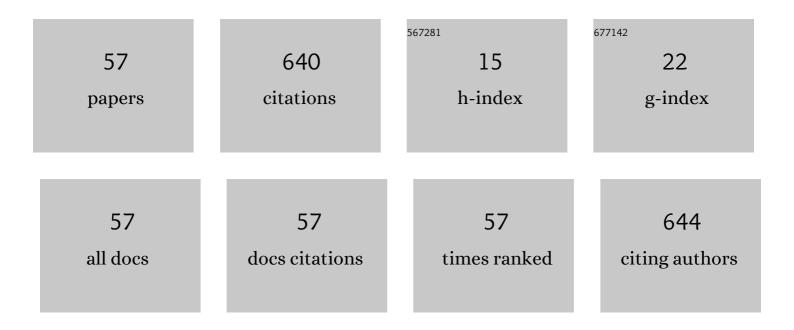
Ranveer Singh

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nanoscale visualization of hot carrier generation and transfer at non-noble metal and oxide interface. Journal of Materials Science and Technology, 2022, 98, 151-159.	10.7	4
2	Highly transparent conducting Two-Dimensional electron gas channel in ultrathin heterostructures for flexible optoelectronic device applications. Applied Surface Science, 2022, 580, 152266.	6.1	3
3	Substrate roughness and crystal orientation-controlled growth of ultra-thin BN films deposited on Cu foils. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	4
4	Highly transparent solid-state artificial synapse based on oxide memristor. Applied Surface Science, 2021, 536, 147738.	6.1	24
5	Morphology-dependent optical and wetting behavior of GLAD PTFE thin films. Journal of Coatings Technology Research, 2021, 18, 173-182.	2.5	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. Solar Energy, 2021, 215, 1-11.	6.1	8
7	Confined interfacial alloying of multilayered Pd-Ni nanocatalyst for widening hydrogen detection capacity. Sensors and Actuators B: Chemical, 2021, 330, 129378.	7.8	6
8	Controlled creation and annihilation of isolated robust emergent magnetic monopole like charged vertices in square artificial spin ice. Scientific Reports, 2021, 11, 13593.	3.3	2
9	Substrate-morphology driven tunable nanoscale artificial synapse. Journal of Asian Ceramic Societies, 2021, 9, 1137-1146.	2.3	2
10	A multifunctional TiN/Ni electrode for wearable supercapacitor and sensor with an insight into charge storage mechanism. Applied Surface Science, 2021, 555, 149718.	6.1	20
11	Femtojouleâ€Powerâ€Consuming Synaptic Memtransistor Based on Mott Transition of Multiphasic Vanadium Oxides. Advanced Functional Materials, 2021, 31, 2102567.	14.9	18
12	Ion Beam-Mediated Defect Engineering in TiO _{<i>x</i>} Thin Films for Controlled Resistive Switching Property and Application. ACS Applied Electronic Materials, 2021, 3, 3804-3814.	4.3	12
13	Femto-second and nanoscale hot carrier dynamics in ZnO/Al2O3/Ag-NWs/FTO heterojunction. Journal of Alloys and Compounds, 2021, 872, 159657.	5.5	4
14	Electric Fieldâ€Induced Area Scalability toward the Multilevel Resistive Switching. Advanced Materials Interfaces, 2021, 8, 2100664.	3.7	8
15	Surface hydrogeneration of vanadium dioxide nanobeam to manipulate insulator-to-metal transition using hydrogen plasma. Journal of Asian Ceramic Societies, 2021, 9, 1310-1319.	2.3	4
16	Nitrogen-doped carbon dot anchored 1-D WO3 for enhanced solar water splitting: A nano surface imaging evidence of charge separation and accumulation. International Journal of Hydrogen Energy, 2021, 46, 32546-32558.	7.1	13
17	Enhanced solar water splitting of an ideally doped and work function tuned {002} oriented one-dimensional WO3 with nanoscale surface charge mapping insights. Applied Catalysis B: Environmental, 2021, 295, 120269.	20.2	43
18	Carrier selective MoOx/Si heterojunctions: Role of thickness. Applied Surface Science, 2021, 564, 150316.	6.1	4

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19	Enhanced photocatalytic properties of band structure engineered Pd/TiO2 via sequential doping. Applied Surface Science, 2021, 570, 151255.	6.1	9
20	Femtojouleâ€Power onsuming Synaptic Memtransistor Based on Mott Transition of Multiphasic Vanadium Oxides (Adv. Funct. Mater. 46/2021). Advanced Functional Materials, 2021, 31, 2170338.	14.9	0
21	Multifunctional Nanohybrid of Alumina and Indium Oxide Prepared Using the Atomic Layer Deposition Technique. ACS Applied Materials & amp; Interfaces, 2021, 13, 59115-59125.	8.0	2
22	Growth angle-dependent tunable work function and optoelectronic properties of MoOx thin films. Applied Surface Science, 2020, 507, 144958.	6.1	28
23	Growth angle-dependent evolution of morphology and magnetic properties of Co films on highly ordered self-organized Ge substrates. Journal of Magnetism and Magnetic Materials, 2020, 498, 166198.	2.3	3
24	Cold cathode electron emission with ultralow turn-on fields from Au-nanoparticle-decorated self-organized Si nanofacets. Journal of Materials Chemistry C, 2020, 8, 16880-16895.	5.5	6
25	Tuning field-emission characteristics of ZnO nanorods through defect engineering via O+ ion irradiation. Journal of Applied Physics, 2020, 128, 054304.	2.5	4
26	Direct evidence of band-bending at grain boundaries of ZnO:SnO2 films: Local probe microscopic studies. Solar Energy, 2020, 208, 275-281.	6.1	15
27	Electrically probing differently oriented 1-D nanostructures via C-AFM. AIP Conference Proceedings, 2020, , .	0.4	0
28	Brain-like spatiotemporal information processing with nanosized second-order synaptic emulators; "solid-state memory visualizer― Nano Energy, 2020, 76, 105014.	16.0	12
29	Photoresponse of pulsed laser deposited ZnO:Cu thin films. Solar Energy, 2020, 207, 228-234.	6.1	9
30	Tuning the structural, optical, local work function and field emission properties of molybdenum oxide thin films with oxygen partial pressures. Journal of Applied Physics, 2020, 127, 025301.	2.5	1
31	An artificial piezotronic synapse for tactile perception. Nano Energy, 2020, 73, 104756.	16.0	36
32	Accessing low-energy magnetic microstates in square artificial spin ice vertices of broken symmetry in static magnetic field. Physical Review B, 2020, 102, .	3.2	7
33	Influence of grain size on local work function and optoelectronic properties of n-ZTO/p-Si heterostructures. Applied Surface Science, 2019, 493, 577-586.	6.1	17
34	Local surface conductivity mapping of single-layer graphene subject to low energy argon bombardment: Energy loss mechanism and defect induction efficiency. Materials Letters, 2019, 256, 126638.	2.6	1
35	Tunable optoelectronic properties of radio frequency sputter-deposited Sb2Se3 thin films: Role of growth angle and thickness. Solar Energy, 2019, 194, 716-723.	6.1	4
36	Growth of Wafer-Scale ReS ₂ with "Tunable―Geometry toward Electron Field-Emission Application. ACS Applied Materials & Interfaces, 2019, 11, 35845-35852.	8.0	13

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37	Thermal annealing induced strong photoluminescence enhancement in Ag-TiO2 plasmonic nanocomposite thin films. Journal of Alloys and Compounds, 2019, 786, 750-757.	5.5	20
38	Optical, Photocatalytic and Wetting Behavior of GLAD N 2 â€TiO 2 Films. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900021.	1.8	3
39	Experimental and simulation studies on temporal evolution of chemically etched Si surface: Tunable light trapping and cold cathode electron emission properties. Journal of Applied Physics, 2019, 125, .	2.5	4
40	Effect of Fe ion implantation on the thermoelectric properties and electronic structures of CoSb ₃ thin films. RSC Advances, 2019, 9, 36113-36122.	3.6	17
41	Optical band gap, local work function and field emission properties of MBE grown β-MoO3 nanoribbons. Applied Surface Science, 2019, 476, 691-700.	6.1	28
42	Microscopy and spectroscopy study of nanostructural phase transformation from β-MoO3 to Mo under UHV – MBE conditions. Surface Science, 2019, 682, 64-74.	1.9	9
43	Ocular Permeation and Sustained Anti-inflammatory Activity of Dexamethasone from Kaolin Nanodispersion Hydrogel System. Current Eye Research, 2018, 43, 828-838.	1.5	20
44	A Fast and Facile Fabrication of PTFE Based Superhydrophobic and Ultra Wideband Angle Insensitive Antiâ€Reflection Coatings. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800041.	2.4	5
45	Enhanced ultraviolet photo-response in Dy doped ZnO thin film. Journal of Applied Physics, 2018, 123, .	2.5	26
46	Strong uniaxial magnetic anisotropy in Co films on highly ordered grating-like nanopatterned Ge surfaces. Nanotechnology, 2018, 29, 125302.	2.6	15
47	Intrinsic inhomogeneous barrier height at the n-TiO2/p-Si hole-blocking junction. Applied Surface Science, 2018, 428, 1006-1009.	6.1	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). Physica Status Solidi - Rapid Research Letters, 2018, 12, 1870320.	2.4	0
49	White light-driven photo response of TiO2 thin films: Influence of substrate texturing. Solar Energy, 2018, 174, 231-239.	6.1	19
50	Broadband antireflection property of conformally grown zinc tin oxide thin films on nanorippled- and nanofaceted-Si substrates. Journal Physics D: Applied Physics, 2018, 51, 275305.	2.8	7
51	Growth of TiO2 thin films on chemically textured Si for solar cell applications as a hole-blocking and antireflection layer. Applied Surface Science, 2017, 418, 225-231.	6.1	44
52	Synthesis of p–n junctions in ZnO nanorods by O+ ion implantation. Nuclear Instruments & Methods in Physics Research B, 2017, 409, 143-146.	1.4	6
53	Temperature dependent optical characterization of Ni-TiO2 thin films as potential photocatalytic material. AIP Advances, 2017, 7, 095115.	1.3	6
54	Ag nanoparticle decorated molybdenum oxide structures: growth, characterization, DFT studies and their application to enhanced field emission. Nanotechnology, 2017, 28, 415602.	2.6	14

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55	Tunable optoelectronic properties of pulsed dc sputter-deposited ZnO:Al thin films: Role of growth angle. Journal of Applied Physics, 2016, 120, .	2.5	16
56	Gold-decorated highly ordered self-organized grating-like nanostructures on Ge surface: Kelvin probe force microscopy and conductive atomic force microscopy studies. Nanotechnology, 2016, 27, 435302.	2.6	11
57	Selfâ€Powered and Highâ€Performance Alternating Current Photodetectors to enhance Broadband Photodetection. Advanced Electronic Materials, 0, , 2200392.	5.1	2