

Matthew Z Bellus

List of Publications by Year in descending order

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papers

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citations

430874

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3741
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Charge Separation and Indirect Exciton Formation in a MoS ₂ –MoSe ₂ van der Waals Heterostructure. ACS Nano, 2014, 8, 12717-12724.	14.6	585
2	Ultrafast and spatially resolved studies of charge carriers in atomically thin molybdenum disulfide. Physical Review B, 2012, 86, .	3.2	215
3	Electron transfer and coupling in graphene–tungsten disulfide van der Waals heterostructures. Nature Communications, 2014, 5, 5622.	12.8	215
4	Type-I van der Waals heterostructure formed by MoS ₂ and ReS ₂ monolayers. Nanoscale Horizons, 2017, 2, 31-36.	8.0	179
5	Exceptional and Anisotropic Transport Properties of Photocarriers in Black Phosphorus. ACS Nano, 2015, 9, 6436-6442.	14.6	172
6	Exciton formation in monolayer transition metal dichalcogenides. Nanoscale, 2016, 8, 11681-11688.	5.6	149
7	Tightly Bound Trions in Transition Metal Dichalcogenide Heterostructures. ACS Nano, 2015, 9, 6459-6464.	14.6	103
8	Transient Absorption Measurements on Anisotropic Monolayer ReS ₂ . Small, 2015, 11, 5565-5571.	10.0	91
9	Probing charge transfer excitons in a MoSe ₂ –WS ₂ van der Waals heterostructure. Nanoscale, 2015, 7, 17523-17528.	5.6	89
10	Full-range electrical characteristics of WS ₂ transistors. Applied Physics Letters, 2015, 106, .	3.3	50
11	Ultrafast charge transfer between MoTe ₂ and MoS ₂ monolayers. 2D Materials, 2017, 4, 015033.	4.4	39
12	Time-Resolved Measurements of PhotocARRIER Dynamics in TiS ₃ Nanoribbons. ACS Applied Materials & Interfaces, 2016, 8, 18334-18338.	8.0	35
13	PhotocARRIER dynamics in monolayer phosphorene and bulk black phosphorus. Nanoscale, 2018, 10, 11307-11313.	5.6	29
14	PhotocARRIER Transfer across Monolayer MoS ₂ –MoSe ₂ Lateral Heterojunctions. ACS Nano, 2018, 12, 7086-7092.	14.6	25
15	A type-I van der Waals heterobilayer of WSe ₂ /MoTe ₂ . Nanotechnology, 2018, 29, 335203.	2.6	24
16	Efficient hole transfer from monolayer WS ₂ to ultrathin amorphous black phosphorus. Nanoscale Horizons, 2019, 4, 236-242.	8.0	23
17	Controlling exciton transport in monolayer MoSe ₂ by dielectric screening. Nanoscale Horizons, 2020, 5, 139-143.	8.0	19
18	Amorphous two-dimensional black phosphorus with exceptional photocARRIER transport properties. 2D Materials, 2017, 4, 025063.	4.4	18