

Sujay B Desai

List of Publications by Year in descending order

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17
papers

4,155
citations

687363

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940533

16
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all docs

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docs citations

17
times ranked

7445
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright electroluminescence in ambient conditions from WSe ₂ p-n diodes using pulsed injection. Applied Physics Letters, 2019, 115, 011103.	3.3	13
2	Gate Quantum Capacitance Effects in Nanoscale Transistors. Nano Letters, 2019, 19, 7130-7137.	9.1	6
3	Spatially Precise Transfer of Patterned Monolayer WS ₂ and MoS ₂ with Features Larger than 10 ⁴ μm^2 Directly from Multilayer Sources. ACS Applied Electronic Materials, 2019, 1, 407-416.	4.3	23
4	Highly Sensitive Bulk Silicon Chemical Sensors with Sub-5 nm Thin Charge Inversion Layers. ACS Nano, 2018, 12, 2948-2954.	14.6	41
5	Large-area and bright pulsed electroluminescence in monolayer semiconductors. Nature Communications, 2018, 9, 1229.	12.8	146
6	Ultrafast Spontaneous Emission from a Slot-Antenna Coupled WSe ₂ Monolayer. ACS Photonics, 2018, 5, 2701-2705.	6.6	17
7	High-gain monolithic 3D CMOS inverter using layered semiconductors. Applied Physics Letters, 2017, 111, .	3.3	8
8	Gold-Mediated Exfoliation of Ultralarge Optoelectronically-Perfect Monolayers. Advanced Materials, 2016, 28, 4053-4058.	21.0	307
9	MoS ₂ transistors with 1-nanometer gate lengths. Science, 2016, 354, 99-102.	12.6	1,140
10	Monolithic 3D CMOS Using Layered Semiconductors. Advanced Materials, 2016, 28, 2547-2554.	21.0	107
11	Direct growth of single-crystalline III-V semiconductors on amorphous substrates. Nature Communications, 2016, 7, 10502.	12.8	45
12	2D layered materials: From materials properties to device applications. , 2015, , .		9
13	MoS ₂ Heterojunctions by Thickness Modulation. Scientific Reports, 2015, 5, 10990.	3.3	93
14	Air stable <i>n</i> -doping of WSe ₂ by silicon nitride thin films with tunable fixed charge density. APL Materials, 2014, 2, .	5.1	76
15	Strong interlayer coupling in van der Waals heterostructures built from single-layer chalcogenides. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6198-6202.	7.1	970
16	Field-Effect Transistors Built from All Two-Dimensional Material Components. ACS Nano, 2014, 8, 6259-6264.	14.6	582
17	Strain-Induced Indirect to Direct Bandgap Transition in Multilayer WSe ₂ . Nano Letters, 2014, 14, 4592-4597.	9.1	572