

Joshua D Wood

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

7,509
citations

279701

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h-index

580701

25
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all docs

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docs citations

27
times ranked

11425
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemical conversion kinetics of red to black phosphorus and scaling parameters for high volume synthesis. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	7
2	Silicon-Phosphorene Nanocavity-Enhanced Optical Emission at Telecommunications Wavelengths. <i>Nano Letters</i> , 2018, 18, 6515-6520.	4.5	23
3	Solution-Based Processing of Monodisperse Two-Dimensional Nanomaterials. <i>Accounts of Chemical Research</i> , 2017, 50, 943-951.	7.6	172
4	3D Anisotropic Thermal Conductivity of Exfoliated Rhenium Disulfide. <i>Advanced Materials</i> , 2017, 29, 1700650.	11.1	76
5	Scanning Probe Nanopatterning and Layer-by-Layer Thinning of Black Phosphorus. <i>Advanced Materials</i> , 2017, 29, 1604121.	11.1	62
6	Stable aqueous dispersions of optically and electronically active phosphorene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11688-11693.	3.3	206
7	Covalent functionalization and passivation of exfoliated black phosphorus via aryl diazonium chemistry. <i>Nature Chemistry</i> , 2016, 8, 597-602.	6.6	687
8	Layer-by-Layer Sorting of Rhenium Disulfide via High-Density Isopycnic Density Gradient Ultracentrifugation. <i>Nano Letters</i> , 2016, 16, 7216-7223.	4.5	54
9	Role of Pressure in the Growth of Hexagonal Boron Nitride Thin Films from Ammonia-Borane. <i>Chemistry of Materials</i> , 2016, 28, 4169-4179.	3.2	85
10	Chemically Tailoring Semiconducting Two-Dimensional Transition Metal Dichalcogenides and Black Phosphorus. <i>ACS Nano</i> , 2016, 10, 3900-3917.	7.3	232
11	Anisotropic Thermal Conductivity of Exfoliated Black Phosphorus. <i>Advanced Materials</i> , 2015, 27, 8017-8022.	11.1	221
12	Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. <i>Science</i> , 2015, 350, 1513-1516.	6.0	2,047
13	In Situ Thermal Decomposition of Exfoliated Two-Dimensional Black Phosphorus. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 773-778.	2.1	209
14	Annealing free, clean graphene transfer using alternative polymer scaffolds. <i>Nanotechnology</i> , 2015, 26, 055302.	1.3	114
15	Graphene-Based Platform for Infrared Near-Field Nanospectroscopy of Water and Biological Materials in an Aqueous Environment. <i>ACS Nano</i> , 2015, 9, 7968-7975.	7.3	75
16	Solvent Exfoliation of Electronic-Grade, Two-Dimensional Black Phosphorus. <i>ACS Nano</i> , 2015, 9, 3596-3604.	7.3	655
17	Solution-Processed Dielectrics Based on Thickness-Sorted Two-Dimensional Hexagonal Boron Nitride Nanosheets. <i>Nano Letters</i> , 2015, 15, 7029-7036.	4.5	101
18	Effective Passivation of Exfoliated Black Phosphorus Transistors against Ambient Degradation. <i>Nano Letters</i> , 2014, 14, 6964-6970.	4.5	1,294

#	ARTICLE	IF	CITATIONS
19	Influence of Stoichiometry on the Optical and Electrical Properties of Chemical Vapor Deposition Derived MoS ₂ . ACS Nano, 2014, 8, 10551-10558.	7.3	281
20	Monolithic III-V Nanowire Solar Cells on Graphene via Direct van der Waals Epitaxy. Advanced Materials, 2014, 26, 3755-3760.	11.1	86
21	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.	7.3	132
22	In _x Ga _{1-x} As Nanowire Growth on Graphene: van der Waals Epitaxy Induced Phase Segregation. Nano Letters, 2013, 13, 1153-1161.	4.5	101
23	Improved graphene growth and fluorination on Cu with clean transfer to surfaces. , 2012, , .		2
24	Scanning Tunneling Microscopy Study and Nanomanipulation of Graphene-Coated Water on Mica. Nano Letters, 2012, 12, 2665-2672.	4.5	102
25	Effect of carbon nanotube network morphology on thin film transistor performance. Nano Research, 2012, 5, 307-319.	5.8	59
26	Effects of Polycrystalline Cu Substrate on Graphene Growth by Chemical Vapor Deposition. Nano Letters, 2011, 11, 4547-4554.	4.5	426
27	Mechanochemistry of Phosphorus and Arsenic Alloys for Visible and Infrared Photonics. Advanced Photonics Research, 0, , 2200038.	1.7	0