Shanshan Chen

List of Publications by Citations

47 papers	6,139 citations	26 h-index	50 g-index
50 ext. papers	6,767 ext. citations	9.8 avg, IF	5.29 L-index

#	Paper	IF	Citations
47	Oxidation resistance of graphene-coated Cu and Cu/Ni alloy. *ACS Nano*, **2011**, 5, 1321-7	16.7	1007
46	Thermal transport in suspended and supported monolayer graphene grown by chemical vapor deposition. *Nano Letters*, **2010**, 10, 1645-51	11.5	940
45	Thermal conductivity of isotopically modified graphene. *Nature Materials*, **2012**, 11, 203-7	27	698
44	Raman measurements of thermal transport in suspended monolayer graphene of variable sizes in vacuum and gaseous environments. *ACS Nano*, **2011**, 5, 321-8	16.7	391
43	Ultrathin graphite foam: a three-dimensional conductive network for battery electrodes. *Nano Letters*, **2012**, 12, 2446-51	11.5	360
42	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. *Nature Communications*, **2012**, 3, 638	17.4	302
41	High Mobility MoS Transistor with Low Schottky Barrier Contact by Using Atomic Thick h-BN as a Tunneling Layer. *Advanced Materials*, **2016**, 28, 8302-8308	24	282
40	Synthesis and characterization of large-area graphene and graphite films on commercial Cu-Ni alloy foils. *Nano Letters*, **2011**, 11, 3519-25	11.5	270
39	Millimeter-size single-crystal graphene by suppressing evaporative loss of Cu during low pressure chemical vapor deposition. *Advanced Materials*, **2013**, 25, 2062-5	24	246
38	Growth of adlayer graphene on Cu studied by carbon isotope labeling. *Nano Letters*, **2013**, 13, 486-90	11.5	214
37	Growth mechanism and controlled synthesis of AB-stacked bilayer graphene on Cu-Ni alloy foils. *ACS Nano*, **2012**, 6, 7731-8	16.7	143
36	Large area CVD growth of graphene. *Synthetic Metals*, **2015**, 210, 95-108	3.6	140
35	Selective surface functionalization at regions of high local curvature in graphene. *Chemical Communications*, **2013**, 49, 677-9	5.8	116
34	A long-term corrosion barrier with an insulating boron nitride monolayer. *Journal of Materials Chemistry A*, **2016**, 4, 5044-5050	13	110
33	Thermal conductivity of twisted bilayer graphene. *Nanoscale*, **2014**, 6, 13402-8	7.7	99
32	Thermal conductivity measurements of suspended graphene with and without wrinkles by micro-Raman mapping. *Nanotechnology*, **2012**, 23, 365701	3.4	96
31	High quality graphene sheets from graphene oxide by hot-pressing. *Carbon*, **2013**, 54, 143-148	10.4	72

30	Graphene synthesis via magnetic inductive heating of copper substrates. *ACS Nano*, **2013**, 7, 7495-9	16.7	62
29	Controlling the electrical transport properties of graphene by in situ metal deposition. *Applied Physics Letters*, **2010**, 97, 053107	3.4	62
28	One-pot fabrication of FePt/reduced graphene oxide composites as highly active and stable electrocatalysts for the oxygen reduction reaction. *Carbon*, **2014**, 68, 755-762	10.4	52
27	Adsorption/desorption and electrically controlled flipping of ammonia molecules on graphene. *New Journal of Physics*, **2010**, 12, 125011	2.9	52
26	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for High-Performance 2D Field Effect Transistors. *Advanced Materials*, **2016**, 28, 2062-9	24	48
25	Substrate grain size and orientation of Cu and CuNi foils used for the growth of graphene films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2012**, 30, 011401	2.9	47
24	Direct delamination of graphene for high-performance plastic electronics. *Small*, **2014**, 10, 694-8	11	46
23	Crystal structure evolution of individual graphene islands during CVD growth on copper foil. *Advanced Materials*, **2013**, 25, 6744-51	24	45
22	AN IMPROVED METHOD FOR TRANSFERRING GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION. *Nano*, **2012**, 07, 1150001	1.1	34
21	Birch-Type Hydrogenation of Few-Layer Graphenes: Products and Mechanistic Implications. *Journal of the American Chemical Society*, **2016**, 138, 14980-14986	16.4	23
20	Controllable seeding of single crystal graphene islands from graphene oxide flakes. *Carbon*, **2014**, 79, 406-412	10.4	23
19	Passive Synchronization of 1.06- and 1.53- (mu) m Fiber Lasers Q-switched by a Common Graphene SA. *IEEE Photonics Technology Letters*, **2014**, 26, 1474-1477	2.2	20
18	Sodide and Organic Halides Effect Covalent Functionalization of Single-Layer and Bilayer Graphene. *Journal of the American Chemical Society*, **2017**, 139, 4202-4210	16.4	18
17	Acidic pH-Activated Gas-Generating Nanoparticles with Pullulan Decorating for Hepatoma-Targeted Ultrasound Imaging. *ACS Applied Materials & Interfaces*, **2019**, 11, 22194-22205	9.5	18
16	Characterization of graphene films grown on CuNi foil substrates. *Surface Science*, **2015**, 634, 16-24	1.8	15
15	Large-energy, wavelength-tunable, all-fiber passively Q-switched Er:Yb-codoped double-clad fiber laser with mono-layer chemical vapor deposition graphene. *Applied Optics*, **2014**, 53, 4089-93	1.7	15
14	Long-circulating zein-polysulfobetaine conjugate-based nanocarriers for enhancing the stability and pharmacokinetics of curcumin. *Materials Science and Engineering C*, **2020**, 109, 110636	8.3	13
13	Ni foam assisted synthesis of high quality hexagonal boron nitride with large domain size and controllable thickness. *2D Materials*, **2018**, 5, 025020	5.9	11

12	Tailoring the thermal transport properties of monolayer hexagonal boron nitride by grain size engineering. *2D Materials*, **2020**, 7, 015031	5.9	11
11	Nanoporous and Highly Thermal Conductive Thin Film of Single-Crystal Covalent Organic Frameworks Ribbons. *Journal of the American Chemical Society*, **2021**, 143, 3927-3933	16.4	8
10	Layer-by-layer synthesis of bilayer and multilayer graphene on Cu foil utilizing the catalytic activity of cobalt nano-powders. *Carbon*, **2019**, 146, 549-556	10.4	7
9	Twist-angle-dependent thermal conduction in single-crystalline bilayer graphene. *Applied Physics Letters*, **2021**, 118, 193104	3.4	5
8	Cationic nanoparticles self-assembled from amphiphilic chitosan derivatives containing poly(amidoamine) dendrons and deoxycholic acid as a vector for co-delivery of doxorubicin and gene. *Carbohydrate Polymers*, **2021**, 258, 117706	10.3	4
7	Performance evaluation of multi-junction solar cells by spatially resolved electroluminescence microscopy. *Nanoscale Research Letters*, **2015**, 10, 40	5	3
6	Electronic structures of InN/GaN quantum dots. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1226-8	1.3	3
5	Synthesis of sub-millimeter Bi-/multi-layer graphene by designing a sandwiched structure using copper foils. *Applied Physics Letters*, **2016**, 109, 123107	3.4	2
4	Structural properties of InN films grown in different conditions by metalorganic vapor phase epitaxy. *Journal of Materials Research*, **2011**, 26, 775-780	2.5	1
3	Toplayer-dependent crystallographic orientation imaging in the bilayer two-dimensional materials with transverse shear microscopy. *Frontiers of Physics*, **2021**, 16, 1	3.7	1
2	PMMA direct exfoliation for rapid and organic free transfer of centimeter-scale CVD graphene. *2D Materials*, **2022**, 9, 015036	5.9	1
1	Spin injection and detection in lateral spin valves with hybrid interfaces. *Applied Physics Express*, **2018**, 11, 063004	2.4	