

Udai B Singh

List of Publications by Year in descending order

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39
papers

670
citations

516710

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580821

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39
docs citations

39
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced room temperature ferromagnetism and green photoluminescence in Cu doped ZnO thin film synthesised by neutral beam sputtering. Scientific Reports, 2019, 9, 6675.	3.3	86
2	Insight Mechanisms of Surface Structuring and Wettability of Ion-Treated Ag Thin Films. Journal of Physical Chemistry C, 2016, 120, 5755-5763.	3.1	40
3	Probing the temperature effects in the radiation stability of Nd ₂ Zr ₂ O ₇ pyrochlore under swift ion irradiation. Materialia, 2019, 6, 100317.	2.7	36
4	Engineering of hydrophilic and plasmonic properties of Ag thin film by atom beam irradiation. Applied Surface Science, 2011, 258, 1464-1469.	6.1	32
5	Formation of nanodots on GaAs by 50keV Ar ⁺ ion irradiation. Applied Surface Science, 2012, 258, 4148-4151.	6.1	32
6	Shape elongation of Zn nanoparticles in silica irradiated with swift heavy ions of different species and energies: scaling law and some insights on the elongation mechanism. Nanotechnology, 2014, 25, 435301.	2.6	32
7	Tuning of ripple patterns and wetting dynamics of Si (100) surface using ion beam irradiation. Current Applied Physics, 2014, 14, 312-317.	2.4	32
8	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
9	Investigating the nanostructured gold thin films using the multifractal analysis. Applied Physics A: Materials Science and Processing, 2014, 117, 2159-2166.	2.3	29
10	Plasmonic layer enhanced photoelectrochemical response of Fe ₂ O ₃ photoanodes. Journal of Power Sources, 2016, 315, 152-160.	7.8	28
11	Role of temperature in the radiation stability of yttria stabilized zirconia under swift heavy ion irradiation: A study from the perspective of nuclear reactor applications. Journal of Applied Physics, 2017, 122, .	2.5	25
12	Swift heavy ion irradiation of ZnO nanoparticles embedded in silica: Radiation-induced deoxidation and shape elongation. Applied Physics Letters, 2013, 103, .	3.3	23
13	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
14	Engineering the strain in graphene layers with Au decoration. Applied Surface Science, 2014, 308, 193-198.	6.1	19
15	Nanostructuring and wettability of ion treated Au thin films. Journal of Applied Physics, 2017, 122, .	2.5	19
16	Investigating the effect of material microstructure and irradiation temperature on the radiation tolerance of yttria stabilized zirconia against high energy heavy ions. Journal of Applied Physics, 2019, 125, .	2.5	19
17	Creation of self-organized gold nanostructures by keV ion beam irradiation. Radiation Effects and Defects in Solids, 2011, 166, 553-557.	1.2	15
18	Quasi-aligned gold nanodots on a nanorippled silica surface: experimental and atomistic simulation investigations. Nanotechnology, 2011, 22, 235305.	2.6	15

#	ARTICLE	IF	CITATIONS
19	Swift heavy-ions induced sputtering in BaF ₂ thin films. Nuclear Instruments & Methods in Physics Research B, 2013, 314, 21-25.	1.4	15
20	Synthesis of embedded Au nanostructures by ion irradiation: influence of ion induced viscous flow and sputtering. Beilstein Journal of Nanotechnology, 2014, 5, 105-110.	2.8	15
21	In-situ transport and microstructural evolution in GaN Schottky diodes and epilayers exposed to swift heavy ion irradiation. Journal of Applied Physics, 2018, 123, 161539.	2.5	14
22	Luminescence properties of BaMgAl ₁₀ O ₁₇ : Mn ²⁺ nanophosphors. Journal of Alloys and Compounds, 2019, 799, 556-562.	5.5	14
23	Dynamic scaling of swift heavy ion induced surface restructuring of BaF ₂ thin film. Materials Letters, 2015, 143, 309-311.	2.6	10
24	Study of thickness dependent sputtering in gold thin films by swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 496-502.	1.4	8
25	Ion beam induced optical and surface modification in plasmonic nanostructures. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 42-47.	1.4	8
26	Radiation response of nano-crystalline cubic Zirconia: Comparison between nuclear energy loss and electronic energy loss regimes. Nuclear Instruments & Methods in Physics Research B, 2018, 435, 19-24.	1.4	7
27	Surface erosion of BaF ₂ thin films under SHI irradiation: Angular distribution and role of different substrates. Applied Surface Science, 2021, 551, 149343.	6.1	7
28	A study on the consequence of swift heavy ion irradiation of ZnO-silica nanocomposite thin films: electronic sputtering. Beilstein Journal of Nanotechnology, 2014, 5, 1691-1698.	2.8	6
29	Synthesis of Pt nanoparticles and their burrowing into Si due to synergistic effects of ion beam energy losses. Beilstein Journal of Nanotechnology, 2014, 5, 1864-1872.	2.8	6
30	SHI induced surface re-organization of non-amorphisable nanodimensional fluoride thin films. Physical Chemistry Chemical Physics, 2017, 19, 23229-23238.	2.8	6
31	Formation of self-organized nano-dimensional structures on InP surfaces using ion irradiation and their wettability: A study based on experimental and theoretical concepts of surface. Radiation Physics and Chemistry, 2022, 199, 110353.	2.8	6
32	Swift Heavy Ion Irradiation Induced Surface Sputtering And Micro Structural Modification Of Gold Thin Films. Advanced Materials Letters, 2015, 6, 359-364.	0.6	5
33	Phase decomposition of AuFe alloy nanoparticles embedded in silica matrix under swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 206-210.	1.4	4
34	Interface modification of Fe/Cr/Al magnetic multilayer by swift heavy ion irradiation. Surfaces and Interfaces, 2021, 26, 101431.	3.0	3
35	The role of ion irradiation in activating silent Raman modes via tuning in plasmonic behaviour and surface disorder of Au/ZnO/Pt NFG system. Europhysics Letters, 2017, 119, 66002.	2.0	2
36	Nano Pattern on n-Si (100) Surface by Ion Irradiation. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Thermal stability of bimetallic Au/Fe nanoparticles in silica matrix. , 2014, , .		0
38	SHI induced evolution of surface and wettability of BaF2 thin films. MRS Advances, 2019, 4, 1667-1672.	0.9	0
39	Influence of heat on dynamics of surface morphology of Cu film: An experimental and theoretical perspective. Materials Chemistry and Physics, 2021, 267, 124647.	4.0	0