Jong-Hyun Ahn

List of Publications by Year
in descending order

232 papers	41,949 citations	8755 75 h-index	2178 202 g-index
265 all docs	265 docs citations	265 times ranked	42647 citing authors

#	Article	IF	Citations
1	Residue-free photolithographic patterning of graphene. Chemical Engineering Journal, 2022, 429, 132504.	12.7	14
2	3Dâ€Structured Photodetectors Based on 2D Transitionâ€Metal Dichalcogenide. Small Structures, 2022, 3, .	12.0	12
3	Observation of the Initial Stage of 3C-SiC Heteroepitaxial Growth on the Si Nanomembrane. Crystal Growth and Design, 2022, 22, 1421-1426.	3.0	3
4	Bioinspired in-sensor visual adaptation for accurate perception. Nature Electronics, 2022, 5, 84-91.	26.0	204
5	Rational design of high-performance wearable tactile sensors utilizing bioinspired structures/functions, natural biopolymers, and biomimetic strategies. Materials Science and Engineering Reports, 2022, 148, 100672.	31.8	30
6	Wafer-scale monolithic integration of full-colour micro-LED display using MoS2 transistor. Nature Nanotechnology, 2022, 17, 500-506.	31.5	104
7	Wireless graphene-based thermal patch for obtaining temperature distribution and performing thermography. Science Advances, 2022, 8, eabm6693.	10.3	27
8	Morphable 3D structure for stretchable display. Materials Today, 2022, 53, 51-57.	14.2	21
9	In-plane optical and electrical anisotropy in low-symmetry layered GeS microribbons. NPG Asia Materials, 2022, 14, .	7.9	5
10	Biomimetic metalâ€“organic framework-derived porous carbon welded carbon nanotube networks for strain sensors with high sensitivity and wide sensing range. Applied Surface Science, 2022, 593, 153417.	6.1	8
11	Large-area synthesis of transition metal dichalcogenides <i>via</i> CVD and solution-based approaches and their device applications. Nanoscale, 2021, 13, 615-633.	5.6	44
12	Crypto primitive of MOCVD MoS2 transistors for highly secured physical unclonable functions. Nano Research, 2021, 14, 1784-1788.	10.4	19
13	Biologically Plausible Artificial Synaptic Array: Replicating Ebbinghausâ€™ Memory Curve with Selective Attention. Advanced Materials, 2021, 33, e2007782.	21.0	32
14	Grapheneâ€Based Nanomaterials for Flexible and Stretchable Batteries. Small, 2021, 17, e2006262.	10.0	28
15	Si nanomebranes: Material properties and applications. Nano Research, 2021, 14, 3010-3032.	10.4	6
16	2D Materials for Skinâ€Mountable Electronic Devices. Advanced Materials, 2021, 33, e2005858.	21.0	51
17	Damage-free transfer mechanics of 2-dimensional materials: competition between adhesion instability and tensile strain. NPG Asia Materials, 2021, 13, .	7.9	20
18	Impact of 2Dâ€“3D Heterointerface on Remote Epitaxial Interaction through Graphene. ACS Nano, 2021, 15, 10587-10596.	14.6	57

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19	MoS₂/Graphene Photodetector Array with Strain-Modulated Photoresponse up to the Near-Infrared Regime. ACS Nano, 2021, 15, 12836-12846.	14.6	56
20	Polypyrrole-coated copper nanowire-threaded silver nanoflowers for wearable strain sensors with high sensing performance. Chemical Engineering Journal, 2021, 417, 127966.	12.7	20
21	Graphene-electrode array for brain map remodeling of the cortical surface. NPG Asia Materials, 2021, 13, .	7.9	11
22	Slippery and Wear-Resistant Surfaces Enabled by Interface Engineered Graphene. Nano Letters, 2020, 20, 905-917.	9.1	18
23	Nanofabrication approaches for functional three-dimensional architectures. Nano Today, 2020, 30, 100825.	11.9	37
24	Rate performance enhancement of lithium-ion battery using precise thickness-controllable-carbon-coated titanium dioxide nanowire array electrode via atomic layer deposition. Electrochimica Acta, 2020, 334, 135596.	5.2	9
25	3D motion tracking display enabled by magneto-interactive electroluminescence. Nature Communications, 2020, 11, 6072.	12.8	27
26	Breaking the absorption limit of Si toward SWIR wavelength range via strain engineering. Science Advances, 2020, 6, eabb0576.	10.3	36
27	Epitaxial Growth of Wafer-Scale Molybdenum Disulfide/Graphene Heterostructures by Metalâ€"Organic Vapor-Phase Epitaxy and Their Application in Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 44335-44344.	8.0	28
28	A 6.5-<i>Î¼</i>W 10-kHz BW 80.4-dB SNDR G_m-C-Based CT âˆ†âˆ‘ Modulator With a Feedback-Assisted G_m Linearization for Artifact-Tolerant Neural Recording. IEEE Journal of Solid-State Circuits, 2020, 55, 2889-2901.	5.4	45
29	Dual Resonant Sum Frequency Generations from Two-Dimensional Materials. Nano Letters, 2020, 20, 4530-4536.	9.1	8
30	Assembly of Foldable 3D Microstructures Using Graphene Hinges. Advanced Materials, 2020, 32, e2001303.	21.0	29
31	Full-color active-matrix organic light-emitting diode display on human skin based on a large-area MoS ₂ backplane. Science Advances, 2020, 6, eabb5898.	10.3	91
32	Biodegradable and bioabsorbable sensors based on two-dimensional materials. Journal of Materials Chemistry B, 2020, 8, 1082-1092.	5.8	30
33	Biomimetic Tactile Sensors Based on Nanomaterials. ACS Nano, 2020, 14, 1220-1226.	14.6	53
34	Ultrasoft silicon nanomembranes: thickness-dependent effective elastic modulus. Nanoscale, 2019, 11, 15184-15194.	5.6	15
35	Synthesis of two-dimensional MoS2/graphene heterostructure by atomic layer deposition using MoF6 precursor. Applied Surface Science, 2019, 494, 591-599.	6.1	25
36	Heterostructure Arrays: Direct Synthesis of a Selfâ€Assembled WSe₂/MoS₂ Heterostructure Array and its Optoelectrical Properties (Adv. Mater. 43/2019). Advanced Materials, 2019, 31, 1970309.	21.0	0

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37	Boosting ion dynamics through superwettable leaf-like film based on porous g-C3N4 nanosheets for ionogel supercapacitors. NPG Asia Materials, 2019, 11, .	7.9	40
38	Direct Synthesis of a Selfâ€Assembled WSe₂/MoS₂ Heterostructure Array and its Optoelectrical Properties. Advanced Materials, 2019, 31, e1904194.	21.0	47
39	Investigation on Metalâ€“Oxide Graphene Field-Effect Transistors With Clamped Geometries. IEEE Journal of the Electron Devices Society, 2019, 7, 964-968.	2.1	1
40	Atomicâ€Level Customization of 4 in. Transition Metal Dichalcogenide Multilayer Alloys for Industrial Applications. Advanced Materials, 2019, 31, e1901405.	21.0	52
41	Controllable Pâ€• and Nâ€Type Conversion of MoTe₂ via Oxide Interfacial Layer for Logic Circuits. Small, 2019, 15, e1901772.	10.0	41
42	Graphene-based stretchable/wearable self-powered touch sensor. Nano Energy, 2019, 62, 259-267.	16.0	132
43	Electronic Structure of Nonionic Surfactant-Modified PEDOT:PSS and Its Application in Perovskite Solar Cells with Reduced Interface Recombination. ACS Applied Materials & Interfaces, 2019, 11, 17028-17034.	8.0	30
44	Low-temperature, high-growth-rate ALD of SiO2 using aminodisilane precursor. Applied Surface Science, 2019, 485, 381-390.	6.1	27
45	Stretchable Electroluminescent Display Enabled by Graphene-Based Hybrid Electrode. ACS Applied Materials & Interfaces, 2019, 11, 14222-14228.	8.0	69
46	All MoS₂-Based Large Area, Skin-Attachable Active-Matrix Tactile Sensor. ACS Nano, 2019, 13, 3023-3030.	14.6	171
47	Flexible active-matrix organic light-emitting diode display enabled by MoS ₂ thin-film transistor. Science Advances, 2018, 4, eaas8721.	10.3	163
48	Two-dimensional materials in functional three-dimensional architectures with applications in photodetection and imaging. Nature Communications, 2018, 9, 1417.	12.8	189
49	Stacking-controllable interlayer coupling and symmetric configuration of multilayered MoS2. NPG Asia Materials, 2018, 10, e468-e468.	7.9	90
50	Graphene-based flexible and wearable electronics. Journal of Semiconductors, 2018, 39, 011007.	3.7	76
51	Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS₂ Nanosheets. Advanced Materials, 2018, 30, e1705190.	21.0	23
52	Surfaceâ€Functionalizationâ€Mediated Direct Transfer of Molybdenum Disulfide for Largeâ€Area Flexible Devices. Advanced Functional Materials, 2018, 28, 1706231.	14.9	66
53	Carrier Dynamics: Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS2 Nanosheets (Adv.) Tj ETQq1 1 0.784314 rgBT /Overl	21.0	0
54	CVD-grown monolayer MoS2 in bioabsorbable electronics and biosensors. Nature Communications, 2018, 9, 1690.	12.8	155

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55	Orientation-dependent optical characterization of atomically thin transition metal ditellurides. Nanoscale, 2018, 10, 21978-21984.	5.6	24
56	Universality of strain-induced anisotropic friction domains on 2D materials. NPG Asia Materials, 2018, 10, 1069-1075.	7.9	17
57	Probing the upper band gap of atomic rhenium disulfide layers. Light: Science and Applications, 2018, 7, 98.	16.6	24
58	Layout influence on microwave performance of graphene field effect transistors. Electronics Letters, 2018, 54, 984-986.	1.0	6
59	Controlled crack propagation for atomic precision handling of wafer-scale two-dimensional materials. Science, 2018, 362, 665-670.	12.6	208
60	Epidural Electrotherapy for Epilepsy. Small, 2018, 14, e1801732.	10.0	14
61	Additive-free electrode fabrication with reduced graphene oxide using supersonic kinetic spray for flexible lithium-ion batteries. Carbon, 2018, 139, 195-204.	10.3	19
62	Recent Advances in Tactile Sensing Technology. Micromachines, 2018, 9, 321.	2.9	67
63	Degradation behaviors and mechanisms of MoS2 crystals relevant to bioabsorbable electronics. NPG Asia Materials, 2018, 10, 810-820.	7.9	36
64	Damage mitigation in roll-to-roll transfer of CVD-graphene to flexible substrates. 2D Materials, 2017, 4, 024002.	4.4	42
65	A composite layer of atomic-layer-deposited Al2O3 and graphene for flexible moisture barrier. Carbon, 2017, 116, 553-561.	10.3	45
66	Highly Sensitive, Gate-Tunable, Room-Temperature Mid-Infrared Photodetection Based on Grapheneâ€“Bi₂Se₃ Heterostructure. ACS Photonics, 2017, 4, 482-488.	6.6	70
67	Stretchable Active Matrix Inorganic Lightâ€Emitting Diode Display Enabled by Overlayâ€Aligned Rollâ€Transfer Printing. Advanced Functional Materials, 2017, 27, 1606005.	14.9	124
68	Graphene for flexible and wearable device applications. Carbon, 2017, 120, 244-257.	10.3	137
69	Local Strain Induced Band Gap Modulation and Photoluminescence Enhancement of Multilayer Transition Metal Dichalcogenides. Chemistry of Materials, 2017, 29, 5124-5133.	6.7	97
70	Stretchable Displays: Stretchable Active Matrix Inorganic Lightâ€Emitting Diode Display Enabled by Overlayâ€Aligned Rollâ€Transfer Printing (Adv. Funct. Mater. 11/2017). Advanced Functional Materials, 2017, 27, .	14.9	2
71	Graphene-Based Three-Dimensional Capacitive Touch Sensor for Wearable Electronics. ACS Nano, 2017, 11, 7950-7957.	14.6	270
72	Thickness-Dependent Phonon Renormalization and Enhanced Raman Scattering in Ultrathin Silicon Nanomembranes. Nano Letters, 2017, 17, 7744-7750.	9.1	15

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73	Development of electronic devices based on two-dimensional materials. FlatChem, 2017, 3, 43-63.	5.6	23
74	Selfâ€Junctioned Copper Nanofiber Transparent Flexible Conducting Film via Electrospinning and Electroplating. Advanced Materials, 2016, 28, 7149-7154.	21.0	141
75	Flexible MgO Barrier Magnetic Tunnel Junctions. Advanced Materials, 2016, 28, 4983-4990.	21.0	59
76	Tactile Sensors: MoS₂â€Based Tactile Sensor for Electronic Skin Applications (Adv. Mater.) Tj ETQq0 0.0 rgBT /Overlock 10	21.0	5
77	Grapheneâ€Based Flexible and Stretchable Electronics. Advanced Materials, 2016, 28, 4184-4202.	21.0	537
78	Lithography-free plasma-induced patterned growth of MoS₂and its heterojunction with graphene. Nanoscale, 2016, 8, 15181-15188.	5.6	68
79	Mobility enhancement of strained Si transistors by transfer printing on plastic substrates. NPG Asia Materials, 2016, 8, e256-e256.	7.9	14
80	Self-Limiting Layer Synthesis of Transition Metal Dichalcogenides. Scientific Reports, 2016, 6, 18754.	3.3	74
81	A facile method for the selective decoration of graphene defects based on a galvanic displacement reaction. NPG Asia Materials, 2016, 8, e262-e262.	7.9	15
82	Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide. Small, 2016, 12, 5720-5727.	10.0	46
83	Approaching ultimate flexible organic light-emitting diodes using a graphene anode. NPG Asia Materials, 2016, 8, e303-e303.	7.9	55
84	Conformal, graphene-based triboelectric nanogenerator for self-powered wearable electronics. Nano Energy, 2016, 27, 298-305.	16.0	152
85	Flexible and Stretchable Oxide Electronics. Advanced Electronic Materials, 2016, 2, 1600105.	5.1	42
86	Additive-free synthesis of Li₄Ti₅O₁₂ nanowire arrays on freestanding ultrathin graphite as a hybrid anode for flexible lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 19197-19206.	10.3	26
87	Flexible Electronics: Highly Flexible Hybrid CMOS Inverter Based on Si Nanomembrane and Molybdenum Disulfide (Small 41/2016). Small, 2016, 12, 5650-5650.	10.0	0
88	Synthesis of additive free electrode material of supercapacitor for energy storage applications. , 2016, , .		2
89	MoS₂â€Based Tactile Sensor for Electronic Skin Applications. Advanced Materials, 2016, 28, 2556-2562.	21.0	351
90	Onâ€Fabrication Solidâ€State Nâ€Doping of Graphene by an Electronâ€Transporting Metal Oxide Layer for Efficient Inverted Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1600172.	19.5	46

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91	Enhanced Raman Scattering of Rhodamine 6G Films on Two-Dimensional Transition Metal Dichalcogenides Correlated to Photoinduced Charge Transfer. Chemistry of Materials, 2016, 28, 180-187.	6.7	112
92	Instability in an amorphous Inâ€“Gaâ€“Znâ€“O field effect transistor upon water exposure. Journal Physics D: Applied Physics, 2016, 49, 055102.	2.8	5
93	Epitaxial Growth of Thin Ferroelectric Polymer Films on Graphene Layer for Fully Transparent and Flexible Nonvolatile Memory. Nano Letters, 2016, 16, 334-340.	9.1	117
94	Flexible Transistors: Dryingâ€Mediated Selfâ€Assembled Growth of Transition Metal Dichalcogenide Wires and their Heterostructures (Adv. Mater. 28/2015). Advanced Materials, 2015, 27, 4243-4243.	21.0	0
95	Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. Scientific Reports, 2015, 5, 12326.	3.3	65
96	Value-added Synthesis of Graphene: Recycling Industrial Carbon Waste into Electrodes for High-Performance Electronic Devices. Scientific Reports, 2015, 5, 16710.	3.3	36
97	Dryingâ€Mediated Selfâ€Assembled Growth of Transition Metal Dichalcogenide Wires and their Heterostructures. Advanced Materials, 2015, 27, 4142-4149.	21.0	30
98	Stretchable Si Logic Devices with Graphene Interconnects. Small, 2015, 11, 6272-6277.	10.0	15
99	Reduced Water Vapor Transmission Rate of Graphene Gas Barrier Films for Flexible Organic Field-Effect Transistors. ACS Nano, 2015, 9, 5818-5824.	14.6	93
100	Giant modulation depth in the photoexcited topological surface plasmons exceeding 2,400 %. , 2015, , .		0
101	Vertical field effect tunneling transistor based on graphene-ultrathin Si nanomembrane heterostructures. 2D Materials, 2015, 2, 044006.	4.4	12
102	Graphene Photodetectors: Highâ€“Performance Perovskiteâ€“Graphene Hybrid Photodetector (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	21.0	3
103	Influence of nonionic surfactant-modified PEDOT:PSS on graphene. Carbon, 2015, 85, 261-268.	10.3	31
104	Flexible graphene based microwave attenuators. Nanotechnology, 2015, 26, 055201.	2.6	11
105	Improvement of work function and hole injection efficiency of graphene anode using CHF ₃ plasma treatment. 2D Materials, 2015, 2, 014002.	4.4	17
106	A Facile Route for Patterned Growth of Metalâ€“Insulator Carbon Lateral Junction through One-Pot Synthesis. ACS Nano, 2015, 9, 8352-8360.	14.6	8
107	Efficient Direct Reduction of Graphene Oxide by Silicon Substrate. Scientific Reports, 2015, 5, 12306.	3.3	32
108	Pressure-induced chemical enhancement in Raman scattering from grapheneâ€“Rhodamine 6Gâ€“graphene sandwich structures. Carbon, 2015, 89, 318-327.	10.3	14

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109	Hybrid structures of organic dye and graphene for ultrahigh gain photodetectors. Carbon, 2015, 88, 165-172.	10.3	67
110	Si membrane based tactile sensor with active matrix circuitry for artificial skin applications. Applied Physics Letters, 2015, 106, .	3.3	28
111	Graphene as a flexible electronic material: mechanical limitations by defect formation and efforts to overcome. Materials Today, 2015, 18, 336-344.	14.2	133
112	Ultra-high modulation depth exceeding 2,400% in optically controlled topological surface plasmons. Nature Communications, 2015, 6, 8814.	12.8	76
113	Nucleation and Growth of the HfO₂ Dielectric Layer for Graphene-Based Devices. Chemistry of Materials, 2015, 27, 5868-5877.	6.7	43
114	Additive-free thick graphene film as an anode material for flexible lithium-ion batteries. Nanoscale, 2015, 7, 7065-7071.	5.6	46
115	Highâ€Performance Perovskiteâ€“Graphene Hybrid Photodetector. Advanced Materials, 2015, 27, 41-46.	21.0	753
116	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	5.6	2,452
117	Ultrafast terahertz spectroscopy of the inverse giant piezoresistance effect in silicon nanomembranes. , 2015, , .		0
118	Graphene-Based Heat Spreader for Flexible Electronic Devices. IEEE Transactions on Electron Devices, 2014, 61, 4171-4175.	3.0	35
119	Photo-patternable ion gel-gated graphene transistors and inverters on plastic. Nanotechnology, 2014, 25, 014002.	2.6	56
120	Tuning Optical Conductivity of Largeâ€Scale CVD Graphene by Strain Engineering. Advanced Materials, 2014, 26, 1081-1086.	21.0	86
121	Graphene modelocked VECSELs. , 2014, , .		1
122	Detection of graphene domains and defects using liquid crystals. Nature Communications, 2014, 5, 3484.	12.8	62
123	A graphene-based transparent electrode for use in flexible optoelectronic devices. Journal of Materials Chemistry C, 2014, 2, 2646-2656.	5.5	145
124	Double-layer CVD graphene as stretchable transparent electrodes. Nanoscale, 2014, 6, 6057-6064.	5.6	77
125	Effect of PEDOT Nanofibril Networks on the Conductivity, Flexibility, and Coatability of PEDOT:PSS Films. ACS Applied Materials & Interfaces, 2014, 6, 6954-6961.	8.0	140
126	Selfâ€Healing Reduced Graphene Oxide Films by Supersonic Kinetic Spraying. Advanced Functional Materials, 2014, 24, 4986-4995.	14.9	151

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127	Observation of the Inverse Giant Piezoresistance Effect in Silicon Nanomembranes Probed by Ultrafast Terahertz Spectroscopy. Nano Letters, 2014, 14, 6942-6948.	9.1	11
128	Graphene-Based Conformal Devices. ACS Nano, 2014, 8, 7655-7662.	14.6	86
129	Giant spin Hall effect in graphene grown by chemical vapour deposition. Nature Communications, 2014, 5, 4748.	12.8	179
130	Synthesis of wafer-scale uniform molybdenum disulfide films with control over the layer number using a gas phase sulfur precursor. Nanoscale, 2014, 6, 2821.	5.6	166
131	Selective growth of inorganic nanomaterials on an oxidized graphene scaffold. Carbon, 2014, 78, 317-325.	10.3	4
132	Uniform Growth of High-Quality Oxide Thin Films on Graphene Using a CdSe Quantum Dot Array Seeding Layer. ACS Applied Materials & Interfaces, 2014, 6, 13015-13022.	8.0	5
133	Graphene for displays that bend. Nature Nanotechnology, 2014, 9, 737-738.	31.5	150
134	Monatomic Chemical-Vapor-Deposited Graphene Membranes Bridge a Half-Millimeter-Scale Gap. ACS Nano, 2014, 8, 2336-2344.	14.6	37
135	Ultrathin Organic Solar Cells with Graphene Doped by Ferroelectric Polarization. ACS Applied Materials & Interfaces, 2014, 6, 3299-3304.	8.0	91
136	Organic solar cells using CVD-grown graphene electrodes. Nanotechnology, 2014, 25, 014012.	2.6	81
137	Highly Conductive Freestanding Graphene Films as Anode Current Collectors for Flexible Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 11158-11166.	8.0	54
138	Graphene saturable absorbers for VECSELs. Proceedings of SPIE, 2014, , .	0.8	1
139	Fracture Characteristics of Monolayer CVD-Graphene. Scientific Reports, 2014, 4, 4439.	3.3	73
140	Unconventional Transport through Graphene on SrTiO3: A Plausible Effect of SrTiO3 Phase-Transitions. Scientific Reports, 2014, 4, 6173.	3.3	27
141	Fabrication of Metallic Nanomesh: Pt Nano-Mesh as a Proof of Concept for Stretchable and Transparent Electrodes. Chemistry of Materials, 2013, 25, 3535-3538.	6.7	83
142	Graphene based field effect transistors: Efforts made towards flexible electronics. Solid-State Electronics, 2013, 89, 177-188.	1.4	85
143	Graphene-based transparent strain sensor. Carbon, 2013, 51, 236-242.	10.3	711
144	2â€‰Î¼m solid-state laser mode-locked by single-layer graphene. Applied Physics Letters, 2013, 102, 013113.	3.3	120

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145	Graphene Films for Flexible Organic and Energy Storage Devices. Journal of Physical Chemistry Letters, 2013, 4, 831-841.	4.6	65
146	Thermal stability of metal Ohmic contacts in indium gallium zinc oxide transistors using a graphene barrier layer. Applied Physics Letters, 2013, 102, .	3.3	30
147	Graphene-P(VDF-TrFE) Multilayer Film for Flexible Applications. ACS Nano, 2013, 7, 3130-3138.	14.6	220
148	Graphene Based Nanogenerator for Energy Harvesting. Japanese Journal of Applied Physics, 2013, 52, 06GA02.	1.5	26
149	Quantum Confinement Effects in Transferrable Silicon Nanomembranes and Their Applications on Unusual Substrates. Nano Letters, 2013, 13, 5600-5607.	9.1	49
150	Graphene/liquid crystal based terahertz phase shifters. Optics Express, 2013, 21, 21395.	3.4	84
151	High-quality Si_3N_4 circuits as a platform for graphene-based nanophotonic devices. Optics Express, 2013, 21, 31678.	3.4	45
152	Flexible grapheneâ€"PZT ferroelectric nonvolatile memory. Nanotechnology, 2013, 24, 475202.	2.6	62
153	Passively modelocked VECSEL using a single-layer graphene saturable absorber mirror. , 2013, , .		0
154	Conductance modulation in topological insulator Bi2Se3 thin films with ionic liquid gating. Applied Physics Letters, 2013, 103, .	3.3	32
155	Ultrafast and widely tuneable vertical-external-cavity surface-emitting laser, mode-locked by a graphene-integrated distributed Bragg reflector. Optics Express, 2013, 21, 31548.	3.4	111
156	GRAPHENE-BASED TRANSPARENT CONDUCTIVE FILMS. Nano, 2013, 08, 1330001.	1.0	52
157	Multiple Virtual Tunneling of Dirac Fermions in Granular Graphene. Scientific Reports, 2013, 3, 3404.	3.3	4
158	Loadâ€Controlled Roll Transfer of Oxide Transistors for Stretchable Electronics. Advanced Functional Materials, 2013, 23, 2024-2032.	14.9	78
159	Technology of Flexible Semiconductor/Memory Device. Journal of the Microelectronics and Packaging Society, 2013, 20, 1-9.	0.1	7
160	Graphene based Transparent Conductive Film : Status and Perspective. Journal of the Korean Ceramic Society, 2013, 50, 309-318.	2.3	0
161	Low-temperature growth and direct transfer of grapheneâ€"graphitic carbon films on flexible plastic substrates. Nanotechnology, 2012, 23, 344016.	2.6	28
162	Numerical Design of SiO$_{2}$ Bridges in Stretchable Thin Film Transistors. Japanese Journal of Applied Physics, 2012, 51, 01AG10.	1.5	0

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163	Shifting of surface plasmon resonance due to electromagnetic coupling between graphene and Au nanoparticles. Optics Express, 2012, 20, 19690.	3.4	43
164	MECHANICAL FLEXIBILITY OF ZINC OXIDE THIN-FILM TRANSISTORS PREPARED BY TRANSFER PRINTING METHOD. Modern Physics Letters B, 2012, 26, 1250077.	1.9	27
165	Three-Dimensional Writing of Highly Stretchable Organic Nanowires. ACS Macro Letters, 2012, 1, 375-379.	4.8	47
166	Quasi-Periodic Nanoripples in Graphene Grown by Chemical Vapor Deposition and Its Impact on Charge Transport. ACS Nano, 2012, 6, 1158-1164.	14.6	129
167	Stretchable electronics: materials, architectures and integrations. Journal Physics D: Applied Physics, 2012, 45, 103001.	2.8	145
168	Dynamic spin injection into chemical vapor deposited graphene. Applied Physics Letters, 2012, 101, .	3.3	43
169	Extremely efficient flexible organic light-emitting diodes with modified graphene anode. Nature Photonics, 2012, 6, 105-110.	31.4	1,272
170	Coplanar-Gate Transparent Graphene Transistors and Inverters on Plastic. ACS Nano, 2012, 6, 8646-8651.	14.6	110
171	All Graphene-Based Thin Film Transistors on Flexible Plastic Substrates. Nano Letters, 2012, 12, 3472-3476.	9.1	225
172	Graphene-based flexible and stretchable thin film transistors. Nanoscale, 2012, 4, 4870.	5.6	135
173	A high performance PZT ribbon-based nanogenerator using graphene transparent electrodes. Energy and Environmental Science, 2012, 5, 8970.	30.8	157
174	Graphene induced tunability of the surface plasmon resonance. Applied Physics Letters, 2012, 100, .	3.3	97
175	Towards industrial applications of graphene electrodes. Physica Scripta, 2012, T146, 014024.	2.5	131
176	Mechanical and Environmental Stability of Polymer Thin-Film-Coated Graphene. ACS Nano, 2012, 6, 2096-2103.	14.6	61
177	Flexible and Platinumâ€Free Dyeâ€Sensitized Solar Cells with Conductingâ€Polymerâ€Coated Graphene Counter Electrodes. ChemSusChem, 2012, 5, 379-382.	6.8	133
178	Atomic layer etching of graphene for full graphene device fabrication. Carbon, 2012, 50, 429-435.	10.3	80
179	The mechanical responses of tilted and non-tilted grain boundaries in graphene. Carbon, 2012, 50, 3708-3716.	10.3	79
180	Synthesis and applications of graphene electrodes. Carbon Letters, 2012, 13, 1-16.	5.9	33

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181	Numerical Design of SiO2Bridges in Stretchable Thin Film Transistors. Japanese Journal of Applied Physics, 2012, 51, 01AG10.	1.5	1
182	Chemical Vapor Deposition-Grown Graphene: The Thinnest Solid Lubricant. ACS Nano, 2011, 5, 5107-5114.	14.6	462
183	Stretchable Graphene Transistors with Printed Dielectrics and Gate Electrodes. Nano Letters, 2011, 11, 4642-4646.	9.1	351
184	Wafer-scale graphene/ferroelectric hybrid devices for low-voltage electronics. Europhysics Letters, 2011, 93, 17002.	2.0	74
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