

Inhwa Jung

List of Publications by Year in descending order

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45
papers

21,021
citations

201385

27
h-index

264894

42
g-index

45
all docs

45
docs citations

45
times ranked

28223
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Area Synthesis of High-Quality and Uniform Graphene Films on Copper Foils. <i>Science</i> , 2009, 324, 1312-1314.	6.0	10,000
2	Chemical analysis of graphene oxide films after heat and chemical treatments by X-ray photoelectron and Micro-Raman spectroscopy. <i>Carbon</i> , 2009, 47, 145-152.	5.4	2,924
3	Colloidal Suspensions of Highly Reduced Graphene Oxide in a Wide Variety of Organic Solvents. <i>Nano Letters</i> , 2009, 9, 1593-1597.	4.5	1,502
4	Digital cameras with designs inspired by the arthropod eye. <i>Nature</i> , 2013, 497, 95-99.	13.7	926
5	Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets. <i>Chemistry of Materials</i> , 2008, 20, 6592-6594.	3.2	905
6	Tunable Electrical Conductivity of Individual Graphene Oxide Sheets Reduced at "Low" Temperatures. <i>Nano Letters</i> , 2008, 8, 4283-4287.	4.5	820
7	Graphene-Silica Composite Thin Films as Transparent Conductors. <i>Nano Letters</i> , 2007, 7, 1888-1892.	4.5	813
8	GaAs photovoltaics and optoelectronics using releasable multilayer epitaxial assemblies. <i>Nature</i> , 2010, 465, 329-333.	13.7	524
9	Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20264-20268.	1.5	321
10	Simple Approach for High-Contrast Optical Imaging and Characterization of Graphene-Based Sheets. <i>Nano Letters</i> , 2007, 7, 3569-3575.	4.5	311
11	Skin-interfaced biosensors for advanced wireless physiological monitoring in neonatal and pediatric intensive-care units. <i>Nature Medicine</i> , 2020, 26, 418-429.	15.2	272
12	Dynamically tunable hemispherical electronic eye camera system with adjustable zoom capability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1788-1793.	3.3	242
13	Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18480-18486.	1.5	207
14	Characterization of Thermally Reduced Graphene Oxide by Imaging Ellipsometry. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8499-8506.	1.5	196
15	CO2 absorption enhancement by methanol-based Al2O3 and SiO2 nanofluids in a tray column absorber. <i>International Journal of Refrigeration</i> , 2012, 35, 1402-1409.	1.8	145
16	Electrochemical study of corrosion behavior of graphene coatings on copper and aluminum in a chloride solution. <i>Carbon</i> , 2014, 75, 335-344.	5.4	134
17	Micromechanics and Advanced Designs for Curved Photodetector Arrays in Hemispherical Electronic "Eye" Cameras. <i>Small</i> , 2010, 6, 851-856.	5.2	94
18	Wireless sensors for continuous, multimodal measurements at the skin interface with lower limb prostheses. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	93

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19	Ultra-robust wide-range pressure sensor with fast response based on polyurethane foam doubly coated with conformal silicone rubber and CNT/TPU nanocomposites islands. <i>Composites Part B: Engineering</i> , 2019, 177, 107364.	5.9	82
20	Tuning sound absorbing properties of open cell polyurethane foam by impregnating graphene oxide. <i>Applied Acoustics</i> , 2019, 151, 10-21.	1.7	58
21	Influence of seawater absorption on the vibration damping characteristics and fracture behaviors of basalt/CNT/epoxy multiscale composites. <i>Composites Part B: Engineering</i> , 2014, 63, 61-66.	5.9	54
22	Paraboloid electronic eye cameras using deformable arrays of photodetectors in hexagonal mesh layouts. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	52
23	Wireless, skin-interfaced sensors for compression therapy. <i>Science Advances</i> , 2020, 6, .	4.7	52
24	Enhanced interfacial, electrical, and flexural properties of polyphenylene sulfide composites filled with carbon fibers modified by electrophoretic surface deposition of multi-walled carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 124-130.	3.8	49
25	Colors of graphene and graphene-oxide multilayers on various substrates. <i>Nanotechnology</i> , 2012, 23, 025708.	1.3	46
26	Dispersion of graphene-based nanocarbon fillers in polyamide 66 by dry processing and its effect on mechanical properties. <i>Composites Part B: Engineering</i> , 2017, 114, 445-456.	5.9	39
27	Mechanics of Tunable Hemispherical Electronic Eye Camera Systems That Combine Rigid Device Elements With Soft Elastomers. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	38
28	Analysis of acoustical performance of Bi-layer graphene and graphene-foam-based thermoacoustic sound generating devices. <i>Carbon</i> , 2018, 127, 13-20.	5.4	24
29	Mechanics of hemispherical electronics. <i>Applied Physics Letters</i> , 2009, 95, 181912.	1.5	19
30	Multiwalled carbon nanotube pretreatment to enhance tensile properties, process stability, and filler dispersion of polyamide 66 nanocomposites. <i>Composites Part B: Engineering</i> , 2020, 198, 108204.	5.9	12
31	DipêPen Lithography of BiFeO₃ Nanodots. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3716-3718.	1.9	10
32	Experimental and modeling studies of imaging with curvilinear electronic eye cameras. <i>Optics Express</i> , 2010, 18, 27346.	1.7	9
33	Formation of Locally Crystallized Ferroelectric Poly(vinylidene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (fluoride-<i>ran</i>) of Physical Chemistry C, 2013, 117, 12890-12894.	1.5	9
34	Acoustic performance of dual-electrode electrostatic sound generators based on CVD graphene on polyimide film. <i>Nanotechnology</i> , 2018, 29, 325502.	1.3	8
35	Reconstruction of optical images of graphene-based materials coated on dielectric substrates. <i>Optical Engineering</i> , 2013, 52, 023601.	0.5	6
36	Bio-inspired hemispherical compound eye camera. , 2014, , .		5

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37	FABRICATION AND MEASUREMENT OF SUSPENDED SILICON CARBIDE NANOWIRE DEVICES AND DEFLECTION. Nano, 2009, 04, 351-358.	0.5	3
38	Ferroelectric PbTiO_3 Nanodots Shattered Using Atomic Force Microscopy. Journal of the American Ceramic Society, 2012, 95, 480-482.	1.9	3
39	Study on optical interference effect of graphene oxide films on SiO_2 and Si_3N_4 dielectric films. Research on Chemical Intermediates, 2014, 40, 2477-2486.	1.3	3
40	Arthropod eye-inspired digital camera with unique imaging characteristics. , 2014, , .		3
41	Visibility of few-layer graphene oxide under modified light using bandpass filters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 2099.	0.8	3
42	In vitro protocol for validating interface pressure sensors for therapeutic compression garments: Importance of sphygmomanometer placement and initial cuff diameter. Veins and Lymphatics, 2018, 7, .	0.1	3
43	Local Crystallization of Noncrystallized PbTiO_3 Thin Film by a Heated Atomic Force Microscope Tip. Journal of the American Ceramic Society, 2012, 95, 1511-1513.	1.9	1
44	Analysis of deformation of flexible hemispherical lens arrays based on soft elastomers. Applied Optics, 2015, 54, 8265.	2.1	1
45	Some Recent Progress on Curvilinear Imagers and Eyeball Cameras. , 2011, , .		0