

Vidya Kochat

List of Publications by Citations

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23
papers

1,037
citations

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h-index

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g-index

25
ext. papers

1,271
ext. citations

13.2
avg, IF

3.83
L-index

#	Paper	IF	Citations
23	Exfoliation of a non-van der Waals material from iron ore hematite. <i>Nature Nanotechnology</i> , 2018 , 13, 602-609	28.7	179
22	Re Doping in 2D Transition Metal Dichalcogenides as a New Route to Tailor Structural Phases and Induced Magnetism. <i>Advanced Materials</i> , 2017 , 29, 1703754	24	130
21	Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap. <i>Advanced Materials</i> , 2017 , 29, 1702457	24	124
20	Atomically thin gallium layers from solid-melt exfoliation. <i>Science Advances</i> , 2018 , 4, e1701373	14.3	109
19	Fluorinated h-BN as a magnetic semiconductor. <i>Science Advances</i> , 2017 , 3, e1700842	14.3	87
18	Microscopic mechanism of 1/f noise in graphene: role of energy band dispersion. <i>ACS Nano</i> , 2011 , 5, 2075-2081	14.1	83
17	High contrast imaging and thickness determination of graphene with in-column secondary electron microscopy. <i>Journal of Applied Physics</i> , 2011 , 110, 014315	2.5	39
16	Metal Immiscibility Route to Synthesis of Ultrathin Carbides, Borides, and Nitrides. <i>Advanced Materials</i> , 2017 , 29, 1700364	24	38
15	Structural Phase Transformation in Strained Monolayer MoWSe Alloy. <i>ACS Nano</i> , 2018 , 12, 3468-3476	16.7	38
14	Direct observation of valley hybridization and universal symmetry of graphene with mesoscopic conductance fluctuations. <i>Physical Review Letters</i> , 2012 , 109, 196601	7.4	37
13	Ultrafast non-radiative dynamics of atomically thin MoSe. <i>Nature Communications</i> , 2017 , 8, 1745	17.4	35
12	Magnitude and Origin of Electrical Noise at Individual Grain Boundaries in Graphene. <i>Nano Letters</i> , 2016 , 16, 562-7	11.5	28
11	Effect of Carrier Localization on Electrical Transport and Noise at Individual Grain Boundaries in Monolayer MoS. <i>Nano Letters</i> , 2017 , 17, 5452-5457	11.5	27
10	Insights on Defect-Mediated Heterogeneous Nucleation of Graphene on Copper. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2513-2522	3.8	23
9	Phase Segregation Behavior of Two-Dimensional Transition Metal Dichalcogenide Binary Alloys Induced by Dissimilar Substitution. <i>Chemistry of Materials</i> , 2017 , 29, 7431-7439	9.6	22
8	Optical Control of Non-Equilibrium Phonon Dynamics. <i>Nano Letters</i> , 2019 , 19, 4981-4989	11.5	18
7	Fermi-edge transmission resonance in graphene driven by a single Coulomb impurity. <i>Physical Review Letters</i> , 2014 , 113, 026601	7.4	7

6	Origin of 1/f noise in graphene produced for large-scale applications in electronics. <i>IET Circuits, Devices and Systems</i> , 2015 , 9, 52-58	1.1	6
5	Review of strategies toward the development of alloy two-dimensional (2D) transition metal dichalcogenides.. <i>IScience</i> , 2021 , 24, 103532	6.1	3
4	Anomalous Number Fluctuation Noise in Localized Transition Metal Dichalcogenide Layers: Generalization of McWhorter's Mechanism. <i>MRS Advances</i> , 2018 , 3, 299-305	0.7	1
3	2D Materials: Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap (Adv. Mater. 35/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
2	Physics of Electrical Noise in Graphene 2012 , 159-195		1
1	Spontaneous Time-Reversal Symmetry Breaking at Individual Grain Boundaries in Graphene. <i>Physical Review Letters</i> , 2021 , 126, 206803	7.4	1