films measured by the differential 3 $\sigma$ technique. Applied Physics Letters, 2004, 85, 5230-5232.	1.5	115
72	Raman nanometrology of graphene: Temperature and substrate effects. Solid State Communications, 2009, 149, 1132-1135.	0.9	115

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73	Radiative lifetime of excitons in ZnO nanocrystals: The dead-layer effect. <i>Physical Review B</i> , 2004, 70, .	1.1	112
74	Selective chemical vapor sensing with few-layer MoS <sub>2</sub> thin-film transistors: Comparison with graphene devices. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	112
75	Heat Removal in Silicon-on-Insulator Integrated Circuits With Graphene Lateral Heat Spreaders. <i>IEEE Electron Device Letters</i> , 2009, 30, 1281-1283.	2.2	110
76	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	109
77	Electrical and noise characteristics of graphene field-effect transistors: ambient effects, noise sources and physical mechanisms. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 395302.	0.7	106
78	Flicker Noise in Bilayer Graphene Transistors. <i>IEEE Electron Device Letters</i> , 2009, 30, 288-290.	2.2	105
79	Low-frequency $1/f$ noise in MoS <sub>2</sub> transistors: Relative contributions of the channel and contacts. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	104
80	Electron and phonon energy spectra in a three-dimensional regimented quantum dot superlattice. <i>Physical Review B</i> , 2002, 66, .	1.1	102
81	Thermal and electrical conductivity control in hybrid composites with graphene and boron nitride fillers. <i>Materials Research Express</i> , 2019, 6, 085325.	0.8	101
82	Origin of $1/f$ noise in graphene multilayers: Surface vs. volume. <i>Applied Physics Letters</i> , 2013, 102, 093111.	1.5	100
83	Phonon Engineering in Hetero- and Nanostructures. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2007, 2, 140-170.	0.1	98
84	Exciton states and optical transitions in colloidal CdS quantum dots: Shape and dielectric mismatch effects. <i>Physical Review B</i> , 2002, 66, .	1.1	97
85	Acoustic-phonon propagation in rectangular semiconductor nanowires with elastically dissimilar barriers. <i>Physical Review B</i> , 2005, 72, .	1.1	97
86	Electrothermal simulation of the self-heating effects in GaN-based field-effect transistors. <i>Journal of Applied Physics</i> , 2006, 100, 054501.	1.1	94
87	Zone-Folded Phonons and the Commensurate-Incommensurate Charge-Density-Wave Transition in $1T-TaSe_2$ Thin Films. <i>Nano Letters</i> , 2015, 15, 2965-2973.	4.5	94
88	The influence of chemical reactivity of surface defects on ambient-stable InSe-based nanodevices. <i>Nanoscale</i> , 2016, 8, 8474-8479.	2.8	92
89	Suppression of $1/f$ noise in near-ballistic $h$ -BN-graphene- $h$ -BN heterostructure field-effect transistors. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	85
90	Thermal properties of graphene and few-layer graphene: applications in electronics. <i>IET Circuits, Devices and Systems</i> , 2015, 9, 4-12.	0.9	82

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91	Breakdown current density in h-BN-capped quasi-1D TaSe <sub>3</sub> metallic nanowires: prospects of interconnect applications. <i>Nanoscale</i> , 2016, 8, 15774-15782.	2.8	79
92	Polar optical phonons in wurtzite spheroidal quantum dots: theory and application to ZnO and ZnO/MgZnO nanostructures. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 1085-1097.	0.7	78
93	Giant Enhancement of the Carrier Mobility in Silicon Nanowires with Diamond Coating. <i>Nano Letters</i> , 2006, 6, 2442-2446.	4.5	78
94	Multifunctional Graphene Composites for Electromagnetic Shielding and Thermal Management at Elevated Temperatures. <i>Advanced Electronic Materials</i> , 2020, 6, 2000520.	2.6	78
95	Thermal conduction in nanocrystalline diamond films: Effects of the grain boundary scattering and nitrogen doping. <i>Applied Physics Letters</i> , 2006, 89, 171915.	1.5	77
96	Thermal interface materials with graphene fillers: review of the state of the art and outlook for future applications. <i>Nanotechnology</i> , 2021, 32, 142003.	1.3	76
97	Phonon spectrum and group velocities in AlN/GaN/AlN and related heterostructures. <i>Superlattices and Microstructures</i> , 2003, 33, 155-171.	1.4	74
98	Phonon and thermal properties of exfoliated TaSe <sub>2</sub> thin films. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	74
99	Coexistence of Magnetic Orders in Two-Dimensional Magnet CrI <sub>3</sub> . <i>Nano Letters</i> , 2020, 20, 553-558.	4.5	74
100	Low-Frequency Electronic Noise in Quasi-1D TaSe <sub>3</sub> van der Waals Nanowires. <i>Nano Letters</i> , 2017, 17, 377-383.	4.5	73
101	Tuning of Graphene Properties via Controlled Exposure to Electron Beams. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 865-870.	1.1	72
102	Theoretical description of thermal transport in graphene: The issues of phonon cutoff frequencies and polarization branches. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2609-2614.	0.7	72
103	Suppression of phonon heat conduction in cross-section-modulated nanowires. <i>Physical Review B</i> , 2012, 85, .	1.1	72
104	Noncuring Graphene Thermal Interface Materials for Advanced Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 1901303.	2.6	72
105	Selective Sensing of Individual Gases Using Graphene Devices. <i>IEEE Sensors Journal</i> , 2013, 13, 2818-2822.	2.4	71
106	Direct observation of confined acoustic phonon polarization branches in free-standing semiconductor nanowires. <i>Nature Communications</i> , 2016, 7, 13400.	5.8	71
107	Specific heat of twisted bilayer graphene: Engineering phonons by atomic plane rotations. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	70
108	Metal-induced rapid transformation of diamond into single and multilayer graphene on wafer scale. <i>Nature Communications</i> , 2016, 7, 12099.	5.8	70

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109	High-Throughput Large-Area Automated Identification and Quality Control of Graphene and Few-Layer Graphene Films. ACS Nano, 2011, 5, 914-922.	7.3	69
110	Thermal conductivity of ultrathin tetrahedral amorphous carbon films. Applied Physics Letters, 2008, 93, .	1.5	68
111	Epitaxial Graphene Nanoribbon Array Fabrication Using BCP-Assisted Nanolithography. ACS Nano, 2012, 6, 6786-6792.	7.3	68
112	Thermal and magnetic properties of nanostructured densified ferrimagnetic composites with graphene - graphite fillers. Materials and Design, 2017, 118, 75-80.	3.3	68
113	Thermoelectric effects in wurtzite GaN and Al <sub>x</sub> Ga <sub>1-x</sub> N alloys. Journal of Applied Physics, 2005, 97, 123705.	1.1	67
114	Low-Frequency Current Fluctuations in Graphene-like Exfoliated Thin-Films of Bismuth Selenide Topological Insulators. ACS Nano, 2011, 5, 2657-2663.	7.3	67
115	Plasmonic and bolometric terahertz detection by graphene field-effect transistor. Applied Physics Letters, 2013, 103, 181114.	1.5	66
116	Reduction of 1/f noise in graphene after electron-beam irradiation. Applied Physics Letters, 2013, 102, .	1.5	65
117	Reduction of lattice thermal conductivity in one-dimensional quantum-dot superlattices due to phonon filtering. Physical Review B, 2011, 84, .	1.1	64
118	Selective Gas Sensing With h-BN Capped MoS <sub>2</sub> Heterostructure Thin-Film Transistors. IEEE Electron Device Letters, 2015, 36, 1202-1204.	2.2	62
119	Thermal Conduction in Suspended Graphene Layers. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 474-486.	1.0	60
120	Graphene-based non-Boolean logic circuits. Journal of Applied Physics, 2013, 114, .	1.1	60
121	Thermal conductivity of nitrogenated ultrananocrystalline diamond films on silicon. Journal of Applied Physics, 2008, 103, .	1.1	59
122	Phonon and Thermal Properties of Quasi-Two-Dimensional FePS <sub>3</sub> and MnPS <sub>3</sub> Antiferromagnetic Semiconductors. ACS Nano, 2020, 14, 2424-2435.	7.3	58
123	ZnO growth on Si with low-temperature ZnO buffer layers by ECR-assisted MBE. Journal of Crystal Growth, 2006, 286, 61-65.	0.7	57
124	Current Carrying Capacity of Quasi-1D ZrTe <sub>3</sub> Van Der Waals Nanoribbons. IEEE Electron Device Letters, 2018, 39, 735-738.	2.2	57
125	Bias-Voltage Driven Switching of the Charge-Density-Wave and Normal Metallic Phases in 1T-TaS <sub>2</sub> Thin-Film Devices. ACS Nano, 2019, 13, 7231-7240.	7.3	57
126	Phonon Confinement Effects in Hybrid Virus-Inorganic Nanotubes for Nanoelectronic Applications. Nano Letters, 2005, 5, 1920-1923.	4.5	56



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127	Gating of Single-Layer Graphene with Single-Stranded Deoxyribonucleic Acids. <i>Small</i> , 2010, 6, 1150-1155.	5.2	56
128	Direct Low-Temperature Integration of Nanocrystalline Diamond with GaN Substrates for Improved Thermal Management of High-Power Electronics. <i>Advanced Functional Materials</i> , 2012, 22, 1525-1530.	7.8	56
129	Low Resistivity and High Breakdown Current Density of 10 nm Diameter van der Waals TaSe <sub>3</sub> Nanowires by Chemical Vapor Deposition. <i>Nano Letters</i> , 2019, 19, 4355-4361.	4.5	55
130	Thermal conductivity inhibition in phonon engineered core-shell cross-section modulated Si/Ge nanowires. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	54
131	Toward Lithium Ion Batteries with Enhanced Thermal Conductivity. <i>ACS Nano</i> , 2014, 8, 7202-7207.	7.3	54
132	Low-Frequency Current Fluctuations and Sliding of the Charge Density Waves in Two-Dimensional Materials. <i>Nano Letters</i> , 2018, 18, 3630-3636.	4.5	54
133	Thermoelectric properties of electrically gated bismuth telluride nanowires. <i>Physical Review B</i> , 2010, 81, .	1.1	53
134	Engineering of the thermodynamic properties of bilayer graphene by atomic plane rotations: the role of the out-of-plane phonons. <i>Nanoscale</i> , 2015, 7, 12851-12859.	2.8	53
135	Graphene Epoxy-Based Composites as Efficient Electromagnetic Absorbers in the Extremely High-Frequency Band. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28635-28644.	4.0	53
136	Graphene Ambipolar Multiplier Phase Detector. <i>IEEE Electron Device Letters</i> , 2011, 32, 1328-1330.	2.2	52
137	Graphene thickness-graded transistors with reduced electronic noise. <i>Applied Physics Letters</i> , 2012, 100, 033103.	1.5	52
138	Thermal Management of Concentrated Multi-Junction Solar Cells with Graphene-Enhanced Thermal Interface Materials. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 589.	1.3	52
139	Plasmonic Core-Shell Zirconium Nitride-Silicon Oxynitride Nanoparticles. <i>ACS Energy Letters</i> , 2018, 3, 2349-2356.	8.8	51
140	Electrically Insulating Flexible Films with Quasi-1D van der Waals Fillers as Efficient Electromagnetic Shields in the GHz and Sub-THz Frequency Bands. <i>Advanced Materials</i> , 2021, 33, e2007286.	11.1	51
141	Thermal properties of the optically transparent pore-free nanostructured yttria-stabilized zirconia. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	50
142	Raman spectra of twisted CVD bilayer graphene. <i>Carbon</i> , 2017, 123, 302-306.	5.4	50
143	Anomalous electron transport in back-gated field-effect transistors with TiTe <sub>2</sub> semimetal thin-film channels. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	49
144	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , 2019, 31, e1903039.	11.1	49

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145	One-dimensional van der Waals quantum materials. <i>Materials Today</i> , 2022, 55, 74-91.	8.3	49
146	Vibrational Modes of Nano-Template Viruses. <i>Journal of Biomedical Nanotechnology</i> , 2005, 1, 90-95.	0.5	48
147	Optical properties of wurtzite and zinc-blende GaN/AlN quantum dots. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 2190.	1.6	46
148	Confined Optical Phonon Modes in Aligned Nanorod Arrays Detected by Resonant Inelastic Light Scattering. <i>Nano Letters</i> , 2007, 7, 476-479.	4.5	46
149	Confined electron-confined phonon scattering rates in wurtzite AlN/GaN/AlN heterostructures. <i>Journal of Applied Physics</i> , 2004, 95, 5626-5632.	1.1	45
150	A phonon depletion effect in ultrathin heterostructures with acoustically mismatched layers. <i>Applied Physics Letters</i> , 2004, 85, 825-827.	1.5	44
151	Built-in field effect on the electron mobility in AlN/GaN/AlN quantum wells. <i>Applied Physics Letters</i> , 2006, 89, 113508.	1.5	44
152	Noise Characteristics of MoS <sub>2</sub> Thin-Film Transistors: Comparison of Single and Multilayer Structures. <i>IEEE Electron Device Letters</i> , 2015, 36, 517-519.	2.2	43
153	Electrical and Thermal Conductivity of Ge/Si Quantum Dot Superlattices. <i>Journal of the Electrochemical Society</i> , 2005, 152, G432.	1.3	42
154	Advances in Brillouin-Mandelstam light-scattering spectroscopy. <i>Nature Photonics</i> , 2021, 15, 720-731.	15.6	42
155	All-metallic electrically gated 2H-TaSe <sub>2</sub> thin-film switches and logic circuits. <i>Journal of Applied Physics</i> , 2014, 115, 034305.	1.1	41
156	Phonon-hopping thermal conduction in quantum dot superlattices. <i>Applied Physics Letters</i> , 2005, 87, 202105.	1.5	40
157	Capacitance-Voltage Spectroscopy of Trapping States in GaN/AlGaN Heterostructure Field-Effect Transistors. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2006, 1, 258-263.	0.1	40
158	Spectroscopic raman nanometrology of graphene and graphene multilayers on arbitrary substrates. <i>Journal of Physics: Conference Series</i> , 2008, 109, 012008.	0.3	40
159	Total-Ionizing-Dose Effects on Threshold Switching in TaS <sub>2</sub> Charge Density Wave Devices. <i>IEEE Electron Device Letters</i> , 2017, 38, 1724-1727.	2.2	39
160	Assembly and characterization of hybrid virus-inorganic nanotubes. <i>Applied Physics Letters</i> , 2005, 86, 253108.	1.5	37
161	Variable-temperature inelastic light scattering spectroscopy of nickel oxide: Disentangling phonons and magnons. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	37
162	Transport study of a single bismuth nanowire fabricated by the silver and silicon nanowire shadow masks. <i>Applied Physics Letters</i> , 2006, 89, 141503.	1.5	36

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163	Chill Out. IEEE Spectrum, 2009, 46, 34-39.	0.5	36
164	Growth of graphene and graphite nanocrystals from a molten phase. Journal of Materials Science, 2011, 46, 6255-6263.	1.7	36
165	Transistor-Less Logic Circuits Implemented With 2-D Charge Density Wave Devices. IEEE Electron Device Letters, 2018, 39, 1449-1452.	2.2	36
166	Acoustic phonon spectrum and thermal transport in nanoporous alumina arrays. Applied Physics Letters, 2015, 107, .	1.5	35
167	High-temperature performance of MoS2 thin-film transistors: Direct current and pulse current-voltage characteristics. Journal of Applied Physics, 2015, 117, .	1.1	34
168	Increased thermal conductivity of free-standing low-dislocation-density GaN films. Physica Status Solidi A, 2005, 202, R135-R137.	1.7	33
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