

Vin Dhanak

List of Publications by Year in descending order

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42
papers

1,240
citations

430874

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34
g-index

44
all docs

44
docs citations

44
times ranked

2290
citing authors

#	ARTICLE	IF	CITATIONS
1	Sodium Fluoride Doping Approach to CdTe Solar Cells. ACS Applied Energy Materials, 2022, 5, 3888-3897.	5.1	4
2	Electron beam evaporation of superconductor-ferromagnet heterostructures. Scientific Reports, 2022, 12, 7786.	3.3	1
3	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
4	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
5	Impact of AlO _x Interfacial Layer on Resistive Switching Performance of Flexible HfO _x /AlO _x ReRAMs. IEEE Transactions on Electron Devices, 2021, 68, 3787-3793.	3.0	16
6	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
7	Effect of Aluminum Doping on Performance of HfO _x -Based Flexible Resistive Memory Devices. IEEE Transactions on Electron Devices, 2020, 67, 4222-4227.	3.0	20
8	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
9	Natural Band Alignments and Band Offsets of Sb ₂ Se ₃ Solar Cells. ACS Applied Energy Materials, 2020, 3, 11617-11626.	5.1	40
10	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
11	Isotype Heterojunction Solar Cells Using n-Type Sb ₂ Se ₃ Thin Films. Chemistry of Materials, 2020, 32, 2621-2630.	6.7	83
12	Direct Silicon Heterostructures With Methylammonium Lead Iodide Perovskite for Photovoltaic Applications. IEEE Journal of Photovoltaics, 2020, 10, 945-951.	2.5	5
13	Band Alignments, Band Gap, Core Levels, and Valence Band States in Cu ₃ BiS ₃ for Photovoltaics. ACS Applied Materials & Interfaces, 2019, 11, 27033-27047.	8.0	37
14	Analysis of a novel CuCl ₂ back contact process for improved stability in CdTe solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 706-715.	8.1	40
15	Stabilization of O ²⁻ Bonds by d ⁰ Cations in Li ₄ NiWO ₆ (0.25) Rock Salt Oxide as the Origin of Large Voltage Hysteresis. Journal of the American Chemical Society, 2019, 141, 7333-7346.	13.7	61
16	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
17	Transition from electron accumulation to depletion at $\hat{1}^2$ -Ga ₂ O ₃ surfaces: The role of hydrogen and the charge neutrality level. APL Materials, 2019, 7, .	5.1	62
18	Electronic and transport properties of Li-doped NiO epitaxial thin films. Journal of Materials Chemistry C, 2018, 6, 2275-2282.	5.5	122

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19	Controlled modification of resonant tunneling in metal-insulator-insulator-metal structures. Applied Physics Letters, 2018, 112, .	3.3	18
20	Band alignments at Ga ₂ O ₃ heterojunction interfaces with Si and Ge. AIP Advances, 2018, 8, .	1.3	16
21	AgBi ₄ as a Lead-Free Solar Absorber with Potential Application in Photovoltaics. Chemistry of Materials, 2017, 29, 1538-1549.	6.7	102
22	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
23	The role of nitrogen doping in ALD Ta ₂ O ₅ and its influence on multilevel cell switching in RRAM. Applied Physics Letters, 2017, 110, .	3.3	54
24	Enhanced switching stability in Ta ₂ O ₅ resistive RAM by fluorine doping. Applied Physics Letters, 2017, 111, .	3.3	21
25	Core Levels, Band Alignments, and Valence-Band States in CuSbS ₂ for Solar Cell Applications. ACS Applied Materials & Interfaces, 2017, 9, 41916-41926.	8.0	67
26	Dibromobianthryl ordering and polymerization on Ag(100). Journal of Chemical Physics, 2017, 146, .	3.0	2
27	Atomic layer deposition of Nb-doped ZnO for thin film transistors. Applied Physics Letters, 2016, 109, .	3.3	18
28	Direct Measurements of Fermi Level Pinning at the Surface of Intrinsically n-Type InGaAs Nanowires. Nano Letters, 2016, 16, 5135-5142.	9.1	60
29	High yield synthesis of amine functionalized graphene oxide and its surface properties. RSC Advances, 2016, 6, 67916-67924.	3.6	69
30	Crystal to Quasicrystal Surface Phase Transition: An Unlocking Mechanism for Templated Growth. Journal of Physical Chemistry C, 2016, 120, 5477-5485.	3.1	0
31	Optical, electrical, and electrochemical properties of graphene based water soluble polyaniline composites. Journal of Applied Polymer Science, 2015, 132, .	2.6	47
32	Electrical Properties and Interfacial Studies of Hf _x Ti _{1-x} O ₂ High Permittivity Gate Insulators Deposited on Germanium Substrates. Materials, 2015, 8, 8169-8182.	2.9	14
33	Physical and electrical characterization of Mg-doped ZnO thin-film transistors. , 2015, , .		7
34	Band alignment of Ta ₂ O ₅ on sulphur passivated Germanium by X-ray photoelectron spectroscopy. , 2015, , .		0
35	Ge interface engineering using ultra-thin La ₂ O ₃ and Y ₂ O ₃ films: A study into the effect of deposition temperature. Journal of Applied Physics, 2014, 115, .	2.5	47
36	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

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37	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
38	Observation of a surface alloying-to-dealloying transition during growth of Bi on Ag(111). Physical Review B, 2011, 83, .	3.2	33
39	Modulations of valence-band photoemission spectrum from C ₆₀ monolayers on Ag(111). Physical Review B, 2003, 67, .	3.2	31
40	Orientation and constraints of endohedral lanthanum in La@C ₈₂ molecules adsorbed on Cu(111). Physical Review B, 2003, 68, .	3.2	11
41	Colloidal particle foams: Templates for Au nanowire networks?. Applied Physics Letters, 2002, 81, 5039-5041.	3.3	19
42	Long-Life and pH-Stable SnO ₂ -Coated Au Nanoparticles for SHINERS. Journal of Physical Chemistry C, 0, , .	3.1	2