Young Hee Lee

List of Publications by Citations

294 papers	21,653 citations	71 h-index	142 g-index
328 ext. papers	25,234 ext. citations	12.1 avg, IF	7.08 L-index

#	Paper	IF	Citations
294	Efficient Reduction of Graphite Oxide by Sodium Borohydride and Its Effect on Electrical Conductance. *Advanced Functional Materials*, **2009**, 19, 1987-1992	15.6	1831
293	Recent development of two-dimensional transition metal dichalcogenides and their applications. *Materials Today*, **2017**, 20, 116-130	21.8	1250
292	Thermoelectrics. Dense dislocation arrays embedded in grain boundaries for high-performance bulk thermoelectrics. *Science*, **2015**, 348, 109-14	33.3	1163
291	Synthesis of Large-Area Graphene Layers on Poly-Nickel Substrate by Chemical Vapor Deposition: Wrinkle Formation. *Advanced Materials*, **2009**, 21, 2328-2333	24	766
290	DEVICE TECHNOLOGY. Phase patterning for ohmic homojunction contact in MoTe *Science*, **2015**, 349, 625-8	33.3	679
289	Bandgap opening in few-layered monoclinic MoTe2. *Nature Physics*, **2015**, 11, 482-486	16.2	596
288	Asymmetric Supercapacitors Based on Graphene/MnO2 Nanospheres and Graphene/MoO3 Nanosheets with High Energy Density. *Advanced Functional Materials*, **2013**, 23, 5074-5083	15.6	551
287	Carbon-based electrochemical capacitors. *ChemSusChem*, **2012**, 5, 480-99	8.3	436
286	Adsorption of NH3 and NO2 molecules on carbon nanotubes. *Applied Physics Letters*, **2001**, 79, 3863-3865	3.4	358
285	Probing graphene grain boundaries with optical microscopy. *Nature*, **2012**, 490, 235-9	50.4	307
284	Synthesis of large-area multilayer hexagonal boron nitride for high material performance. *Nature Communications*, **2015**, 6, 8662	17.4	298
283	Room Temperature Semiconductor-Metal Transition of MoTe2 Thin Films Engineered by Strain. *Nano Letters*, **2016**, 16, 188-93	11.5	289
282	Transferred wrinkled Al2O3 for highly stretchable and transparent graphene-carbon nanotube transistors. *Nature Materials*, **2013**, 12, 403-9	27	273
281	Layer-by-layer doping of few-layer graphene film. *ACS Nano*, **2010**, 4, 4595-600	16.7	268
280	Silicon nanowires for Li-based battery anodes: a review. *Journal of Materials Chemistry A*, **2013**, 1, 9566	13	262
279	van der Waals Layered Materials: Opportunities and Challenges. *ACS Nano*, **2017**, 11, 11803-11830	16.7	258
278	Confocal absorption spectral imaging of MoS2: optical transitions depending on the atomic thickness of intrinsic and chemically doped MoS2. *Nanoscale*, **2014**, 6, 13028-35	7.7	256

277	Seamless stitching of graphene domains on polished copper (111) foil. *Advanced Materials*, **2015**, 27, 1376-82	24	253
276	Carbon nanotube-bridged graphene 3D building blocks for ultrafast compact supercapacitors. *ACS Nano*, **2015**, 9, 2018-27	16.7	251
275	Wafer-scale single-crystal hexagonal boron nitride film via self-collimated grain formation. *Science*, **2018**, 362, 817-821	33.3	233
274	Seeded growth of highly crystalline molybdenum disulphide monolayers at controlled locations. *Nature Communications*, **2015**, 6, 6128	17.4	229
273	Control of electronic structure of graphene by various dopants and their effects on a nanogenerator. *Journal of the American Chemical Society*, **2010**, 132, 15603-9	16.4	223
272	Heat Dissipation of Transparent Graphene Defoggers. *Advanced Functional Materials*, **2012**, 22, 4819-4826	15.6	204
271	Graphene Versus Carbon Nanotubes in Electronic Devices. *Advanced Functional Materials*, **2011**, 21, 3806-3826	15.6	194
270	High-performance n-type black phosphorus transistors with type control via thickness and contact-metal engineering. *Nature Communications*, **2015**, 6, 7809	17.4	192
269	Two-terminal floating-gate memory with van der Waals heterostructures for ultrahigh on/off ratio. *Nature Communications*, **2016**, 7, 12725	17.4	190
268	High Pseudocapacitance from Ultrathin V2O5 Films Electrodeposited on Self-Standing Carbon-Nanofiber Paper. *Advanced Functional Materials*, **2011**, 21, 2541-2547	15.6	190
267	Structural and quantum-state phase transitions in van der Waals layered materials. *Nature Physics*, **2017**, 13, 931-937	16.2	187
266	Carbon-Based Materials for Lithium-Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. *ChemSusChem*, **2015**, 8, 2284-311	8.3	181
265	Phase-Engineered Synthesis of Centimeter-Scale 1TQand 2H-Molybdenum Ditelluride Thin Films. *ACS Nano*, **2015**, 9, 6548-54	16.7	180
264	Biexciton Emission from Edges and Grain Boundaries of Triangular WS Monolayers. *ACS Nano*, **2016**, 10, 2399-405	16.7	175
263	Low-Temperature Ohmic Contact to Monolayer MoS by van der Waals Bonded Co/h-BN Electrodes. *Nano Letters*, **2017**, 17, 4781-4786	11.5	164
262	A Van Der Waals Homojunction: Ideal p-n Diode Behavior in MoSe2. *Advanced Materials*, **2015**, 27, 5534-40	24	162
261	Large-area monolayer hexagonal boron nitride on Pt foil. *ACS Nano*, **2014**, 8, 8520-8	16.7	160
260	Contact resistance between metal and carbon nanotube interconnects: Effect of work function and wettability. *Applied Physics Letters*, **2009**, 95, 264103	3.4	158

259	Directional dependent piezoelectric effect in CVD grown monolayer MoS 2 for flexible piezoelectric nanogenerators. *Nano Energy*, **2016**, 22, 483-489	17.1	154
258	Bandgap engineering of two-dimensional semiconductor materials. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	152
257	Electrical and Optical Characterization of MoS2 with Sulfur Vacancy Passivation by Treatment with Alkanethiol Molecules. *ACS Nano*, **2015**, 9, 8044-53	16.7	151
256	Highly Interconnected Si Nanowires for Improved Stability Li-Ion Battery Anodes. *Advanced Energy Materials*, **2011**, 1, 1154-1161	21.8	146
255	Synthesis of centimeter-scale monolayer tungsten disulfide film on gold foils. *ACS Nano*, **2015**, 9, 5510-9	16.7	143
254	van der Waals Metallic Transition Metal Dichalcogenides. *Chemical Reviews*, **2018**, 118, 6297-6336	68.1	143
253	Misorientation-angle-dependent electrical transport across molybdenum disulfide grain boundaries. *Nature Communications*, **2016**, 7, 10426	17.4	138
252	Large Work Function Modulation of Monolayer MoS2 by Ambient Gases. *ACS Nano*, **2016**, 10, 6100-7	16.7	137
251	Tuning Carrier Tunneling in van der Waals Heterostructures for Ultrahigh Detectivity. *Nano Letters*, **2017**, 17, 453-459	11.5	134
250	Charge Transport in MoS/WSe van der Waals Heterostructure with Tunable Inversion Layer. *ACS Nano*, **2017**, 11, 3832-3840	16.7	130
249	Electrically Tunable Slow Light Using Graphene Metamaterials. *ACS Photonics*, **2018**, 5, 1800-1807	6.3	128
248	Anchoring a Liquid Crystal Molecule on a Single-Walled Carbon Nanotube. *Journal of Physical Chemistry C*, **2007**, 111, 1620-1624	3.8	127
247	Terahertz conductivity of anisotropic single walled carbon nanotube films. *Applied Physics Letters*, **2002**, 80, 3403-3405	3.4	124
246	Redox-Driven Route for Widening Voltage Window in Asymmetric Supercapacitor. *ACS Nano*, **2018**, 12, 8494-8505	16.7	117
245	Optical and electrical properties of preferentially anisotropic single-walled carbon-nanotube films in terahertz region. *Journal of Applied Physics*, **2004**, 95, 5736-5740	2.5	117
244	Two-Terminal Multibit Optical Memory via van der Waals Heterostructure. *Advanced Materials*, **2019**, 31, e1807075	24	111
243	High energy density and enhanced stability of asymmetric supercapacitors with mesoporous MnO2@CNT and nanodot MoO3@CNT free-standing films. *Energy Storage Materials*, **2018**, 12, 223-231	19.4	102
242	Alumina-coated silicon-based nanowire arrays for high quality Li-ion battery anodes. *Journal of Materials Chemistry*, **2012**, 22, 24618		102

241	Observing grain boundaries in CVD-grown monolayer transition metal dichalcogenides. *ACS Nano*, **2014**, 8, 11401-8	16.7	97
240	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. *Nature Communications*, **2016**, 7, 13278	17.4	96
239	Heterogeneous Defect Domains in Single-Crystalline Hexagonal WS. *Advanced Materials*, **2017**, 29, 1605043	24	94
238	A density functional theory study of the tunable structure, magnetism and metal-insulator phase transition in VS2 monolayers induced by in-plane biaxial strain. *Nano Research*, **2015**, 8, 1348-1356	10	89
237	Indirect Bandgap Puddles in Monolayer MoS by Substrate-Induced Local Strain. *Advanced Materials*, **2016**, 28, 9378-9384	24	87
236	Facile Physical Route to Highly Crystalline Graphene. *Advanced Functional Materials*, **2011**, 21, 3496-3501	15.6	84
235	Active hydrogen evolution through lattice distortion in metallic MoTe 2. *2D Materials*, **2017**, 4, 025061	5.9	81
234	Oxidation Effect in Octahedral Hafnium Disulfide Thin Film. *ACS Nano*, **2016**, 10, 1309-16	16.7	80
233	Synthesis of hexagonal boron nitride heterostructures for 2D van der Waals electronics. *Chemical Society Reviews*, **2018**, 47, 6342-6369	58.5	80
232	Laser thinning for monolayer graphene formation: heat sink and interference effect. *ACS Nano*, **2011**, 5, 263-8	16.7	80
231	Fabrication of Supercapacitor Electrodes Using Fluorinated Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry B*, **2003**, 107, 8812-8815	3.4	78
230	Solution-Processed Graphite Membrane from Reassembled Graphene Oxide. *Chemistry of Materials* , **2012**, 24, 594-599	9.6	77
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228	Ferromagnetic Order at Room Temperature in Monolayer WSe Semiconductor via Vanadium Dopant. *Advanced Science*, **2020**, 7, 1903076	13.6	74
227	Hollow carbon nanospheres/silicon/alumina core-shell film as an anode for lithium-ion batteries. *Scientific Reports*, **2015**, 5, 7659	4.9	74
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223	A High-On/Off-Ratio Floating-Gate Memristor Array on a Flexible Substrate via CVD-Grown Large-Area 2D Layer Stacking. *Advanced Materials*, **2017**, 29, 1703363	24	68
222	Near-zero hysteresis and near-ideal subthreshold swing in h-BN encapsulated single-layer MoS 2 field-effect transistors. *2D Materials*, **2018**, 5, 031001	5.9	68
221	Wafer-Scale Single-Crystalline AB-Stacked Bilayer Graphene. *Advanced Materials*, **2016**, 28, 8177-8183	24	67
220	Leaf Vein-Inspired Nanochanneled Graphene Film for Highly Efficient Micro-Supercapacitors. *Advanced Energy Materials*, **2015**, 5, 1500003	21.8	65
219	Preferential etching of metallic single-walled carbon nanotubes with small diameter by fluorine gas. *Physical Review B*, **2006**, 73,	3.3	65
218	Fast-Charging High-Energy Battery-Supercapacitor Hybrid: Anodic Reduced Graphene Oxide-Vanadium(IV) Oxide Sheet-on-Sheet Heterostructure. *ACS Nano*, **2019**, 13, 10776-10786	16.7	63
217	Dependence of Raman spectra G? band intensity on metallicity of single-wall carbon nanotubes. *Physical Review B*, **2007**, 76,	3.3	62
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211	Electrical Transport Properties of Polymorphic MoS2. *ACS Nano*, **2016**, 10, 7500-6	16.7	58
210	Long-Range Lattice Engineering of MoTe by a 2D Electride. *Nano Letters*, **2017**, 17, 3363-3368	11.5	56
209	Metal-Insulator-Semiconductor Diode Consisting of Two-Dimensional Nanomaterials. *Nano Letters*, **2016**, 16, 1858-62	11.5	56
208	Transfer assembly for two-dimensional van der Waals heterostructures. *2D Materials*, **2020**, 7, 022005	5.9	54
207	Vertically Conductive MoS2 Spiral Pyramid. *Advanced Materials*, **2016**, 28, 7723-8	24	54
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203	Nanoreactor of Nickel-Containing Carbon-Shells as Oxygen Reduction Catalyst. *Advanced Materials*, **2017**, 29, 1605083	24	50
202	Effect of electric field on the electronic structures of carbon nanotubes. *Applied Physics Letters*, **2001**, 79, 1187-1189	3.4	49
201	Visualizing Point Defects in Transition-Metal Dichalcogenides Using Optical Microscopy. *ACS Nano*, **2016**, 10, 770-7	16.7	48
200	Humidity-assisted selective reactivity between NO2 and SO2 gas on carbon nanotubes. *Journal of Materials Chemistry*, **2011**, 21, 4502		48
199	Strong Localization of Anionic Electrons at Interlayer for Electrical and Magnetic Anisotropy in Two-Dimensional YC Electride. *Journal of the American Chemical Society*, **2017**, 139, 615-618	16.4	47
198	Direct growth of GaN layer on carbon nanotube-graphene hybrid structure and its application for light emitting diodes. *Scientific Reports*, **2015**, 5, 7747	4.9	47
197	Selective Amplification of the Primary Exciton in a MoS_{2} Monolayer. *Physical Review Letters*, **2015**, 115, 226801	7.4	47
196	Terahertz electrical and optical characteristics of double-walled carbon nanotubes and their comparison with single-walled carbon nanotubes. *Applied Physics Letters*, **2007**, 90, 051914	3.4	47
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194	Dynamical observations on the crack tip zone and stress corrosion of two-dimensional MoS. *Nature Communications*, **2017**, 8, 14116	17.4	46
193	Towards Wafer-Scale Monocrystalline Graphene Growth and Characterization. *Small*, **2015**, 11, 3512-28	11	46
192	Chemically Modulated Band Gap in Bilayer Graphene Memory Transistors with High On/Off Ratio. *ACS Nano*, **2015**, 9, 9034-42	16.7	46
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186	Dispersion of carbon nanotubes in aluminum improves radiation resistance. *Nano Energy*, **2016**, 22, 319-327	17.1	39
185	Probing defect dynamics in monolayer MoS via noise nanospectroscopy. *Nature Communications*, **2017**, 8, 2121	17.4	39
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183	Junction-Structure-Dependent Schottky Barrier Inhomogeneity and Device Ideality of Monolayer MoS Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2017**, 9, 11240-11246	9.5	38
182	Nondestructive Characterization of Graphene Defects. *Advanced Functional Materials*, **2013**, 23, 5183-5189	19.6	38
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180	Layer-controlled single-crystalline graphene film with stacking order via Cu-Si alloy formation. *Nature Nanotechnology*, **2020**, 15, 861-867	28.7	36
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178	Tunneling Photocurrent Assisted by Interlayer Excitons in Staggered van der Waals Hetero-Bilayers. *Advanced Materials*, **2017**, 29, 1701512	24	35
177	Secondary electron emission from magnesium oxide on multiwalled carbon nanotubes. *Applied Physics Letters*, **2002**, 81, 1098-1100	3.4	35
176	Tailoring Quantum Tunneling in a Vanadium-Doped WSe/SnSe Heterostructure. *Advanced Science*, **2020**, 7, 1902751	13.6	35
175	Reconfigurable exciton-plasmon interconversion for nanophotonic circuits. *Nature Communications*, **2016**, 7, 13663	17.4	34
174	Mobility Engineering in Vertical Field Effect Transistors Based on Van der Waals Heterostructures. *Advanced Materials*, **2018**, 30, 1704435	24	33
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171	POLY(ETHYLENE CO-VINYL ACETATE)-ASSISTED ONE-STEP TRANSFER OF ULTRA-LARGE GRAPHENE. *Nano*, **2011**, 06, 59-65	1.1	31
170	Te vacancy-driven superconductivity in orthorhombic molybdenum ditelluride. *2D Materials*, **2017**, 4, 021030	5.9	30

169	In situ manipulation and characterizations using nanomanipulators inside a field emission-scanning electron microscope. *Review of Scientific Instruments*, **2003**, 74, 4021-4025	1.7	30
168	Fabrication of 1D Te/2D ReS Mixed-Dimensional van der Waals Heterojunction for High-Performance Phototransistor. *ACS Nano*, **2021**, 15, 3241-3250	16.7	30
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166	Graphene Substrate for van der Waals Epitaxy of Layer-Structured Bismuth Antimony Telluride Thermoelectric Film. *Advanced Materials*, **2017**, 29, 1604899	24	28
165	Ultrahigh Gauge Factor in Graphene/MoS Heterojunction Field Effect Transistor with Variable Schottky Barrier. *ACS Nano*, **2019**, 13, 8392-8400	16.7	28
164	In situ chemical vapor deposition of graphene and hexagonal boron nitride heterostructures. *Current Applied Physics*, **2016**, 16, 1175-1191	2.6	28
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162	PURITY MEASUREMENT OF SINGLE-WALLED CARBON NANOTUBES BY UV-VIS-NIR ABSORPTION SPECTROSCOPY AND THERMOGRAVIMETRIC ANALYSIS. *Nano*, **2008**, 03, 101-108	1.1	28
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160	Chemically Conjugated Carbon Nanotubes and Graphene for Carrier Modulation. *Accounts of Chemical Research*, **2016**, 49, 390-9	24.3	27
159	Hygroscopic Effects on AuCl3-Doped Carbon Nanotubes. *Journal of Physical Chemistry C*, **2010**, 114, 11618811622	3.8	27
158	Time Evolution Studies on Strain and Doping of Graphene Grown on a Copper Substrate Using Raman Spectroscopy. *ACS Nano*, **2020**, 14, 919-926	16.7	26
157	Photocurrent Switching of Monolayer MoS Using a Metal-Insulator Transition. *Nano Letters*, **2017**, 17, 673-678	11.5	25
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155	Ferromagnetic quasi-atomic electrons in two-dimensional electride. *Nature Communications*, **2020**, 11, 1526	17.4	25
154	Integrated Freestanding Two-dimensional Transition Metal Dichalcogenides. *Advanced Materials*, **2017**, 29, 1700308	24	24
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149	Optical Arrays: Graphene/Carbon Nanotube Hybrid-Based Transparent 2D Optical Array (Adv. Mater. 33/2011). *Advanced Materials*, **2011**, 23, 3808-3808	24	23
148	Frequency-dependent optical constants and conductivities of hydrogen-functionalized single-walled carbon nanotubes. *Applied Physics Letters*, **2005**, 87, 041908	3.4	23
147	Plasma-Induced Phase Transformation of SnS to SnS. *Scientific Reports*, **2018**, 8, 10284	4.9	22
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139	Direct growth of doping controlled monolayer WSe by selenium-phosphorus substitution. *Nanoscale*, **2018**, 10, 11397-11402	7.7	20
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137	A new horizon for hexagonal boron nitride film. *Journal of the Korean Physical Society*, **2014**, 64, 1605-1616	0.6	19
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134	Carrier multiplication in van der Waals layered transition metal dichalcogenides. *Nature Communications*, **2019**, 10, 5488	17.4	18

133	Long-range ferromagnetic ordering in vanadium-doped WSe2 semiconductor. *Applied Physics Letters*, **2019**, 115, 242406	3.4	18
132	Gate tunable optical absorption and band structure of twisted bilayer graphene. *Physical Review B*, **2019**, 99,	3.3	17
131	Ultrafast Spectral Photoresponse of Bilayer Graphene: Optical Pump-Terahertz Probe Spectroscopy. *ACS Nano*, **2018**, 12, 1785-1792	16.7	17
130	Photoinduced Tuning of Schottky Barrier Height in Graphene/MoS Heterojunction for Ultrahigh Performance Short Channel Phototransistor. *ACS Nano*, **2020**, 14, 7574-7580	16.7	16
129	Soft Coulomb gap and asymmetric scaling towards metal-insulator quantum criticality in multilayer MoS. *Nature Communications*, **2018**, 9, 2052	17.4	16
128	Quantum Dot□arbon Nanotube Hybrid Phototransistor with an Enhanced Optical Stark Effect. *Advanced Functional Materials*, **2013**, 23, 3653-3660	15.6	16
127	Impact of Carboxyl Groups in Graphene Oxide on Chemoselective Alcohol Oxidation with Ultra-Low Carbocatalyst Loading. *Scientific Reports*, **2017**, 7, 3146	4.9	16
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125	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. *Nano Letters*, **2020**, 20, 8446-8452	11.5	16
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123	Chain Vacancies in 2D Crystals. *Small*, **2017**, 13, 1601930	11	15
122	Positive gate bias stress instability of carbon nanotube thin film transistors. *Applied Physics Letters*, **2012**, 101, 053504	3.4	15
121	A diameter-selective chiral separation of single-wall carbon nanotubes using nitronium lons. *Journal of Electronic Materials*, **2006**, 35, 235-242	1.9	14
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119	Seed growth of tungsten diselenide nanotubes from tungsten oxides. *Small*, **2015**, 11, 2192-9	11	13
118	Tailoring Domain Morphology in Monolayer NbSe and WNbSe Heterostructure. *ACS Nano*, **2020**, 14, 8784-8792	16.7	13
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115	Origin of enhanced field emission characteristics postplasma treatment of multiwalled carbon nanotube array. *Applied Physics Letters*, **2008**, 93, 063101	3.4	13
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