Young Hee Lee

List of Publications by Year
in descending order

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313 papers	28,803 citations	6592 79 h-index	5663 162 g-index
328 all docs	328 docs citations	328 times ranked	32609 citing authors

#	Article	IF	Citations
1	Efficient Reduction of Graphite Oxide by Sodium Borohydride and Its Effect on Electrical Conductance. Advanced Functional Materials, 2009, 19, 1987-1992.	7.8	2,059
2	Recent development of two-dimensional transition metal dichalcogenides and their applications. Materials Today, 2017, 20, 116-130.	8.3	1,852
3	Dense dislocation arrays embedded in grain boundaries for high-performance bulk thermoelectrics. Science, 2015, 348, 109-114.	6.0	1,552
4	Phase patterning for ohmic homojunction contact in MoTe ₂. Science, 2015, 349, 625-628.	6.0	918
5	Synthesis of Largeâ€Area Graphene Layers on Polyâ€Nickel Substrate by Chemical Vapor Deposition: Wrinkle Formation. Advanced Materials, 2009, 21, 2328-2333.	11.1	814
6	Bandgap opening in few-layered monoclinic MoTe2. Nature Physics, 2015, 11, 482-486.	6.5	800
7	Asymmetric Supercapacitors Based on Graphene/MnO₂ Nanospheres and Graphene/MoO₃ Nanosheets with High Energy Density. Advanced Functional Materials, 2013, 23, 5074-5083.	7.8	638
8	Bandgap engineering of two-dimensional semiconductor materials. Npj 2D Materials and Applications, 2020, 4, .	3.9	528
9	Carbonâ€Based Electrochemical Capacitors. ChemSusChem, 2012, 5, 480-499.	3.6	491
10	Room Temperature Semiconductorâ€“Metal Transition of MoTe₂ Thin Films Engineered by Strain. Nano Letters, 2016, 16, 188-193.	4.5	415
11	Synthesis of large-area multilayer hexagonal boron nitride for high material performance. Nature Communications, 2015, 6, 8662.	5.8	403
12	van der Waals Layered Materials: Opportunities and Challenges. ACS Nano, 2017, 11, 11803-11830.	7.3	394
13	Adsorption of NH3 and NO2 molecules on carbon nanotubes. Applied Physics Letters, 2001, 79, 3863-3865.	1.5	388
14	Probing graphene grain boundaries with optical microscopy. Nature, 2012, 490, 235-239.	13.7	352
15	Wafer-scale single-crystal hexagonal boron nitride film via self-collimated grain formation. Science, 2018, 362, 817-821.	6.0	336
16	Confocal absorption spectral imaging of MoS₂: optical transitions depending on the atomic thickness of intrinsic and chemically doped MoS₂. Nanoscale, 2014, 6, 13028-13035.	2.8	319
17	Seamless Stitching of Graphene Domains on Polished Copper (111) Foil. Advanced Materials, 2015, 27, 1376-1382.	11.1	314
18	Silicon nanowires for Li-based battery anodes: a review. Journal of Materials Chemistry A, 2013, 1, 9566.	5.2	311

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19	Transferred wrinkled Al2O3 for highly stretchableÂand transparent grapheneâ€“carbon nanotube transistors. Nature Materials, 2013, 12, 403-409.	13.3	295
20	Layer-by-Layer Doping of Few-Layer Graphene Film. ACS Nano, 2010, 4, 4595-4600.	7.3	293
21	Structural and quantum-state phase transitions in van der Waals layered materials. Nature Physics, 2017, 13, 931-937.	6.5	280
22	Carbon Nanotube-Bridged Graphene 3D Building Blocks for Ultrafast Compact Supercapacitors. ACS Nano, 2015, 9, 2018-2027.	7.3	277
23	Two-terminal floating-gate memory with van der Waals heterostructures for ultrahigh on/off ratio. Nature Communications, 2016, 7, 12725.	5.8	271
24	Carbonâ€Based Materials for Lithiumâ€Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. ChemSusChem, 2015, 8, 2284-2311.	3.6	259
25	Seeded growth of highly crystalline molybdenum disulphide monolayers at controlled locations. Nature Communications, 2015, 6, 6128.	5.8	259
26	van der Waals Metallic Transition Metal Dichalcogenides. Chemical Reviews, 2018, 118, 6297-6336.	23.0	252
27	Control of Electronic Structure of Graphene by Various Dopants and Their Effects on a Nanogenerator. Journal of the American Chemical Society, 2010, 132, 15603-15609.	6.6	247
28	Heat Dissipation of Transparent Graphene Defoggers. Advanced Functional Materials, 2012, 22, 4819-4826.	7.8	238
29	Low-Temperature Ohmic Contact to Monolayer MoS₂ by van der Waals Bonded Co/h-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	4.5	233
30	Graphene Versus Carbon Nanotubes in Electronic Devices. Advanced Functional Materials, 2011, 21, 3806-3826.	7.8	232
31	Phase-Engineered Synthesis of Centimeter-Scale 1Tâ€²- and 2H-Molybdenum Ditelluride Thin Films. ACS Nano, 2015, 9, 6548-6554.	7.3	225
32	High-performance n-type black phosphorus transistors with type control via thickness and contact-metal engineering. Nature Communications, 2015, 6, 7809.	5.8	223
33	Biexciton Emission from Edges and Grain Boundaries of Triangular WS₂ Monolayers. ACS Nano, 2016, 10, 2399-2405.	7.3	220
34	High Pseudocapacitance from Ultrathin V₂O₅Films Electrodeposited on Selfâ€Standing Carbonâ€Nanofiber Paper. Advanced Functional Materials, 2011, 21, 2541-2547.	7.8	205
35	Large-Area Monolayer Hexagonal Boron Nitride on Pt Foil. ACS Nano, 2014, 8, 8520-8528.	7.3	200
36	Directional dependent piezoelectric effect in CVD grown monolayer MoS 2 for flexible piezoelectric nanogenerators. Nano Energy, 2016, 22, 483-489.	8.2	197

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37	A Van Der Waals Homojunction: Ideal pâ€“n Diode Behavior in MoSe₂. Advanced Materials, 2015, 27, 5534-5540.	11.1	196
38	Large Work Function Modulation of Monolayer MoS₂ by Ambient Gases. ACS Nano, 2016, 10, 6100-6107.	7.3	188
39	Electrically Tunable Slow Light Using Graphene Metamaterials. ACS Photonics, 2018, 5, 1800-1807.	3.2	187
40	Electrical and Optical Characterization of MoS₂ with Sulfur Vacancy Passivation by Treatment with Alkanethiol Molecules. ACS Nano, 2015, 9, 8044-8053.	7.3	185
41	Contact resistance between metal and carbon nanotube interconnects: Effect of work function and wettability. Applied Physics Letters, 2009, 95, .	1.5	184
42	Tuning Carrier Tunneling in van der Waals Heterostructures for Ultrahigh Detectivity. Nano Letters, 2017, 17, 453-459.	4.5	178
43	Charge Transport in MoS₂/WSe₂ van der Waals Heterostructure with Tunable Inversion Layer. ACS Nano, 2017, 11, 3832-3840.	7.3	175
44	Misorientation-angle-dependent electrical transport across molybdenum disulfide grain boundaries. Nature Communications, 2016, 7, 10426.	5.8	172
45	Highly Interconnected Si Nanowires for Improved Stability Liâ€ion Battery Anodes. Advanced Energy Materials, 2011, 1, 1154-1161.	10.2	169
46	Twoâ€Terminal Multibit Optical Memory via van der Waals Heterostructure. Advanced Materials, 2019, 31, e1807075.	11.1	168
47	Synthesis of Centimeter-Scale Monolayer Tungsten Disulfide Film on Gold Foils. ACS Nano, 2015, 9, 5510-5519.	7.3	166
48	Redox-Driven Route for Widening Voltage Window in Asymmetric Supercapacitor. ACS Nano, 2018, 12, 8494-8505.	7.3	164
49	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.	9.5	149
50	Ferromagnetic Order at Room Temperature in Monolayer WSe₂ Semiconductor via Vanadium Dopant. Advanced Science, 2020, 7, 1903076.	5.6	148
51	Terahertz conductivity of anisotropic single walled carbon nanotube films. Applied Physics Letters, 2002, 80, 3403-3405.	1.5	142
52	Anchoring a Liquid Crystal Molecule on a Single-Walled Carbon Nanotube. Journal of Physical Chemistry C, 2007, 111, 1620-1624.	1.5	139
53	Heterogeneous Defect Domains in Singleâ€Crystalline Hexagonal WS₂. Advanced Materials, 2017, 29, 1605043.	11.1	135
54	Optical and electrical properties of preferentially anisotropic single-walled carbon-nanotube films in terahertz region. Journal of Applied Physics, 2004, 95, 5736-5740.	1.1	134

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55	Large-scale synthesis of graphene and other 2D materials towards industrialization. Nature Communications, 2022, 13, 1484.	5.8	123
56	Indirect Bandgap Puddles in Monolayer MoS₂ by Substrateâ€Induced Local Strain. Advanced Materials, 2016, 28, 9378-9384.	11.1	120
57	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. Nature Communications, 2016, 7, 13278.	5.8	120
58	Alumina-coated silicon-based nanowire arrays for high quality Li-ion battery anodes. Journal of Materials Chemistry, 2012, 22, 24618.	6.7	116
59	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.	5.8	116
60	A Highâ€On/Offâ€Ratio Floatingâ€Gate Memristor Array on a Flexible Substrate via CVDâ€Grown Largeâ€Area 2D Layer Stacking. Advanced Materials, 2017, 29, 1703363.	11.1	116
61	Synthesis of hexagonal boron nitride heterostructures for 2D van der Waals electronics. Chemical Society Reviews, 2018, 47, 6342-6369.	18.7	114
62	Observing Grain Boundaries in CVD-Grown Monolayer Transition Metal Dichalcogenides. ACS Nano, 2014, 8, 11401-11408.	7.3	113
63	Near-zero hysteresis and near-ideal subthreshold swing in h-BN encapsulated single-layer MoS ₂ field-effect transistors. 2D Materials, 2018, 5, 031001.	2.0	104
64	Fast-Charging High-Energy Batteryâ€“Supercapacitor Hybrid: Anodic Reduced Graphene Oxideâ€“Vanadium(IV) Oxide Sheet-on-Sheet Heterostructure. ACS Nano, 2019, 13, 10776-10786.	7.3	104
65	Active hydrogen evolution through lattice distortion in metallic MoTe ₂. 2D Materials, 2017, 4, 025061.	2.0	103
66	Photochemical Reaction in Monolayer MoS₂ via Correlated Photoluminescence, Raman Spectroscopy, and Atomic Force Microscopy. ACS Nano, 2016, 10, 5230-5236.	7.3	101
67	Facile Physical Route to Highly Crystalline Graphene. Advanced Functional Materials, 2011, 21, 3496-3501.	7.8	97
68	Oxidation Effect in Octahedral Hafnium Disulfide Thin Film. ACS Nano, 2016, 10, 1309-1316.	7.3	97
69	Stranskiâ€“Krastanov and Volmerâ€“Weber CVD Growth Regimes To Control the Stacking Order in Bilayer Graphene. Nano Letters, 2016, 16, 6403-6410.	4.5	95
70	Laser Thinning for Monolayer Graphene Formation: Heat Sink and Interference Effect. ACS Nano, 2011, 5, 263-268.	7.3	94
71	Characterization of the structural defects in CVD-grown monolayered MoS₂using near-field photoluminescence imaging. Nanoscale, 2015, 7, 11909-11914.	2.8	92
72	Fabrication of 1D Te/2D ReS₂ Mixed-Dimensional van der Waals p-n Heterojunction for High-Performance Phototransistor. ACS Nano, 2021, 15, 3241-3250.	7.3	91

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73	Semiconductorâ€“Insulatorâ€“Semiconductor Diode Consisting of Monolayer MoS₂, h-BN, and GaN Heterostructure. ACS Nano, 2015, 9, 10032-10038.	7.3	88
74	Telluriding monolayer MoS2 and WS2 via alkali metal scooter. Nature Communications, 2017, 8, 2163.	5.8	87
75	Transfer assembly for two-dimensional van der Waals heterostructures. 2D Materials, 2020, 7, 022005.	2.0	87
76	Fabrication of Supercapacitor Electrodes Using Fluorinated Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 8812-8815.	1.2	86
77	Thickness-dependent in-plane thermal conductivity of suspended MoS₂ grown by chemical vapor deposition. Nanoscale, 2017, 9, 2541-2547.	2.8	86
78	Solution-Processed Graphite Membrane from Reassembled Graphene Oxide. Chemistry of Materials, 2012, 24, 594-599.	3.2	85
79	Hollow carbon nanospheres/silicon/alumina core-shell film as an anode for lithium-ion batteries. Scientific Reports, 2015, 5, 7659.	1.6	85
80	Electrical Transport Properties of Polymorphic MoS₂. ACS Nano, 2016, 10, 7500-7506.	7.3	82
81	Waferâ€Scale Singleâ€Crystalline ABâ€Stacked Bilayer Graphene. Advanced Materials, 2016, 28, 8177-8183.	11.1	79
82	Layer-controlled single-crystalline graphene film with stacking order via Cuâ€“Si alloy formation. Nature Nanotechnology, 2020, 15, 861-867.	15.6	79
83	Electron Excess Doping and Effective Schottky Barrier Reduction on the MoS₂/h-BN Heterostructure. Nano Letters, 2016, 16, 6383-6389.	4.5	78
84	Unveiling Defect-Related Raman Mode of Monolayer WS₂ via Tip-Enhanced Resonance Raman Scattering. ACS Nano, 2018, 12, 9982-9990.	7.3	78
85	Hot carrier photovoltaics in van der Waals heterostructures. Nature Reviews Physics, 2021, 3, 178-192.	11.9	77
86	Preferential etching of metallic single-walled carbon nanotubes with small diameter by fluorine gas. Physical Review B, 2006, 73, .	1.1	74
87	Identifying multiexcitons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>monolayers at room temperature. Physical Review B, 2016, 93, .	1.1	74
88	Metalâ€“Insulatorâ€“Semiconductor Diode Consisting of Two-Dimensional Nanomaterials. Nano Letters, 2016, 16, 1858-1862.	4.5	74
89	Single Crystalline Film of Hexagonal Boron Nitride Atomic Monolayer by Controlling Nucleation Seeds and Domains. Scientific Reports, 2015, 5, 16159.	1.6	72
90	Long-Range Lattice Engineering of MoTe₂ by a 2D Electride. Nano Letters, 2017, 17, 3363-3368.	4.5	72

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91	Strong Localization of Anionic Electrons at Interlayer for Electrical and Magnetic Anisotropy in Two-Dimensional Y₂C Electride. Journal of the American Chemical Society, 2017, 139, 615-618.	6.6	71
92	Leaf Veinâ€Inspired Nanochanneled Graphene Film for Highly Efficient Microâ€Supercapacitors. Advanced Energy Materials, 2015, 5, 1500003.	10.2	69
93	Optical Gain in MoS₂ via Coupling with Nanostructured Substrate: Fabryâ€“Perot Interference and Plasmonic Excitation. ACS Nano, 2016, 10, 8192-8198.	7.3	69
94	Dynamical observations on the crack tip zone and stress corrosion of two-dimensional MoS2. Nature Communications, 2017, 8, 14116.	5.8	69
95	Tunable Negative Differential Resistance in van der Waals Heterostructures at Room Temperature by Tailoring the Interface. ACS Nano, 2019, 13, 8193-8201.	7.3	69
96	Dependence of Raman spectra<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>G</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math>band intensity on metallicity of single-wall carbon nanotubes. Physical Review B, 2007, 76, .	1.1	67
97	Nanoreactor of Nickelâ€Containing Carbonâ€“Shells as Oxygen Reduction Catalyst. Advanced Materials, 2017, 29, 1605083.	11.1	64
98	Doping strategy of carbon nanotubes with redox chemistry. New Journal of Chemistry, 2010, 34, 2183.	1.4	63
99	Vertically Conductive MoS₂ Spiral Pyramid. Advanced Materials, 2016, 28, 7723-7728.	11.1	63
100	Tailoring Quantum Tunneling in a Vanadiumâ€Doped WSe₂/SnSe₂ Heterostructure. Advanced Science, 2020, 7, 1902751.	5.6	63
101	Direct growth of GaN layer on carbon nanotube-graphene hybrid structure and its application for light emitting diodes. Scientific Reports, 2015, 5, 7747.	1.6	62
102	Monodispersed SnS nanoparticles anchored on carbon nanotubes for high-retention sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 7861-7869.	5.2	60
103	Flat-surface-assisted and self-regulated oxidation resistance of Cu(111). Nature, 2022, 603, 434-438.	13.7	59
104	Visualizing Point Defects in Transition-Metal Dichalcogenides Using Optical Microscopy. ACS Nano, 2016, 10, 770-777.	7.3	58
105	Junction-Structure-Dependent Schottky Barrier Inhomogeneity and Device Ideality of Monolayer MoS₂ Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 11240-11246.	4.0	57
106	Ferromagnetic quasi-atomic electrons in two-dimensional electride. Nature Communications, 2020, 11, 1526.	5.8	57
107	Effect of electric field on the electronic structures of carbon nanotubes. Applied Physics Letters, 2001, 79, 1187-1189.	1.5	56
108	Chemically Modulated Band Gap in Bilayer Graphene Memory Transistors with High On/Off Ratio. ACS Nano, 2015, 9, 9034-9042.	7.3	56

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109	Probing defect dynamics in monolayer MoS2 via noise nanospectroscopy. Nature Communications, 2017, 8, 2121.	5.8	56
110	Role of alkali metal promoter in enhancing lateral growth of monolayer transition metal dichalcogenides. Nanotechnology, 2017, 28, 36LT01.	1.3	56
111	Dispersion of carbon nanotubes in aluminum improves radiation resistance. Nano Energy, 2016, 22, 319-327.	8.2	55
112	Epitaxial Singleâ€Crystal Growth of Transition Metal Dichalcogenide Monolayers via the Atomic Sawtooth Au Surface. Advanced Materials, 2021, 33, e2006601.	11.1	55
113	Transport phenomena in an anisotropically aligned single-wall carbon nanotube film. Physical Review B, 2001, 64, .	1.1	54
114	Humidity-assisted selective reactivity between NO2 and SO2 gas on carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 4502.	6.7	54
115	Selective Amplification of the Primary Exciton in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>Monolayer. Physical Review Letters, 2015, 115, 226801.	2.9	54
116	Towards Wafer-Scale Monocrystalline Graphene Growth and Characterization. Small, 2015, 11, 3512-3528.	5.2	54
117	Ultrahigh Gauge Factor in Graphene/MoS₂ Heterojunction Field Effect Transistor with Variable Schottky Barrier. ACS Nano, 2019, 13, 8392-8400.	7.3	54
118	Terahertz electrical and optical characteristics of double-walled carbon nanotubes and their comparison with single-walled carbon nanotubes. Applied Physics Letters, 2007, 90, 051914.	1.5	53
119	Terahertz optical and electrical properties of hydrogen-functionalized carbon nanotubes. Physical Review B, 2007, 75, .	1.1	52
120	Tunneling Photocurrent Assisted by Interlayer Excitons in Staggered van der Waals Heteroâ€Bilayers. Advanced Materials, 2017, 29, 1701512.	11.1	51
121	Mobility Engineering in Vertical Field Effect Transistors Based on Van der Waals Heterostructures. Advanced Materials, 2018, 30, 1704435.	11.1	51
122	Electronic properties of K-doped single-wall carbon nanotube bundles. Physical Review B, 2002, 65, .	1.1	48
123	Efficient Excitonâ€“Plasmon Conversion in Ag Nanowire/Monolayer MoS₂ Hybrids: Direct Imaging and Quantitative Estimation of Plasmon Coupling and Propagation. Advanced Optical Materials, 2015, 3, 943-947.	3.6	48
124	Reconfigurable exciton-plasmon interconversion for nanophotonic circuits. Nature Communications, 2016, 7, 13663.	5.8	48
125	Aharonovâ€“Bohm effect in graphene-based Fabryâ€“PÃ©rot quantum Hall interferometers. Nature Nanotechnology, 2021, 16, 563-569.	15.6	48
126	Edge Contact for Carrier Injection and Transport in MoS₂ Field-Effect Transistors. ACS Nano, 2019, 13, 13169-13175.	7.3	47

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127	Time Evolution Studies on Strain and Doping of Graphene Grown on a Copper Substrate Using Raman Spectroscopy. ACS Nano, 2020, 14, 919-926.	7.3	47
128	Direct growth of etch pit-free GaN crystals on few-layer graphene. RSC Advances, 2015, 5, 1343-1349.	1.7	46
129	Nondestructive Characterization of Graphene Defects. Advanced Functional Materials, 2013, 23, 5183-5189.	7.8	44
130	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. Nano Letters, 2020, 20, 8446-8452.	4.5	44
131	Unveiling the Hot Carrier Distribution in Vertical Graphene/h-BN/Au van der Waals Heterostructures for High-Performance Photodetector. ACS Applied Materials & Interfaces, 2020, 12, 10772-10780.	4.0	44
132	Significant enhancement of the electrical transport properties of graphene films by controlling the surface roughness of Cu foils before and during chemical vapor deposition. Nanoscale, 2014, 6, 12943-12951.	2.8	42
133	In situ chemical vapor deposition of graphene and hexagonal boron nitride heterostructures. Current Applied Physics, 2016, 16, 1175-1191.	1.1	42
134	Te vacancy-driven superconductivity in orthorhombic molybdenum ditelluride. 2D Materials, 2017, 4, 021030.	2.0	42
135	Photoinduced Tuning of Schottky Barrier Height in Graphene/MoS₂ Heterojunction for Ultrahigh Performance Short Channel Phototransistor. ACS Nano, 2020, 14, 7574-7580.	7.3	42
136	One-Step Synthesis of NbSe₂/Nb-Doped-WSe₂ Metal/Doped-Semiconductor van der Waals Heterostructures for Doping Controlled Ohmic Contact. ACS Nano, 2021, 15, 13031-13040.	7.3	42
137	Carrier multiplication in van der Waals layered transition metal dichalcogenides. Nature Communications, 2019, 10, 5488.	5.8	41
138	Secondary electron emission from magnesium oxide on multiwalled carbon nanotubes. Applied Physics Letters, 2002, 81, 1098-1100.	1.5	40
139	Understanding Coulomb Scattering Mechanism in Monolayer MoS₂ Channel in the Presence of <i>h</i>-BN Buffer Layer. ACS Applied Materials & Interfaces, 2017, 9, 5006-5013.	4.0	37
140	Probing Bilayer Grain Boundaries in Largeâ€Area Graphene with Tipâ€Enhanced Raman Spectroscopy. Advanced Materials, 2017, 29, 1603601.	11.1	37
141	Role of Hole Trap Sites in MoS₂ for Inconsistency in Optical and Electrical Phenomena. ACS Applied Materials & Interfaces, 2018, 10, 10580-10586.	4.0	37
142	Gate tunable optical absorption and band structure of twisted bilayer graphene. Physical Review B, 2019, 99, .	1.1	36
143	POLY(ETHYLENE CO-VINYL ACETATE)-ASSISTED ONE-STEP TRANSFER OF ULTRA-LARGE GRAPHENE. Nano, 2011, 06, 59-65.	0.5	35
144	Plasma-Induced Phase Transformation of SnS2 to SnS. Scientific Reports, 2018, 8, 10284.	1.6	35

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145	In situmanipulation and characterizations using nanomanipulators inside a field emission-scanning electron microscope. Review of Scientific Instruments, 2003, 74, 4021-4025.	0.6	34
146	Direct growth of doping controlled monolayer WSe₂ by selenium-phosphorus substitution. Nanoscale, 2018, 10, 11397-11402.	2.8	34
147	Non-oxidized bare copper nanoparticles with surface excess electrons in air. Nature Nanotechnology, 2022, 17, 285-291.	15.6	34
148	Dual-phase MoS2/MXene/CNT ternary nanohybrids for efficient electrocatalytic hydrogen evolution. Npj 2D Materials and Applications, 2022, 6, .	3.9	34
149	Hygroscopic Effects on AuCl₃-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 11618-11622.	1.5	33
150	Integrated Freestanding Twoâ€dimensional Transition Metal Dichalcogenides. Advanced Materials, 2017, 29, 1700308.	11.1	33
151	Graphene Substrate for van der Waals Epitaxy of Layerâ€Structured Bismuth Antimony Telluride Thermoelectric Film. Advanced Materials, 2017, 29, 1604899.	11.1	33
152	Real-space imaging of acoustic plasmons in large-area graphene grown by chemical vapor deposition. Nature Communications, 2021, 12, 938.	5.8	33
153	Absorption dichroism of monolayer 1Tâ€²-MoTe ₂ in visible range. 2D Materials, 2016, 3, 031010.	2.0	32
154	High-mobility junction field-effect transistor via graphene/MoS2 heterointerface. Scientific Reports, 2020, 10, 13101.	1.6	32
155	Photocurrent Switching of Monolayer MoS₂ Using a Metalâ€“Insulator Transition. Nano Letters, 2017, 17, 673-678.	4.5	31
156	Long-range ferromagnetic ordering in vanadium-doped WSe2 semiconductor. Applied Physics Letters, 2019, 115, .	1.5	31
157	Ton-scale metalâ€“carbon nanotube composite: The mechanism of strengthening while retaining tensile ductility. Extreme Mechanics Letters, 2016, 8, 245-250.	2.0	30
158	Chemically Conjugated Carbon Nanotubes and Graphene for Carrier Modulation. Accounts of Chemical Research, 2016, 49, 390-399.	7.6	30
159	Tailoring Domain Morphology in Monolayer NbSe₂ and W_xNb_{1â€“x}Se₂ Heterostructure. ACS Nano, 2020, 14, 8784-8792.	7.3	30
160	Band-gap engineering in chemically conjugated bilayer graphene:Ab initiocalculations. Physical Review B, 2012, 85, .	1.1	29
161	Deep Learningâ€Assisted Quantification of Atomic Dopants and Defects in 2D Materials. Advanced Science, 2021, 8, e2101099.	5.6	29
162	Frequency-dependent optical constants and conductivities of hydrogen-functionalized single-walled carbon nanotubes. Applied Physics Letters, 2005, 87, 041908.	1.5	28

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163	PURITY MEASUREMENT OF SINGLE-WALLED CARBON NANOTUBES BY UV-VIS-NIR ABSORPTION SPECTROSCOPY AND THERMOGRAVIMETRIC ANALYSIS. Nano, 2008, 03, 101-108.	0.5	28
164	A new horizon for hexagonal boron nitride film. Journal of the Korean Physical Society, 2014, 64, 1605-1616.	0.3	28
165	Color of Copper/Copper Oxide. Advanced Materials, 2021, 33, e2007345.	11.1	28
166	Suppressing spontaneous polarization of p-GaN by graphene oxide passivation: Augmented light output of GaN UV-LED. Scientific Reports, 2015, 5, 7778.	1.6	27
167	Soft Coulomb gap and asymmetric scaling towards metal-insulator quantum criticality in multilayer MoS2. Nature Communications, 2018, 9, 2052.	5.8	27
168	Direct printing of aligned carbon nanotube patterns for high-performance thin film devices. Applied Physics Letters, 2009, 94, 053109.	1.5	26
169	Optical Arrays: Graphene/Carbon Nanotube Hybrid-Based Transparent 2D Optical Array (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	11.1	25
170	Selective control of electron and hole tunneling in 2D assembly. Science Advances, 2017, 3, e1602726.	4.7	25
171	Coherent Thermoelectric Power from Graphene Quantum Dots. Nano Letters, 2019, 19, 61-68.	4.5	25
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