

# Kartikey Thakar

## List of Publications by Year in descending order

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14  
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#	ARTICLE	IF	CITATIONS
1	Near-Direct Bandgap WSe <sub>2</sub> /ReS <sub>2</sub> Type-II pn Heterojunction for Enhanced Ultrafast Photodetection and High-Performance Photovoltaics. Nano Letters, 2020, 20, 1707-1717.	4.5	162
2	Reversible hysteresis inversion in MoS <sub>2</sub> field effect transistors. Npj 2D Materials and Applications, 2017, 1, .	3.9	112
3	Multilayer ReS <sub>2</sub> Photodetectors with Gate Tunability for High Responsivity and High-Speed Applications. ACS Applied Materials & Interfaces, 2018, 10, 36512-36522.	4.0	86
4	Optoelectronic and photonic devices based on transition metal dichalcogenides. Materials Research Express, 2020, 7, 014002.	0.8	64
5	Enhanced responsivity and detectivity of fast WSe <sub>2</sub> phototransistor using electrostatically tunable in-plane lateral p-n homojunction. Nature Communications, 2021, 12, 3336.	5.8	63
6	Enhanced <i>n</i> -type $\Gamma^2$ -Ga <sub>2</sub> O <sub>3</sub> (2 $\bar{1}$ 01) gate stack performance using Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> bi-layer dielectric. Applied Physics Letters, 2019, 114, .	1.5	26
7	Performance Projections for Two-dimensional Materials in Radio-Frequency Applications. Physical Review Applied, 2018, 10, .	1.5	11
8	Implementation and analysis of template matching for image registration on DevKit-8500D. Optik, 2017, 130, 935-944.	1.4	10
9	Multi-Bit Analog Transmission Enabled by Electrostatically Reconfigurable Ambipolar and Anti-Ambipolar Transport. ACS Nano, 2021, 15, 19692-19701.	7.3	10
10	Selective Oxidation of WS <sub>2</sub> Defect Domain with Sub $\mu$ m Monolayer Thickness Leads to Multifold Enhancement in Photoluminescence. Advanced Materials Interfaces, 2019, 6, 1900962.	1.9	6
11	Polymorphic In-Plane Heterostructures of Monolayer WS <sub>2</sub> for Light-Triggered Field-Effect Transistors. ACS Applied Nano Materials, 2020, 3, 3750-3759.	2.4	5
12	WSe <sub>2</sub> /ReS <sub>2</sub> vdW Heterostructure for Versatile Optoelectronic Applications. , 2018, , .		4
13	Suspended ReS <sub>2</sub> FET for improved photocurrent-time response. , 2017, , .		3
14	Thin EOT MoS <sub>2</sub> FET for Efficient Photodetection and Gas Sensing. , 2018, , .		1