

Jin Sik Choi

List of Publications by Year in descending order

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42
papers

1,685
citations

394421

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289244

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docs citations

42
times ranked

3373
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Graphene-Contact Electrically Pumped On-Demand Transferrable Nanowire Source. <i>Nano Letters</i> , 2022, 22, 1316-1323.	9.1	5
2	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.	10.3	10
3	Doping effect in graphene-graphene oxide interlayer. <i>Scientific Reports</i> , 2020, 10, 8258.	3.3	25
4	Nanotribology of 2D materials and their macroscopic applications. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 393001.	2.8	14
5	Ripples, Wrinkles, and Crumples in Folded Graphene. <i>Journal of the Korean Physical Society</i> , 2020, 76, 985-990.	0.7	1
6	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.	0.7	1
7	Gate-tuned conductance of graphene-ribbon junctions with nanoscale width variations. <i>Nanoscale</i> , 2019, 11, 4735-4742.	5.6	3
8	Raman Spectra Shift of Few-Layer IV-VI 2D Materials. <i>Scientific Reports</i> , 2019, 9, 19826.	3.3	36
9	Single-step synthesis of wrinkled MoSe ₂ thin films. <i>Current Applied Physics</i> , 2019, 19, 273-278.	2.4	7
10	Graphene laminated Cu nanoparticle arrays by spontaneous formation through dewetting. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 64, 367-372.	5.8	3
11	Layer number identification of CVD-grown multilayer graphene using Si peak analysis. <i>Scientific Reports</i> , 2018, 8, 571.	3.3	50
12	Facile Dry Surface Cleaning of Graphene by UV Treatment. <i>Journal of the Korean Physical Society</i> , 2018, 72, 1045-1051.	0.7	10
13	Gas molecule sensing of van der Waals tunnel field effect transistors. <i>Nanoscale</i> , 2017, 9, 18644-18650.	5.6	29
14	Arbitrary alignment-angle control method of electrospun fibers: potential for a stretchable electrode material. <i>RSC Advances</i> , 2017, 7, 44945-44953.	3.6	6
15	Enhancement of Friction by Water Intercalated between Graphene and Mica. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3482-3487.	4.6	57
16	Spatially localized wavelength-selective absorption in morphology-modulated semiconductor nanowires. <i>Optics Express</i> , 2017, 25, 22750.	3.4	4
17	Facile fabrication of properties-controllable graphene sheet. <i>Scientific Reports</i> , 2016, 6, 24525.	3.3	16
18	Charge transport-driven selective oxidation of graphene. <i>Nanoscale</i> , 2016, 8, 11494-11502.	5.6	9

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19	Transparent conducting films of silver hybrid films formed by near-field electrospinning. <i>Materials Letters</i> , 2016, 185, 139-142.	2.6	3
20	Hot carrier multiplication on graphene/TiO ₂ Schottky nanodiodes. <i>Scientific Reports</i> , 2016, 6, 27549.	3.3	34
21	Graphene- <i>“Semiconductor Catalytic Nanodiodes for Quantitative Detection of Hot Electrons Induced by a Chemical Reaction.</i> <i>Nano Letters</i> , 2016, 16, 1650-1656.	9.1	37
22	Configuration of ripple domains and their topological defects formed under local mechanical stress on hexagonal monolayer graphene. <i>Scientific Reports</i> , 2015, 5, 9390.	3.3	10
23	Sample rotation angle dependence of graphene thickness measured using atomic force microscope. <i>Carbon</i> , 2015, 81, 210-215.	10.3	3
24	Electrical control of nanoscale functionalization in graphene by the scanning probe technique. <i>NPG Asia Materials</i> , 2014, 6, e102-e102.	7.9	29
25	Convection-based realtime polymerase chain reaction (PCR) utilizing transparent graphene heaters. , 2014, , .		3
26	Controlled mechanical modification of manganite surface with nanoscale resolution. <i>Nanotechnology</i> , 2014, 25, 475302.	2.6	8
27	Flexible Electronics: Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers (<i>Small</i> 18/2014). <i>Small</i> , 2014, 10, 3812-3812.	10.0	7
28	Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers. <i>Small</i> , 2014, 10, 3685-3691.	10.0	142
29	Correlation between micrometer-scale ripple alignment and atomic-scale crystallographic orientation of monolayer graphene. <i>Scientific Reports</i> , 2014, 4, 7263.	3.3	21
30	Nanotribological Properties of Fluorinated, Hydrogenated, and Oxidized Graphenes. <i>Tribology Letters</i> , 2013, 50, 137-144.	2.6	123
31	Mechanical Control of Electroresistive Switching. <i>Nano Letters</i> , 2013, 13, 4068-4074.	9.1	55
32	Between Scylla and Charybdis: Hydrophobic Graphene-Guided Water Diffusion on Hydrophilic Substrates. <i>Scientific Reports</i> , 2013, 3, 2309.	3.3	60
33	Facile characterization of ripple domains on exfoliated graphene. <i>Review of Scientific Instruments</i> , 2012, 83, 073905.	1.3	27
34	Characteristics and effects of diffused water between graphene and a SiO ₂ substrate. <i>Nano Research</i> , 2012, 5, 710-717.	10.4	91
35	Enhancement of the Raman scattering intensity in folded bilayer graphene. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1278-1281.	0.7	4
36	Friction Anisotropy-Driven Domain Imaging on Exfoliated Monolayer Graphene. <i>Science</i> , 2011, 333, 607-610.	12.6	284

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37	Nanoscale Lithography on Monolayer Graphene Using Hydrogenation and Oxidation. ACS Nano, 2011, 5, 6417-6424.	14.6	138
38	Enhanced piezoelectric properties of Ta substituted-(K _{0.5} Na _{0.5})NbO ₃ films: A candidate for lead-free piezoelectric thin films. Journal of Alloys and Compounds, 2011, 509, L194-L198.	5.5	39
39	Memristor Behaviors of Highly Oriented Anatase TiO ₂ Film Sandwiched between Top Pt and Bottom SrRuO ₃ Electrodes. Applied Physics Express, 2011, 4, 041101.	2.4	17
40	Raman Spectroscopy of Graphene (abstract)., 2009, , .		0
41	Interference effect on Raman spectrum of graphene on SiO_2 . Physical Review B, 2009, 80, .	3.2	255
42	Fabrication and Memory Effect of Zr Nanocrystals Embedded in ZrO ₂ Dielectric Layer. Japanese Journal of Applied Physics, 2007, 46, L1246-L1248.	1.5	9