

Saif A Khan

List of Publications by Year in descending order

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34
papers

827
citations

471509

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477307

29
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34
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docs citations

34
times ranked

1009
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-hetero-structured thin films, ZnO/Ag-(\pm)Fe ₂ O ₃ , with n/n junction, as efficient photoanode for renewable hydrogen generation via photoelectrochemical water splitting. <i>Renewable Energy</i> , 2021, 164, 156-170.	8.9	25
2	Lithium-Irradiated Poly(vinylidene fluoride) Nanohybrid Membrane for Radionuclide Waste Management and Tracing. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2005-2017.	4.4	5
3	Stoichiometry dependent changes in the optical properties and nanoscale track formation of PECVD grown a-SiN _x :H thin films upon 100 eV MeV Au ⁸⁺ ion irradiation. <i>Current Applied Physics</i> , 2021, 24, 1-6.	2.4	1
4	Surface erosion of BaF ₂ thin films under SHI irradiation: Angular distribution and role of different substrates. <i>Applied Surface Science</i> , 2021, 551, 149343.	6.1	7
5	Thermal evolution of morphological, optical, and photocatalytic properties of Au@Cu ₂ O@CuO nanocomposite thin film. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24058-24068.	2.2	0
6	Interface modification of Fe/Cr/Al magnetic multilayer by swift heavy ion irradiation. <i>Surfaces and Interfaces</i> , 2021, 26, 101431.	3.0	3
7	Engineering of morphological, optical, structural, photocatalytic and catalytic properties of nanostructured CuO thin films fabricated by reactive DC magnetron sputtering. <i>Ceramics International</i> , 2020, 46, 7499-7509.	4.8	23
8	Expanded light-absorption and efficient charge-separation: bilayered thin film nano-hetero-structures, CuO/Cu@ZnO, make efficient photoanode in photoelectrochemical water splitting. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 887-906.	2.9	10
9	RF magnetron sputtered Ag-Cu ₂ O-CuO nanocomposite thin films with highly enhanced photocatalytic and catalytic performance. <i>Applied Surface Science</i> , 2020, 517, 146169.	6.1	38
10	Fabrication of Conducting Nanochannels Using Accelerator for Fuel Cell Membrane and Removal of Radionuclides: Role of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17628-17640.	8.0	13
11	Thickness dependent optical, structural, morphological, photocatalytic and catalytic properties of radio frequency magnetron sputtered nanostructured Cu ₂ O@CuO thin films. <i>Ceramics International</i> , 2020, 46, 14902-14912.	4.8	20
12	Morphological influence of electrode/electrolyte interface towards augmenting the efficiency of photoelectrochemical water splitting @ A case study on ZnO. <i>Journal of Power Sources</i> , 2019, 432, 38-47.	7.8	11
13	Photoelectrochemical water splitting with 600 keV N ²⁺ ion irradiated BiVO ₄ and BiVO ₄ /Au photoanodes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13061-13070.	7.1	10
14	Fabrication of a low-cost functionalized poly(vinylidene fluoride) nanohybrid membrane for superior fuel cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1269-1282.	4.9	13
15	Thermal evolution of morphological, structural, optical and photocatalytic properties of CuO thin films. <i>Nano Structures Nano Objects</i> , 2019, 17, 92-102.	3.5	58
16	Energetic ion-induced modification of embedded Au nanoparticles size: a three-dimensional kinetic lattice Monte Carlo study. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	2
17	Large electronic sputtering yield of nanodimensional Au thin films: Dominant role of thermal conductivity and electron phonon coupling factor. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	22
18	Nanostructured TiO ₂ thin films prepared by RF magnetron sputtering for photocatalytic applications. <i>Applied Surface Science</i> , 2017, 422, 953-961.	6.1	123

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19	Facile synthesis of Au-ZnO plasmonic nanohybrids for highly efficient photocatalytic degradation of methylene blue. <i>Optical Materials</i> , 2017, 64, 47-52.	3.6	77
20	Enhanced photoelectrochemical response of plasmonic Au embedded BiVO ₄ /Fe ₂ O ₃ heterojunction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15039-15049.	2.8	34
21	Gradient doping " a case study with Ti-Fe ₂ O ₃ towards an improved photoelectrochemical response. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32735-32743.	2.8	40
22	Dynamic scaling of swift heavy ion induced surface restructuring of BaF ₂ thin film. <i>Materials Letters</i> , 2015, 143, 309-311.	2.6	10
23	A study on the consequence of swift heavy ion irradiation of Zn-silica nanocomposite thin films: electronic sputtering. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1691-1698.	2.8	6
24	Radiation stability of graphene under extreme conditions. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	39
25	Study of electronic sputtering of CaF ₂ thin films. <i>Applied Surface Science</i> , 2014, 289, 77-80.	6.1	25
26	Sputtering yield of amorphous ¹³ C thin films under swift heavy-ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 314, 34-38.	1.4	9
27	Swift heavy-ions induced sputtering in BaF ₂ thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 314, 21-25.	1.4	15
28	Nanochannel conduction in piezoelectric polymeric membrane using swift heavy ions and nanoclay. <i>RSC Advances</i> , 2013, 3, 6147.	3.6	18
29	Synthesis of an embedded metal nanoparticle planar assembly by low-energy ion irradiation of a thin discontinuous metal film sandwiched in silica. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 375304.	2.8	9
30	A study on the formation of Ag nanoparticles on the surface and catcher by ion beam irradiation of Ag thin films. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 445304.	2.8	30
31	Ion beam induced dissolution and precipitation of in situ formed Si-nanostructures in a-SiN _x :H matrix. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 276, 51-55.	1.4	18
32	Atomistic simulations of Au-silica nanocomposite film growth. <i>Journal of Applied Physics</i> , 2011, 109, 094312.	2.5	7
33	Modified structural and photoelectrochemical properties of 170 MeV Au ¹³⁺ irradiated hematite. <i>Thin Solid Films</i> , 2005, 492, 332-336.	1.8	30
34	A study on 170 MeV Au ¹³⁺ irradiation induced modifications in structural and photoelectrochemical behavior of nanostructured CuO thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 225, 291-296.	1.4	76