

Naureen Ghafoor

List of Publications by Year in descending order

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50
papers

1,183
citations

361413

20
h-index

395702

33
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50
all docs

50
docs citations

50
times ranked

939
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Fabrication Technology for Clamped Micron-Thick Titanium Diaphragms Used for the Packaging of an Implantable MEMS Acoustic Transducer. <i>Micromachines</i> , 2022, 13, 74.	2.9	1
2	Rhombohedral boron nitride epitaxy on ZrB ₂ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	2.1	7
3	Microstructure and materials properties of understoichiometric TiB _x thin films grown by HiPIMS. <i>Surface and Coatings Technology</i> , 2020, 404, 126537.	4.8	33
4	Interface bonding of $Zr_{1-x}Al_xN$ thin films. <i>Journal of Materials Research</i> , 2019, 34, 3735-3746.	3.6	1
5	Eutectic modification by ternary compound cluster formation in Al-Si alloys. <i>Scientific Reports</i> , 2019, 9, 5506.	3.3	26
6	Phase evolution of radio frequency magnetron sputtered Cr-rich (Cr,Zr) ₂ O ₃ coatings studied by in situ synchrotron X-ray diffraction during annealing in air or vacuum. <i>Journal of Materials Research</i> , 2019, 34, 3735-3746.	2.6	2
7	Decomposition routes and strain evolution in arc deposited TiZrAlN coatings. <i>Journal of Alloys and Compounds</i> , 2019, 779, 261-269.	5.5	6
8	Characterization of DLC coatings over nitrided stainless steel with and without nitriding pre-treatment using annealing cycles. <i>Journal of Materials Research and Technology</i> , 2019, 8, 1653-1662.	5.8	10
9	Adhesive-deformation relationships and mechanical properties of nc-AlCrN/a-SiN _x hard coatings deposited at different bias voltages. <i>Thin Solid Films</i> , 2018, 650, 11-19.	1.8	31
10	Self-structuring in Zr _{1-x} Al _x N films as a function of composition and growth temperature. <i>Scientific Reports</i> , 2018, 8, 16327.	3.3	9
11	Ion-assisted magnetron sputter deposition of B ₄ C-doped Ni/Ti multilayer mirrors. , 2018, , .		1
12	Exploring the high entropy alloy concept in (AlTiVNbCr)N. <i>Thin Solid Films</i> , 2017, 636, 346-352.	1.8	27
13	Effects of decomposition route and microstructure on h-AlN formation rate in TiCrAlN alloys. <i>Journal of Alloys and Compounds</i> , 2017, 691, 1024-1032.	5.5	9
14	Impact of B ₄ C co-sputtering on structure and optical performance of Cr/Sc multilayer X-ray mirrors. <i>Optics Express</i> , 2017, 25, 18274.	3.4	15
15	Carbon Based Coatings Deposited on Nitrided Stainless Steel: Study of Thermal Degradation. <i>Minerals, Metals and Materials Series</i> , 2017, , 57-66.	0.4	0
16	Cluster formation at the Si/liquid interface in Sr and Na modified Al _{0.69} Si alloys. <i>Scripta Materialia</i> , 2016, 117, 16-19.	5.2	74
17	Growth and thermal stability of TiN/ZrAlN: Effect of internal interfaces. <i>Acta Materialia</i> , 2016, 121, 396-406.	7.9	44
18	Self-organized nanostructuring in Zr _{0.69} Al _{0.31} N thin films studied by atom probe tomography. <i>Thin Solid Films</i> , 2016, 615, 233-238.	1.8	10

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19	Influence of microstructure and mechanical properties on the tribological behavior of reactive arc deposited Zr-Si-N coatings at room and high temperature. <i>Surface and Coatings Technology</i> , 2016, 304, 393-400.	4.8	10
20	Thermal stability of wurtzite Zr _{1-x} Al _x N coatings studied by <i>in situ</i> high-energy x-ray diffraction during annealing. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	20
21	Industry-relevant magnetron sputtering and cathodic arc ultra-high vacuum deposition system for <i>in situ</i> x-ray diffraction studies of thin film growth using high energy synchrotron radiation. <i>Review of Scientific Instruments</i> , 2015, 86, 095113.	1.3	11
22	Tuning hardness and fracture resistance of ZrN/Zr _{0.63} Al _{0.37} N nanoscale multilayers by stress-induced transformation toughening. <i>Acta Materialia</i> , 2015, 89, 22-31.	7.9	57
23	Self-organized anisotropic (Zr _{1-x} Si _x)N nanocomposites grown by reactive sputter deposition. <i>Acta Materialia</i> , 2015, 82, 179-189.	7.9	27
24	Nanostructuring and coherency strain in multicomponent hard coatings. <i>APL Materials</i> , 2014, 2, 116104.	5.1	6
25	High temperature phase decomposition in Ti _x Zr _y Al _z N. <i>AIP Advances</i> , 2014, 4, .	1.3	13
26	Anomalous epitaxial stability of (001) interfaces in ZrN/SiN _x multilayers. <i>APL Materials</i> , 2014, 2, 046106.	5.1	10
27	Structure, deformation and fracture of arc evaporated Zr-Al-Si hard films. <i>Surface and Coatings Technology</i> , 2014, 258, 1100-1107.	4.8	31
28	Comparison of segregations formed in unmodified and Sr-modified Al-Si alloys studied by atom probe tomography and transmission electron microscopy. <i>Journal of Alloys and Compounds</i> , 2014, 611, 410-421.	5.5	59
29	3D Microstructure Characterization and Analysis of Al-Si Foundry Alloys at Different Length Scales. <i>Microscopy and Microanalysis</i> , 2014, 20, 956-957.	0.4	19
30	Effects of Ti alloying of AlCrN coatings on thermal stability and oxidation resistance. <i>Thin Solid Films</i> , 2013, 534, 394-402.	1.8	59
31	Self-organization during growth of ZrN/SiN _x multilayers by epitaxial lateral overgrowth. <i>Journal of Applied Physics</i> , 2013, 114, 224302.	2.5	11
32	Nanolabyrinthine ZrAlN thin films by self-organization of interwoven single-crystal cubic and hexagonal phases. <i>APL Materials</i> , 2013, 1, .	5.1	35
33	Coherency strain engineered decomposition of unstable multilayer alloys for improved thermal stability. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	10
34	Influence of chemical composition and deposition conditions on microstructure evolution during annealing of arc evaporated ZrAlN thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	2.1	26
35	Decomposition and phase transformation in TiCrAlN thin coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	2.1	44
36	Auto-organizing ZrAlN/ZrAlTiN/TiN multilayers. <i>Thin Solid Films</i> , 2012, 520, 6451-6454.	1.8	11

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37	Arc deposition of Tiâ€“Siâ€“Câ€“N thin films from binary and ternary cathodes â€” Comparing sources of C. Surface and Coatings Technology, 2012, 213, 145-154.	4.8	15
38	Tiâ€“Siâ€“Câ€“N thin films grown by reactive arc evaporation from Ti₃SiC₂ cathodes. Journal of Materials Research, 2011, 26, 874-881.	2.6	19
39	Improving thermal stability of hard coating films via a concept of multicomponent alloying. Applied Physics Letters, 2011, 99, .	3.3	95
40	Layer formation by resputtering in Tiâ€“Siâ€“C hard coatings during large scale cathodic arc deposition. Surface and Coatings Technology, 2011, 205, 3923-3930.	4.8	83
41	Microstructure evolution of Ti ₃ SiC ₂ compound cathodes during reactive cathodic arc evaporation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, 031601.	2.1	10
42	Characterization of worn Tiâ€“Si cathodes used for reactive cathodic arc evaporation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 347-353.	2.1	19
43	Effects of O and N impurities on the nanostructural evolution during growth of Cr/Sc multilayers. Journal of Materials Research, 2009, 24, 79-95.	2.6	10
44	Effects of ion-assisted growth on the layer definition in Cr/Sc multilayers. Thin Solid Films, 2008, 516, 982-990.	1.8	12
45	Atomic scale interface engineering by modulated ion-assisted deposition applied to soft x-ray multilayer optics. Applied Optics, 2008, 47, 4196.	2.1	36
46	Reflectivity and structural evolution of Cr/Sc and nitrogen containing Cr/Sc multilayers during thermal annealing. Journal of Applied Physics, 2008, 104, .	2.5	18
47	Incorporation of nitrogen in Crâˆ•Sc multilayers giving improved soft x-ray reflectivity. Applied Physics Letters, 2008, 92, .	3.3	29
48	Interface engineered ultrashort period Cr-Ti multilayers as high reflectance mirrors and polarizers for soft x rays of lambda = 274 nm wavelength. Applied Optics, 2006, 45, 137.	2.1	18
49	Interface engineering of short-period Ni/V multilayer X-ray mirrors. Thin Solid Films, 2006, 500, 84-95.	1.8	36
50	Single crystal CrN/ScN superlattice soft X-ray mirrors: Epitaxial growth, structure, and properties. Thin Solid Films, 2006, 514, 10-19.	1.8	16