

# Akinola D Oyedele

## List of Publications by Year in descending order

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20  
papers

1,307  
citations

516710

16  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

2202  
citing authors

#	ARTICLE	IF	CITATIONS
1	PdSe <sub>2</sub> : Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. Journal of the American Chemical Society, 2017, 139, 14090-14097.	13.7	509
2	Tailoring Vacancies Far Beyond Intrinsic Levels Changes the Carrier Type and Optical Response in Monolayer MoSe <sub>2</sub> Crystals. Nano Letters, 2016, 16, 5213-5220.	9.1	121
3	High-performance multilayer WSe <sub>2</sub> field-effect transistors with carrier type control. Nano Research, 2018, 11, 722-730.	10.4	101
4	Defect-Mediated Phase Transformation in Anisotropic Two-Dimensional PdSe <sub>2</sub> Crystals for Seamless Electrical Contacts. Journal of the American Chemical Society, 2019, 141, 8928-8936.	13.7	81
5	Two-Dimensional Palladium Diselenide with Strong In-Plane Optical Anisotropy and High Mobility Grown by Chemical Vapor Deposition. Advanced Materials, 2020, 32, e1906238.	21.0	81
6	Anomalous interlayer vibrations in strongly coupled layered PdSe <sub>2</sub> . 2D Materials, 2018, 5, 035016.	4.4	60
7	High Conduction Hopping Behavior Induced in Transition Metal Dichalcogenides by Percolating Defect Networks: Toward Atomically Thin Circuits. Advanced Functional Materials, 2017, 27, 1702829.	14.9	52
8	Strain tolerance of two-dimensional crystal growth on curved surfaces. Science Advances, 2019, 5, eaav4028.	10.3	46
9	Exploiting the potential of 2-((5-(4-(diphenylamino)phenyl)thiophen-2-yl)methylene)malononitrile as an efficient donor molecule in vacuum-processed bulk-heterojunction organic solar cells. RSC Advances, 2014, 4, 5236.	3.6	42
10	High performance top-gated multilayer WSe <sub>2</sub> field effect transistors. Nanotechnology, 2017, 28, 475202.	2.6	33
11	Atmospheric and Long-term Aging Effects on the Electrical Properties of Variable Thickness WSe <sub>2</sub> Transistors. ACS Applied Materials & Interfaces, 2018, 10, 36540-36548.	8.0	31
12	Surfactant-Mediated Growth and Patterning of Atomically Thin Transition Metal Dichalcogenides. ACS Nano, 2020, 14, 6570-6581.	14.6	30
13	Anisotropic Phonon Response of Few-Layer PdSe <sub>2</sub> under Uniaxial Strain. Advanced Functional Materials, 2020, 30, 2003215.	14.9	26
14	Photocarrier Transfer across Monolayer MoS <sub>2</sub> –MoSe <sub>2</sub> Lateral Heterojunctions. ACS Nano, 2018, 12, 7086-7092.	14.6	25
15	The growth and assembly of organic molecules and inorganic 2D materials on graphene for van der Waals heterostructures. Carbon, 2018, 131, 246-257.	10.3	21
16	Atomically Precise PdSe <sub>2</sub> Pentagonal Nanoribbons. ACS Nano, 2020, 14, 1951-1957.	14.6	21
17	Ion Migration Studies in Exfoliated 2D Molybdenum Oxide via Ionic Liquid Gating for Neuromorphic Device Applications. ACS Applied Materials & Interfaces, 2018, 10, 22623-22631.	8.0	12
18	Hierarchical Model for the Analysis of Scattering Data of Complex Materials. Jom, 2016, 68, 1583-1588.	1.9	8

#	ARTICLE	IF	CITATIONS
19	Evaluation of nano- and mesoscale structural features in composite materials through hierarchical decomposition of the radial distribution function. <i>Journal of Applied Crystallography</i> , 2018, 51, 76-86.	4.5	5
20	2D Materials: Two-dimensional Palladium Diselenide with Strong In-plane Optical Anisotropy and High Mobility Grown by Chemical Vapor Deposition ( <i>Adv. Mater.</i> 19/2020). <i>Advanced Materials</i> , 2020, 32, 2070152.	21.0	2