

SungWoo Nam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65

papers

3,794

citations

26

h-index

61

g-index

71

ext. papers

4,450

ext. citations

11.5

avg, IF

5.5

L-index

#	Paper	IF	Citations
65	Strain Engineering of Low-dimensional Materials for Emerging Quantum Phenomena and Functionalities. <i>Advanced Materials</i> , 2021 , e2107362	24	3
64	Role of Thin Film Adhesion on Capillary Peeling. <i>Nano Letters</i> , 2021 , 21, 9983-9989	11.5	2
63	Highly Strain-Tunable Interlayer Excitons in MoS/WSe Heterobilayers. <i>Nano Letters</i> , 2021 , 21, 3956-3964	11.5	16
62	Large scale self-assembly of plasmonic nanoparticles on deformed graphene templates. <i>Scientific Reports</i> , 2021 , 11, 12232	4.9	6
61	Effects of Layering and Supporting Substrate on Liquid Slip at the Single-Layer Graphene Interface. <i>ACS Nano</i> , 2021 , 15, 10095-10106	16.7	2
60	Strongly enhanced electromechanical coupling in atomically thin transition metal dichalcogenides. <i>Materials Today</i> , 2021 , 47, 69-74	21.8	1
59	Atomically Smooth Graphene-Based Hybrid Template for the Epitaxial Growth of Organic Semiconductor Crystals. <i>Advanced Functional Materials</i> , 2021 , 31, 2008813	15.6	3
58	Polarization Control of Deterministic Single-Photon Emitters in Monolayer WSe. <i>Nano Letters</i> , 2021 , 21, 1546-1554	11.5	12
57	Strain-resilient electrical functionality in thin-film metal electrodes using two-dimensional interlayers.. <i>Nature Electronics</i> , 2021 , 4, 126-133	28.4	20
56	Ultra-thin self-healing vitrimer coatings for durable hydrophobicity. <i>Nature Communications</i> , 2021 , 12, 5210	17.4	21
55	Interaction of 2D materials with liquids: wettability, electrochemical properties, friction, and emerging directions. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	24
54	Ultrasensitive detection of nucleic acids using deformed graphene channel field effect biosensors. <i>Nature Communications</i> , 2020 , 11, 1543	17.4	123
53	Current understanding and emerging applications of 3D crumpling mediated 2D material-liquid interactions. <i>Current Opinion in Solid State and Materials Science</i> , 2020 , 24, 100836	12	5
52	Heterogeneous deformation of two-dimensional materials for emerging functionalities. <i>Journal of Materials Research</i> , 2020 , 35, 1369-1385	2.5	5
51	Multiaxially-stretchable kirigami-patterned mesh design for graphene sensor devices. <i>Nano Research</i> , 2020 , 13, 1406-1412	10	11
50	Integration of Graphene Electrodes with 3D Skeletal Muscle Tissue Models. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901137	10.1	15
49	Kirigami-inspired strain-insensitive sensors based on atomically-thin materials. <i>Materials Today</i> , 2020 , 34, 58-65	21.8	33

48	Enhanced Electrical and Mechanical Properties of Chemically Cross-Linked Carbon-Nanotube-Based Fibers and Their Application in High-Performance Supercapacitors. <i>ACS Nano</i> , 2020 , 14, 632-639	16.7	24
47	Curved neuromorphic image sensor array using a MoS-organic heterostructure inspired by the human visual recognition system. <i>Nature Communications</i> , 2020 , 11, 5934	17.4	60
46	Tunable Piezoelectricity of Multifunctional Boron Nitride Nanotube/Poly(dimethylsiloxane) Stretchable Composites. <i>Advanced Materials</i> , 2020 , 32, e2004607	24	12
45	Tunable Wettability of Graphene through Nondestructive Hydrogenation and Wettability-Based Patterning for Bioapplications. <i>Nano Letters</i> , 2020 , 20, 5625-5631	11.5	11
44	Electrical Double Layer of Supported Atomically Thin Materials. <i>Nano Letters</i> , 2019 , 19, 4588-4593	11.5	15
43	Colloidal Photonic Crystal Strain Sensor Integrated with Deformable Graphene Phototransducer. <i>Advanced Functional Materials</i> , 2019 , 29, 1902216	15.6	31
42	Photonic crystallization of two-dimensional MoS for stretchable photodetectors. <i>Nanoscale</i> , 2019 , 11, 13260-13268	7.7	27
41	High-Mobility MoS ₂ Directly Grown on Polymer Substrate with Kinetics-Controlled Metal/Organic Chemical Vapor Deposition. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 608-616	4	29
40	Hybrid Sensors: Colloidal Photonic Crystal Strain Sensor Integrated with Deformable Graphene Phototransducer (Adv. Funct. Mater. 33/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970229	15.6	
39	Dynamic Radiative Thermal Management by Crumpled Graphene 2019 ,		1
38	Ultraviolet to Mid-Infrared Emissivity Control by Mechanically Reconfigurable Graphene. <i>Nano Letters</i> , 2019 , 19, 5086-5092	11.5	26
37	Crack-assisted, localized deformation of van der Waals materials for enhanced strain confinement. <i>2D Materials</i> , 2019 , 6, 044001	5.9	8
36	Uniaxially crumpled graphene as a platform for guided myotube formation. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 53	7.7	20
35	Recent Advances in Graphene Oxide Membranes for Gas Separation Applications. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	28
34	Slippery and Sticky Graphene in Water. <i>ACS Nano</i> , 2019 , 13, 2072-2082	16.7	6
33	Nanotube-on-graphene heterostructures for three-dimensional nano/bio-interface. <i>Sensors and Actuators B: Chemical</i> , 2018 , 254, 16-20	8.5	7
32	Mechanically reconfigurable architected graphene for tunable plasmonic resonances. <i>Light: Science and Applications</i> , 2018 , 7, 17	16.7	41
31	A stretchable crumpled graphene photodetector with plasmonically enhanced photoresponsivity. <i>Nanoscale</i> , 2017 , 9, 4058-4065	7.7	59

30	Hierarchical, Dual-Scale Structures of Atomically Thin MoS for Tunable Wetting. <i>Nano Letters</i> , 2017 , 17, 1756-1761	11.5	54
29	Defect-Mediated Molecular Interaction and Charge Transfer in Graphene Mesh-Glucose Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14216-14221	9.5	20
28	Mechanical instability driven self-assembly and architecturing of 2D materials. <i>2D Materials</i> , 2017 , 4, 022002	5.9	22
27	A sustainable approach to large area transfer of graphene and recycling of the copper substrate. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11226-11232	7.1	13
26	Reversible and Irreversible Responses of Defect-Engineered Graphene-Based Electrolyte-Gated pH Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 834-9	9.5	39
25	Crumpled Graphene Photodetector with Enhanced, Strain-Tunable, and Wavelength-Selective Photoresponsivity. <i>Advanced Materials</i> , 2016 , 28, 4639-45	24	142
24	Doping-Induced Tunable Wettability and Adhesion of Graphene. <i>Nano Letters</i> , 2016 , 16, 4708-12	11.5	97
23	Rapid Stencil Mask Fabrication Enabled One-Step Polymer-Free Graphene Patterning and Direct Transfer for Flexible Graphene Devices. <i>Scientific Reports</i> , 2016 , 6, 24890	4.9	30
22	Bioelectronics with two-dimensional materials. <i>Microelectronic Engineering</i> , 2016 , 161, 18-35	2.5	40
21	Robust carbon nanotube membranes directly grown on Hastelloy substrates and their potential application for membrane distillation. <i>Carbon</i> , 2016 , 106, 243-251	10.4	21
20	Three-Dimensional Integration of Graphene via Swelling, Shrinking, and Adaptation. <i>Nano Letters</i> , 2015 , 15, 4525-31	11.5	39
19	Batch Fabrication of Transfer-Free Graphene-Coated Microcantilevers. <i>IEEE Sensors Journal</i> , 2015 , 1-1	4	1
18	Mechanically Self-Assembled, Three-Dimensional Graphene-Gold Hybrid Nanostructures for Advanced Nanoplasmonic Sensors. <i>Nano Letters</i> , 2015 , 15, 7684-90	11.5	125
17	Graphene meshes decorated with palladium nanoparticles for hydrogen detection. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 475103	3	10
16	Heterogeneous, three-dimensional texturing of graphene. <i>Nano Letters</i> , 2015 , 15, 1829-35	11.5	78
15	Assembly and densification of nanowire arrays via shrinkage. <i>Nano Letters</i> , 2014 , 14, 3304-8	11.5	16
14	Graphene nanopore with a self-integrated optical antenna. <i>Nano Letters</i> , 2014 , 14, 5584-9	11.5	63
13	Spectroscopic investigation of the wettability of multilayer graphene using highly ordered pyrolytic graphite as a model material. <i>Langmuir</i> , 2014 , 30, 12827-36	4	73

12	Three-dimensional, flexible graphene bioelectronics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 5268-71	0.9	
11	Graphene bioelectronics. <i>Biomedical Engineering Letters</i> , 2013 , 3, 201-208	3.6	15
10	High-performance, transparent, and stretchable electrodes using graphene-metal nanowire hybrid structures. <i>Nano Letters</i> , 2013 , 13, 2814-21	11.5	552
9	All-carbon graphene bioelectronics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5654-7	0.9	
8	Monolithic graphene transistor biointerface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 5678	0.9	
7	Synthesis of monolithic graphene-graphite integrated electronics. <i>Nature Materials</i> , 2011 , 11, 120-5	27	192
6	Programmable nanowire circuits for nanoprocessors. <i>Nature</i> , 2011 , 470, 240-4	50.4	471
5	Vertically integrated, three-dimensional nanowire complementary metal-oxide-semiconductor circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21035-8	11.5	105
4	Layer-by-layer assembly of nanowires for three-dimensional, multifunctional electronics. <i>Nano Letters</i> , 2007 , 7, 773-7	11.5	518
3	InAs/InP radial nanowire heterostructures as high electron mobility devices. <i>Nano Letters</i> , 2007 , 7, 3214-8	11.5	336
2			
1	Monolithic Graphene-Graphite Integrated Electronics	523-538	