

Akram Alhussein

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Influence of silicon and addition elements on the mechanical behavior of ferritic ductile cast iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 605, 222-228.	5.6	51
2	Effect of annealing treatment on the microstructure, mechanical and tribological properties of chromium carbonitride coatings. <i>Surface and Coatings Technology</i> , 2019, 359, 403-413.	4.8	28
3	Relationship between structure, surface topography and tribo-mechanical behavior of Ti-N thin films elaborated at different N ₂ flow rates. <i>Thin Solid Films</i> , 2021, 724, 138598.	1.8	24
4	Structural, tribological and antibacterial properties of (Ti + Zr) based ti-alloys for biomedical applications. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14061-14074.	5.8	22
5	Investigating the effect of nitrogen on the structural and tribo-mechanical behavior of vanadium nitride thin films deposited using R.F. magnetron sputtering. <i>Journal of Materials Science</i> , 2021, 56, 17319-17336.	3.7	21
6	Influence of film thickness and Ar N ₂ plasma gas on the structure and performance of sputtered vanadium nitride coatings. <i>Surface and Coatings Technology</i> , 2019, 378, 124948.	4.8	20
7	Evolution of microstructure, mechanical and tribological properties of vanadium carbonitride coatings sputtered at different nitrogen partial pressures. <i>Surface and Coatings Technology</i> , 2019, 374, 531-540.	4.8	20
8	Gum Metal thin films obtained by magnetron sputtering of a Ti-Nb-Zr-Ta target. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 492-502.	5.6	19
9	Plasma investigations and deposition of Me-DLC (Me = Al, Ti or Nb) obtained by a magnetron sputtering-RFPECVD hybrid process. <i>Surface and Coatings Technology</i> , 2018, 354, 351-359.	4.8	19
10	Effect of gas tungsten arc welding parameters on the corrosion resistance and the residual stress of heat affected zone. <i>Engineering Failure Analysis</i> , 2020, 107, 104200.	4.0	17
11	Influence of sandblasting and hydrogen on tensile and fatigue properties of pipeline API 5L X52 steel. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 2291-2301.	7.1	15
12	Beneficial effect of Cu on Ti-Nb-Ta-Zr sputtered uniform/adhesive gum films accelerating bacterial inactivation under indoor visible light. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 152-158.	5.0	14
13	Sputtered Gum metal thin films showing bacterial inactivation and biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 687-691.	5.0	12
14	On the determination of Young's modulus of thin films with impulse excitation technique. <i>Journal of Materials Research</i> , 2017, 32, 497-511.	2.6	11
15	Experimental investigation of structural, wetting, mechanical and Tribological properties of TiZrN thin films deposited by magnetron sputtering. <i>Surfaces and Interfaces</i> , 2021, 27, 101519.	3.0	11
16	Static, dynamic and fatigue characteristics of the pipeline API 5L X52 steel after sandblasting. <i>Engineering Failure Analysis</i> , 2013, 27, 1-15.	4.0	10
17	Determination of single-crystal elasticity constants of the beta phase in a multiphase tungsten thin film using impulse excitation technique, X-ray diffraction and micro-mechanical modeling. <i>Acta Materialia</i> , 2019, 175, 348-360.	7.9	10
18	An enhanced formulation to determine Young's and shear moduli of thin films by means of Impulse Excitation Technique. <i>Thin Solid Films</i> , 2017, 631, 172-179.	1.8	9

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19	Bifunctional TiO ₂ /AlZr Thin Films on Steel Substrate Combining Corrosion Resistance and Photocatalytic Properties. <i>Coatings</i> , 2019, 9, 564.	2.6	8
20	Effect of oxygen addition on microstructure and mechanical properties of quaternary TNTZ superelastic thin films obtained by magnetron sputtering. <i>Materials Chemistry and Physics</i> , 2018, 217, 262-269.	4.0	7
21	Multilayered models for determining the Young's modulus of thin films by means of Impulse Excitation Technique. <i>Mechanics of Materials</i> , 2019, 137, 103143.	3.2	6
22	Structural and Magneto-Electrical Properties of Bi _{2-x} Sm _x Sr ₂ CaCu ₂ O ₈ High T _c Superconductor Prepared by Pechini Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 3321-3331.	1.8	6
23	Marine Antibiofouling Properties of TiO ₂ and Ti-Cu-O Films Deposited by Aerosol-Assisted Chemical Vapor Deposition. <i>Coatings</i> , 2020, 10, 779.	2.6	6
24	Biological responses at the interface of Ti-doped diamond-like carbon surfaces for indoor environment application. <i>Environmental Science and Pollution Research</i> , 2020, 27, 31120-31129.	5.3	6
25	Effect of carbon content on structural, mechanical and tribological properties of Cr-V-C-N coatings. <i>Thin Solid Films</i> , 2021, 732, 138782.	1.8	6
26	Al-Ti-W alloys deposited by magnetron sputtering: Effective barrier to prevent steel hydrogen embrittlement. <i>Applied Surface Science</i> , 2021, 567, 150786.	6.1	6
27	Effect of He and N ₂ gas on the mechanical and tribological assessment of SS316L coating deposited by cold spraying process. <i>Journal of Materials Science</i> , 2022, 57, 5258-5274.	3.7	6
28	Structural and microstructural analysis of bifunctional TiO ₂ /Al-Zr thin film deposited by hybrid process. <i>Thin Solid Films</i> , 2020, 709, 138255.	1.8	5
29	Bio-Numerical Analysis of the Human Ankle-Foot Model Corresponding to Neutral Standing Condition. <i>Journal of Biomedical Physics and Engineering</i> , 2020, 10, 645-650.	0.9	5
30	Phase stability, mechanical and optoelectronic properties of lanthanum chromite-based perovskite oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	5
31	Self-combustion of Ti-C and Ti-Al Powder Mixture in a Nitrogen Atmosphere: Product Application as Reinforcement in Metal Matrix Composites. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1984-1994.	2.5	4
32	Stress determination in a thermally grown oxide on Ni ₃₈ Cr alloy by use of micro/nanogauge gratings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 812, 141079.	5.6	4
33	First-principles calculations to investigate structural, magnetic, electronic and elastic properties of full-Heusler alloys Co ₂ MB (M=V, Mn). <i>Solid State Communications</i> , 2021, 337, 114426.	1.9	4
34	Elastic behavior of anisotropic coatings sputter-deposited at oblique incidence. <i>International Journal of Mechanical Sciences</i> , 2021, 191, 106050.	6.7	3
35	Effect of O ₂ flow rate on the structure, wettability and tribo-mechanical behaviour of Zr-O-N thin films. <i>Surfaces and Interfaces</i> , 2021, 26, 101441.	3.0	3
36	Effect of silicon content and defects on the lifetime of ductile cast iron. <i>MATEC Web of Conferences</i> , 2014, 12, 04006.	0.2	2

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37	Architected Cu/TNTZ Bilayered Coatings Showing Bacterial Inactivation under Indoor Light and Controllable Copper Release: Effect of the Microstructure on Copper Diffusion. <i>Coatings</i> , 2020, 10, 574.	2.6	1
38	Influence of sand movement in the Sahara on the erosion of pipeline network. <i>EPJ Web of Conferences</i> , 2010, 6, 42018.	0.3	0
39	Microstructure and Mechanical Properties of Chromium Carbide Coatings Deposited by Magnetron Sputtering Technique. <i>Defect and Diffusion Forum</i> , 0, 397, 118-124.	0.4	0
40	Influence of short-time thermal ageing on the behaviour of double lap composite adhesively bonded joints. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	0
41	Mechanical and Tribological Behaviors of Nanocomposite Titanium Nitrides Coatings. <i>Defect and Diffusion Forum</i> , 0, 406, 312-318.	0.4	0
42	Microstructural, mechanical and tribological characterization of Co-20 wt% WC composite elaborated by solid-phase sintering of Co-W-C powders mixture. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2022, 16, 202-210.	1.4	0