

Chun Ning Lau

List of Publications by Citations

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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.

81
papers

17,996
citations

36
h-index

90
g-index

90
ext. papers

19,850
ext. citations

9.5
avg, IF

6.33
L-index

#	Paper	IF	Citations
81	Superior thermal conductivity of single-layer graphene. <i>Nano Letters</i> , 2008 , 8, 902-7	11.5	9908
80	Controlled ripple texturing of suspended graphene and ultrathin graphite membranes. <i>Nature Nanotechnology</i> , 2009 , 4, 562-6	28.7	1053
79	Dimensional crossover of thermal transport in few-layer graphene. <i>Nature Materials</i> , 2010 , 9, 555-8	27	1028
78	The mechanism of electroforming of metal oxide memristive switches. <i>Nanotechnology</i> , 2009 , 20, 215203-4	3.4	591
77	Spectroscopy of covalently functionalized graphene. <i>Nano Letters</i> , 2010 , 10, 4061-6	11.5	461
76	Density relaxation in a vibrated granular material. <i>Physical Review E</i> , 1995 , 51, 3957-3963	2.4	444
75	Infrared nanoscopy of dirac plasmons at the graphene-SiO ₂ interface. <i>Nano Letters</i> , 2011 , 11, 4701-5	11.5	431
74	Anomalous thermoelectric transport of Dirac particles in graphene. <i>Physical Review Letters</i> , 2009 , 102, 166808	7.4	334
73	Graphene-based atomic-scale switches. <i>Nano Letters</i> , 2008 , 8, 3345-9	11.5	289
72	Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. <i>Physical Review Letters</i> , 2016 , 117, 016602	7.4	270
71	Thickness-dependent thermal conductivity of encased graphene and ultrathin graphite. <i>Nano Letters</i> , 2010 , 10, 3909-13	11.5	251
70	Direct Observation of Nanoscale Switching Centers in Metal/Molecule/Metal Structures. <i>Nano Letters</i> , 2004 , 4, 569-572	11.5	209
69	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	3.4	197
68	Gate tunable quantum oscillations in air-stable and high mobility few-layer phosphorene heterostructures. <i>2D Materials</i> , 2015 , 2, 011001	5.9	172
67	Graphene: Materially Better Carbon. <i>MRS Bulletin</i> , 2010 , 35, 289-295	3.2	164
66	Wrinkling hierarchy in constrained thin sheets from suspended graphene to curtains. <i>Physical Review Letters</i> , 2011 , 106, 224301	7.4	150
65	Aryl functionalization as a route to band gap engineering in single layer graphene devices. <i>Nano Letters</i> , 2011 , 11, 4047-51	11.5	127

64	Ultrafast and nanoscale plasmonic phenomena in exfoliated graphene revealed by infrared pump-probe nanoscopy. <i>Nano Letters</i> , 2014 , 14, 894-900	11.5	121
63	Fabrication of graphene p-n-p junctions with contactless top gates. <i>Applied Physics Letters</i> , 2008 , 92, 203103	3.4	114
62	Raman nanometrology of graphene: Temperature and substrate effects. <i>Solid State Communications</i> , 2009 , 149, 1132-1135	1.6	100
61	Raman spectroscopy of ripple formation in suspended graphene. <i>Nano Letters</i> , 2009 , 9, 4172-6	11.5	98
60	Evidence for a spontaneous gapped state in ultraclean bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10802-5	11.5	92
59	Properties of suspended graphene membranes. <i>Materials Today</i> , 2012 , 15, 238-245	21.8	84
58	Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. <i>Nano Letters</i> , 2018 , 18, 4214-4219	11.5	79
57	Investigation of a model molecular-electronic rectifier with an evaporated Ti metal top contact. <i>Applied Physics Letters</i> , 2003 , 83, 3198-3200	3.4	78
56	Correlated insulating and superconducting states in twisted bilayer graphene below the magic angle. <i>Science Advances</i> , 2019 , 5, eaaw9770	14.3	75
55	Lithography-free fabrication of high quality substrate-supported and freestanding graphene devices. <i>Nano Research</i> , 2010 , 3, 98-102	10	74
54	Magnetoconductance oscillations and evidence for fractional quantum Hall states in suspended bilayer and trilayer graphene. <i>Physical Review Letters</i> , 2010 , 105, 246601	7.4	66
53	In situ observation of electrostatic and thermal manipulation of suspended graphene membranes. <i>Nano Letters</i> , 2012 , 12, 5470-4	11.5	60
52	Ionic Liquid Gating of Suspended MoS ₂ Field Effect Transistor Devices. <i>Nano Letters</i> , 2015 , 15, 5284-8	11.5	56
51	Organometallic hexahapto functionalization of single layer graphene as a route to high mobility graphene devices. <i>Advanced Materials</i> , 2013 , 25, 1131-6	24	53
50	Electrical transport in high-quality graphene pnp junctions. <i>New Journal of Physics</i> , 2009 , 11, 095008	2.9	52
49	Long-distance spin transport through a graphene quantum Hall antiferromagnet. <i>Nature Physics</i> , 2018 , 14, 907-911	16.2	47
48	Engineering symmetry breaking in 2D layered materials. <i>Nature Reviews Physics</i> , 2021 , 3, 193-206	23.6	45
47	Quantum transport and field-induced insulating states in bilayer graphene pnp junctions. <i>Nano Letters</i> , 2010 , 10, 4000-4	11.5	37

46	Force modulation of tunnel gaps in metal oxide memristive nanoswitches. <i>Applied Physics Letters</i> , 2009 , 95, 113503	3-4	36
45	Visualizing electrical breakdown and ON/OFF states in electrically switchable suspended graphene break junctions. <i>Nano Letters</i> , 2012 , 12, 1772-5	11.5	33
44	Broken symmetry quantum Hall states in dual-gated ABA trilayer graphene. <i>Nano Letters</i> , 2013 , 13, 1627-31	3-3	31
43	Local spectroscopy of the electrically tunable band gap in trilayer graphene. <i>Physical Review B</i> , 2013 , 87,	3-3	31
42	Distinct magneto-Raman signatures of spin-flip phase transitions in CrI. <i>Nature Communications</i> , 2020 , 11, 3879	17.4	31
41	Probing charging and localization in the quantum Hall regime by graphene p $\bar{n}\bar{n}$ junctions. <i>Physical Review B</i> , 2010 , 81,	3-3	29
40	Integer and Fractional Quantum Hall effect in Ultrahigh Quality Few-layer Black Phosphorus Transistors. <i>Nano Letters</i> , 2018 , 18, 229-234	11.5	26
39	Annealing and transport studies of suspended molybdenum disulfide devices. <i>Nanotechnology</i> , 2015 , 26, 105709	3-4	25
38	Raman spectroscopy of substrate-induced compression and substrate doping in thermally cycled graphene. <i>Physical Review B</i> , 2012 , 85,	3-3	25
37	Premature switching in graphene Josephson transistors. <i>Solid State Communications</i> , 2009 , 149, 1046-1048	4-0	21
36	Superior Current Carrying Capacity of Boron Nitride Encapsulated Carbon Nanotubes with Zero-Dimensional Contacts. <i>Nano Letters</i> , 2015 , 15, 6836-40	11.5	20
35	Surface transport and quantum Hall effect in ambipolar black phosphorus double quantum wells. <i>Science Advances</i> , 2017 , 3, e1603179	14-3	19
34	Topological Winding Number Change and Broken Inversion Symmetry in a Hofstadter's Butterfly. <i>Nano Letters</i> , 2015 , 15, 6395-9	11.5	18
33	Transport in suspended monolayer and bilayer graphene under strain: A new platform for material studies. <i>Carbon</i> , 2014 , 69, 336-341	10-4	18
32	Quantum Hall Effect Measurement of Spin-Orbit Coupling Strengths in Ultraclean Bilayer Graphene/WSe Heterostructures. <i>Nano Letters</i> , 2019 , 19, 7028-7034	11.5	17
31	Gate-tunable dissipation and "superconductor-insulator" transition in carbon nanotube Josephson junctions. <i>Physical Review Letters</i> , 2009 , 102, 016803	7-4	17
30	Graphene-based quantum Hall effect infrared photodetector operating at liquid Nitrogen temperatures. <i>Applied Physics Letters</i> , 2011 , 99, 013504	3-4	17
29	Energy Gaps and Layer Polarization of Integer and Fractional Quantum Hall States in Bilayer Graphene. <i>Physical Review Letters</i> , 2016 , 116, 056601	7-4	16

28	Tunable Symmetries of Integer and Fractional Quantum Hall Phases in Heterostructures with Multiple Dirac Bands. <i>Physical Review Letters</i> , 2016 , 117, 076807	7.4	16
27	Quantum conductance oscillations in metal/molecule/metal switches at room temperature. <i>Physical Review Letters</i> , 2008 , 101, 016802	7.4	16
26	Tunable Lifshitz Transitions and Multiband Transport in Tetralayer Graphene. <i>Physical Review Letters</i> , 2018 , 120, 096802	7.4	15
25	Weak localization and electron-electron interactions in few layer black phosphorus devices. <i>2D Materials</i> , 2016 , 3, 034003	5.9	13
24	Phase diffusion in single-walled carbon nanotube Josephson transistors. <i>Nano Research</i> , 2008 , 1, 145-151	10	12
23	Reproducibility in the fabrication and physics of moiré materials. <i>Nature</i> , 2022 , 602, 41-50	50.4	11
22	Emergent quantum materials. <i>MRS Bulletin</i> , 2020 , 45, 340-347	3.2	7
21	Quantum parity Hall effect in Bernal-stacked trilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10286-10290	11.5	5
20	Characterization of quantum conducting channels in metal/molecule/metal devices using pressure-modulated conductance microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 943-948	2.6	5
19	Suspension and measurement of graphene and Bi ₂ Se ₃ thin crystals. <i>Nanotechnology</i> , 2011 , 22, 285305	3.4	5
18	Spatial Mapping of the Dirac Point in Monolayer and Bilayer Graphene. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 88-91	2.6	5
17	Corrigendum on The mechanism of electroforming of metal oxide memristive switches <i>Nanotechnology</i> , 2010 , 21, 339803-339803	3.4	5
16	Periodic alignment of Si quantum dots on hafnium oxide coated single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 123109	3.4	4
15	Raman nanometrology of graphene on arbitrary substrates and at variable temperature 2008 ,		4
14	Room-Temperature Topological Phase Transition in Quasi-One-Dimensional Material Bi ₄ I ₄ . <i>Physical Review X</i> , 2021 , 11,	9.1	4
13	Band gap and correlated phenomena in bilayer and trilayer graphene 2013 ,		3
12	Photoelectric polarization-sensitive broadband photoresponse from interface junction states in graphene. <i>2D Materials</i> , 2017 , 4, 015002	5.9	3
11	Fractional and Symmetry-Broken Chern Insulators in Tunable Moiré Superlattices. <i>Nano Letters</i> , 2019 , 19, 4321-4326	11.5	2

10	Gate-Tunable Transport in Quasi-One-Dimensional Bil Field Effect Transistors.. <i>Nano Letters</i> , 2022	11.5	2
9	Enhancing Perpendicular Magnetic Anisotropy in Garnet Ferrimagnet by Interfacing with Few-Layer WTe.. <i>Nano Letters</i> , 2022 ,	11.5	2
8	Substrate-Dependent Band Structures in Trilayer Graphene/h-BN Heterostructures. <i>Physical Review Letters</i> , 2020 , 125, 246401	7.4	1
7	Electronic double slit interferometers based on carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 4043-6	11.5	1
6	Heat Transfer in Encased Graphene 2009 ,		1
5	Strange metal behavior of the Hall angle in twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 103,	3.3	1
4	Layer- and gate-tunable spin-orbit coupling in a high-mobility few-layer semiconductor. <i>Science Advances</i> , 2021 , 7,	14.3	1
3	CrPtTe (D.45): A Family of Air-Stable and Exfoliatable van der Waals Ferromagnets.. <i>ACS Nano</i> , 2022 ,	16.7	1
2	Helical Edge States and Quantum Phase Transitions in Tetralayer Graphene. <i>Physical Review Letters</i> , 2020 , 125, 036803	7.4	0
1	Study of the effects of growth temperature and time on the alignment of Si quantum dots on hafnium oxide coated single wall carbon nanotubes. <i>Thin Solid Films</i> , 2010 , 518, S35-S37	2.2	