

Yong P Chen

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189
papers

10,574
citations

50
h-index

99
g-index

211
ext. papers

11,757
ext. citations

6.5
avg, IF

6.28
L-index

#	Paper	IF	Citations
189	Control and characterization of individual grains and grain boundaries in graphene grown by chemical vapour deposition. <i>Nature Materials</i> , 2011 , 10, 443-9	27	1216
188	Graphene segregated on Ni surfaces and transferred to insulators. <i>Applied Physics Letters</i> , 2008 , 93, 1131-3	10.3	1008
187	Thermal conductivity and thermal rectification in graphene nanoribbons: a molecular dynamics study. <i>Nano Letters</i> , 2009 , 9, 2730-5	11.5	635
186	Polycrystalline graphene and other two-dimensional materials. <i>Nature Nanotechnology</i> , 2014 , 9, 755-67	28.7	338
185	Observation of topological surface state quantum Hall effect in an intrinsic three-dimensional topological insulator. <i>Nature Physics</i> , 2014 , 10, 956-963	16.2	271
184	Electrically tunable damping of plasmonic resonances with graphene. <i>Nano Letters</i> , 2012 , 12, 5202-6	11.5	260
183	Rational synthesis of ultrathin n-type Bi ₂ Te ₃ nanowires with enhanced thermoelectric properties. <i>Nano Letters</i> , 2012 , 12, 56-60	11.5	245
182	Wafer-scale synthesis of graphene by chemical vapor deposition and its application in hydrogen sensing. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 296-300	8.5	202
181	Nontoxic and abundant copper zinc tin sulfide nanocrystals for potential high-temperature thermoelectric energy harvesting. <i>Nano Letters</i> , 2012 , 12, 540-5	11.5	192
180	Electrical modulation of fano resonance in plasmonic nanostructures using graphene. <i>Nano Letters</i> , 2014 , 14, 78-82	11.5	165
179	Ultrafast surface carrier dynamics in the topological insulator Bi ₂ Te ₃ . <i>Nano Letters</i> , 2012 , 12, 3532-6	11.5	165
178	Effect of oxygen plasma etching on graphene studied using Raman spectroscopy and electronic transport measurements. <i>New Journal of Physics</i> , 2011 , 13, 025008	2.9	163
177	Atomic force microscope local oxidation nanolithography of graphene. <i>Applied Physics Letters</i> , 2008 , 93, 093107	3.4	155
176	Growth of single crystal graphene arrays by locally controlling nucleation on polycrystalline Cu using chemical vapor deposition. <i>Advanced Materials</i> , 2011 , 23, 4898-903	24	154
175	Phonon lateral confinement enables thermal rectification in asymmetric single-material nanostructures. <i>Nano Letters</i> , 2014 , 14, 592-6	11.5	153
174	Electronic transport in chemical vapor deposited graphene synthesized on Cu: Quantum Hall effect and weak localization. <i>Applied Physics Letters</i> , 2010 , 96, 122106	3.4	145
173	Tuning the thermal conductivity of graphene nanoribbons by edge passivation and isotope engineering: A molecular dynamics study. <i>Applied Physics Letters</i> , 2010 , 97, 133107	3.4	134

172	Quantized Hall effect and Shubnikov-de Haas oscillations in highly doped Bi ₂ Se ₃ : evidence for layered transport of bulk carriers. <i>Physical Review Letters</i> , 2012 , 108, 216803	7.4	132
171	Effect of electron-beam irradiation on graphene field effect devices. <i>Applied Physics Letters</i> , 2010 , 97, 173109	3.4	126
170	Atomic-scale investigation of graphene grown on Cu foil and the effects of thermal annealing. <i>ACS Nano</i> , 2011 , 5, 3607-13	16.7	125
169	Tunable Landau-Zener transitions in a spin-orbit-coupled Bose-Einstein condensate. <i>Physical Review A</i> , 2014 , 90,	2.6	124
168	Photocarrier generation from interlayer charge-transfer transitions in WS-graphene heterostructures. <i>Science Advances</i> , 2018 , 4, e1700324	14.3	115
167	Observation of low energy Raman modes in twisted bilayer graphene. <i>Nano Letters</i> , 2013 , 13, 3594-601	11.5	111
166	Electronic properties of grains and grain boundaries in graphene grown by chemical vapor deposition. <i>Solid State Communications</i> , 2011 , 151, 1100-1104	1.6	107
165	Ultrafast carrier and phonon dynamics in Bi ₂ Se ₃ crystals. <i>Applied Physics Letters</i> , 2010 , 97, 182102	3.4	106
164	Design principle of telluride-based nanowire heterostructures for potential thermoelectric applications. <i>Nano Letters</i> , 2012 , 12, 3627-33	11.5	99
163	Phase coherence and superfluid-insulator transition in a disordered Bose-Einstein condensate. <i>Physical Review A</i> , 2008 , 77,	2.6	94
162	Thermal Transport in Graphene Nanostructures: Experiments and Simulations. <i>ECS Transactions</i> , 2010 , 28, 73-83	1	93
161	Electrical and thermal conductivities of reduced graphene oxide/polystyrene composites. <i>Applied Physics Letters</i> , 2014 , 104, 113101	3.4	91
160	Electrical injection and detection of spin-polarized currents in topological insulator Bi ₂ Te ₂ Se. <i>Scientific Reports</i> , 2015 , 5, 14293	4.9	89
159	Chemical sensing with switchable transport channels in graphene grain boundaries. <i>Nature Communications</i> , 2014 , 5, 4911	17.4	87
158	Tuning a Schottky barrier in a photoexcited topological insulator with transient Dirac cone electron-hole asymmetry. <i>Nature Communications</i> , 2014 , 5, 3003	17.4	85
157	Enhanced Graphene Photodetector with Fractal Metasurface. <i>Nano Letters</i> , 2017 , 17, 57-62	11.5	84
156	Thermal expansion coefficients of Bi ₂ Se ₃ and Sb ₂ Te ₃ crystals from 10 K to 270 K. <i>Applied Physics Letters</i> , 2011 , 99, 261912	3.4	84
155	Direct imaging of graphene edges: atomic structure and electronic scattering. <i>Nano Letters</i> , 2011 , 11, 3663-8	11.5	82

154	Strong anomalous optical dispersion of graphene: complex refractive index measured by Picometry. <i>Optics Express</i> , 2008 , 16, 22105-12	3.3	78
153	Large-scale graphitic thin films synthesized on Ni and transferred to insulators: Structural and electronic properties. <i>Journal of Applied Physics</i> , 2010 , 107, 044310	2.5	77
152	Temperature dependence of Raman-active optical phonons in Bi ₂ Se ₃ and Sb ₂ Te ₃ . <i>Applied Physics Letters</i> , 2012 , 100, 071907	3.4	74
151	Magnetic field-induced helical mode and topological transitions in a topological insulator nanoribbon. <i>Nature Nanotechnology</i> , 2016 , 11, 345-51	28.7	73
150	Crystalline Nanojoining Silver Nanowire Percolated Networks on Flexible Substrate. <i>ACS Nano</i> , 2015 , 9, 10018-31	16.7	71
149	Modeling potentiometric measurements in topological insulators including parallel channels. <i>Physical Review B</i> , 2012 , 86,	3.3	68
148	Structural properties of Bi ₂ Te ₃ and Bi ₂ Se ₃ topological insulators grown by molecular beam epitaxy on GaAs(001) substrates. <i>Applied Physics Letters</i> , 2011 , 99, 171903	3.4	67
147	Topological insulator Bi ₂ Te ₃ films synthesized by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2012 , 101, 162104	3.4	64
146	Quantum transport of two-species Dirac fermions in dual-gated three-dimensional topological insulators. <i>Nature Communications</i> , 2016 , 7, 11434	17.4	63
145	Graphene induced surface reconstruction of Cu. <i>Nano Letters</i> , 2012 , 12, 3893-9	11.5	62
144	Microwave resonance of the 2D Wigner crystal around integer Landau fillings. <i>Physical Review Letters</i> , 2003 , 91, 016801	7.4	61
143	Melting of a 2D quantum electron solid in high magnetic field. <i>Nature Physics</i> , 2006 , 2, 452-455	16.2	54
142	Quantum and classical magnetoresistance in ambipolar topological insulator transistors with gate-tunable bulk and surface conduction. <i>Scientific Reports</i> , 2014 , 4, 4859	4.9	52
141	Nonlinear thermal transport and negative differential thermal conductance in graphene nanoribbons. <i>Applied Physics Letters</i> , 2011 , 99, 113101	3.4	52
140	Topological insulator based spin valve devices: Evidence for spin polarized transport of spin-momentum-locked topological surface states. <i>Solid State Communications</i> , 2014 , 191, 1-5	1.6	51
139	Observation of current-induced, long-lived persistent spin polarization in a topological insulator: A rechargeable spin battery. <i>Science Advances</i> , 2017 , 3, e1602531	14.3	48
138	Evidence for two different solid phases of two-dimensional electrons in high magnetic fields. <i>Physical Review Letters</i> , 2004 , 93, 206805	7.4	46
137	Gate-tunable and thickness-dependent electronic and thermoelectric transport in few-layer MoS ₂ . <i>Journal of Applied Physics</i> , 2016 , 120, 134305	2.5	46

136	High-Performance Thermal Interface Material Based on Few-Layer Graphene Composite. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26753-26759	3.8	44
135	Mapping the 3D surface potential in Bi ₂ Se ₃ . <i>Nature Communications</i> , 2013 , 4, 2277	17.4	43
134	Nanoscale strainability of graphene by laser shock-induced three-dimensional shaping. <i>Nano Letters</i> , 2012 , 12, 4577-83	11.5	43
133	Tunable thermal transport and thermal rectification in strained graphene nanoribbons. <i>Physical Review B</i> , 2012 , 85,	3.3	43
132	Ambipolar graphene field effect transistors by local metal side gates. <i>Applied Physics Letters</i> , 2010 , 96, 263110	3.4	42
131	Scanning gate microscopy on graphene: charge inhomogeneity and extrinsic doping. <i>Nanotechnology</i> , 2011 , 22, 295705	3.4	42
130	Observation of reduced 1/f noise in graphene field effect transistors on boron nitride substrates. <i>Applied Physics Letters</i> , 2015 , 107, 113101	3.4	41
129	Position-dependent and millimetre-range photodetection in phototransistors with micrometre-scale graphene on SiC. <i>Nature Nanotechnology</i> , 2017 , 12, 668-674	28.7	40
128	Use of graphene as protection film in biological environments. <i>Scientific Reports</i> , 2014 , 4, 4097	4.9	40
127	Differentiation of Surface and Bulk Conductivities in Topological Insulators via Four-Probe Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 2213-20	11.5	36
126	Real-Space Imaging of the Tailored Plasmons in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2017 , 119, 247402	7.4	35
125	Gate tunable relativistic mass and Berry phase in topological insulator nanoribbon field effect devices. <i>Scientific Reports</i> , 2015 , 5, 8452	4.9	35
124	Structural and electronic properties of highly doped topological insulator Bi ₂ Se ₃ crystals. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 133-135	2.5	34
123	Evidence of a first-order phase transition between Wigner-crystal and bubble phases of 2D electrons in higher Landau Levels. <i>Physical Review Letters</i> , 2004 , 93, 176808	7.4	33
122	Transport measurements in twisted bilayer graphene: Electron-phonon coupling and Landau level crossing. <i>Physical Review B</i> , 2018 , 98,	3.3	32
121	Plasmon resonance in multilayer graphene nanoribbons. <i>Laser and Photonics Reviews</i> , 2015 , 9, 650-655	8.3	31
120	Quantum Hall effect on centimeter scale chemical vapor deposited graphene films. <i>Applied Physics Letters</i> , 2011 , 99, 232110	3.4	31
119	Thermoelectric power of graphene as surface charge doping indicator. <i>Applied Physics Letters</i> , 2011 , 99, 013115	3.4	31

118	Strain-induced topological insulator phase transition in HgSe. <i>Physical Review B</i> , 2013 , 87,	3.3	30
117	Characterization of Bi ₂ Te ₃ and Bi ₂ Se ₃ topological insulators grown by MBE on (001) GaAs substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 02B103	1.3	30
116	Substrate Doping Effect and Unusually Large Angle van Hove Singularity Evolution in Twisted Bi- and Multilayer Graphene. <i>Advanced Materials</i> , 2017 , 29, 1606741	24	29
115	Photoassociation of ultracold LiRb* molecules: Observation of high efficiency and unitarity-limited rate saturation. <i>Physical Review A</i> , 2014 , 89,	2.6	29
114	Interfacial thermal conductance limit and thermal rectification across vertical carbon nanotube/graphene nanoribbon-silicon interfaces. <i>Journal of Applied Physics</i> , 2013 , 113, 064311	2.5	29
113	Observation of a pinning mode in a Wigner solid with $\nu=1/3$ fractional quantum Hall excitations. <i>Physical Review Letters</i> , 2010 , 105, 126803	7.4	29
112	Room temperature device performance of electrodeposited InSb nanowire field effect transistors. <i>Applied Physics Letters</i> , 2011 , 98, 243504	3.4	29
111	Highly sensitive transient absorption imaging of graphene and graphene oxide in living cells and circulating blood. <i>Scientific Reports</i> , 2015 , 5, 12394	4.9	28
110	Detection of the Spin-Chemical Potential in Topological Insulators Using Spin-Polarized Four-Probe STM. <i>Physical Review Letters</i> , 2017 , 119, 137202	7.4	27
109	Robust gapless surface state and Rashba-splitting bands upon surface deposition of magnetic Cr on Bi ₂ Se ₃ . <i>Nano Letters</i> , 2015 , 15, 2031-6	11.5	27
108	Graphene Field-Effect Transistors on Undoped Semiconductor Substrates for Radiation Detection. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 581-587	2.6	26
107	SYNTHETIC GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION ON COPPER FOILS. <i>International Journal of Modern Physics B</i> , 2013 , 27, 1341002	1.1	26
106	Folding and cracking of graphene oxide sheets upon deposition. <i>Surface Science</i> , 2011 , 605, 1669-1675	1.8	26
105	Measurement of In-Plane Thermal Conductivity of Ultrathin Films Using Micro-Raman Spectroscopy. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2014 , 18, 183-193	3.7	25
104	Enhancing the graphene photocurrent using surface plasmons and a p-n junction. <i>Light: Science and Applications</i> , 2020 , 9, 126	16.7	24
103	Sign reversal of magnetoresistance in a perovskite nickelate by electron doping. <i>Physical Review B</i> , 2016 , 94,	3.3	24
102	Optimizing the efficiency of evaporative cooling in optical dipole traps. <i>Physical Review A</i> , 2013 , 87,	2.6	23
101	Large Enhancement of Thermal Conductivity and Lorenz Number in Topological Insulator Thin Films. <i>ACS Nano</i> , 2018 , 12, 1120-1127	16.7	22

100	Laser spectroscopy of the X $1\bar{3}$ and B $1\bar{3}$ states of the LiRb molecule. <i>Chemical Physics Letters</i> , 2011 , 511, 7-11	2.5	22
99	Quantum Hall effect in monolayer-bilayer graphene planar junctions. <i>Physical Review B</i> , 2013 , 88,	3.3	21
98	Raman spectra and electron-phonon coupling in disordered graphene with gate-tunable doping. <i>Journal of Applied Physics</i> , 2014 , 116, 233101	2.5	21
97	Molecular Dynamics Calculation of Thermal Conductivity of Graphene Nanoribbons 2009 ,		20
96	Ultrafast Surface State Spin-Carrier Dynamics in the Topological Insulator Bi ₂ Te ₂ Se. <i>Physical Review Letters</i> , 2018 , 121, 026807	7.4	19
95	AFM and Raman studies of topological insulator materials subject to argon plasma etching. <i>Philosophical Magazine</i> , 2013 , 93, 681-689	1.6	19
94	Wigner crystallization about $\bar{3}$. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 104-107		19
93	Microwave resonance of the reentrant insulating quantum Hall phases in the first excited Landau level. <i>Physical Review B</i> , 2005 , 71,	3.3	19
92	Flame speed enhancement of a nitrocellulose monopropellant using graphene microstructures. <i>Journal of Applied Physics</i> , 2016 , 120, 174902	2.5	19
91	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. <i>2D Materials</i> , 2016 , 3, 021009	5.9	19
90	Anomalous Low-Temperature Enhancement of Supercurrent in Topological-Insulator Nanoribbon Josephson Junctions: Evidence for Low-Energy Andreev Bound States. <i>Physical Review Letters</i> , 2019 , 122, 047003	7.4	18
89	Time resolved ultrafast ARPES for the study of topological insulators: The case of Bi ₂ Te ₃ . <i>European Physical Journal: Special Topics</i> , 2013 , 222, 1271-1275	2.3	18
88	Optical phonons in twisted bilayer graphene with gate-induced asymmetric doping. <i>Nano Letters</i> , 2015 , 15, 1203-10	11.5	18
87	Pinning mode resonances of new phases of 2D electron systems in high magnetic fields. <i>Solid State Communications</i> , 2006 , 140, 100-106	1.6	18
86	Production of ultracold ground-state LiRb molecules by photoassociation through a resonantly coupled state. <i>Physical Review A</i> , 2016 , 94,	2.6	18
85	Reducing interfacial thermal resistance between metal and dielectric materials by a metal interlayer. <i>Journal of Applied Physics</i> , 2019 , 125, 045302	2.5	17
84	Formation of ultracold (7)Li(85)Rb molecules in the lowest triplet electronic state by photoassociation and their detection by ionization spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 114310	3.9	17
83	Pinning-mode resonance of a Skyrme crystal near Landau-level filling factor $\bar{1}$. <i>Physical Review Letters</i> , 2010 , 104, 226801	7.4	17

82	Communications: Entanglement switch for dipole arrays. <i>Journal of Chemical Physics</i> , 2010 , 132, 121104	3.9	17
81	Gate-tunable supercurrent and multiple Andreev reflections in a superconductor-topological insulator nanoribbon-superconductor hybrid device. <i>Applied Physics Letters</i> , 2018 , 112, 093105	3.4	16
80	Tunable spin helical Dirac quasiparticles on the surface of three-dimensional HgTe. <i>Physical Review B</i> , 2015 , 92,	3.3	16
79	Effects of magnetic dipole-dipole interactions in atomic Bose-Einstein condensates with tunable s-wave interactions. <i>Physical Review A</i> , 2013 , 88,	2.6	16
78	Formation of ultracold LiRb molecules by photoassociation near the $\text{Li}(2s\ 2S\ 1/2) + \text{Rb}(5p\ 2P\ 1/2)$ asymptote. <i>Europhysics Letters</i> , 2013 , 104, 63001	1.6	16
77	Parallel Nanoshaping of Brittle Semiconductor Nanowires for Strained Electronics. <i>Nano Letters</i> , 2016 , 16, 7536-7544	11.5	15
76	Hysteretic response of chemical vapor deposition graphene field effect transistors on SiC substrates. <i>Applied Physics Letters</i> , 2013 , 103, 053123	3.4	14
75	Towards the manipulation of topological states of matter: a perspective from electron transport. <i>Science Bulletin</i> , 2018 , 63, 580-594	10.6	13
74	Mode-hop-free tuning over 135 GHz of external cavity diode lasers without antireflection coating. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 106, 629-633	1.9	13
73	Coulomb drag and counterflow Seebeck coefficient in bilayer-graphene double layers. <i>Nano Energy</i> , 2017 , 40, 42-48	17.1	13
72	In-surface confinement of topological insulator nanowire surface states. <i>Applied Physics Letters</i> , 2015 , 107, 121605	3.4	13
71	Effect of Particle Size and Aggregation on Thermal Conductivity of MetalPolymer Nanocomposite. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	12
70	Diversity of ultrafast hot-carrier-induced dynamics and striking sub-femtosecond hot-carrier scattering times in graphene. <i>Carbon</i> , 2014 , 72, 402-409	10.4	12
69	Pinning modes and interlayer correlation in high-magnetic-field bilayer Wigner solids. <i>Physical Review Letters</i> , 2007 , 99, 136804	7.4	12
68	Near-Field Imaging of Surface Plasmons from the Bulk and Surface State of Topological Insulator Bi ₂ Te ₂ Se. <i>ACS Photonics</i> , 2019 , 6, 2492-2498	6.3	11
67	Spin current generation and relaxation in a quenched spin-orbit-coupled Bose-Einstein condensate. <i>Nature Communications</i> , 2019 , 10, 375	17.4	11
66	Electrodeposition of InSb branched nanowires: Controlled growth with structurally tailored properties. <i>Journal of Applied Physics</i> , 2014 , 116, 083506	2.5	11
65	Interspecies collision-induced losses in a dual species ⁷ Li ⁸⁵ Rb magneto-optical trap. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 105301	1.3	11

64	Topological insulator-based energy efficient devices 2012 ,		11
63	Position sensitivity of graphene field effect transistors to X-rays. <i>Applied Physics Letters</i> , 2015 , 106, 223504		10
62	Formation of deeply bound ultracold LiRb molecules via photoassociation near the Li 2S _{1/2} +Rb 5P _{3/2} asymptote. <i>Physical Review A</i> , 2014 , 90,	2.6	10
61	Two-photon photoassociation spectroscopy of an ultracold heteronuclear molecule. <i>Physical Review A</i> , 2017 , 95,	2.6	9
60	Tuning Insulator-Semimetal Transitions in 3D Topological Insulator thin Films by Intersurface Hybridization and In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2019 , 123, 207701	7.4	9
59	Microscopic investigation of Bi _{2-x} Sb _x Te _{3-y} Se _y systems: On the origin of a robust intrinsic topological insulator. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 128, 251-257	3.9	9
58	High-Contrast Plasmonic-Enhanced Shallow Spin Defects in Hexagonal Boron Nitride for Quantum Sensing. <i>Nano Letters</i> , 2021 , 21, 7708-7714	11.5	9
57	Stable emission and fast optical modulation of quantum emitters in boron nitride nanotubes. <i>Optics Letters</i> , 2018 , 43, 3778-3781	3	8
56	Observation of Quantum Interference and Coherent Control in a Photochemical Reaction. <i>Physical Review Letters</i> , 2018 , 121, 073202	7.4	8
55	Observation of Coulomb repulsion between Cu intercalants in CuxBi2Se3. <i>Physical Review B</i> , 2014 , 89,	3.3	8
54	Molecular Dynamics Study of Thermal Rectification in Graphene Nanoribbons. <i>International Journal of Thermophysics</i> , 2012 , 33, 986-991	2.1	8
53	Existence of negative differential thermal conductance in one-dimensional diffusive thermal transport. <i>Physical Review E</i> , 2013 , 87, 062104	2.4	8
52	Short-range photoassociation of LiRb. <i>Physical Review A</i> , 2016 , 94,	2.6	8
51	Compressive mechanical response of graphene foams and their thermal resistance with copper interfaces. <i>APL Materials</i> , 2017 , 5, 036102	5.7	7
50	On the understanding of current-induced spin polarization of three-dimensional topological insulators. <i>Nature Communications</i> , 2019 , 10, 1461	17.4	7
49	Graphene field effect transistor as a radiation and photodetector 2012 ,		7
48	Unequal layer densities in bilayer Wigner crystal at high magnetic fields. <i>Physical Review B</i> , 2012 , 85,	3.3	7
47	Differences in self-assembly of spherical C60 and planar PTCDA on rippled graphene surfaces. <i>Carbon</i> , 2019 , 145, 549-555	10.4	6

46	Stueckelberg interferometry using periodically driven spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2017 , 95,	2.6	6
45	Detection of ionizing radiation using graphene field effect transistors 2009 ,		6
44	Creating Quantum Emitters in Hexagonal Boron Nitride Deterministically on Chip-Compatible Substrates. <i>Nano Letters</i> , 2021 , 21, 8182-8189	11.5	6
43	Modulation of graphene field effect by heavy charged particle irradiation. <i>Applied Physics Letters</i> , 2016 , 109, 253501	3.4	6
42	Absence of coupled thermal interfaces in Al ₂ O ₃ /Ni/Al ₂ O ₃ sandwich structure. <i>Applied Physics Letters</i> , 2017 , 111, 143102	3.4	5
41	Cross-sectional transmission electron microscopy of thin graphite films grown by chemical vapor deposition. <i>Diamond and Related Materials</i> , 2010 , 19, 143-146	3.5	5
40	Experimental studies of Bose-Einstein condensates in disorder. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 1321-1325	3.3	5
39	Pinned bilayer Wigner crystals with pseudospin magnetism. <i>Physical Review B</i> , 2006 , 73,	3.3	5
38	Measurements of the temperature dependence of the bubble phase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 119-121	3	5
37	Quantum defect theory description of weakly bound levels and Feshbach resonances in LiRb. <i>New Journal of Physics</i> , 2015 , 17, 045021	2.9	4
36	. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3734-3741	2.9	4
35	Gate field effects on the topological insulator BiSbTeSe ₂ interface. <i>Applied Physics Letters</i> , 2020 , 116, 031601	3.4	4
34	Graphene: Growth of Single Crystal Graphene Arrays by Locally Controlling Nucleation on Polycrystalline Cu Using Chemical Vapor Deposition (Adv. Mater. 42/2011). <i>Advanced Materials</i> , 2011 , 23, 4897-4897	24	4
33	Effect of energetic electron irradiation on graphene and graphene field-effect transistors 2011 ,		4
32	Visible light biophotosensors using biliverdin from <i>Antheraea yamamai</i> . <i>Optics Express</i> , 2018 , 26, 31817-31828	3.5	4
31	C ¹ _{1/2} , A ¹ _{1/2} , and b ³ ₀ ⁺ states of LiRb. <i>Physical Review A</i> , 2016 , 94,	2.6	4
30	Photoelectric Silk via Genetic Encoding and Bioassisted Plasmonics. <i>Advanced Biology</i> , 2020 , 4, e2000040	9.5	3
29	Highly skewed current-phase relation in superconductor-topological insulator-superconductor Josephson junctions. <i>Npj Quantum Materials</i> , 2020 , 5,	5	3

28	Thermal Conductivity Measurement of Graphene Composite. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1456, 57		3
27	Electrically Tunable Plasmonic Resonances with Graphene 2012 ,		3
26	Effect of Energetic Electron Irradiation on Graphene 2009 ,		3
25	MICROWAVE RESONANCE STUDY OF MELTING IN HIGH MAGNETIC FIELD WIGNER SOLID. <i>International Journal of Modern Physics B</i> , 2007 , 21, 1379-1385	1.1	3
24	Epitaxial Growth of Monolayer PdTe ₂ and Patterned PtTe ₂ by Direct Tellurization of Pd and Pt surfaces. <i>2D Materials</i> ,	5.9	3
23	Surface Microscopy Characterizations of Large Size Graphene Films Grown by Surface Segregation on Ni and Transferred to Si/SiO ₂ Substrate. <i>ECS Transactions</i> , 2009 , 19, 75-80	1	2
22	Deep tuning of photo-thermoelectricity in topological surface states. <i>Scientific Reports</i> , 2020 , 10, 16761	4.9	2
21	The d _{z²} state of LiRb. <i>Journal of Chemical Physics</i> , 2016 , 145, 224301	3.9	2
20	Opposite current-induced spin polarizations in bulk-metallic Bi ₂ Se ₃ and bulk-insulating Bi ₂ Te ₂ Se topological insulator thin flakes. <i>Physical Review B</i> , 2021 , 103,	3.3	2
19	Gate tunable MoS ₂ -based thermoelectric devices 2014 ,		1
18	Design and simulation of a graphene DEPFET detector 2012 ,		1
17	Detection of light, X-rays, and gamma rays using graphene field effect transistors fabricated on SiC, CdTe, and AlGaAs/GaAs substrates 2013 ,		1
16	Thermal Rectification in Graphene and Carbon Nanotube Systems Using Molecular Dynamics Simulations 2011 ,		1
15	Graphene field effect transistors for detection of ionizing radiation 2010 ,		1
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