Mohsin Rafique

List of Publications by Year
in descending order

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26	206	1307594 7	1125743 13
papers	citations	h-index	g-index

26	26	26	155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Copper ion implantation effects in ZnO film deposited on flexible polymer by DC magnetron sputtering. Vacuum, 2019, 165, 72-80.	3.5	33
2	Surface, structural and tensile properties of proton beam irradiated zirconium. Nuclear Instruments & Methods in Physics Research B, 2016, 368, 120-128.	1.4	25
3	Mechanical behavior of low-dose neutron-irradiated polycrystalline zirconium. Radiation Effects and Defects in Solids, 2012, 167, 289-297.	1.2	21
4	Nickel ion implantation effects on DC magnetron sputtered ZnO film prepared on Si (100). Ceramics International, 2019, 45, 15547-15555.	4.8	13
5	Influence of carbon ion implantation energy on aluminum carbide precipitation and electrochemical corrosion resistance of aluminum. Nuclear Instruments & Methods in Physics Research B, 2018, 436, 84-91.	1.4	12
6	Investigation of morphological, structural, and mechanical characteristics of Zircaloy-4 irradiated with 3.5 MeV hydrogen ions beam. Materials Research Express, 2017, 4, 096507.	1.6	11
7	Impact of variable energy hydrogen ions on structural and mechanical properties of Zircaloy-4. Physica Scripta, 2018, 93, 115303.	2.5	9
8	Effects of carbon ions irradiation on the electrochemical response of AISI 304 stainless steel. Materials Research Express, 2018, 5, 106501.	1.6	8
9	Impact of Carbon Ion Implantation on the Crystal Structure, Surface Morphology, Vickers Hardness and Electrochemical Corrosion of Zirconium. Journal of Materials Engineering and Performance, 2021, 30, 4604-4618.	2.5	8
10	Structural characterization of Zircaloy-4 subjected to helium ions irradiation of variable fluence. Nuclear Materials and Energy, 2019, 20, 100690.	1.3	7
11	Improvement in electrochemical corrosion resistance of Mgâ€“Alâ€“Zn alloy by 250 keV carbon ions irradiation. Materials Research Express, 2019, 6, 126452.	1.6	7
12	Electrochemical behavior of hydrogen precipitated Zircaloy-4. Modern Physics Letters B, 2015, 29, 1550200.	1.9	6
13	Spectroscopic and microstructural characterization of 18 MeV He+ ions irradiated pure Al. Optik, 2016, 127, 9152-9160.	2.9	6
14	Effect of Ar:O2 ratio on reactively magnetron sputtered ZnO filmâ€™s properties. Materials Research Express, 2019, 6, 116419.	1.6	6
15	Electrochemical corrosion study of helium ions implanted Zircaloy-4 in chloride media. Nuclear Engineering and Technology, 2021, 53, 927-931.	2.3	5
16	Impact of 18 MeV He⁺ions on the morphological and structural properties of pure Fe. Materials Research Express, 2017, 4, 096504.	1.6	4
17	STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF ANNEALED MoO₃ FILMS ON DIFFERENT SUBSTRATES. Surface Review and Letters, 2020, 27, 1950150.	1.1	4
18	Improvement in the pitting resistance of Inconel-600 by nitrogen ions implantation. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 481-485.	1.1	3

#	Article	IF	Citations
19	Modification in ZnO film properties by 250 keV cobalt implantation. Materials Research Express, 2019, 6, 126428.	1.6	3
20	Structural, optical and electrical characteristics of silver ions irradiated ZnO film on flexible substrate. Superlattices and Microstructures, 2020, 144, 106586.	3.1	3
21	Enhanced photodetection performance of sputtered cupric oxide thin film through annealing process. Optical and Quantum Electronics, 2021, 53, 1.	3.3	3
22	Surface and Structural Modifications of Tungsten by Laser Irradiation for Enhanced Electrochemical Corrosion Resistance. Journal of Materials Engineering and Performance, 2022, 31, 1904-1913.	2.5	3
23	Effects of 3.5 MeV proton irradiation on pure zirconium. Metals and Materials International, 2016, 22, 443-450.	3.4	2
24	Microstructural features and mechanical properties of 18ÂMeV He+Âions irradiated pure Zr. Modern Physics Letters B, 2016, 30, 1650395.	1.9	2
25	STUDY OF HARDNESS AND CORROSION RATE OF COPPER IONS IRRADIATED Mgâ€“Alâ€“Zn ALLOY IN RINGER LACTATE SOLUTION. Surface Review and Letters, 2021, 28, 2150054.	1.1	2
26	Structural properties and surface topography of MgO films prepared on Si (100) by pulsed DC magnetron sputtering. Materials Research Express, 2018, 5, 096412.	1.6	0