

Jin Sik Choi

List of Publications by Year in descending order

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42
papers

1,685
citations

394286

19
h-index

289141

40
g-index

42
all docs

42
docs citations

42
times ranked

3373
citing authors

#	ARTICLE	IF	CITATIONS
1	Friction Anisotropy-Driven Domain Imaging on Exfoliated Monolayer Graphene. <i>Science</i> , 2011, 333, 607-610.	6.0	284
2	Interference effect on Raman spectrum of graphene on SiO_2 . <i>Physical Review B</i> , 2009, 80, .	11.1	255
3	Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers. <i>Small</i> , 2014, 10, 3685-3691.	5.2	142
4	Nanoscale Lithography on Monolayer Graphene Using Hydrogenation and Oxidation. <i>ACS Nano</i> , 2011, 5, 6417-6424.	7.3	138
5	Nanotribological Properties of Fluorinated, Hydrogenated, and Oxidized Graphenes. <i>Tribology Letters</i> , 2013, 50, 137-144.	1.2	123
6	Characteristics and effects of diffused water between graphene and a SiO_2 substrate. <i>Nano Research</i> , 2012, 5, 710-717.	5.8	91
7	Between Scylla and Charybdis: Hydrophobic Graphene-Guided Water Diffusion on Hydrophilic Substrates. <i>Scientific Reports</i> , 2013, 3, 2309.	1.6	60
8	Enhancement of Friction by Water Intercalated between Graphene and Mica. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3482-3487.	2.1	57
9	Mechanical Control of Electroresistive Switching. <i>Nano Letters</i> , 2013, 13, 4068-4074.	4.5	55
10	Layer number identification of CVD-grown multilayer graphene using Si peak analysis. <i>Scientific Reports</i> , 2018, 8, 571.	1.6	50
11	Enhanced piezoelectric properties of Ta substituted-($\text{K}_{0.5}\text{Na}_{0.5}$) NbO_3 films: A candidate for lead-free piezoelectric thin films. <i>Journal of Alloys and Compounds</i> , 2011, 509, L194-L198.	2.8	39
12	Graphene-Semiconductor Catalytic Nanodiodes for Quantitative Detection of Hot Electrons Induced by a Chemical Reaction. <i>Nano Letters</i> , 2016, 16, 1650-1656.	4.5	37
13	Raman Spectra Shift of Few-Layer IV-VI 2D Materials. <i>Scientific Reports</i> , 2019, 9, 19826.	1.6	36
14	Hot carrier multiplication on graphene/ TiO_2 Schottky nanodiodes. <i>Scientific Reports</i> , 2016, 6, 27549.	1.6	34
15	Electrical control of nanoscale functionalization in graphene by the scanning probe technique. <i>NPG Asia Materials</i> , 2014, 6, e102-e102.	3.8	29
16	Gas molecule sensing of van der Waals tunnel field effect transistors. <i>Nanoscale</i> , 2017, 9, 18644-18650.	2.8	29
17	Facile characterization of ripple domains on exfoliated graphene. <i>Review of Scientific Instruments</i> , 2012, 83, 073905.	0.6	27
18	Doping effect in graphene-graphene oxide interlayer. <i>Scientific Reports</i> , 2020, 10, 8258.	1.6	25

#	ARTICLE	IF	CITATIONS
19	Correlation between micrometer-scale ripple alignment and atomic-scale crystallographic orientation of monolayer graphene. <i>Scientific Reports</i> , 2014, 4, 7263.	1.6	21
20	Memristor Behaviors of Highly Oriented Anatase TiO ₂ Film Sandwiched between Top Pt and Bottom SrRuO ₃ Electrodes. <i>Applied Physics Express</i> , 2011, 4, 041101.	1.1	17
21	Facile fabrication of properties-controllable graphene sheet. <i>Scientific Reports</i> , 2016, 6, 24525.	1.6	16
22	Nanotribology of 2D materials and their macroscopic applications. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 393001.	1.3	14
23	Configuration of ripple domains and their topological defects formed under local mechanical stress on hexagonal monolayer graphene. <i>Scientific Reports</i> , 2015, 5, 9390.	1.6	10
24	Facile Dry Surface Cleaning of Graphene by UV Treatment. <i>Journal of the Korean Physical Society</i> , 2018, 72, 1045-1051.	0.3	10
25	Enhanced ferroelectric photovoltaic effect in semiconducting single-wall carbon nanotube/BiFeO ₃ heterostructures enabled by wide-range light absorption and efficient charge separation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10377-10385.	5.2	10
26	Fabrication and Memory Effect of Zr Nanocrystals Embedded in ZrO ₂ Dielectric Layer. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L1246-L1248.	0.8	9
27	Charge transport-driven selective oxidation of graphene. <i>Nanoscale</i> , 2016, 8, 11494-11502.	2.8	9
28	Controlled mechanical modification of manganite surface with nanoscale resolution. <i>Nanotechnology</i> , 2014, 25, 475302.	1.3	8
29	Flexible Electronics: Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers (Small 18/2014). <i>Small</i> , 2014, 10, 3812-3812.	5.2	7
30	Single-step synthesis of wrinkled MoSe ₂ thin films. <i>Current Applied Physics</i> , 2019, 19, 273-278.	1.1	7
31	Arbitrary alignment-angle control method of electrospun fibers: potential for a stretchable electrode material. <i>RSC Advances</i> , 2017, 7, 44945-44953.	1.7	6
32	All-Graphene-Contact Electrically Pumped On-Demand Transferrable Nanowire Source. <i>Nano Letters</i> , 2022, 22, 1316-1323.	4.5	5
33	Enhancement of the Raman scattering intensity in folded bilayer graphene. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1278-1281.	0.3	4
34	Spatially localized wavelength-selective absorption in morphology-modulated semiconductor nanowires. <i>Optics Express</i> , 2017, 25, 22750.	1.7	4
35	Convection-based realtime polymerase chain reaction (PCR) utilizing transparent graphene heaters. , 2014, , .		3
36	Sample rotation angle dependence of graphene thickness measured using atomic force microscope. <i>Carbon</i> , 2015, 81, 210-215.	5.4	3

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37	Transparent conducting films of silver hybrid films formed by near-field electrospinning. <i>Materials Letters</i> , 2016, 185, 139-142.	1.3	3
38	Graphene laminated Cu nanoparticle arrays by spontaneous formation through dewetting. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 64, 367-372.	2.9	3
39	Gate-tuned conductance of graphene-ribbon junctions with nanoscale width variations. <i>Nanoscale</i> , 2019, 11, 4735-4742.	2.8	3
40	Ripples, Wrinkles, and Crumples in Folded Graphene. <i>Journal of the Korean Physical Society</i> , 2020, 76, 985-990.	0.3	1
41	Physisorption and Chemisorption of SF ₆ by Transition Metal-Porphyrin Structure Embedded on Graphene Surface with Different Hapticities. <i>Journal of the Korean Physical Society</i> , 2020, 76, 1001-1004.	0.3	1
42	Raman Spectroscopy of Graphene (abstract)., 2009, , .		0