Dmitry K Polyushkin

List of Publications by Year
in descending order

22 papers	2,591 citations	623188 14 h-index	713013 21 g-index
22 all docs	22 docs citations	22 times ranked	4597 citing authors

#	Article	IF	Citations
1	Sparse pixel image sensor. Scientific Reports, 2022, 12, 5650.	1.6	3
2	1/f Noise Characterization of Bilayer MoS₂ Fieldâ€Effect Transistors on Paper with Inkjetâ€Printed Contacts and hBN Dielectrics. Advanced Electronic Materials, 2021, 7, 2100283.	2.6	4
3	A SPICE Compact Model for Ambipolar 2-D-Material FETs Aiming at Circuit Design. IEEE Transactions on Electron Devices, 2021, 68, 3096-3103.	1.6	9
4	Inkjet-printed low-dimensional materials-based complementary electronic circuits on paper. Npj 2D Materials and Applications, 2021, 5, .	3.9	16
5	Low-voltage 2D materials-based printed field-effect transistors for integrated digital and analog electronics on paper. Nature Communications, 2020, 11, 3566.	5.8	120
6	Analogue two-dimensional semiconductor electronics. Nature Electronics, 2020, 3, 486-491.	13.1	74
7	Ultrafast machine vision with 2D material neural network image sensors. Nature, 2020, 579, 62-66.	13.7	546
8	Resonant photocurrent from a single quantum emitter in tungsten diselenide. 2D Materials, 2020, 7, 045021.	2.0	4
9	Ultrathin calcium fluoride insulators for two-dimensional field-effect transistors. Nature Electronics, 2019, 2, 230-235.	13.1	156
10	Reliability of scalable MoS₂ FETs with 2â€‰nm crystalline CaF₂ insulators. 2D Materials, 2019, 6, 045004.	2.0	29
11	Device physics of van der Waals heterojunction solar cells. Npj 2D Materials and Applications, 2018, 2, .	3.9	100
12	Optical imaging of strain in two-dimensional crystals. Nature Communications, 2018, 9, 516.	5.8	144
13	A microprocessor based on a two-dimensional semiconductor. Nature Communications, 2017, 8, 14948.	5.8	299
14	Energetic mapping of oxide traps in MoS ₂ field-effect transistors. 2D Materials, 2017, 4, 025108.	2.0	49
15	(Invited) Impact of Gate Dielectrics on the Threshold Voltage in MoS₂Transistors. ECS Transactions, 2017, 80, 203-217.	0.3	5
16	Growth, structure and stability of sputter-deposited MoS₂ thin films. Beilstein Journal of Nanotechnology, 2017, 8, 1115-1126.	1.5	44
17	Controlling the generation of THz radiation from metallic films using periodic microstructure. Applied Physics B: Lasers and Optics, 2015, 120, 53-59.	1.1	9
18	Nanophotonics with two-dimensional atomic crystals. , 2014, , .		1

#	Article	IF	Citations
19	Mechanisms of Photoconductivity in Atomically Thin MoS₂. Nano Letters, 2014, 14, 6165-6170.	4.5	563
20	Graphene as a substrate for plasmonic nanoparticles. Journal of Optics (United Kingdom), 2013, 15, 114001.	1.0	14
21	Novel Highly Conductive and Transparent Grapheneâ€Based Conductors. Advanced Materials, 2012, 24, 2844-2849.	11.1	289
22	THz Generation from Plasmonic Nanoparticle Arrays. Nano Letters, 2011, 11, 4718-4724.	4.5	113