Saif A Khan

List of Publications by Year
in descending order

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34	827	471509 17	477307 29
papers	citations	h-index	g-index

34	34	34	1009
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanostructured TiO2 thin films prepared by RF magnetron sputtering for photocatalytic applications. Applied Surface Science, 2017, 422, 953-961.	6.1	123
2	Facile synthesis of Au-ZnO plasmonic nanohybrids for highly efficient photocatalytic degradation of methylene blue. Optical Materials, 2017, 64, 47-52.	3.6	77
3	A study on 170 MeV Au13+ irradiation induced modifications in structural and photoelectrochemical behavior of nanostructured CuO thin films. Nuclear Instruments & Methods in Physics Research B, 2004, 225, 291-296.	1.4	76
4	Thermal evolution of morphological, structural, optical and photocatalytic properties of CuO thin films. Nano Structures Nano Objects, 2019, 17, 92-102.	3.5	58
5	Gradient doping â€“ a case study with Ti-Fe₂O₃ towards an improved photoelectrochemical response. Physical Chemistry Chemical Physics, 2016, 18, 32735-32743.	2.8	40
6	Radiation stability of graphene under extreme conditions. Applied Physics Letters, 2014, 105, .	3.3	39
7	RF magnetron sputtered Ag-Cu2O-CuO nanocomposite thin films with highly enhanced photocatalytic and catalytic performance. Applied Surface Science, 2020, 517, 146169.	6.1	38
8	Enhanced photoelectrochemical response of plasmonic Au embedded BiVO₄/Fe₂O₃ heterojunction. Physical Chemistry Chemical Physics, 2017, 19, 15039-15049.	2.8	34
9	Modified structural and photoelectrochemical properties of 170 MeV Au13+ irradiated hematite. Thin Solid Films, 2005, 492, 332-336.	1.8	30
10	A study on the formation of Ag nanoparticles on the surface and catcher by ion beam irradiation of Ag thin films. Journal Physics D: Applied Physics, 2012, 45, 445304.	2.8	30
11	Study of electronic sputtering of CaF2 thin films. Applied Surface Science, 2014, 289, 77-80.	6.1	25
12	Nano-hetero-structured thin films, ZnO/Ag-(Î±)Fe2O3, with n/n junction, as efficient photoanode for renewable hydrogen generation via photoelectrochemical water splitting. Renewable Energy, 2021, 164, 156-170.	8.9	25
13	Engineering of morphological, optical, structural, photocatalytic and catalytic properties of nanostructured CuO thin films fabricated by reactive DC magnetron sputtering. Ceramics International, 2020, 46, 7499-7509.	4.8	23
14	Large electronic sputtering yield of nanodimensional Au thin films: Dominant role of thermal conductivity and electron phonon coupling factor. Journal of Applied Physics, 2017, 121, .	2.5	22
15	Thickness dependent optical, structural, morphological, photocatalytic and catalytic properties of radio frequency magnetron sputtered nanostructured Cu2Oâ€“CuO thin films. Ceramics International, 2020, 46, 14902-14912.	4.8	20
16	Ion beam induced dissolution and precipitation of in situ formed Si-nanostructures in a-SiNx:H matrix. Nuclear Instruments & Methods in Physics Research B, 2012, 276, 51-55.	1.4	18
17	Nanochannel conduction in piezoelectric polymeric membrane using swift heavy ions and nanoclay. RSC Advances, 2013, 3, 6147.	3.6	18
18	Swift heavy-ions induced sputtering in BaF2 thin films. Nuclear Instruments & Methods in Physics Research B, 2013, 314, 21-25.	1.4	15

#	Article	IF	Citations
19	Fabrication of a low-cost functionalized poly(vinylidene fluoride) nanohybrid membrane for superior fuel cells. Sustainable Energy and Fuels, 2019, 3, 1269-1282.	4.9	13
20	Fabrication of Conducting Nanochannels Using Accelerator for Fuel Cell Membrane and Removal of Radionuclides: Role of Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 17628-17640.	8.0	13
21	Morphological influence of electrode/electrolyte interface towards augmenting the efficiency of photoelectrochemical water splitting â€“ A case study on ZnO. Journal of Power Sources, 2019, 432, 38-47.	7.8	11
22	Dynamic scaling of swift heavy ion induced surface restructuring of BaF2 thin film. Materials Letters, 2015, 143, 309-311.	2.6	10
23	Photoelectrochemical water splitting with 600ÂkeVÂN2+ ion irradiated BiVO4 and BiVO4/Au photoanodes. International Journal of Hydrogen Energy, 2019, 44, 13061-13070.	7.1	10
24	Expanded light-absorption and efficient charge-separation: bilayered thin film nano-hetero-structures, CuO/Cuâ€“ZnO, make efficient photoanode in photoelectrochemical water splitting. Journal of Applied Electrochemistry, 2020, 50, 887-906.	2.9	10
25	Synthesis of an embedded metal nanoparticle planar assembly by low-energy ion irradiation of a thin discontinuous metal film sandwiched in silica. Journal Physics D: Applied Physics, 2012, 45, 375304.	2.8	9
26	Sputtering yield of amorphous 13C thin films under swift heavy-ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2013, 314, 34-38.	1.4	9
27	Atomistic simulations of Au-silica nanocomposite film growth. Journal of Applied Physics, 2011, 109, 094312.	2.5	7
28	Surface erosion of BaF2 thin films under SHI irradiation: Angular distribution and role of different substrates. Applied Surface Science, 2021, 551, 149343.	6.1	7
29	A study on the consequence of swift heavy ion irradiation of Znâ€“silica nanocomposite thin films: electronic sputtering. Beilstein Journal of Nanotechnology, 2014, 5, 1691-1698.	2.8	6
30	Lithium-Irradiated Poly(vinylidene fluoride) Nanohybrid Membrane for Radionuclide Waste Management and Tracing. ACS Applied Polymer Materials, 2021, 3, 2005-2017.	4.4	5
31	Interface modification of Fe/Cr/Al magnetic multilayer by swift heavy ion irradiation. Surfaces and Interfaces, 2021, 26, 101431.	3.0	3
32	Energetic ion-induced modification of embedded Au nanoparticles size: a three-dimensional kinetic lattice Monte Carlo study. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	2
33	Stoichiometry dependent changes in the optical properties and nanoscale track formation of PECVD grown a-SiNx:H thin films upon 100â€¯MeV Au8+ ion irradiation. Current Applied Physics, 2021, 24, 1-6.	2.4	1
34	Thermal evolution of morphological, optical, and photocatalytic properties of Auâ€“Cu2Oâ€“CuO nanocomposite thin film. Journal of Materials Science: Materials in Electronics, 2021, 32, 24058-24068.	2.2	0