

# Jakub Jadwiszczak

## List of Publications by Year in descending order

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14  
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1040056

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docs citations

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705  
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS <sub>2</sub> Memtransistors Fabricated by Localized Helium Ion Beam Irradiation. ACS Nano, 2019, 13, 14262-14273.	14.6	99
2	Oxide-mediated recovery of field-effect mobility in plasma-treated MoS <sub>2</sub> . Science Advances, 2018, 4, eaao5031.	10.3	82
3	Defect sizing, separation, and substrate effects in ion-irradiated monolayer two-dimensional materials. Physical Review B, 2018, 98, .	3.2	46
4	Programmable graphene doping via electron beam irradiation. Nanoscale, 2017, 9, 8657-8664.	5.6	20
5	Photoresponsivity enhancement in monolayer MoS <sub>2</sub> by rapid O <sub>2</sub> :Ar plasma treatment. Applied Physics Letters, 2019, 114, .	3.3	16
6	Mixed-Dimensional 1D/2D van der Waals Heterojunction Diodes and Transistors in the Atomic Limit. ACS Nano, 2022, 16, 1639-1648.	14.6	15
7	Precise milling of nano-gap chains in graphene with a focused helium ion beam. Nanotechnology, 2016, 27, 325302.	2.6	13
8	Defect-moderated oxidative etching of MoS <sub>2</sub> . Journal of Applied Physics, 2019, 126, .	2.5	12
9	Controllable Thermal Oxidation and Photoluminescence Enhancement in Quasi-1D van der Waals ZrS <sub>3</sub> Flakes. ACS Applied Electronic Materials, 2020, 2, 3756-3764.	4.3	12
10	Plasma Treatment of Ultrathin Layered Semiconductors for Electronic Device Applications. ACS Applied Electronic Materials, 2021, 3, 1505-1529.	4.3	12
11	On the Temperature Dependence of the Piezoelectric Response of Prepoled Poly(vinylidene fluoride) Films. ACS Applied Polymer Materials, 2020, 2, 5110-5120.	4.4	7
12	Effect of localized helium ion irradiation on the performance of synthetic monolayer MoS <sub>2</sub> field-effect transistors. Beilstein Journal of Nanotechnology, 2020, 11, 1329-1335.	2.8	6
13	Suppression of the shear Raman mode in defective bilayer MoS <sub>2</sub> . Journal of Applied Physics, 2019, 125, .	2.5	5
14	Low-temperature electrical conduction of plasma-treated bilayer MoS <sub>2</sub> . MRS Communications, 2018, 8, 514-520.	1.8	3