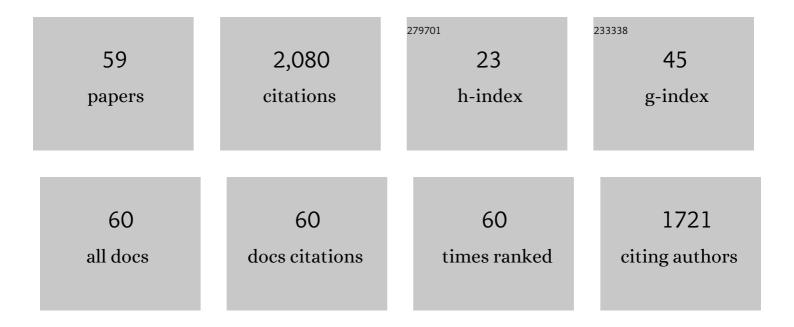
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In vitro degradation and mechanical integrity of calcium-containing magnesium alloys in modified-simulated body fluid. Biomaterials, 2008, 29, 2306-2314.	5.7	491
2	Magnesium alloys as body implants: Fracture mechanism under dynamic and static loadings in a physiological environment. Acta Biomaterialia, 2012, 8, 916-923.	4.1	157
3	A Review of Stress-Corrosion Cracking and Corrosion Fatigue of Magnesium Alloys for Biodegradable Implant Applications. Jom, 2015, 67, 1143-1153.	0.9	102
4	Graphene: The Thinnest Known Coating for Corrosion Protection. Jom, 2014, 66, 637-642.	0.9	100
5	The role of microstructure in localized corrosion of magnesium alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 2525-2531.	1.1	98
6	In-vitro characterization of stress corrosion cracking of aluminium-free magnesium alloys for temporary bio-implant applications. Materials Science and Engineering C, 2014, 42, 629-636.	3.8	88
7	Stress corrosion cracking and corrosion fatigue characterisation of MgZn1Ca0.3 (ZX10) in a simulated physiological environment. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 634-643.	1.5	66
8	Influence of bovine serum albumin in Hanks' solution on the corrosion and stress corrosion cracking of a magnesium alloy. Materials Science and Engineering C, 2017, 80, 335-345.	3.8	62
9	In vitro investigation of biodegradable polymeric coating for corrosion resistance of Mg-6Zn-Ca alloy in simulated body fluid. Materials Science and Engineering C, 2014, 42, 91-101.	3.8	60
10	Role of Nanostructure in Electrochemical Corrosion and High Temperature Oxidation: A Review. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5799-5822.	1.1	56
11	Graphene and Graphene Oxide as a Support for Biomolecules in the Development of Biosensors. Nanotechnology, Science and Applications, 2021, Volume 14, 197-220.	4.6	54
12	Influence of grain size on the oxidation resistance of 2 4 1 Cr-1Mo steel. Oxidation of Metals, 1992, 37, 1-12.	1.0	51
13	Crack Growth in a Range of Additively Manufactured Aerospace Structural Materials. Aerospace, 2018, 5, 118.	1.1	43
14	Effect of Fibers Configuration and Thickness on Tensile Behavior of GFRP Laminates Exposed to Harsh Environment. Polymers, 2019, 11, 1401.	2.0	41
15	Influence of circumferential notch and fatigue crack on the mechanical integrity of biodegradable magnesiumâ€based alloy in simulated body fluid. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 96B, 303-309.	1.6	40
16	Influence of microstructural variations in the weldment on the high-temperature corrosion of 2.25Cr-1Mo steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 1847-1858.	1.1	31
17	Influence of Zeolite Coating on the Corrosion Resistance of AZ91D Magnesium Alloy. Materials, 2014, 7, 6092-6104.	1.3	30
18	In-vitro biodegradation and corrosion-assisted cracking of a coated magnesium alloy in modified-simulated body fluid. Materials Science and Engineering C, 2017, 78, 278-287.	3.8	30

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19	Laser assisted modification of surface microstructure for localised corrosion resistance of magnesium alloys. Surface Engineering, 2007, 23, 107-111.	1.1	29
20	Bimodal grain size distribution: an effective approach for improving the mechanical and corrosion properties of Fe–Cr–Ni alloys. Journal of Materials Science, 2012, 47, 7735-7743.	1.7	29
21	A novel approach to the determination of the threshold for stress corrosion cracking (K ISCC) using round tensile specimens. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 2963-2973.	1.1	27
22	Resistance of Magnesium Alloys to Corrosion Fatigue for Biodegradable Implant Applications: Current Status and Challenges. Materials, 2017, 10, 1316.	1.3	26
23	Evaluation of caustic embrittlement susceptibility of steels by slow strain rate testing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1817-1823.	1.1	25
24	Role of microstructural degradation in the heat-affected zone of 2.25Cr-1Mo steel weldments on subscale features during steam oxidation and their role in weld failures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 577-586.	1.1	23
25	Understanding Fibre-Matrix Degradation of FRP Composites for Advanced Civil Engineering Applications: An Overview. Corrosion and Materials Degradation, 2018, 1, 27-41.	1.0	22
26	Hydrogen embrittlement of a low carbon steel during slow strain testing in chloride solutions containing sulphate reducing bacteria. Materials Science and Technology, 2005, 21, 1094-1098.	0.8	21
27	Long-Term Corrosion Protection of a Cupro-Nickel Alloy Due to Graphene Coating. Coatings, 2017, 7, 210.	1.2	21
28	On the Growth of Fatigue Cracks from Material and Manufacturing Discontinuities Under Variable Amplitude Loading. Jom, 2015, 67, 1385-1391.	0.9	20
29	Stress Corrosion Cracking of an Austenitic Stainless Steel in Nitrite-Containing Chloride Solutions. Materials, 2014, 7, 7799-7808.	1.3	18
30	Appropriate Mechanochemical Conditions for Corrosion-Fatigue Testing of Magnesium Alloys for Temporary Bioimplant Applications. Jom, 2015, 67, 1137-1142.	0.9	16
31	A Two-Step Silane Coating Incorporated with Quaternary Ammonium Silane for Mitigation of Microbial Corrosion of Mild Steel. ACS Omega, 2021, 6, 16913-16923.	1.6	16
32	Oxidation behaviour of 21/4Cr-1Mo steel with prior tempering treatments at 998 K for different durations. Journal of Materials Science, 1992, 27, 3435-3441.	1.7	15
33	Caustic stress corrosion cracking of a spheroidal graphite cast iron: laboratory investigation. Materials Science and Technology, 2003, 19, 1751-1754.	0.8	15
34	Cracking of magnesium-based biodegradable implant alloys under the combined action of stress and corrosive body fluid: a review. Emerging Materials Research, 2013, 2, 219-228.	0.4	15
35	Influence of prior-austenite grain size on the oxidation behavior of 9 wt.% cr-1 wt.% Mo steel. Oxidation of Metals, 1992, 38, 483-496.	1.0	13
36	Influence of Laser Processing Parameters on Microstructure and Corrosion Kinetics of Laser-Treated ZE41 Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2346-2357.	1.1	13

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37	Influence of variation in grain size on the oxidation behaviour of low-chromium steelsvis-�-vis that of high-chromium steels. Journal of Materials Science Letters, 1990, 9, 353-354.	0.5	12
38	Secondary ion mass spectrometry and scanning electron microscopy analysis of grain boundary oxides in 9Cr–1Mo steel and influence of grain size on scale spalling. Materials Science and Technology, 1994, 10, 27-34.	0.8	12
39	Structural Evolution during Milling, Annealing, and Rapid Consolidation of Nanocrystalline Fe–10Cr–3Al Powder. Materials, 2017, 10, 272.	1.3	10
40	Caustic stress corrosion cracking of a spheroidal graphite cast iron: characterisation of ex-service component. Materials Science and Technology, 2003, 19, 1746-1750.	0.8	9
41	Oxidation behavior of 2.25Cr-1Mo steel with prior tempering at different temperatures. Oxidation of Metals, 1993, 40, 21-36.	1.0	8
42	Circumferential Notch Tensile Testing. Journal of the Electrochemical Society, 2007, 154, C658.	1.3	8
43	Effect of tempering time on the oxidation behavior of 21/4Cr-1Mo steel. Oxidation of Metals, 1988, 30, 345-359.	1.0	7
44	Role of gaseous environment and secondary precipitation in microstructural degradation of Cr-Mo steel weldments at high temperatures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 2103-2113.	1.1	6
45	Role of Imposed Potential in Expanding the Regime of Strain Rates for Caustic Cracking. Journal of the Electrochemical Society, 2007, 154, C451.	1.3	6
46	Mechanical Alloying of Elemental Powders into Nanocrystalline (NC) Fe-Cr Alloys: Remarkable Oxidation Resistance of NC Alloys. Metals, 2021, 11, 695.	1.0	6
47	Grain size effect on the oxidation behaviour of 2 1/4 Cr-1 Mo steel. Journal of Materials Science Letters, 1989, 8, 277-278.	0.5	5
48	Durability of Fibre Reinforced Polymers in Exposure to Dual Environment of Seawater Sea Sand Concrete and Seawater. Materials, 2022, 15, 4967.	1.3	5
49	Secondary ion mass spectrometry and scanning electron microscopy characterisation of grain boundary oxide ridges in 9Cr–1Mo steels having different silicon contents, and influence of grain size on scale spalling. Materials Science and Technology, 1994, 10, 592-598.	0.8	4
50	Investigation of caustic stress corrosion cracking of a carbon steel by slow strain rate testing. Materials Science and Technology, 2003, 19, 642-644.	0.8	4
51	Circumventing Practical Difficulties in Determination of Threshold Stress Intensity for Stress Corrosion Cracking of Narrow Regions of Welded Structures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3202-3214.	1.1	4
52	Role of Surface Preparation in Corrosion Resistance Due to Silane Coatings on a Magnesium Alloy. Molecules, 2021, 26, 6663.	1.7	4
53	Distinct Advantages of Circumferential Notch Tensile (CNT) Testing in the Determination of a Threshold for Stress Corrosion Cracking (KISCC). Materials, 2021, 14, 5620.	1.3	2
54	IMPROVEMENT OF OXIDATION RESISTANCE OF METALS AND ALLOYS BY HIGH TEMPERATURE COATING AND LASER TREATMENT. Surface Engineering, 1994, 10, 141-146.	1.1	1

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55	Secondary ion mass spectroscopy and surface profilometric characterisation of oxide scales developed over weld metal,heat affected zone, and base metal regions of 9Cr-1 Mo steel weldments. Materials Science and Technology, 1998, 14, 362-366.	0.8	1
56	Revisiting Stress Corrosion Cracking of Steel in Caustic Solutions for Developing Cracking Susceptibility Diagrams for Improved Applicability. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1944-1955.	1.1	1
57	Understanding Corrosion-Assisted Cracking of Magnesium Alloys for Bioimplant Applications. , 2016, , 343-346.		Ο
58	Appropriate Corrosion-Fatigue Testing of Magnesium Alloys for Temporary Bioimplant Applications. , 2016, , 353-356.		0
59	Effect of Nanocrystalline Structure on the Oxidation Behavior of Fe–20Cr–3Al Alloy at High Temperatures. Oxidation of Metals, 2022, 97, 307.	1.0	0