Inhwa Jung

List of Publications by Year in Descending Order

44 papers	18,416 citations	26 h-index	45 g-index
45 ext. papers	19,947 ext. citations	10 avg, IF	6.03 L-index

#	Paper	IF	Citations
44	Wireless sensors for continuous, multimodal measurements at the skin interface with lower limb prostheses. *Science Translational Medicine*, **2020**, 12,	17.5	39
43	Skin-interfaced biosensors for advanced wireless physiological monitoring in neonatal and pediatric intensive-care units. *Nature Medicine*, **2020**, 26, 418-429	50.5	134
42	Wireless, skin-interfaced sensors for compression therapy. *Science Advances*, **2020**, 6,	14.3	26
41	Multiwalled carbon nanotube pretreatment to enhance tensile properties, process stability, and filler dispersion of polyamide 66 nanocomposites. *Composites Part B: Engineering*, **2020**, 198, 108204	10	6
40	Ultra-robust wide-range pressure sensor with fast response based on polyurethane foam doubly coated with conformal silicone rubber and CNT/TPU nanocomposites islands. *Composites Part B: Engineering*, **2019**, 177, 107364	10	45
39	Tuning sound absorbing properties of open cell polyurethane foam by impregnating graphene oxide. *Applied Acoustics*, **2019**, 151, 10-21	3.1	30
38	Enhanced interfacial, electrical, and flexural properties of polyphenylene sulfide composites filled with carbon fibers modified by electrophoretic surface deposition of multi-walled carbon nanotubes. *Composites Part A: Applied Science and Manufacturing*, **2018**, 109, 124-130	8.4	29
37	Analysis of acoustical performance of Bi-layer graphene and graphene-foam-based thermoacoustic sound generating devices. *Carbon*, **2018**, 127, 13-20	10.4	12
36	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,	1.3	3
35	Acoustic performance of dual-electrode electrostatic sound generators based on CVD graphene on polyimide film. *Nanotechnology*, **2018**, 29, 325502	3.4	6
34	Dispersion of graphene-based nanocarbon fillers in polyamide 66 by dry processing and its effect on mechanical properties. *Composites Part B: Engineering*, **2017**, 114, 445-456	10	32
33	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, 2099-2107	1.8	3
32	Analysis of deformation of flexible hemispherical lens arrays based on soft elastomers. *Applied Optics*, **2015**, 54, 8265-70	0.2	1
31	Electrochemical study of corrosion behavior of graphene coatings on copper and aluminum in a chloride solution. *Carbon*, **2014**, 75, 335-344	10.4	108
30	Study on optical interference effect of graphene oxide films on SiO2 and Si3N4 dielectric films. *Research on Chemical Intermediates*, **2014**, 40, 2477-2486	2.8	3
29	Influence of seawater absorption on the vibration damping characteristics and fracture behaviors of basalt/CNT/epoxy multiscale composites. *Composites Part B: Engineering*, **2014**, 63, 61-66	10	42
28	Arthropod eye-inspired digital camera with unique imaging characteristics **2014**,		3

27	Bio-inspired hemispherical compound eye camera **2014**,		5
26	Reconstruction of optical images of graphene-based materials coated on dielectric substrates. *Optical Engineering*, **2013**, 52, 023601	1.1	6
25	Digital cameras with designs inspired by the arthropod eye. *Nature*, **2013**, 497, 95-9	50.4	721
24	Formation of Locally Crystallized Ferroelectric Poly(vinylidene fluoride-ran-trifluoroethylene) Nanodots Based on Heated Atomic Force Microscopy. *Journal of Physical Chemistry C*, **2013**, 117, 12890-12894	4.8	7
23	Mechanics of Tunable Hemispherical Electronic Eye Camera Systems That Combine Rigid Device Elements With Soft Elastomers. *Journal of Applied Mechanics, Transactions ASME*, **2013**, 80,	2.7	34
22	CO2 absorption enhancement by methanol-based Al2O3 and SiO2 nanofluids in a tray column absorber. *International Journal of Refrigeration*, **2012**, 35, 1402-1409	3.8	118
21	Local Crystallization of Noncrystallized PbTiO3 Thin Film by a Heated Atomic Force Microscope Tip. *Journal of the American Ceramic Society*, **2012**, 95, 1511-1513	3.8	1
20	Dip-Pen Lithography of BiFeO3 Nanodots. *Journal of the American Ceramic Society*, **2012**, 95, 3716-3718	3.8	9
19	Colors of graphene and graphene-oxide multilayers on various substrates. *Nanotechnology*, **2012**, 23, 025708	3.4	39
18	Ferroelectric PbTiO3 Nanodots Shattered Using Atomic Force Microscopy. *Journal of the American Ceramic Society*, **2012**, 95, 480-482	3.8	3
17	Dynamically tunable hemispherical electronic eye camera system with adjustable zoom capability. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1788-93	11.5	194
16	GaAs photovoltaics and optoelectronics using releasable multilayer epitaxial assemblies. *Nature*, **2010**, 465, 329-33	50.4	427
15	Experimental and modeling studies of imaging with curvilinear electronic eye cameras. *Optics Express*, **2010**, 18, 27346-58	3.3	8
14	Paraboloid electronic eye cameras using deformable arrays of photodetectors in hexagonal mesh layouts. *Applied Physics Letters*, **2010**, 96, 021110	3.4	47
13	Micromechanics and advanced designs for curved photodetector arrays in hemispherical electronic-eye cameras. *Small*, **2010**, 6, 851-6	11	84
12	Mechanics of hemispherical electronics. *Applied Physics Letters*, **2009**, 95, 181912	3.4	18
11	FABRICATION AND MEASUREMENT OF SUSPENDED SILICON CARBIDE NANOWIRE DEVICES AND DEFLECTION. *Nano*, **2009**, 04, 351-358	1.1	2
10	Chemical analysis of graphene oxide films after heat and chemical treatments by X-ray photoelectron and Micro-Raman spectroscopy. *Carbon*, **2009**, 47, 145-152	10.4	2619

9	Colloidal suspensions of highly reduced graphene oxide in a wide variety of organic solvents. *Nano Letters*, **2009**, 9, 1593-7	11.5	1382
8	Large-area synthesis of high-quality and uniform graphene films on copper foils. *Science*, **2009**, 324, 1312-4	33.3	8900
7	Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. *Journal of Physical Chemistry C*, **2009**, 113, 18480-18486	3.8	173
6	Tunable electrical conductivity of individual graphene oxide sheets reduced at "low" temperatures. *Nano Letters*, **2008**, 8, 4283-7	11.5	745
5	Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. *Journal of Physical Chemistry C*, **2008**, 112, 20264-20268	3.8	293
4	Characterization of Thermally Reduced Graphene Oxide by Imaging Ellipsometry. *Journal of Physical Chemistry C*, **2008**, 112, 8499-8506	3.8	180
3	Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets. *Chemistry of Materials*, **2008**, 20, 6592-6594	9.6	838
2	Graphene-silica composite thin films as transparent conductors. *Nano Letters*, **2007**, 7, 1888-92	11.5	759
1	Simple Approach for High-Contrast Optical Imaging and Characterization of Graphene-Based Sheets. *Nano Letters*, **2007**, 7, 3569-3575	11.5	282