# Michael C Lucking

List of Publications by Year
in descending order



| 16 | 865 | 840119 11 | 940134 16 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 16 | 16 | 16 | 1745 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Graphene Oxide as an Ideal Substrate for Hydrogen Storage. ACS Nano, 2009, 3, 2995-3000. | 7.3 | 342 |
| 2 | Single-atom doping of MoS <sub>2</sub> with manganese enables ultrasensitive detection of dopamine: Experimental and computational approach. Science Advances, 2020, 6, eabc4250. | 4.7 | 136 |
| 3 | Universal In Situ Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. ACS Nano, 2020, 14, 4326-4335. | 7.3 | 100 |
| 4 | Traditional Semiconductors in the Two-Dimensional Limit. Physical Review Letters, 2018, 120, 086101. | 2.9 | 52 |
| 5 | Multivalency-Induced Band Gap Opening at MoS<sub>2</sub> Edges. Chemistry of Materials, 2015, 27, 3326-3331. | 3.2 | 50 |
| 6 | Large second harmonic generation in alloyed TMDs and boron nitride nanostructures. Scientific Reports, 2018, 8, 10118. | 1.6 | 45 |
| 7 | Resonant Raman and Exciton Coupling in High-Quality Single Crystals of Atomically Thin Molybdenum Diselenide Grown by Vapor-Phase Chalcogenization. ACS Nano, 2018, 12, 740-750. | 7.3 | 34 |
| 8 | Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. Nanoscale, 2019, 11, 18449-18463. | 2.8 | 27 |
| 9 | Excitonic Complexes and Emerging Interlayer Electronâ€“Phonon Coupling in BN Encapsulated Monolayer Semiconductor Alloy: WS0.6Se1.4. Nano Letters, 2019, 19, 299-307. | 4.5 | 20 |
| 10 | Strain dependence of second harmonic generation in transition metal dichalcogenide monolayers and the fine structure of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>C</mml:mi></mml:mrow></mml:math> exciton. Physical Review B, 2020, 101, . | 1.1 | 18 |
| 11 | A nucleus-coupled electron transfer mechanism for TiO<sub>2</sub>-catalyzed water splitting. Physical Chemistry Chemical Physics, 2015, 17, 16779-16783. | 1.3 | 11 |
| 12 | Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. 2D Materials, 2020, 7, 045020. | 2.0 | 10 |
| 13 | Absolute redox potential of liquid water: a first-principles theory. Chemical Science, 2014, 5, 1216-1220. | 3.7 | 9 |
| 14 | Modular Approach for Metalâ€“Semiconductor Heterostructures with Very Large Interface Lattice Misfit: A First-Principles Perspective. Crystal Growth and Design, 2016, 16, 2328-2334. | 1.4 | 7 |
| 15 | Doping-induced antiferromagnetic bicollinear insulating state and superconducting temperature of monolayer FeSe systems. Physical Review B, 2018, 98, . | 1.1 | 2 |
| 16 | Selective Synthesis of Bi<sub>2</sub>Te<sub>3</sub>/WS<sub>2</sub> Heterostructures with Strong Interlayer Coupling. ACS Applied Materials & Interfaces, 2020, , . | 4.0 | 2 |