

# Gang Hee Han

## List of Publications by Year in descending order

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69  
papers

8,691  
citations

53794

45  
h-index

98798

67  
g-index

70  
all docs

70  
docs citations

70  
times ranked

14069  
citing authors



#	ARTICLE	IF	CITATIONS
19	Load-Dependent Friction Hysteresis on Graphene. ACS Nano, 2016, 10, 5161-5168.	14.6	56
20	Photochemical Reaction in Monolayer MoS <sub>2</sub> <i>via</i> Correlated Photoluminescence, Raman Spectroscopy, and Atomic Force Microscopy. ACS Nano, 2016, 10, 5230-5236.	14.6	101
21	Absorption dichroism of monolayer 1Tâ€²-MoTe <sub>2</sub> in visible range. 2D Materials, 2016, 3, 031010.	4.4	32
22	Stranskiâ€“Krastanov and Volmerâ€“Weber CVD Growth Regimes To Control the Stacking Order in Bilayer Graphene. Nano Letters, 2016, 16, 6403-6410.	9.1	95
23	Enhanced Light Emission from Monolayer Semiconductors by Forming Heterostructures with ZnO Thin Films. ACS Applied Materials & Interfaces, 2016, 8, 28809-28815.	8.0	47
24	Optical Gain in MoS <sub>2</sub> <i>via</i> Coupling with Nanostructured Substrate: Fabryâ€“Perot Interference and Plasmonic Excitation. ACS Nano, 2016, 10, 8192-8198.	14.6	69
25	Electron Excess Doping and Effective Schottky Barrier Reduction on the MoS <sub>2</sub> / <i>h</i> -BN Heterostructure. Nano Letters, 2016, 16, 6383-6389.	9.1	78
26	Vertically Conductive MoS <sub>2</sub> Spiral Pyramid. Advanced Materials, 2016, 28, 7723-7728.	21.0	63
27	Modulating Electronic Properties of Monolayer MoS <sub>2</sub> <i>via</i> Electron-Withdrawing Functional Groups of Graphene Oxide. ACS Nano, 2016, 10, 10446-10453.	14.6	41
28	Misorientation-angle-dependent electrical transport across molybdenum disulfide grain boundaries. Nature Communications, 2016, 7, 10426.	12.8	172
29	Biexciton Emission from Edges and Grain Boundaries of Triangular WS <sub>2</sub> Monolayers. ACS Nano, 2016, 10, 2399-2405.	14.6	220
30	Visualizing Point Defects in Transition-Metal Dichalcogenides Using Optical Microscopy. ACS Nano, 2016, 10, 770-777.	14.6	58
31	Metalâ€“Insulatorâ€“Semiconductor Diode Consisting of Two-Dimensional Nanomaterials. Nano Letters, 2016, 16, 1858-1862.	9.1	74
32	Selective Amplification of the Primary Exciton in a $\text{MoS}_2$ Monolayer. Physical Review Letters, 2015, 115, 226801.	7.8	54
33	Efficient Excitonâ€“Plasmon Conversion in Ag Nanowire/Monolayer MoS <sub>2</sub> Hybrids: Direct Imaging and Quantitative Estimation of Plasmon Coupling and Propagation. Advanced Optical Materials, 2015, 3, 943-947.	7.3	48
34	MoS <sub>2</sub> monolayers for propagating plasmon emitter and detector in long range. , 2015, , .		0
35	Seeded growth of highly crystalline molybdenum disulphide monolayers at controlled locations. Nature Communications, 2015, 6, 6128.	12.8	259
36	Characterization of the structural defects in CVD-grown monolayered MoS <sub>2</sub> using near-field photoluminescence imaging. Nanoscale, 2015, 7, 11909-11914.	5.6	92

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37	Synthesis of Centimeter-Scale Monolayer Tungsten Disulfide Film on Gold Foils. ACS Nano, 2015, 9, 5510-5519.	14.6	166
38	Fano Resonance and Spectrally Modified Photoluminescence Enhancement in Monolayer MoS <sub>2</sub> Integrated with Plasmonic Nanoantenna Array. Nano Letters, 2015, 15, 3646-3653.	9.1	246
39	Spectroscopic Visualization of Grain Boundaries of Monolayer Molybdenum Disulfide by Stacking Bilayers. ACS Nano, 2015, 9, 11042-11048.	14.6	47
40	Semiconductor-Insulator-Semiconductor Diode Consisting of Monolayer MoS <sub>2</sub> , h-BN, and GaN Heterostructure. ACS Nano, 2015, 9, 10032-10038.	14.6	88
41	Two-dimensional membrane as elastic shell with proof on the folds revealed by three-dimensional atomic mapping. Nature Communications, 2015, 6, 8935.	12.8	59
42	Scalable Production of Highly Sensitive Nanosensors Based on Graphene Functionalized with a Designed G Protein-Coupled Receptor. Nano Letters, 2014, 14, 2709-2714.	9.1	105
43	Scalable arrays of chemical vapor sensors based on DNA-decorated graphene. Nano Research, 2014, 7, 95-103.	10.4	45
44	Frictional Behavior of Atomically Thin Sheets: Hexagonal-Shaped Graphene Islands Grown on Copper by Chemical Vapor Deposition. ACS Nano, 2014, 8, 5010-5021.	14.6	136
45	DNA-decorated graphene nanomesh for detection of chemical vapors. Applied Physics Letters, 2013, 103, 183110.	3.3	45
46	Continuous Growth of Hexagonal Graphene and Boron Nitride In-Plane Heterostructures by Atmospheric Pressure Chemical Vapor Deposition. ACS Nano, 2013, 7, 10129-10138.	14.6	170
47	Probing graphene grain boundaries with optical microscopy. Nature, 2012, 490, 235-239.	27.8	352
48	Band-gap engineering in chemically conjugated bilayer graphene: <i>Ab initio</i> calculations. Physical Review B, 2012, 85, .	3.2	29
49	Heat Dissipation of Transparent Graphene Defoggers. Advanced Functional Materials, 2012, 22, 4819-4826.	14.9	238
50	Laser Thinning for Monolayer Graphene Formation: Heat Sink and Interference Effect. ACS Nano, 2011, 5, 263-268.	14.6	94
51	Small Hysteresis Nanocarbon-Based Integrated Circuits on Flexible and Transparent Plastic Substrate. Nano Letters, 2011, 11, 1344-1350.	9.1	142
52	POLY(ETHYLENE CO-VINYL ACETATE)-ASSISTED ONE-STEP TRANSFER OF ULTRA-LARGE GRAPHENE. Nano, 2011, 06, 59-65.	1.0	35
53	Influence of Copper Morphology in Forming Nucleation Seeds for Graphene Growth. Nano Letters, 2011, 11, 4144-4148.	9.1	373
54	Graphene/Carbon Nanotube Hybrid-Based Transparent 2D Optical Array. Advanced Materials, 2011, 23, 3809-3814.	21.0	37

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55	Transfer-Free Growth of Few-Layer Graphene by Self-Assembled Monolayers. <i>Advanced Materials</i> , 2011, 23, 4392-4397.	21.0	79
56	Optical Arrays: Graphene/Carbon Nanotube Hybrid-Based Transparent 2D Optical Array ( <i>Adv. Mater.</i> )	21.0	25
57	Low-temperature graphene growth using epochal catalyst of PdCo alloy. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	9
58	UV-LIGHT-ASSISTED OXIDATIVE sp <sup>3</sup> HYBRIDIZATION OF GRAPHENE. <i>Nano</i> , 2011, 06, 409-418.	1.0	36
59	CRITERIA FOR PRODUCING YARNS FROM VERTICALLY ALIGNED CARBON NANOTUBES. <i>Nano</i> , 2010, 05, 31-38.	1.0	14
60	Graphene/Substrate Charge Transfer Characterized by Inverse Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21618-21624.	3.1	61
61	Synthesis of Edge-Closed Graphene Ribbons with Enhanced Conductivity. <i>ACS Nano</i> , 2010, 4, 5480-5486.	14.6	41
62	Layer-by-Layer Doping of Few-Layer Graphene Film. <i>ACS Nano</i> , 2010, 4, 4595-4600.	14.6	293
63	Control of Electronic Structure of Graphene by Various Dopants and Their Effects on a Nanogenerator. <i>Journal of the American Chemical Society</i> , 2010, 132, 15603-15609.	13.7	247
64	LARGE-AREA GRAPHENE-BASED FLEXIBLE TRANSPARENT CONDUCTING FILMS. <i>Nano</i> , 2009, 04, 83-90.	1.0	50
65	Synthesis of large-area graphene layers on nickel film by chemical vapor deposition: wrinkle formation. <i>Proceedings of SPIE</i> , 2009, , .	0.8	4
66	Synthesis of Large-Area Graphene Layers on Poly-Nickel Substrate by Chemical Vapor Deposition: Wrinkle Formation. <i>Advanced Materials</i> , 2009, 21, 2328-2333.	21.0	814
67	Contact resistance between metal and carbon nanotube interconnects: Effect of work function and wettability. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	184
68	Efficient Synthesis of Individual Single-Walled Carbon Nanotube by Water-Based Catalyst with Poly(vinylpyrrolidone). <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 329-334.	0.9	6
69	Schottky barrier engineering in carbon nanotube with various metal electrodes. , 2007, , .		3