Joshua D Wood

List of Publications by Year
in descending order

27 papers	7,509 citations	279798 23 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	11425 citing authors

#	Article	IF	Citations
1	Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. Science, 2015, 350, 1513-1516.	12.6	2,047
2	Effective Passivation of Exfoliated Black Phosphorus Transistors against Ambient Degradation. Nano Letters, 2014, 14, 6964-6970.	9.1	1,294
3	Covalent functionalization and passivation of exfoliated black phosphorus via aryl diazonium chemistry. Nature Chemistry, 2016, 8, 597-602.	13.6	687
4	Solvent Exfoliation of Electronic-Grade, Two-Dimensional Black Phosphorus. ACS Nano, 2015, 9, 3596-3604.	14.6	655
5	Effects of Polycrystalline Cu Substrate on Graphene Growth by Chemical Vapor Deposition. Nano Letters, 2011, 11, 4547-4554.	9.1	426
6	Influence of Stoichiometry on the Optical and Electrical Properties of Chemical Vapor Deposition Derived MoS₂. ACS Nano, 2014, 8, 10551-10558.	14.6	281
7	Chemically Tailoring Semiconducting Two-Dimensional Transition Metal Dichalcogenides and Black Phosphorus. ACS Nano, 2016, 10, 3900-3917.	14.6	232
8	Anisotropic Thermal Conductivity of Exfoliated Black Phosphorus. Advanced Materials, 2015, 27, 8017-8022.	21.0	221
9	In Situ Thermal Decomposition of Exfoliated Two-Dimensional Black Phosphorus. Journal of Physical Chemistry Letters, 2015, 6, 773-778.	4.6	209
10	Stable aqueous dispersions of optically and electronically active phosphorene. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11688-11693.	7.1	206
11	Solution-Based Processing of Monodisperse Two-Dimensional Nanomaterials. Accounts of Chemical Research, 2017, 50, 943-951.	15.6	172
12	Atomic-Scale Evidence for Potential Barriers and Strong Carrier Scattering at Graphene Grain Boundaries: A Scanning Tunneling Microscopy Study. ACS Nano, 2013, 7, 75-86.	14.6	132
13	Annealing free, clean graphene transfer using alternative polymer scaffolds. Nanotechnology, 2015, 26, 055302.	2.6	114
14	Scanning Tunneling Microscopy Study and Nanomanipulation of Graphene-Coated Water on Mica. Nano Letters, 2012, 12, 2665-2672.	9.1	102
15	In_xGa_{1â€“x}As Nanowire Growth on Graphene: van der Waals Epitaxy Induced Phase Segregation. Nano Letters, 2013, 13, 1153-1161.	9.1	101
16	Solution-Processed Dielectrics Based on Thickness-Sorted Two-Dimensional Hexagonal Boron Nitride Nanosheets. Nano Letters, 2015, 15, 7029-7036.	9.1	101
17	Monolithic IIIâ€“V Nanowire Solar Cells on Graphene via Direct van der Waals Epitaxy. Advanced Materials, 2014, 26, 3755-3760.	21.0	86
18	Role of Pressure in the Growth of Hexagonal Boron Nitride Thin Films from Ammonia-Borane. Chemistry of Materials, 2016, 28, 4169-4179.	6.7	85

#	Article	IF	Citations
19	3D Anisotropic Thermal Conductivity of Exfoliated Rhenium Disulfide. Advanced Materials, 2017, 29, 1700650.	21.0	76
20	Graphene-Based Platform for Infrared Near-Field Nanospectroscopy of Water and Biological Materials in an Aqueous Environment. ACS Nano, 2015, 9, 7968-7975.	14.6	75
21	Scanning Probe Nanopatterning and Layerâ€byâ€Layer Thinning of Black Phosphorus. Advanced Materials, 2017, 29, 1604121.	21.0	62
22	Effect of carbon nanotube network morphology on thin film transistor performance. Nano Research, 2012, 5, 307-319.	10.4	59
23	Layer-by-Layer Sorting of Rhenium Disulfide via High-Density Isopycnic Density Gradient Ultracentrifugation. Nano Letters, 2016, 16, 7216-7223.	9.1	54
24	Silicon-Phosphorene Nanocavity-Enhanced Optical Emission at Telecommunications Wavelengths. Nano Letters, 2018, 18, 6515-6520.	9.1	23
25	Mechanochemical conversion kinetics of red to black phosphorus and scaling parameters for high volume synthesis. Npj 2D Materials and Applications, 2020, 4, .	7.9	7
26	Improved graphene growth and fluorination on Cu with clean transfer to surfaces. , 2012, , .		2
27	Mechanochemistry of Phosphorus and Arsenic Alloys for Visible and Infrared Photonics. Advanced Photonics Research, 0, , 2200038.	3.6	0