Won Mook Choi

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75	7,388 citations	33	77
papers		h-index	g-index
77 ext. papers	8,152 ext. citations	8.6 avg, IF	5.67 L-index

#	Paper	IF	Citations
75	Stretchable and foldable silicon integrated circuits. <i>Science</i> , 2008 , 320, 507-11	33.3	1280
74	A hemispherical electronic eye camera based on compressible silicon optoelectronics. <i>Nature</i> , 2008 , 454, 748-53	50.4	1004
73	Controlled buckling of semiconductor nanoribbons for stretchable electronics. <i>Nature Nanotechnology</i> , 2006 , 1, 201-7	28.7	719
72	Materials and noncoplanar mesh designs for integrated circuits with linear elastic responses to extreme mechanical deformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18675-80	11.5	541
71	Nanostructured graphene/FeDIncorporated polyaniline as a high performance shield against electromagnetic pollution. <i>Nanoscale</i> , 2013 , 5, 2411-20	7.7	442
70	Biaxially stretchable "wavy" silicon nanomembranes. <i>Nano Letters</i> , 2007 , 7, 1655-63	11.5	314
69	Fully rollable transparent nanogenerators based on graphene electrodes. <i>Advanced Materials</i> , 2010 , 22, 2187-92	24	258
68	Semiconductor wires and ribbons for high-performance flexible electronics. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5524-42	16.4	253
67	Control of electronic structure of graphene by various dopants and their effects on a nanogenerator. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15603-9	16.4	223
66	Synthesis of a highly conductive and large surface area graphene oxide hydrogel and its use in a supercapacitor. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 208-211	13	189
65	Synthesis of multilayer graphene balls by carbon segregation from nickel nanoparticles. <i>ACS Nano</i> , 2012 , 6, 6803-11	16.7	145
64	Synthesis of B-doped graphene quantum dots as a metal-free electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10537-10543	13	136
63	One-pot synthesis of N-doped graphene quantum dots as a fluorescent sensing platform for Fe3+ ions detection. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 568-573	8.5	136
62	Direct growth of semiconducting single-walled carbon nanotube array. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14642-3	16.4	134
61	Preparation and characterization of poly(hydroxybutyrate-co-hydroxyvalerate) Inganoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 525-529	2.9	125
60	Novel Graphene Hydrogel/B-Doped Graphene Quantum Dots Composites as Trifunctional Electrocatalysts for ZnAir Batteries and Overall Water Splitting. <i>Advanced Energy Materials</i> , 2019 , 9, 1900945	21.8	86
59	Transfer-free growth of few-layer graphene by self-assembled monolayers. <i>Advanced Materials</i> , 2011 , 23, 4392-7	24	75

(2011-2008)

58	Printable, Flexible, and Stretchable Forms of Ultrananocrystalline Diamond with Applications in Thermal Management. <i>Advanced Materials</i> , 2008 , 20, 2171-2176	24	71	
57	Highly-ordered maghemite/reduced graphene oxide nanocomposites for high-performance photoelectrochemical water splitting. <i>RSC Advances</i> , 2015 , 5, 29159-29166	3.7	68	
56	Facile synthesis of three-dimensional graphene/nickel oxide nanoparticles composites for high performance supercapacitor electrodes. <i>Chemical Engineering Journal</i> , 2015 , 264, 603-609	14.7	66	
55	Liquid-phase exfoliation of graphene in organic solvents with addition of naphthalene. <i>Journal of Colloid and Interface Science</i> , 2014 , 418, 37-42	9.3	60	
54	NiO nanoarrays of a few atoms thickness on 3D nickel network for enhanced pseudocapacitive electrode applications. <i>Journal of Power Sources</i> , 2016 , 303, 363-371	8.9	58	
53	Selective growth of ZnO nanorods on SiO2/Si substrates using a graphene buffer layer. <i>Nano Research</i> , 2011 , 4, 440-447	10	55	
52	A soft-imprint technique for direct fabrication of submicron scale patterns using a surface-modified PDMS mold. <i>Microelectronic Engineering</i> , 2003 , 70, 131-136	2.5	49	
51	Highly biocompatible phenylboronic acid-functionalized graphitic carbon nitride quantum dots for the selective glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 36-44	8.5	47	
50	A systematic study of triangular silver nanoplates: one-pot green synthesis, chemical stability, and sensing application. <i>Nanoscale</i> , 2017 , 9, 11705-11712	7.7	45	
49	Facile synthesis of cysteinefunctionalized graphene quantum dots for a fluorescence probe for mercury ions. <i>RSC Advances</i> , 2015 , 5, 97598-97603	3.7	43	
48	The fabrication of submicron patterns on curved substrates using a polydimethylsiloxane film mould. <i>Nanotechnology</i> , 2004 , 15, 1767-1770	3.4	42	
47	Thermal and mechanical properties of syndiotactic polystyrene/organoclay nanocomposites with different microstructures. <i>Journal of Polymer Science, Part B: Polymer Physics,</i> 2004 , 42, 1685-1693	2.6	40	
46	Synthesis and material properties of syndiotactic polystyrene/organophilic clay nanocomposites. Journal of Applied Polymer Science, 2004 , 92, 2144-2150	2.9	36	
45	High quality graphene-semiconducting oxide heterostructure for inverted organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13032		35	
44	Effects of organoclay modification on microstructure and properties of polypropylene®rganoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 1752-1759	2.9	35	
43	Pyromellitic acid-derived highly fluorescent N-doped carbon dots for the sensitive and selective determination of 4-nitrophenol. <i>Dyes and Pigments</i> , 2019 , 165, 327-334	4.6	34	
42	3D crumpled RGO-Co 3 O 4 photocatalysts for UV-induced hydrogen evolution reaction. <i>Materials Letters</i> , 2014 , 136, 118-121	3.3	32	
41	Thermal conversion of electronic and electrical properties of AuCl3-doped single-walled carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 1353-9	16.7	31	

40	Nanopillar InGaN/GaN light emitting diodes integrated with homogeneous multilayer graphene electrodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17688		30
39	Work-function engineering of carbon nanotube transparent conductive films. <i>Carbon</i> , 2010 , 48, 520-524	410.4	27
38	Miscibility and rheological properties of poly(vinyl chloride)/styreneEcrylonitrile blends prepared by melt extrusion. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 95-101	2.9	26
37	Graphene modified copper current collector for enhanced electrochemical performance of Li-ion battery. <i>Scripta Materialia</i> , 2018 , 146, 100-104	5.6	26
36	Facile synthesis of graphene/N-doped carbon nanowire composites as an effective electrocatalyst for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6827-6834	6.7	24
35	Ultraviolet light sensor based on graphene quantum dots/reduced graphene oxide hybrid film. <i>Sensors and Actuators A: Physical</i> , 2015 , 233, 368-373	3.9	22
34	Graphene quantum dots/Ni(OH)2 nanocomposites on carbon cloth as a binder-free electrode for supercapacitors. <i>Journal of Materials Science and Technology</i> , 2020 , 58, 73-79	9.1	22
33	One-pot synthesis of highly fluorescent amino-functionalized graphene quantum dots for effective detection of copper ions. <i>Current Applied Physics</i> , 2018 , 18, 1255-1260	2.6	21
32	A novel preparation method of maleic anhydride grafted syndiotactic polystyrene and its blend performance with nylon6. <i>Polymer Bulletin</i> , 2002 , 48, 397-405	2.4	19
31	Facile fabrication of thermally reduced graphene oxideplatinum nanohybrids and their application in catalytic reduction and dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 1535-1541	3.7	18
30	Thermal actuation properties of bimorph based on PVDF/rGO composites. <i>Composites Science and Technology</i> , 2016 , 122, 82-89	8.6	18
29	Influence of Cu crystallographic orientation on electron transport in graphene. <i>Applied Physics Letters</i> , 2013 , 102, 163102	3.4	18
28	Novel paper- and fiber optic-based fluorescent sensor for glucose detection using aniline-functionalized graphene quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129250	8.5	17
27	Cerium-Oxide-Nanoparticle-Decorated Zinc Oxide with Enhanced Photocatalytic Degradation of Methyl Orange. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1697	2.6	16
26	Carbon-coated silicon/crumpled graphene composite as anode material for lithium-ion batteries. <i>Current Applied Physics</i> , 2019 , 19, 1349-1354	2.6	16
25	Gold artichokes for enhanced photocatalysis. <i>Materials Letters</i> , 2015 , 160, 92-95	3.3	14
24	Interfacial electronic structures between fullerene and multilayer graphene for n-type organic semiconducting devices. <i>Carbon</i> , 2011 , 49, 4936-4939	10.4	13
23	Simple paper-based colorimetric and fluorescent glucose sensor using N-doped carbon dots and metal oxide hybrid structures. <i>Analytica Chimica Acta</i> , 2021 , 1147, 187-198	6.6	13

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22	Highly sensitive smartphone-integrated colorimetric glucose sensor based on MnFe2O4 Igraphitic carbon nitride hybrid nanostructure. <i>Materials Research Bulletin</i> , 2020 , 129, 110910	5.1	12
21	Effect of diblock copolymers on morphology and mechanical properties for syndiotactic polystyrene/ethylene-propylene copolymer blends. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 3618-	3626	12
20	Patterning polymer light-emitting diodes by micromolding in capillary. <i>Current Applied Physics</i> , 2006 , 6, 627-631	2.6	11
19	Improved photocatalytic activity of surface charge functionalized ZnO nanoparticles using aniline. <i>Journal of Materials Science and Technology</i> , 2021 , 76, 1-10	9.1	11
18	Fabrication of g-C3N4 Quantum Dots/MnCO3 Nanocomposite on Carbon Cloth for Flexible Supercapacitor Electrode. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7927	2.6	8
17	Polymer electrolyte membrane fuel cell performance degradation by coolant leakage and recovery. Journal of Power Sources, 2013 , 226, 320-328	8.9	8
16	Hierarchical hollow urchin-like structured MnO2 microsphere/carbon nanofiber composites as anode materials for Li-ion batteries. <i>Current Applied Physics</i> , 2019 , 19, 768-774	2.6	7
15	Growth of high quality ZnO nanowires on graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1551-4	1.3	7
14	Template-free synthesis of hierarchical NiO microtubes as high performance anode materials for Li-ion batteries. <i>Current Applied Physics</i> , 2019 , 19, 715-720	2.6	6
13	Compressed-carbon dioxide (CO2) assisted nanoimprint lithography using polymeric mold. <i>Microelectronic Engineering</i> , 2006 , 83, 1957-1960	2.5	6
12	A double coreShell modification of bulk TiO2 microspheres into porous N-doped-graphene carbon nanoflakes/N-doped TiO2 microspheres for lithium-ion battery anodes. <i>RSC Advances</i> , 2015 , 5, 38334-3	8 3 :44	5
11	Simple and rapid fabrication of large-area 2D colloidal crystals for nanopatterning of conducting polymers. <i>Microelectronic Engineering</i> , 2013 , 110, 1-5	2.5	5
10	Multicolor Emitting N-Doped Carbon Dots Derived from Ascorbic Acid and Phenylenediamine Precursors. <i>Nanoscale Research Letters</i> , 2020 , 15, 222	5	5
9	Solution-Processed Transparent Intermediate Layer for Organic Tandem Solar Cell Using Nitrogen-Doped Graphene Quantum Dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5686-	5 6 92	4
8	Soft-imprint technique for multilevel microstructures using poly(dimethylsiloxane) mold combined with a screen mask. <i>Applied Physics Letters</i> , 2004 , 85, 3310-3312	3.4	3
7	Designing an intriguingly fluorescent N, B-doped carbon dots based fluorescent probe for selective detection of NO ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 268, 120657	4.4	2
6	Construction and Mechanism Analysis of a Self-Assembled Conductive Network in DGEBA/PEI/HRGO Nanocomposites by Controlling Filler Selective Localization. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
5	Preparation and Characterization of Photoluminescent Graphene Quantum Dots from Watermelon Rind Waste for the Detection of Ferric Ions and Cellular Bio-Imaging Applications <i>Nanomaterials</i> , 2022 , 12,	5.4	2

4	Fabrication of sub-micrometer graphene ribbon using electrospun nanofiber. <i>Journal of Materials Science</i> , 2014 , 49, 1240-1245	4.3	1
3	Facile synthesis of g-CN quantum dots/graphene hydrogel nanocomposites for high-performance supercapacitor <i>RSC Advances</i> , 2022 , 12, 3561-3568	3.7	1
2	Enhanced Electromagnetic Interference Shielding Properties of Immiscible Polyblends with Selective Localization of Reduced Graphene Oxide Networks <i>Polymers</i> , 2022 , 14,	4.5	1
1	Ultrathin freestanding PDA-Doped rGO/MWCNT composite paper for electromagnetic interference shielding applications. <i>Chemical Engineering Journal</i> , 2022 , 430, 132808	14.7	O