

Vin Dhanak

List of Publications by Year in descending order

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42
papers

1,240
citations

430874

18
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377865

34
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44
all docs

44
docs citations

44
times ranked

2290
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and transport properties of Li-doped NiO epitaxial thin films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2275-2282.	5.5	122
2	AgBi ₄ as a Lead-Free Solar Absorber with Potential Application in Photovoltaics. <i>Chemistry of Materials</i> , 2017, 29, 1538-1549.	6.7	102
3	Isotype Heterojunction Solar Cells Using n-Type Sb ₂ Se ₃ Thin Films. <i>Chemistry of Materials</i> , 2020, 32, 2621-2630.	6.7	83
4	High yield synthesis of amine functionalized graphene oxide and its surface properties. <i>RSC Advances</i> , 2016, 6, 67916-67924.	3.6	69
5	Core Levels, Band Alignments, and Valence-Band States in CuSbS ₂ for Solar Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41916-41926.	8.0	67
6	Transition from electron accumulation to depletion at $\hat{1}^2$ -Ga ₂ O ₃ surfaces: The role of hydrogen and the charge neutrality level. <i>APL Materials</i> , 2019, 7, .	5.1	62
7	Stabilization of O ²⁻ O Bonds by d ⁰ Cations in Li ₄ NiWO ₆ (0.25) Rock Salt Oxides as the Origin of Large Voltage Hysteresis. <i>Journal of the American Chemical Society</i> , 2019, 141, 7333-7346.	3.7	61
8	Direct Measurements of Fermi Level Pinning at the Surface of Intrinsically n-Type InGaAs Nanowires. <i>Nano Letters</i> , 2016, 16, 5135-5142.	9.1	60
9	The role of nitrogen doping in ALD Ta ₂ O ₅ and its influence on multilevel cell switching in RRAM. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	54
10	Ge interface engineering using ultra-thin La ₂ O ₃ and Y ₂ O ₃ films: A study into the effect of deposition temperature. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	47
11	Optical, electrical, and electrochemical properties of graphene based water soluble polyaniline composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	47
12	Analysis of a novel CuCl ₂ back contact process for improved stability in CdTe solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 706-715.	8.1	40
13	Natural Band Alignments and Band Offsets of Sb ₂ Se ₃ Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 11617-11626.	5.1	40
14	Band Alignments, Band Gap, Core Levels, and Valence Band States in Cu ₃ BiS ₃ for Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27033-27047.	8.0	37
15	Observation of a surface alloying-to-dealloying transition during growth of Bi on Ag(111). <i>Physical Review B</i> , 2011, 83, .	3.2	33
16	Modulations of valence-band photoemission spectrum from C ₆₀ monolayers on Ag(111). <i>Physical Review B</i> , 2003, 67, .	3.2	31
17	Enhanced switching stability in Ta ₂ O ₅ resistive RAM by fluorine doping. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	21
18	Effect of Aluminum Doping on Performance of HfO ₂ -Based Flexible Resistive Memory Devices. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 4222-4227.	3.0	20

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19	Colloidal particle foams: Templates for Au nanowire networks?. Applied Physics Letters, 2002, 81, 5039-5041.	3.3	19
20	Sb 5s ² lone pairs and band alignment of Sb ₂ Se ₃ : a photoemission and density functional theory study. Journal of Materials Chemistry C, 2020, 8, 12615-12622.	5.5	19
21	Atomic layer deposition of Nb-doped ZnO for thin film transistors. Applied Physics Letters, 2016, 109, .	3.3	18
22	Controlled modification of resonant tunneling in metal-insulator-insulator-metal structures. Applied Physics Letters, 2018, 112, .	3.3	18
23	Band alignments at Ga2O3 heterojunction interfaces with Si and Ge. AIP Advances, 2018, 8, .	1.3	16
24	Impact of AlO _x Interfacial Layer on Resistive Switching Performance of Flexible HfO ₂ /AlO _x ReRAMs. IEEE Transactions on Electron Devices, 2021, 68, 3787-3793.	3.0	16
25	Ge 4s ² lone pairs and band alignments in GeS and GeSe for photovoltaics. Journal of Materials Chemistry A, 2021, 9, 22440-22452.	10.3	15
26	Chemical Control of the Dimensionality of the Octahedral Network of Solar Absorbers from the Cu ₂ AgBi ₃ Phase Space by Synthesis of 3D CuAgBi ₅ . Inorganic Chemistry, 2021, 60, 18154-18167.	4.0	15
27	Electrical Properties and Interfacial Studies of HfxTi1-xO2 High Permittivity Gate Insulators Deposited on Germanium Substrates. Materials, 2015, 8, 8169-8182.	2.9	14
28	Density Functional Theory and Experimental Determination of Band Gaps and Lattice Parameters in Kesterite Cu ₂ ZnSn(S _x Se _{1-x}) ₄ . Journal of Physical Chemistry Letters, 2020, 11, 10463-10468.	4.6	13
29	Set compliance current induced resistive memory characteristics of W/Hf/HfO _x /TiN devices. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, .	1.2	12
30	Orientation and constraints of endohedral lanthanum in La@C82 molecules adsorbed on Cu(111). Physical Review B, 2003, 68, .	3.2	11
31	On the nature of the interfacial layer in ultra-thin TiN/LaLuO ₃ gate stacks. Journal of Applied Physics, 2012, 112, 044102.	2.5	10
32	Chemical Functionalization of Nanodiamond by Amino Groups: An X-Ray Photoelectron Spectroscopy Study. Journal of Nanoscience and Nanotechnology, 2012, 12, 3084-3090.	0.9	9
33	Schottky Diodes on ZnO Thin Films Grown by Plasma-Enhanced Atomic Layer Deposition. IEEE Transactions on Electron Devices, 2017, 64, 1225-1230.	3.0	8
34	Improved resistive switching performance of graphene oxide-based flexible ReRAM with HfO _x buffer layer. Journal of Materials Science: Materials in Electronics, 2021, 32, 2936-2945.	2.2	8
35	Physical and electrical characterization of Mg-doped ZnO thin-film transistors. , 2015, , .		7
36	Direct Silicon Heterostructures With Methylammonium Lead Iodide Perovskite for Photovoltaic Applications. IEEE Journal of Photovoltaics, 2020, 10, 945-951.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Sodium Fluoride Doping Approach to CdTe Solar Cells. ACS Applied Energy Materials, 2022, 5, 3888-3897.	5.1	4
38	Dibromobianthryl ordering and polymerization on Ag(100). Journal of Chemical Physics, 2017, 146, .	3.0	2
39	Long-Life and pH-Stable SnO ₂ -Coated Au Nanoparticles for SHINERS. Journal of Physical Chemistry C, 0, , .	3.1	2
40	Electron beam evaporation of superconductor-ferromagnet heterostructures. Scientific Reports, 2022, 12, 7786.	3.3	1
41	Band alignment of Ta ₂ O ₅ on sulphur passivated Germanium by X-ray photoelectron spectroscopy. , 2015, , .		0
42	Crystal to Quasicrystal Surface Phase Transition: An Unlocking Mechanism for Templated Growth. Journal of Physical Chemistry C, 2016, 120, 5477-5485.	3.1	0