

Ranveer Singh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6458076/publications.pdf>

Version: 2024-02-01

57
papers

640
citations

643344

15
h-index

759306

22
g-index

57
all docs

57
docs citations

57
times ranked

761
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale visualization of hot carrier generation and transfer at non-noble metal and oxide interface. <i>Journal of Materials Science and Technology</i> , 2022, 98, 151-159.	5.6	4
2	Highly transparent conducting Two-Dimensional electron gas channel in ultrathin heterostructures for flexible optoelectronic device applications. <i>Applied Surface Science</i> , 2022, 580, 152266.	3.1	3
3	Substrate roughness and crystal orientation-controlled growth of ultra-thin BN films deposited on Cu foils. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	4
4	Highly transparent solid-state artificial synapse based on oxide memristor. <i>Applied Surface Science</i> , 2021, 536, 147738.	3.1	24
5	Morphology-dependent optical and wetting behavior of GLAD PTFE thin films. <i>Journal of Coatings Technology Research</i> , 2021, 18, 173-182.	1.2	2
6	Improved photovoltaic performance of CdTe-based solar cells: Roles of using a hole-blocking layer and nanoscale imaging of barrier height at interfaces. <i>Solar Energy</i> , 2021, 215, 1-11.	2.9	8
7	Confined interfacial alloying of multilayered Pd-Ni nanocatalyst for widening hydrogen detection capacity. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129378.	4.0	6
8	Controlled creation and annihilation of isolated robust emergent magnetic monopole like charged vertices in square artificial spin ice. <i>Scientific Reports</i> , 2021, 11, 13593.	1.6	2
9	Substrate-morphology driven tunable nanoscale artificial synapse. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 1137-1146.	1.0	2
10	A multifunctional TiN/Ni electrode for wearable supercapacitor and sensor with an insight into charge storage mechanism. <i>Applied Surface Science</i> , 2021, 555, 149718.	3.1	20
11	Femtojoule Power Consuming Synaptic Memtransistor Based on Mott Transition of Multiphasic Vanadium Oxides. <i>Advanced Functional Materials</i> , 2021, 31, 2102567.	7.8	18
12	Ion Beam-Mediated Defect Engineering in TiO _x Thin Films for Controlled Resistive Switching Property and Application. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3804-3814.	2.0	12
13	Femto-second and nanoscale hot carrier dynamics in ZnO/Al ₂ O ₃ /Ag-NWs/FTO heterojunction. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159657.	2.8	4
14	Electric Field Induced Area Scalability toward the Multilevel Resistive Switching. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100664.	1.9	8
15	Surface hydrogenation of vanadium dioxide nanobeam to manipulate insulator-to-metal transition using hydrogen plasma. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 1310-1319.	1.0	4
16	Nitrogen-doped carbon dot anchored 1-D WO ₃ for enhanced solar water splitting: A nano surface imaging evidence of charge separation and accumulation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32546-32558.	3.8	13
17	Enhanced solar water splitting of an ideally doped and work function tuned {002} oriented one-dimensional WO ₃ with nanoscale surface charge mapping insights. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120269.	10.8	43
18	Carrier selective MoO _x /Si heterojunctions: Role of thickness. <i>Applied Surface Science</i> , 2021, 564, 150316.	3.1	4

#	ARTICLE	IF	CITATIONS
19	Enhanced photocatalytic properties of band structure engineered Pd/TiO ₂ via sequential doping. <i>Applied Surface Science</i> , 2021, 570, 151255.	3.1	9
20	Femtojoule Power Consuming Synaptic Memtransistor Based on Mott Transition of Multiphasic Vanadium Oxides (<i>Adv. Funct. Mater.</i> 46/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170338.	7.8	0
21	Multifunctional Nanohybrid of Alumina and Indium Oxide Prepared Using the Atomic Layer Deposition Technique. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59115-59125.	4.0	2
22	Growth angle-dependent tunable work function and optoelectronic properties of MoO _x thin films. <i>Applied Surface Science</i> , 2020, 507, 144958.	3.1	28
23	Growth angle-dependent evolution of morphology and magnetic properties of Co films on highly ordered self-organized Ge substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166198.	1.0	3
24	Cold cathode electron emission with ultralow turn-on fields from Au-nanoparticle-decorated self-organized Si nanofacets. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16880-16895.	2.7	6
25	Tuning field-emission characteristics of ZnO nanorods through defect engineering via O ⁺ ion irradiation. <i>Journal of Applied Physics</i> , 2020, 128, 054304.	1.1	4
26	Direct evidence of band-bending at grain boundaries of ZnO:SnO ₂ films: Local probe microscopic studies. <i>Solar Energy</i> , 2020, 208, 275-281.	2.9	15
27	Electrically probing differently oriented 1-D nanostructures via C-AFM. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
28	Brain-like spatiotemporal information processing with nanosized second-order synaptic emulators; "solid-state memory visualizer". <i>Nano Energy</i> , 2020, 76, 105014.	8.2	12
29	Photoresponse of pulsed laser deposited ZnO:Cu thin films. <i>Solar Energy</i> , 2020, 207, 228-234.	2.9	9
30	Tuning the structural, optical, local work function and field emission properties of molybdenum oxide thin films with oxygen partial pressures. <i>Journal of Applied Physics</i> , 2020, 127, 025301.	1.1	1
31	An artificial piezotronic synapse for tactile perception. <i>Nano Energy</i> , 2020, 73, 104756.	8.2	36
32	Accessing low-energy magnetic microstates in square artificial spin ice vertices of broken symmetry in static magnetic field. <i>Physical Review B</i> , 2020, 102, .	1.1	7
33	Influence of grain size on local work function and optoelectronic properties of n-ZTO/p-Si heterostructures. <i>Applied Surface Science</i> , 2019, 493, 577-586.	3.1	17
34	Local surface conductivity mapping of single-layer graphene subject to low energy argon bombardment: Energy loss mechanism and defect induction efficiency. <i>Materials Letters</i> , 2019, 256, 126638.	1.3	1
35	Tunable optoelectronic properties of radio frequency sputter-deposited Sb ₂ Se ₃ thin films: Role of growth angle and thickness. <i>Solar Energy</i> , 2019, 194, 716-723.	2.9	4
36	Growth of Wafer-Scale ReS ₂ with "Tunable" Geometry toward Electron Field-Emission Application. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35845-35852.	4.0	13

#	ARTICLE	IF	CITATIONS
37	Thermal annealing induced strong photoluminescence enhancement in Ag-TiO ₂ plasmonic nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2019, 786, 750-757.	2.8	20
38	Optical, Photocatalytic and Wetting Behavior of GLAD N ₂ -TiO ₂ Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900021.	0.8	3
39	Experimental and simulation studies on temporal evolution of chemically etched Si surface: Tunable light trapping and cold cathode electron emission properties. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	4
40	Effect of Fe ion implantation on the thermoelectric properties and electronic structures of CoSb ₃ thin films. <i>RSC Advances</i> , 2019, 9, 36113-36122.	1.7	17
41	Optical band gap, local work function and field emission properties of MBE grown $\hat{\text{I}}^2$ -MoO ₃ nanoribbons. <i>Applied Surface Science</i> , 2019, 476, 691-700.	3.1	28
42	Microscopy and spectroscopy study of nanostructural phase transformation from $\hat{\text{I}}^2$ -MoO ₃ to Mo under UHV " MBE conditions. <i>Surface Science</i> , 2019, 682, 64-74.	0.8	9
43	Ocular Permeation and Sustained Anti-inflammatory Activity of Dexamethasone from Kaolin Nanodispersion Hydrogel System. <i>Current Eye Research</i> , 2018, 43, 828-838.	0.7	20
44	A Fast and Facile Fabrication of PTFE Based Superhydrophobic and Ultra Wideband Angle Insensitive Anti-Reflection Coatings. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800041.	1.2	5
45	Enhanced ultraviolet photo-response in Dy doped ZnO thin film. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	26
46	Strong uniaxial magnetic anisotropy in Co films on highly ordered grating-like nanopatterned Ge surfaces. <i>Nanotechnology</i> , 2018, 29, 125302.	1.3	15
47	Intrinsic inhomogeneous barrier height at the n-TiO ₂ /p-Si hole-blocking junction. <i>Applied Surface Science</i> , 2018, 428, 1006-1009.	3.1	20
48	A Fast and Facile Fabrication of PTFE Based Superhydrophobic and Ultra Wideband Angle Insensitive Anti-Reflection Coatings (Phys. Status Solidi RRL 6/2018). <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1870320.	1.2	0
49	White light-driven photo response of TiO ₂ thin films: Influence of substrate texturing. <i>Solar Energy</i> , 2018, 174, 231-239.	2.9	19
50	Broadband antireflection property of conformally grown zinc tin oxide thin films on nanorippled- and nanofaceted-Si substrates. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 275305.	1.3	7
51	Growth of TiO ₂ thin films on chemically textured Si for solar cell applications as a hole-blocking and antireflection layer. <i>Applied Surface Science</i> , 2017, 418, 225-231.	3.1	44
52	Synthesis of p-n junctions in ZnO nanorods by O ⁺ ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 409, 143-146.	0.6	6
53	Temperature dependent optical characterization of Ni-TiO ₂ thin films as potential photocatalytic material. <i>AIP Advances</i> , 2017, 7, 095115.	0.6	6
54	Ag nanoparticle decorated molybdenum oxide structures: growth, characterization, DFT studies and their application to enhanced field emission. <i>Nanotechnology</i> , 2017, 28, 415602.	1.3	14

#	ARTICLE	IF	CITATIONS
55	Tunable optoelectronic properties of pulsed dc sputter-deposited ZnO:Al thin films: Role of growth angle. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	16
56	Gold-decorated highly ordered self-organized grating-like nanostructures on Ge surface: Kelvin probe force microscopy and conductive atomic force microscopy studies. <i>Nanotechnology</i> , 2016, 27, 435302.	1.3	11
57	Self-Powered and High-Performance Alternating Current Photodetectors to enhance Broadband Photodetection. <i>Advanced Electronic Materials</i> , 0, , 2200392.	2.6	2