

Esah Hamzah

List of Publications by Year in descending order

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papers

1,753
citations

346980

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docs citations

64
times ranked

1989
citing authors

#	ARTICLE	IF	CITATIONS
1	Hard coating deposits: incompatible working energy and forced behaviours of gaseous and solid atoms. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 498-517.	0.8	2
2	In Vitro Microstructure, Shape Memory, Corrosion, and Biocompatibility Characteristics of Porous Ti-51At.%Ni-xSn Shape Memory Alloys. <i>Metallography, Microstructure, and Analysis</i> , 2022, 11, 150-157.	0.5	3
3	Influence of fabrication methods on the microstructures and hardness of Ti-Ni, Ti-Nb and Ti-Ta for biomedical applications. <i>Materials Today: Proceedings</i> , 2021, 39, 975-978.	0.9	3
4	Relationship between the microstructure and the heat treatment and creep behavior of Fe-33Ni-19Cr alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1719-1738.	1.7	3
5	Effect of Ce and Sb Elements Addition on Porous Ti-23 wt%Nb-Sn for Biomedical Applications. <i>Shape Memory and Superelasticity</i> , 2021, 7, 515.	1.1	2
6	Microstructure, phase evolution and corrosion behaviour of the Zn-Al-Mg-Sb alloy coating on steel. <i>Materials Science and Technology</i> , 2020, 36, 353-366.	0.8	10
7	Shape memory characteristics of microwave sintered porous Ti-30 at.%Ta alloy for biomedical applications. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 1979-1989.	1.1	7
8	Preparation of poly(ϵ -caprolactone)-hydroxyapatite composite coating for improvement of corrosion performance of biodegradable magnesium. <i>Material Design and Processing Communications</i> , 2020, 2, e170.	0.5	5
9	Pomelo Peel Extract as Corrosion Inhibitor for Steel in Simulated Seawater and Acidic Mediums. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2202-2215.	1.2	22
10	Clinoenstatite/Tantalum Coating for Enhancement of Biocompatibility and Corrosion Protection of Mg Alloy. <i>Journal of Functional Biomaterials</i> , 2020, 11, 26.	1.8	12
11	Role of Ag addition on microstructure, mechanical properties, corrosion behavior and biocompatibility of porous Ti-30 at.%Ta shape memory alloys. <i>Journal of Central South University</i> , 2020, 27, 3175-3187.	1.2	10
12	Tailoring Microstructure and Properties of a Superelastic Ti-Ta Alloy by Incorporating Spark Plasma Sintering with Thermomechanical Processing. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 3012-3020.	1.2	26
13	In Vitro Microstructure, Mechanical Properties and Corrosion Behaviour of Low, Medium and High Carbon Steel Under Different Heat Treatments. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	1.2	9
14	Deformation Influences on Microstructure, Mechanical Properties, and Shape Memory Behavior of Cu-Al-Ni-xTi Shape Memory Alloys. <i>Metallography, Microstructure, and Analysis</i> , 2019, 8, 406-414.	0.5	3
15	Corrosion Behavior of Cu-Al-Ni-xCo Shape Memory Alloys Coupled with Low-Carbon Steel for Civil Engineering Applications. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	1.2	9
16	Magnesium-zinc scaffold loaded with tetracycline for tissue engineering application: In vitro cell biology and antibacterial activity assessment. <i>Materials Science and Engineering C</i> , 2019, 102, 53-65.	3.8	51
17	Effect of zeolite on the corrosion behavior, biocompatibility and antibacterial activity of porous magnesium/zeolite composite scaffolds. <i>Materials Technology</i> , 2019, 34, 258-269.	1.5	19
18	Synthesis of novel nanostructured bredigite amoxicillin scaffolds for bone defect treatment: cytocompatibility and antibacterial activity. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 83-93.	1.1	23

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19	Microstructure, Mechanical Properties, and Shape Memory Effect of Annealed Cu-Al-Ni-xCo Shape Memory Alloys. <i>Metallography, Microstructure, and Analysis</i> , 2018, 7, 57-64.	0.5	11
20	In-vitro biocompatibility, bioactivity, and mechanical strength of PMMA-PCL polymer containing fluorapatite and graphene oxide bone cements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 82, 257-267.	1.5	83
21	Effect of Sn additions on the microstructure, mechanical properties, corrosion and bioactivity behaviour of biomedical Ti-48Ta shape memory alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1165-1175.	2.0	16
22	Titania-carbon nanotubes nanocomposite coating on Mg alloy: Microstructural characterisation and mechanical properties. <i>Materials Science and Technology</i> , 2018, 34, 378-387.	0.8	5
23	Heat-Conduction-Type and Keyhole-Type Laser Welding of Ti-51Ni Shape-Memory Alloys Processed by Spark-Plasma Sintering. <i>Materials Transactions</i> , 2018, 59, 835-842.	0.4	5
24	Powder Metallurgy Fabrication of Porous 51(at.%)Ni-49Ti Shape Memory Alloys for Biomedical Applications. <i>Shape Memory and Superelasticity</i> , 2018, 4, 327-336.	1.1	9
25	Effect of deformation on the microstructure, transformation temperature and superelasticity of Ti-23 at% Nb shape-memory alloys. <i>Materials and Design</i> , 2017, 118, 152-162.	3.3	40
26	Microstructure, In Vitro Corrosion Behavior and Cytotoxicity of Biodegradable Mg-Ca-Zn and Mg-Ca-Zn-Bi Alloys. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 653-666.	1.2	28
27	Thermal Characteristics, Mechanical Properties, In Vitro Degradation and Cytotoxicity of Novel Biodegradable Zn-48Al-4Mg and Zn-48Al-4Mg-xBi Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 201-211.	1.5	39
28	Characterisation and thermodynamic calculations of biodegradable Mg-2.2Zn-3.7Ce and Mg-Ca-2.2Zn-3.7Ce alloys. <i>Materials Science and Technology</i> , 2017, 33, 1333-1345.	0.8	7
29	Microwave sintering effects on the microstructure and mechanical properties of Ti-51at%Ni shape memory alloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 280-288.	2.4	11
30	Influence of Ce addition on biomedical porous Ti-51 atomic percentage (at. %) Ni shape memory alloy fabricated by microwave sintering. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
31	Effect of Ta Additions on the Microstructure, Damping, and Shape Memory Behaviour of Prealloyed Cu-Al-Ni Shape Memory Alloys. <i>Scanning</i> , 2017, 2017, 1-13.	0.7	17
32	Preparation and Performance of Plasma/Polymer Composite Coatings on Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3948-3959.	1.2	12
33	The role of solution heat treatment on corrosion and mechanical behaviour of Mg-Zn biodegradable alloys. <i>Canadian Metallurgical Quarterly</i> , 2016, 55, 53-64.	0.4	15
34	Influence of Tin Additions on the Phase-Transformation Characteristics of Mechanical Alloyed Cu-Al-Ni Shape-Memory Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5242-5255.	1.1	10
35	Corrosion and bioactivity performance of graphene oxide coating on Ti Nb shape memory alloys in simulated body fluid. <i>Materials Science and Engineering C</i> , 2016, 68, 687-694.	3.8	47
36	Deposition of nanostructured fluorine-doped hydroxyapatite-polycaprolactone duplex coating to enhance the mechanical properties and corrosion resistance of Mg alloy for biomedical applications. <i>Materials Science and Engineering C</i> , 2016, 60, 526-537.	3.8	83

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37	Effect of annealing on the microstructures and deformation behaviour of Ti-50.7at.%Ni shape memory alloy. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 436-445.	0.7	0
38	Effect of a fourth alloying element on the microstructure and mechanical properties of Cu-Al-Ni shape memory alloys. Journal of Materials Research, 2015, 30, 2258-2269.	1.2	25
39	Effect of Quarterly Element Addition of Cobalt on Phase Transformation Characteristics of Cu-Al-Ni Shape Memory Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3528-3542.	1.1	35
40	Effect of Electrodeposition Parameters on the Microstructure and Corrosion Behavior of Zn-DCPD Coatings on Biodegradable Mg-Cu-Zn Alloy. International Journal of Applied Ceramic Technology, 2015, 12, 1054-1064.	1.1	17
41	Localised corrosion of mild steel in presence of <i>Pseudomonas aeruginosa</i> biofilm. Corrosion Engineering Science and Technology, 2015, 50, 538-546.	0.7	12
42	Microstructure and corrosion behaviour of Cu-Al-Ni shape memory alloys with Ag nanoparticles. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 527-534.	0.8	17
43	Effects of Quenching Media on Phase Transformation Characteristics and Hardness of Cu-Al-Ni-Co Shape Memory Alloys. Journal of Materials Engineering and Performance, 2015, 24, 1522-1530.	1.2	12
44	Improvement of Corrosion Resistance of Binary Mg-Ca Alloys Using Duplex Aluminum-Chromium Coatings. Journal of Materials Engineering and Performance, 2015, 24, 2614-2627.	1.2	12
45	Correlation of microstructural and corrosion characteristics of quaternary shape memory alloys Cu-Al-Ni-X (X=Mn or Ti). Transactions of Nonferrous Metals Society of China, 2015, 25, 1158-1170.	1.7	43
46	The Mechanical Properties and Corrosion Behavior of Double-Layered Nano Hydroxyapatite-Polymer Coating on Mg-Ca Alloy. Journal of Materials Engineering and Performance, 2015, 24, 4010-4021.	1.2	27
47	Microbially influenced corrosion of steels by <i>Pseudomonas aeruginosa</i> . Corrosion Reviews, 2014, 32, 129-141.	1.0	45
48	Effect of heat treatment on the microstructure and corrosion behaviour of Mg-Zn alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 999-1006.	0.8	32
49	Application of Environmentally-Friendly Coatings Toward Inhibiting the Microbially Influenced Corrosion (MIC) of Steel: A Review. Polymer Reviews, 2014, 54, 702-745.	5.3	38
50	Microstructure and bio-corrosion behavior of Mg-Zn and Mg-Zn-Ca alloys for biomedical applications. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 1178-1187.	0.8	96
51	Structure-Property Relationship of Cu-Al-Ni-Fe Shape Memory Alloys in Different Quenching Media. Journal of Materials Engineering and Performance, 2014, 23, 255-261.	1.2	33
52	Corrosion Behaviour of Carbon Steel in Sea Water Medium in Presence of <i>P. aeruginosa</i> Bacteria. Arabian Journal for Science and Engineering, 2014, 39, 6863-6870.	1.1	26
53	Influence of addition of carbon nanotubes on structure-properties of Cu-Al-Ni shape memory alloys. Materials Science and Technology, 2014, 30, 458-464.	0.8	7
54	Influence of Ti additions on the martensitic phase transformation and mechanical properties of Cu-Al-Ni shape memory alloys. Journal of Thermal Analysis and Calorimetry, 2014, 118, 111-122.	2.0	60

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55	Effects of Mn Additions on the Structure, Mechanical Properties, and Corrosion Behavior of Cu-Al-Ni Shape Memory Alloys. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3620-3629.	1.2	50
56	Mechanical and bio-corrosion properties of quaternary Mg-Ca-Mn-Zn alloys compared with binary Mg-Ca alloys. <i>Materials & Design</i> , 2014, 53, 283-292.	5.1	261
57	Synthesis and characterization of high-quality polyaniline nanofibres. <i>High Performance Polymers</i> , 2013, 25, 236-242.	0.8	8
58	Cold deformation and heat treatment influence on the microstructures and corrosion behavior of AISI 304 stainless steel. <i>Canadian Metallurgical Quarterly</i> , 2013, 52, 449-457.	0.4	11
59	Synthesis of Uniform Polyaniline Nanofibers through Interfacial Polymerization. <i>Materials</i> , 2012, 5, 1487-1494.	1.3	148
60	ADHESION STRENGTH OF TiN COATINGS AT VARIOUS ION ETCHING DEPOSITED ON TOOL STEELS USING CATHODIC ARC PVD TECHNIQUE. <i>Surface Review and Letters</i> , 2009, 16, 29-35.	0.5	6
61	MACRODROPLET REDUCTION AND GROWTH MECHANISMS IN CATHODIC ARC PHYSICAL VAPOR DEPOSITION OF TiN FILMS. <i>Surface Review and Letters</i> , 2008, 15, 653-659.	0.5	14
62	EFFECT OF COATING THICKNESS ON THE PROPERTIES OF TiN COATINGS DEPOSITED ON TOOL STEELS USING CATHODIC ARC PVD TECHNIQUE. <i>Surface Review and Letters</i> , 2008, 15, 401-410.	0.5	32
63	Creep Behavior of As-Cast Ti-48Al-2Cr Intermetallic Alloy for Aerospace and Automotive Applications. <i>Materials and Manufacturing Processes</i> , 2007, 22, 793-797.	2.7	5
64	Effect of chromium addition on microstructure, tensile properties and creep resistance of as-cast Ti-48Al alloy. <i>Journal of Materials Science</i> , 2007, 42, 9063-9069.	1.7	23