

# Michael C Lucking

## List of Publications by Year in descending order

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16  
papers

865  
citations

840585

11  
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940416

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docs citations

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times ranked

1745  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. <i>2D Materials</i> , 2020, 7, 045020.	2.0	10
2	Single-atom doping of MoS <sub>2</sub> with manganese enables ultrasensitive detection of dopamine: Experimental and computational approach. <i>Science Advances</i> , 2020, 6, eabc4250.	4.7	136
3	Selective Synthesis of Bi <sub>2</sub> Te <sub>3</sub> /WS <sub>2</sub> Heterostructures with Strong Interlayer Coupling. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, , .	4.0	2
4	Universal <i>In Situ</i> Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. <i>ACS Nano</i> , 2020, 14, 4326-4335.	7.3	100
5	Strain dependence of second harmonic generation in transition metal dichalcogenide monolayers and the fine structure of the $\gamma$ exciton. <i>Physical Review B</i> , 2020, 101, .	1.1	18
6	Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. <i>Nanoscale</i> , 2019, 11, 18449-18463.	2.8	27
7	Excitonic Complexes and Emerging Interlayer Electron-Phonon Coupling in BN Encapsulated Monolayer Semiconductor Alloy: WS <sub>0.6</sub> Se <sub>1.4</sub> . <i>Nano Letters</i> , 2019, 19, 299-307.	4.5	20
8	Traditional Semiconductors in the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2018, 120, 086101.	2.9	52
9	Resonant Raman and Exciton Coupling in High-Quality Single Crystals of Atomically Thin Molybdenum Diselenide Grown by Vapor-Phase Chalcogenization. <i>ACS Nano</i> , 2018, 12, 740-750.	7.3	34
10	Large second harmonic generation in alloyed TMDs and boron nitride nanostructures. <i>Scientific Reports</i> , 2018, 8, 10118.	1.6	45
11	Doping-induced antiferromagnetic bicollinear insulating state and superconducting temperature of monolayer FeSe systems. <i>Physical Review B</i> , 2018, 98, .	1.1	2
12	Modular Approach for Metal-Semiconductor Heterostructures with Very Large Interface Lattice Misfit: A First-Principles Perspective. <i>Crystal Growth and Design</i> , 2016, 16, 2328-2334.	1.4	7
13	A nucleus-coupled electron transfer mechanism for TiO <sub>2</sub> -catalyzed water splitting. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16779-16783.	1.3	11
14	Multivalency-Induced Band Gap Opening at MoS <sub>2</sub> Edges. <i>Chemistry of Materials</i> , 2015, 27, 3326-3331.	3.2	50
15	Absolute redox potential of liquid water: a first-principles theory. <i>Chemical Science</i> , 2014, 5, 1216-1220.	3.7	9
16	Graphene Oxide as an Ideal Substrate for Hydrogen Storage. <i>ACS Nano</i> , 2009, 3, 2995-3000.	7.3	342