Alexander A Balandin

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.

 293
 39,610
 81
 198

 papers
 citations
 h-index
 g-index

 328
 43,957
 6
 8.07

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
293	Efficient terahertz radiation absorption by dilute graphene composites. <i>Applied Physics Letters</i> , 2022 , 120, 063104	3.4	3
292	Excess noise in high-current diamond diodes. <i>Applied Physics Letters</i> , 2022 , 120, 062103	3.4	5
291	Low-frequency noise characteristics of GaN vertical PIN diodesEffects of design, current, and temperature. <i>Applied Physics Letters</i> , 2021 , 119, 243505	3.4	3
290	Specifics of Thermal Transport in Graphene Composites: Effect of Lateral Dimensions of Graphene Fillers. <i>ACS Applied Materials & Dimensions of Graphene Fillers</i> .	9.5	9
289	Evidence for a thermally driven charge-density-wave transition in 1T-TaS2 thin-film devices: Prospects for GHz switching speed. <i>Applied Physics Letters</i> , 2021 , 118, 093102	3.4	5
288	Electromagnetic-Polarization-Selective Composites with Quasi-1D Van der Waals Fillers: Nanoscale Material Functionality That Mimics Macroscopic Systems. <i>ACS Applied Materials & ACS Applied & ACS APPLIED & ACS ACS APPLIED & ACS ACS APPLIED & ACS ACS APPLIED & ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	9.5	4
287	Room temperature depinning of the charge-density waves in quasi-two-dimensional 1T-TaS2 devices. <i>Applied Physics Letters</i> , 2021 , 118, 223101	3.4	5
286	Noncured Graphene Thermal Interface Materials for High-Power Electronics: Minimizing the Thermal Contact Resistance. <i>Nanomaterials</i> , 2021 , 11,	5.4	7
285	Advances in BrillouinMandelstam light-scattering spectroscopy. <i>Nature Photonics</i> , 2021 , 15, 720-731	33.9	13
284	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, e2007	72 86	22
283	Printed Electronic Devices with Inks of TiS Quasi-One-Dimensional van der Waals Material. <i>ACS Applied Materials & Applied & A</i>	9.5	3
282	Thermal interface materials with graphene fillers: review of the state of the art and outlook for future applications. <i>Nanotechnology</i> , 2021 , 32, 142003	3.4	37
281	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	9.5	27
280	Power Cycling and Reliability Testing of Epoxy-Based Graphene Thermal Interface Materials. Journal of Carbon Research, 2020 , 6, 26	3.3	15
279	High-frequency current oscillations in charge-density-wave 1T-TaS2 devices: Revisiting the flarrow band noiseltoncept. <i>Applied Physics Letters</i> , 2020 , 116, 163101	3.4	10
278	Noncuring Graphene Thermal Interface Materials for Advanced Electronics. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901303	6.4	46
277	Brillouin-Mandelstam spectroscopy of stress-modulated spatially confined spin waves in Ni thin films on piezoelectric substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 501, 166440	2.8	2

(2019-2020)

276	Phonon and Thermal Properties of Quasi-Two-Dimensional FePS and MnPS Antiferromagnetic Semiconductors. <i>ACS Nano</i> , 2020 , 14, 2424-2435	16.7	24
275	Phononic and photonic properties of shape-engineered silicon nanoscale pillar arrays. Nanotechnology, 2020 , 31, 30LT01	3.4	6
274	Phononics of Graphene and Related Materials. ACS Nano, 2020, 14, 5170-5178	16.7	91
273	Coexistence of Magnetic Orders in Two-Dimensional Magnet Crl. <i>Nano Letters</i> , 2020 , 20, 553-558	11.5	40
272	Non-Curing Thermal Interface Materials with Graphene Fillers for Thermal Management of Concentrated Photovoltaic Solar Cells. <i>Journal of Carbon Research</i> , 2020 , 6, 2	3.3	13
271	Strain-Controlled Superconductivity in Few-Layer NbSe. <i>ACS Applied Materials & Description</i> (12, 38744-38750)	9.5	2
270	Multifunctional Graphene Composites for Electromagnetic Shielding and Thermal Management at Elevated Temperatures. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000520	6.4	33
269	Graphene related materials for thermal management. 2D Materials, 2020, 7, 012001	5.9	82
268	Thermal Properties of the Binary-Filler Hybrid Composites with Graphene and Copper Nanoparticles. <i>Advanced Functional Materials</i> , 2020 , 30, 1904008	15.6	110
267	Low Resistivity and High Breakdown Current Density of 10 nm Diameter van der Waals TaSe Nanowires by Chemical Vapor Deposition. <i>Nano Letters</i> , 2019 , 19, 4355-4361	11.5	32
266	Bias-Voltage Driven Switching of the Charge-Density-Wave and Normal Metallic Phases in 1T-TaS Thin-Film Devices. <i>ACS Nano</i> , 2019 , 13, 7231-7240	16.7	38
265	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , 2019 , 31, e1903039	24	27
264	Thermal and electrical conductivity control in hybrid composites with graphene and boron nitride fillers. <i>Materials Research Express</i> , 2019 , 6, 085325	1.7	76
263	The discrete noise of magnons. <i>Applied Physics Letters</i> , 2019 , 114, 090601	3.4	10
262	Low-frequency noise spectroscopy of charge-density-wave phase transitions in vertical quasi-2D 1T-TaS2 devices. <i>Applied Physics Express</i> , 2019 , 12, 037001	2.4	19
261	Proton-irradiation-immune electronics implemented with two-dimensional charge-density-wave devices. <i>Nanoscale</i> , 2019 , 11, 8380-8386	7.7	22
260	Strong Hot Carrier Effects in Single Nanowire Heterostructures. <i>Nano Letters</i> , 2019 , 19, 5062-5069	11.5	8
259	Low-frequency electronic noise in superlattice and random-packed thin films of colloidal quantum dots. <i>Nanoscale</i> , 2019 , 11, 20171-20178	7.7	7

258	Dual-Functional Graphene Composites for Electromagnetic Shielding and Thermal Management. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800558	6.4	133
257	Brillouin-Mandelstam spectroscopy of standing spin waves in a ferrite waveguide. <i>AIP Advances</i> , 2018 , 8, 056017	1.5	3
256	Effects of the magnetic field variation on the spin wave interference in a magnetic cross junction. <i>AIP Advances</i> , 2018 , 8, 056619	1.5	2
255	Monoclinic structures of niobium trisulfide. <i>APL Materials</i> , 2018 , 6, 026602	5.7	19
254	Design of lithium cobalt oxide electrodes with high thermal conductivity and electrochemical performance using carbon nanotubes and diamond particles. <i>Carbon</i> , 2018 , 129, 702-710	10.4	20
253	Current Carrying Capacity of Quasi-1D ZrTe3 Van Der Waals Nanoribbons. <i>IEEE Electron Device Letters</i> , 2018 , 39, 735-738	4.4	40
252	Raman-based technique for measuring thermal conductivity of graphene and related materials. Journal of Raman Spectroscopy, 2018 , 49, 106-120	2.3	74
251	Transistor-Less Logic Circuits Implemented With 2-D Charge Density Wave Devices. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1449-1452	4.4	25
250	Unique features of the generation-recombination noise in quasi-one-dimensional van der Waals nanoribbons. <i>Nanoscale</i> , 2018 , 10, 19749-19756	7.7	21
249	Graphene Applications in Advanced Thermal Management 2018 , 823-865		
249	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. ACS Applied Materials & Composites 2018, 10, 37555-37565	9.5	173
	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of	9.5	
248	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. <i>ACS Applied Materials & Discourse Materials & Disco</i>	20.1	
248 247	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. <i>ACS Applied Materials & Discourse Materials & Disco</i>	20.1	36
248 247 246	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. <i>ACS Applied Materials & Discontinuous Materials &</i>	20.1 34 ' 53	36 5
248247246245	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. <i>ACS Applied Materials & Description of Materials & Descrip</i>	20.1 3463 3.4	36 5 13
248247246245244	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. <i>ACS Applied Materials & Discording & Discording Materials & Discording Materials & Discording Materials & Discording Materials & Discording & Discording</i>	20.1 3463 3.4 11.5	36 5 13 36

(2016-2017)

240	Two-Dimensional Oscillatory Neural Network Based on Room-Temperature Charge-Density-Wave Devices. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 860-867	2.6	25
239	Reliability characterization of SiON and MGHK MOSFETs using flicker noise and its correlation with the bias temperature instability. <i>Solid-State Electronics</i> , 2017 , 135, 37-42	1.7	6
238	Magnetic and thermal transport properties of SrFe12O19 permanent magnets with anisotropic grain structure. <i>Materials and Design</i> , 2017 , 125, 62-68	8.1	21
237	Magnonic holographic imaging of magnetic microstructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 348-356	2.8	6
236	A Magnetometer Based on a Spin Wave Interferometer. Scientific Reports, 2017, 7, 11539	4.9	19
235	Variable-temperature inelastic light scattering spectroscopy of nickel oxide: Disentangling phonons and magnons. <i>Applied Physics Letters</i> , 2017 , 110, 202406	3.4	29
234	Raman spectra of twisted CVD bilayer graphene. <i>Carbon</i> , 2017 , 123, 302-306	10.4	35
233	2017,		2
232	Two-Dimensional Thermal Transport in Graphene 2017 , 57-84		
231	Low-Frequency Electronic Noise in Quasi-1D TaSe van der Waals Nanowires. <i>Nano Letters</i> , 2017 , 17, 37	7-38.3	51
231	Low-Frequency Electronic Noise in Quasi-1D TaSe van der Waals Nanowires. <i>Nano Letters</i> , 2017 , 17, 37 Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017 , 111, 252402	7- 38.3 3.4	51 70
230	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017 , 111, 252402 Total-lonizing-Dose Effects on Threshold Switching in \$1{T}\$ -TaS2 Charge Density Wave Devices.	3.4	70
230	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017 , 111, 252402 Total-Ionizing-Dose Effects on Threshold Switching in \$1{T}\$ -TaS2 Charge Density Wave Devices. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1724-1727 Thermal Management of Concentrated Multi-Junction Solar Cells with Graphene-Enhanced	3.4	70
230 229 228	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017 , 111, 252402 Total-lonizing-Dose Effects on Threshold Switching in \$1{T}\$-TaS2 Charge Density Wave Devices. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1724-1727 Thermal Management of Concentrated Multi-Junction Solar Cells with Graphene-Enhanced Thermal Interface Materials. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 589 Breakdown current density in h-BN-capped quasi-1D TaSe3 metallic nanowires: prospects of	3·4 4·4 2.6	7° 27 46
230 229 228 227	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017 , 111, 252402 Total-Ionizing-Dose Effects on Threshold Switching in \$1{T}\$ -TaS2 Charge Density Wave Devices. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1724-1727 Thermal Management of Concentrated Multi-Junction Solar Cells with Graphene-Enhanced Thermal Interface Materials. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 589 Breakdown current density in h-BN-capped quasi-1D TaSe3 metallic nanowires: prospects of interconnect applications. <i>Nanoscale</i> , 2016 , 8, 15774-82 Grain-to-Grain Compositional Variations and Phase Segregation in Copper-Zinc-Tin-Sulfide Films.	3·4 4·4 2.6	7° 27 46 49
230 229 228 227 226	Spin-phonon coupling in antiferromagnetic nickel oxide. <i>Applied Physics Letters</i> , 2017 , 111, 252402 Total-Ionizing-Dose Effects on Threshold Switching in \$1{T}\$ -TaS2 Charge Density Wave Devices. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1724-1727 Thermal Management of Concentrated Multi-Junction Solar Cells with Graphene-Enhanced Thermal Interface Materials. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 589 Breakdown current density in h-BN-capped quasi-1D TaSe3 metallic nanowires: prospects of interconnect applications. <i>Nanoscale</i> , 2016 , 8, 15774-82 Grain-to-Grain Compositional Variations and Phase Segregation in Copper-Zinc-Tin-Sulfide Films. <i>ACS Applied Materials & Description of Materials & Description of Graphene with defects induced by electron beam irradiation. <i>Nanoscale</i>,</i>	3·4 4·4 2.6 7·7 9·5	70 27 46 49

222	Thermal Conductivity of Segmented Nanowires. Nanoscience and Technology, 2016, 507-531	0.6	
221	The influence of chemical reactivity of surface defects on ambient-stable InSe-based nanodevices. <i>Nanoscale</i> , 2016 , 8, 8474-9	7.7	79
220	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	28.7	123
219	Thermal Transport in Graphene, Few-Layer Graphene and Graphene Nanoribbons. <i>Lecture Notes in Physics</i> , 2016 , 339-363	0.8	9
218	Selective chemical vapor sensing with few-layer MoS2 thin-film transistors: Comparison with graphene devices. <i>Applied Physics Letters</i> , 2015 , 106, 023115	3.4	97
217	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, 12851-9	7.7	41
216	1/ \$f\$ Noise Characteristics of MoS2 Thin-Film Transistors: Comparison of Single and Multilayer Structures. <i>IEEE Electron Device Letters</i> , 2015 , 36, 517-519	4.4	35
215	Zone-Folded Phonons and the Commensurate-Incommensurate Charge-Density-Wave Transition in 1T-TaSe2 Thin Films. <i>Nano Letters</i> , 2015 , 15, 2965-73	11.5	73
214	Strongly Anisotropic Thermal Conductivity of Free-Standing Reduced Graphene Oxide Films Annealed at High Temperature. <i>Advanced Functional Materials</i> , 2015 , 25, 4664-4672	15.6	369
213	Thermal properties of graphene and few-layer graphene: applications in electronics. <i>IET Circuits, Devices and Systems,</i> 2015 , 9, 4-12	1.1	64
212	Magnetically-functionalized self-aligning graphene fillers for high-efficiency thermal management applications. <i>Materials and Design</i> , 2015 , 88, 214-221	8.1	141
211	Selective Gas Sensing With \$h\$ -BN Capped MoS2 Heterostructure Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2015 , 36, 1202-1204	4.4	55
210	Suppression of 1/f noise in near-ballistic h-BN-graphene-h-BN heterostructure field-effect transistors. <i>Applied Physics Letters</i> , 2015 , 107, 023106	3.4	74
209	Acoustic phonon spectrum and thermal transport in nanoporous alumina arrays. <i>Applied Physics Letters</i> , 2015 , 107, 171904	3.4	32
208	Phonon Spectrum Engineering in Rolled-up Micro- and Nano-Architectures. <i>Applied Sciences (Switzerland)</i> , 2015 , 5, 728-746	2.6	6
207	(Invited) Graphene Heat Spreaders and Interconnects for Advanced Electronic Applications. <i>ECS Transactions</i> , 2015 , 67, 167-172	1	2
206	High-temperature performance of MoS2 thin-film transistors: Direct current and pulse current-voltage characteristics. <i>Journal of Applied Physics</i> , 2015 , 117, 064301	2.5	29
205	Thermal properties of graphene-copper-graphene heterogeneous films. <i>Nano Letters</i> , 2014 , 14, 1497-5	03 1.5	210

204	Graphene-enhanced phase change materials for thermal management of battery packs 2014,		1
203	Thermal conductivity of twisted bilayer graphene. <i>Nanoscale</i> , 2014 , 6, 13402-8	7.7	99
202	Thermal conductivity of graphene laminate. <i>Nano Letters</i> , 2014 , 14, 5155-61	11.5	219
201	Toward lithium ion batteries with enhanced thermal conductivity. ACS Nano, 2014, 8, 7202-7	16.7	43
200	Specific heat of twisted bilayer graphene: Engineering phonons by atomic plane rotations. <i>Applied Physics Letters</i> , 2014 , 105, 031904	3.4	58
199	Low-frequency 1/f noise in MoS2 transistors: Relative contributions of the channel and contacts. <i>Applied Physics Letters</i> , 2014 , 104, 153104	3.4	87
198	Graphene Thermal Properties: Applications in Thermal Management and Energy Storage. <i>Applied Sciences (Switzerland)</i> , 2014 , 4, 525-547	2.6	208
197	Phonon engineering in graphene and van der Waals materials. MRS Bulletin, 2014, 39, 817-823	3.2	20
196	Selective gas sensing with MoS2 thin film transistors 2014 ,		3
195	A comparative study of the thermal interface materials with graphene and boron nitride fillers 2014 ,		5
194	Graphene-enhanced hybrid phase change materials for thermal management of Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 248, 37-43	8.9	305
193	All-metallic electrically gated 2H-TaSe2 thin-film switches and logic circuits. <i>Journal of Applied Physics</i> , 2014 , 115, 034305	2.5	35
192	Low-frequency 1/f noise in graphene devices. <i>Nature Nanotechnology</i> , 2013 , 8, 549-55	28.7	376
191	Phonons in twisted bilayer graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	119
190	. Proceedings of the IEEE, 2013 , 101, 1670-1688	14.3	25
189	Plasmonic and bolometric terahertz detection by graphene field-effect transistor. <i>Applied Physics Letters</i> , 2013 , 103, 181114	3.4	46
188	Plasmonic and bolometric terahertz graphene sensors 2013,		2
187	Origin of 1/f noise in graphene multilayers: Surface vs. volume. <i>Applied Physics Letters</i> , 2013 , 102, 0931	13.4	80

186	Selective Sensing of Individual Gases Using Graphene Devices. <i>IEEE Sensors Journal</i> , 2013 , 13, 2818-2822	24	55
185	Reduction of 1/f noise in graphene after electron-beam irradiation. <i>Applied Physics Letters</i> , 2013 , 102, 153512	3.4	54
184	Effects of functionalization on thermal properties of single-wall and multi-wall carbon nanotube-polymer nanocomposites. <i>ACS Nano</i> , 2013 , 7, 5114-21	16.7	176
183	Thermal conductivity inhibition in phonon engineered core-shell cross-section modulated Si/Ge nanowires. <i>Applied Physics Letters</i> , 2013 , 102, 213109	3.4	51
182	Phonon and thermal properties of exfoliated TaSe2 thin films. <i>Journal of Applied Physics</i> , 2013 , 114, 204	3051	63
181	Graphene-based non-Boolean logic circuits. <i>Journal of Applied Physics</i> , 2013 , 114, 154310	2.5	47
180	The effect of a transverse magnetic field on 1/f noise in graphene. <i>Applied Physics Letters</i> , 2013 , 103, 173114	3.4	15
179	Surface and volume 1/f noise in multi-layer graphene 2013,		1
178	Towards ultrathick battery electrodes: aligned carbon nanotube-enabled architecture. <i>Advanced Materials</i> , 2012 , 24, 533-7	24	241
177	Charge density waves in exfoliated films of van der Waals materials: evolution of Raman spectrum in TiSe2. <i>Nano Letters</i> , 2012 , 12, 5941-5	11.5	132
176	Anomalous size dependence of the thermal conductivity of graphene ribbons. <i>Nano Letters</i> , 2012 , 12, 3238-44	11.5	225
175	Selective gas sensing with a single pristine graphene transistor. <i>Nano Letters</i> , 2012 , 12, 2294-8	11.5	310
174	Micro-Raman spectroscopy of mechanically exfoliated few-quintuple layers of Bi2Te3, Bi2Se3, and Sb2Te3 materials. <i>Journal of Applied Physics</i> , 2012 , 111, 054305	2.5	218
173	Thermal properties of graphene and multilayer graphene: Applications in thermal interface materials. <i>Solid State Communications</i> , 2012 , 152, 1331-1340	1.6	578
172	Epitaxial graphene nanoribbon array fabrication using BCP-assisted nanolithography. <i>ACS Nano</i> , 2012 , 6, 6786-92	16.7	62
171	Anomalous electron transport in back-gated field-effect transistors with TiTe2 semimetal thin-film channels. <i>Applied Physics Letters</i> , 2012 , 100, 043109	3.4	46
170	Two-dimensional phonon transport in graphene. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 233203	1.8	274
169	Phononics in low-dimensional materials. <i>Materials Today</i> , 2012 , 15, 266-275	21.8	209

(2011-2012)

168	Graphene-on-diamond devices with increased current-carrying capacity: carbon sp2-on-sp3 technology. <i>Nano Letters</i> , 2012 , 12, 1603-8	11.5	143
167	Thermal properties of the hybrid graphene-metal nano-micro-composites: Applications in thermal interface materials. <i>Applied Physics Letters</i> , 2012 , 100, 073113	3.4	297
166	Graphene fillers for ultra-efficient thermal interface materials 2012,		1
165	Graphene-multilayer graphene nanocomposites as highly efficient thermal interface materials. <i>Nano Letters</i> , 2012 , 12, 861-7	11.5	1053
164	Thermal conductivity of isotopically modified graphene. <i>Nature Materials</i> , 2012 , 11, 203-7	27	698
163	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	15.6	47
162	Graphene thickness-graded transistors with reduced electronic noise. <i>Applied Physics Letters</i> , 2012 , 100, 033103	3.4	49
161	Suppression of phonon heat conduction in cross-section-modulated nanowires. <i>Physical Review B</i> , 2012 , 85,	3.3	68
160	Graphene quilts for thermal management of high-power GaN transistors. <i>Nature Communications</i> , 2012 , 3, 827	17.4	369
159	Graphene Ambipolar Multiplier Phase Detector. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1328-1330	4.4	47
158	Electrical and noise characteristics of graphene field-effect transistors 2011,		3
157	Low-frequency noise in graphene field-effect transistors 2011 ,		4
156	In-plane and cross-plane thermal conductivity of graphene: applications in thermal interface materials 2011 ,		5
155	Reversible Tuning of the Electronic Properties of Graphene via Controlled Exposure to Electron Beam Irradiation and Annealing. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		
154	Large-Area Industrial-Scale Identification and Quality Control of Graphene. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		
153	Heat conduction properties of graphene: Prospects of thermal management applications 2011,		5
152	Tuning of Graphene Properties via Controlled Exposure to Electron Beams. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 865-870	2.6	63
151	The Heat Is On: Graphene Applications. <i>IEEE Nanotechnology Magazine</i> , 2011 , 5, 15-19	1.7	13

150	Thermal properties of graphene and nanostructured carbon materials. <i>Nature Materials</i> , 2011 , 10, 569	-8 1 7	4185
149	Growth of graphene and graphite nanocrystals from a molten phase. <i>Journal of Materials Science</i> , 2011 , 46, 6255-6263	4.3	33
148	1/f noise in conducting channels of topological insulator materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 144-146	1.6	15
147	Theoretical description of thermal transport in graphene: The issues of phonon cut-off frequencies and polarization branches. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2609-2614	1.3	63
146	Graphene nanoribbon crossbar nanomesh 2011 ,		1
145	Low-frequency current fluctuations in "graphene-like" exfoliated thin-films of bismuth selenide topological insulators. <i>ACS Nano</i> , 2011 , 5, 2657-63	16.7	61
144	High-throughput large-area automated identification and quality control of graphene and few-layer graphene films. <i>ACS Nano</i> , 2011 , 5, 914-22	16.7	59
143	Graphene-based thermal interface materials 2011,		7
142	A comparative analysis of Ag and Cu heat sink layers in L10-FePt films for heat-assisted magnetic recording. <i>Journal of Applied Physics</i> , 2011 , 109, 07B763	2.5	9
141	Reduction of lattice thermal conductivity in one-dimensional quantum-dot superlattices due to phonon filtering. <i>Physical Review B</i> , 2011 , 84,	3.3	56
140	Thermal Properties of Graphene and Carbon Based Materials: Prospects of Thermal Management Applications. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		1
139	Top-Gate Graphene-on-UNCD Transistors with Enhanced Performance. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		
138	©raphene-Like Exfoliation of Quasi-2D Crystals of Titanium Ditelluride: A New Route to Charge Density Wave Materials. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		
137	Low-Frequency Noise in Graphene-Like Exfoliated Thin Films of Topological Insulators. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		
136	Experimental Demonstration of Thermal Management of High-Power GaN Transistors with Graphene Lateral Heat Spreaders. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		2
135	Thermal Properties of Graphene: Applications in Thermal Interface Materials. <i>ECS Transactions</i> , 2011 , 35, 193-199	1	11
134	"Graphene-Like" Exfoliation and Characterization of the Atomically-Thin Films of Titanium Ditelluride. <i>ECS Transactions</i> , 2011 , 35, 205-210	1	
133	DNA Gating effect from single layer graphene. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		

1/f Noise in Graphene Field-Effect Transistors: Dependence on the Device Channel Area. *Materials Research Society Symposia Proceedings*, **2011**, 1344, 1

131	Pseudo-Superlattices of Bi2Te3 Topological Insulator Films with Enhanced Thermoelectric Performance. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		
130	LOW-FREQUENCY ELECTRONIC NOISE IN GRAPHENE TRANSISTORS: COMPARISON WITH CARBON NANOTUBES. International Journal of High Speed Electronics and Systems, 2011 , 20, 161-170	0.5	3
129	Observation of the memory steps in graphene at elevated temperatures. <i>Applied Physics Letters</i> , 2011 , 98, 222107	3.4	14
128	Dimensional crossover of thermal transport in few-layer graphene. <i>Nature Materials</i> , 2010 , 9, 555-8	27	1028
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