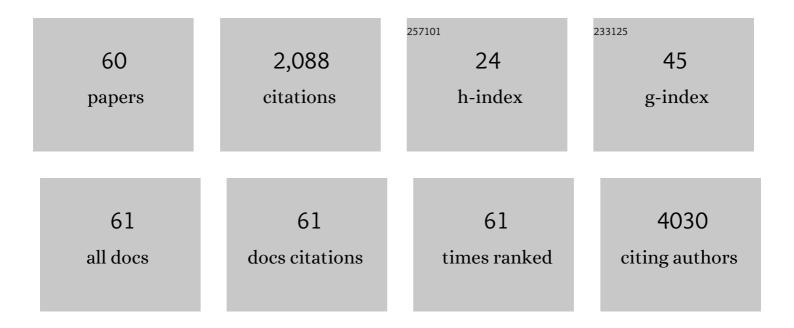
Seong Chu Lim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Heat Dissipation of Transparent Graphene Defoggers. Advanced Functional Materials, 2012, 22, 4819-4826.	7.8	238
2	Contact resistance between metal and carbon nanotube interconnects: Effect of work function and wettability. Applied Physics Letters, 2009, 95, .	1.5	184
3	Tuning Carrier Tunneling in van der Waals Heterostructures for Ultrahigh Detectivity. Nano Letters, 2017, 17, 453-459.	4.5	178
4	Charge Transport in MoS ₂ /WSe ₂ van der Waals Heterostructure with Tunable Inversion Layer. ACS Nano, 2017, 11, 3832-3840.	7.3	175
5	Facile Physical Route to Highly Crystalline Graphene. Advanced Functional Materials, 2011, 21, 3496-3501.	7.8	97
6	Thickness-dependent in-plane thermal conductivity of suspended MoS ₂ grown by chemical vapor deposition. Nanoscale, 2017, 9, 2541-2547.	2.8	86
7	Modulating the Functions of MoS ₂ /MoTe ₂ van der Waals Heterostructure <i>via</i> Thickness Variation. ACS Nano, 2019, 13, 4478-4485.	7.3	85
8	Electron Excess Doping and Effective Schottky Barrier Reduction on the MoS ₂ / <i>h</i> BN Heterostructure. Nano Letters, 2016, 16, 6383-6389.	4.5	78
9	Preferential etching of metallic single-walled carbon nanotubes with small diameter by fluorine gas. Physical Review B, 2006, 73, .	1.1	74
10	Sensitive photo-thermal response of graphene oxide for mid-infrared detection. Nanoscale, 2015, 7, 15695-15700.	2.8	57
11	Junction-Structure-Dependent Schottky Barrier Inhomogeneity and Device Ideality of Monolayer MoS ₂ Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 11240-11246.	4.0	57
12	Humidity-assisted selective reactivity between NO2 and SO2 gas on carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 4502.	6.7	54
13	Terahertz optical and electrical properties of hydrogen-functionalized carbon nanotubes. Physical Review B, 2007, 75, .	1.1	52
14	Thickness-dependent carrier mobility of ambipolar MoTe2: Interplay between interface trap and Coulomb scattering. Applied Physics Letters, 2017, 110, .	1.5	42
15	Understanding Coulomb Scattering Mechanism in Monolayer MoS ₂ Channel in the Presence of <i>h</i> -BN Buffer Layer. ACS Applied Materials & Interfaces, 2017, 9, 5006-5013.	4.0	37
16	Adhesion Energies of 2D Graphene and MoS ₂ to Silicon and Metal Substrates. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700512.	0.8	37
17	Flexion bonding transfer of multilayered graphene as a top electrode in transparent organic light-emitting diodes. Scientific Reports, 2015, 5, 17748.	1.6	35
18	Suppression of Interfacial Current Fluctuation in MoTe ₂ Transistors with Different Dielectrics. ACS Applied Materials & Interfaces, 2016, 8, 19092-19099.	4.0	35

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19	In situmanipulation and characterizations using nanomanipulators inside a field emission-scanning electron microscope. Review of Scientific Instruments, 2003, 74, 4021-4025.	0.6	34
20	Ultrasensitive Photodetection in MoS ₂ Avalanche Phototransistors. Advanced Science, 2021, 8, e2102437.	5.6	34
21	Photocurrent Switching of Monolayer MoS ₂ Using a Metal–Insulator Transition. Nano Letters, 2017, 17, 673-678.	4.5	31
22	Tunable Mobility in Double-Gated MoTe ₂ Field-Effect Transistor: Effect of Coulomb Screening and Trap Sites. ACS Applied Materials & Interfaces, 2017, 9, 29185-29192.	4.0	31
23	Nanomanipulator-assisted fabrication and characterization of carbon nanotubes inside scanning electron microscope. Micron, 2005, 36, 471-476.	1.1	28
24	Frequency-dependent optical constants and conductivities of hydrogen-functionalized single-walled carbon nanotubes. Applied Physics Letters, 2005, 87, 041908.	1.5	28
25	Parameter control for enhanced peak-to-valley current ratio in a MoS ₂ /MoTe ₂ van der Waals heterostructure. Nanoscale, 2018, 10, 12322-12329.	2.8	25
26	Photocurrent of CdSe nanocrystals on single-walled carbon nanotube-field effect transistor. Applied Physics Letters, 2008, 92, .	1.5	22
27	Defect-Affected Photocurrent in MoTe ₂ FETs. ACS Applied Materials & Interfaces, 2019, 11, 10068-10073.	4.0	19
28	A diameter-selective chiral separation of single-wall carbon nanotubes using nitronium lons. Journal of Electronic Materials, 2006, 35, 235-242.	1.0	18
29	Positive gate bias stress instability of carbon nanotube thin film transistors. Applied Physics Letters, 2012, 101, 053504.	1.5	17
30	Ultrafast nonlinear travel of hot carriers driven by high-field terahertz pulse. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 144003.	0.6	15
31	Origin of enhanced field emission characteristics postplasma treatment of multiwalled carbon nanotube array. Applied Physics Letters, 2008, 93, 063101.	1.5	13
32	Metal-coated carbon fiber for lighter electrical metal wires. Synthetic Metals, 2016, 222, 180-185.	2.1	13
33	Unsaturated Drift Velocity of Monolayer Graphene. Nano Letters, 2018, 18, 1575-1581.	4.5	13
34	Phase conversion of chemically exfoliated molybdenum disulfide. Current Applied Physics, 2017, 17, 60-65.	1.1	12
35	Semimetallic Graphene for Infrared Sensing. ACS Applied Materials & amp; Interfaces, 2019, 11, 19565-19571.	4.0	12
36	Wiedemann-Franz law of Cu-coated carbon fiber. Carbon, 2020, 162, 339-345.	5.4	11

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37	Quasi-2D Halide Perovskite Memory Device Formed by Acid–Base Binary Ligand Solution Composed of Oleylamine and Oleic Acid. ACS Applied Materials & Interfaces, 2021, 13, 40891-40900.	4.0	10
38	Graphene-CdSe quantum dot hybrid as a platform for the control of carrier temperature. FlatChem, 2017, 6, 77-82.	2.8	9
39	Unraveled Face-Dependent Effects of Multilayered Graphene Embedded in Transparent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 43105-43112.	4.0	9
40	Torsional Actuator Powered by Environmental Energy Harvesting from Diurnal Temperature Variation. ACS Sustainable Chemistry and Engineering, 2016, 4, 6647-6652.	3.2	8
41	Correlation of Defect-Induced Photoluminescence and Raman Scattering in Monolayer WS ₂ . Journal of Physical Chemistry C, 2022, 126, 7177-7183.	1.5	8
42	Gas adsorbates are Coulomb scatterers, rather than neutral ones, in a monolayer MoS ₂ field effect transistor. Nanoscale, 2018, 10, 10856-10862.	2.8	7
43	Temperature-Dependent Opacity of the Gate Field Inside MoS2 Field-Effect Transistors. ACS Applied Materials & amp; Interfaces, 2019, 11, 29022-29028.	4.0	7
44	Reduced interfacial fluctuation leading enhanced mobility in a monolayer MoS ₂ DG FET under low vertical electric field. Nanotechnology, 2019, 30, 345206.	1.3	7
45	Gate tunable photoresponse of a two-dimensional p-n junction for high performance broadband photodetector. Applied Materials Today, 2022, 26, 101285.	2.3	7
46	Optical Duality of Molybdenum Disulfide: Metal and Semiconductor. Nano Letters, 2022, 22, 5207-5213.	4.5	7
47	Transient Carrier Cooling Enhanced by Grain Boundaries in Graphene Monolayer. ACS Applied Materials & Interfaces, 2017, 9, 41026-41033.	4.0	6
48	Effects of Surface Modifications to Single and Multilayer Graphene Temperature Coefficient of Resistance. ACS Applied Materials & Interfaces, 2020, 12, 48890-48898.	4.0	5
49	Synthesis and Characterization of Bandgap-modulated Organic Lead Halide Single Crystals. Journal of the Korean Physical Society, 2018, 73, 1716-1724.	0.3	4
50	Identifying the Origin of Defect-Induced Raman Mode in WS ₂ Monolayers via Density Functional Perturbation Theory. Journal of Physical Chemistry C, 2022, 126, 4182-4187.	1.5	4
51	In situ multi-dimensional actuation measurement method for tensile actuation of paraffin-infiltrated multi-wall carbon nanotube yarns. Review of Scientific Instruments, 2017, 88, 075001.	0.6	3
52	Thickness effect on low-power driving of MoS2 transistors in balanced double-gate fields. Nanotechnology, 2020, 31, 255201.	1.3	2
53	Enhanced Electron Heat Conduction in TaS3 1D Metal Wire. Materials, 2021, 14, 4477.	1.3	2
54	Modulating the shape of ZnO nanostructures grown by using thermal chemical-vapor deposition. Journal of the Korean Physical Society, 2015, 67, 1588-1591.	0.3	1

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55	Impact of Heat Treatment on a Hetero-Stacked MoS ₂ /\${h}\$ -BN Field-Effect Transistor. IEEE Electron Device Letters, 2019, 40, 1626-1629.	2.2	1
56	Crossover between thermo- and field-assisted carrier injection in staggered pn heterojunction of MoTe2 and ReS2. Applied Surface Science, 2021, 558, 149870.	3.1	1
57	Probing Pathways of Conductive Filaments of FAMAPbI ₃ with Controlled FA Composition Using Conductive Atomic Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 25067-25074.	1.5	1
58	Electrical and Optical Properties of Carbon Nanotubes Characterized by Terahertz Electromagnetic Pulses. , 2005, , .		0
59	Paper No S4.4: Colored OLED With a Multilayered Graphene Electrode for Light-Adaptable Displays. Digest of Technical Papers SID International Symposium, 2015, 46, 20-20.	0.1	0
60	Investigation of Cation Exchange Behaviors of FAxMA1â^'xPbI3 Films Using Dynamic Spin-Coating. Materials, 2021, 14, 6422.	1.3	0