Juyoung Leem

List of Publications by Year in descending order

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24 papers	1,269 citations	430874 18 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	2244 citing authors

#	Article	IF	Citations
1	Ultrasensitive detection of nucleic acids using deformed graphene channel field effect biosensors. Nature Communications, 2020, 11, 1543.	12.8	251
2	Curved neuromorphic image sensor array using a MoS2-organic heterostructure inspired by the human visual recognition system. Nature Communications, 2020, 11, 5934.	12.8	182
3	Mechanically Self-Assembled, Three-Dimensional Grapheneâ€“Gold Hybrid Nanostructures for Advanced Nanoplasmonic Sensors. Nano Letters, 2015, 15, 7684-7690.	9.1	151
4	A stretchable crumpled graphene photodetector with plasmonically enhanced photoresponsivity. Nanoscale, 2017, 9, 4058-4065.	5.6	81
5	Kirigami-inspired strain-insensitive sensors based on atomically-thin materials. Materials Today, 2020, 34, 58-65.	14.2	65
6	Three-Dimensional Integration of Graphene via Swelling, Shrinking, and Adaptation. Nano Letters, 2015, 15, 4525-4531.	9.1	53
7	Interaction of 2D materials with liquids: wettability, electrochemical properties, friction, and emerging directions. NPG Asia Materials, 2020, 12, .	7.9	53
8	Colloidal Photonic Crystal Strain Sensor Integrated with Deformable Graphene Phototransducer. Advanced Functional Materials, 2019, 29, 1902216.	14.9	51
9	Ultraviolet to Mid-Infrared Emissivity Control by Mechanically Reconfigurable Graphene. Nano Letters, 2019, 19, 5086-5092.	9.1	48
10	Controllable Ag nanostructure patterning in a microfluidic channel for real-time SERS systems. Nanoscale, 2014, 6, 2895.	5.6	47
11	High-Mobility MoS₂ Directly Grown on Polymer Substrate with Kinetics-Controlled Metalâ€“Organic Chemical Vapor Deposition. ACS Applied Electronic Materials, 2019, 1, 608-616.	4.3	47
12	Photonic crystallization of two-dimensional MoS₂ for stretchable photodetectors. Nanoscale, 2019, 11, 13260-13268.	5.6	43
13	Continuous synthesis of zinc oxide nanoparticles in a microfluidic system for photovoltaic application. Nanoscale, 2014, 6, 2840.	5.6	36
14	Mechanical instability driven self-assembly and architecturing of 2D materials. 2D Materials, 2017, 4, 022002.	4.4	28
15	Uniaxially crumpled graphene as a platform for guided myotube formation. Microsystems and Nanoengineering, 2019, 5, 53.	7.0	26
16	High thermoelectric figure of merit of porous Si nanowires from 300 to 700â€‰K. Nature Communications, 2021, 12, 3926.	12.8	26
17	Plasmonic sensors based on graphene and graphene hybrid materials. Nano Convergence, 2022, 9, .	12.1	23
18	Vacuum-assisted microcontact printing (Ï¼CP) for aligned patterning of nano and biochemical materials. Journal of Materials Chemistry C, 2013, 1, 268-274.	5.5	18

#	Article	IF	Citations
19	Photoinduced synthesis of Ag nanoparticles on ZnO nanowires for real-time SERS systems. RSC Advances, 2015, 5, 51-57.	3.6	17
20	Crack-assisted, localized deformation of van der Waals materials for enhanced strain confinement. 2D Materials, 2019, 6, 044001.	4.4	11
21	Large scale self-assembly of plasmonic nanoparticles on deformed graphene templates. Scientific Reports, 2021, 11, 12232.	3.3	10
22	Dynamic Radiative Thermal Management by Crumpled Graphene. , 2019, , .		1
23	A snapshot review on exciton engineering in deformed 2D materials. MRS Advances, 2020, 5, 3491-3506.	0.9	1
24	Hybrid Sensors: Colloidal Photonic Crystal Strain Sensor Integrated with Deformable Graphene Phototransducer (Adv. Funct. Mater. 33/2019). Advanced Functional Materials, 2019, 29, 1970229.	14.9	0