Yashar Behnamian

List of Publications by Year
in descending order

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52	1,968	218677	254184
papers	citations	26 h-index	43 g-index

53	53	53	1637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tribological behavior of ZK60 magnesium matrix composite reinforced by hybrid MWCNTs/B4C prepared by stir casting method. Tribology International, 2022, 165, 107299.	5.9	27
2	Application of DOE method in evaluating for split tensile strength of slag-based boroaluminosilicate geopolymers reinforced with steel fibers. Journal of the Australian Ceramic Society, 2022, 58, 135-144.	1.9	3
3	Solution acidity and temperature induced anodic dissolution and degradation of through-plane electrical conductivity of Au/TiN coated metal bipolar plates used in PEMFC. Energy, 2022, 254, 124453.	8.8	8
4	Effect of coating parameters on microstructure, corrosion behavior, hardness and formability of hot-dip Galfan and galvanized coatings. International Journal of Materials Research, 2021, 112, 321-332.	0.3	4
5	Review of micro-scale and atomic-scale corrosion mechanisms of second phases in aluminum alloys. Transactions of Nonferrous Metals Society of China, 2021, 31, 3205-3227.	4.2	48
6	Effects of Si, Mn on the corrosion behavior of ferriticâ€“martensitic steels in supercritical water (SCW) environments. Corrosion Science, 2020, 166, 108432.	6.6	23
7	Reviewâ€”Electrochemical Probes and Sensors Designed for Time-Dependent Atmospheric Corrosion Monitoring: Fundamentals, Progress, and Challenges. Journal of the Electrochemical Society, 2020, 167, 037513.	2.9	33
8	Reviewâ€”Electrochemical Noise Applied in Corrosion Science: Theoretical and Mathematical Models towards Quantitative Analysis. Journal of the Electrochemical Society, 2020, 167, 081507.	2.9	78
9	Metal pitting corrosion characterized by scanning acoustic microscopy and binary image processing. Corrosion Science, 2020, 170, 108685.	6.6	33
10	Review-material degradation assessed by digital image processing: Fundamentals, progresses, and challenges. Journal of Materials Science and Technology, 2020, 53, 146-162.	10.7	54
11	Monododecyl Phosphate Film on LY12 Aluminum Alloy: pH-Controlled Self-Assembly and Corrosion Resistance. Journal of the Electrochemical Society, 2020, 167, 161510.	2.9	49
12	Correlation between Passivity Breakdown and Composition of Passive Film Formed on Alloy 690ÂStudied by Sputtering XPS and FIB-HRTEM. Journal of the Electrochemical Society, 2019, 166, C332-C344.	2.9	21
13	Reliability of the estimation of uniform corrosion rate of Q235B steel under simulated marine atmospheric conditions by electrochemical noise (EN) analyses. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106946.	5.0	16
14	Reviewâ€”Factors Influencing Sulfur Induced Corrosion on the Secondary Side in Pressurized Water Reactors (PWRs). Journal of the Electrochemical Society, 2019, 166, C49-C64.	2.9	42
15	Measuring atmospheric corrosion with electrochemical noise: A review of contemporary methods. Measurement: Journal of the International Measurement Confederation, 2019, 138, 54-79.	5.0	49
16	Measuring the atmospheric corrosion of Q235B and T91 steels using gray value, wavelet analysis and fuzzy Kolmogorovâ€“Sinai entropy. Anti-Corrosion Methods and Materials, 2019, 66, 621-630.	1.5	7
17	Identifying defect levels in organic coatings with electrochemical noise (EN) measured in Single Cell (SC) mode. Progress in Organic Coatings, 2019, 126, 53-61.	3.9	33
18	Sensing corrosion within an artificial defect in organic coating using SECM. Sensors and Actuators B: Chemical, 2019, 280, 235-242.	7.8	41

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19	Pitting growth rate on Alloy 800 in chloride solutions containing thiosulphate: image analysis assessment. Corrosion Engineering Science and Technology, 2018, 53, 206-213.	1.4	14
20	In-situ Study the Corrosion Degradation Mechanism of Tinplate in Salty Water by Scanning Electrochemical Microscopy. Russian Journal of Electrochemistry, 2018, 54, 216-223.	0.9	5
21	Atmospheric corrosion assessed from corrosion images using fuzzy Kolmogorovâ€“Sinai entropy. Corrosion Science, 2017, 120, 251-256.	6.6	23
22	Passivation Degradation of Alloy 800 in Boiling Solution Containing Thiosulphate. Electrochimica Acta, 2017, 233, 13-25.	5.2	16
23	Anticorrosion performance of chromized coating prepared by pack cementation in simulated solution with H2S and CO2. Applied Surface Science, 2017, 419, 197-205.	6.1	16
24	Alumina-Silica Composite Coatings on Aluminum by Plasma Electrolytic Oxidation: The Effect of Coating Time on Microstructure, Phase, and Corrosion Behavior. Journal of Materials Engineering and Performance, 2017, 26, 2663-2670.	2.5	9
25	Corrosion behavior of alloy 316L stainless steel after exposure to supercritical water at 500 Â°C for 20,000 h. Journal of Supercritical Fluids, 2017, 127, 191-199.	3.2	40
26	Characterization of oxide layer and micro-crack initiation in alloy 316L stainless steel after 20,000 h exposure to supercritical water at 500 Â°C. Materials Characterization, 2017, 131, 532-543.	4.4	16
27	Internal oxidation and crack susceptibility of alloy 310S stainless steel after long term exposure to supercritical water at 500Â°C. Journal of Supercritical Fluids, 2017, 120, 161-172.	3.2	34
28	A comparative study on the oxidation of austenitic alloys 304 and 304-oxide dispersion strengthened steel in supercritical water at 650 Â°C. Journal of Supercritical Fluids, 2017, 119, 245-260.	3.2	43
29	Pitting Corrosion Mechanism of Alloy 800 in Simulated Crevice Chemistries Containing Thiosulfate. Electrochemistry, 2016, 84, 585-596.	1.4	6
30	Brief data overview of differently heat treated binder jet printed samples made from argon atomized alloy 625 powder. Data in Brief, 2016, 9, 556-562.	1.0	11
31	Effect of solutionizing and aging on the microstructure and mechanical properties of powder bed binder jet printed nickel-based superalloy 625. Materials and Design, 2016, 111, 482-491.	7.0	69
32	Characterization of oxide scales grown on alloy 310S stainless steel after long term exposure to supercritical water at 500 Â°C. Materials Characterization, 2016, 120, 273-284.	4.4	31
33	A comparative study of oxide scales grown on stainless steel and nickel-based superalloys in ultra-high temperature supercritical water at 800 Â°C. Corrosion Science, 2016, 106, 188-207.	6.6	121
34	Molybdenum doped Pr0.5Ba0.5MnO3â¯Î´ (Mo-PBMO) double perovskite as a potential solid oxide fuel cell anode material. Journal of Power Sources, 2016, 301, 237-241.	7.8	76
35	Effect of Tricalcium Magnesium Silicate Coating on the Electrochemical and Biological Behavior of Ti-6Al-4V Alloys. PLoS ONE, 2015, 10, e0138454.	2.5	12
36	A-site deficient perovskite: the parent for in situ exsolution of highly active, regenerable nano-particles as SOFC anodes. Journal of Materials Chemistry A, 2015, 3, 11048-11056.	10.3	164

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37	Friction stir welding joint of dissimilar materials between AZ31B magnesium and 6061 aluminum alloys: Microstructure studies and mechanical characterizations. Materials Characterization, 2015, 101, 189-207.	4.4	153
38	Semiconductivity Conversion of Passive Films on Alloy 800 in Chloride Solutions Containing Various Concentrations of Thiosulfate. Journal of the Electrochemical Society, 2015, 162, C482-C486.	2.9	21
39	Electrochemical noise: a review of experimental setup, instrumentation and DC removal. Russian Journal of Electrochemistry, 2015, 51, 593-601.	0.9	73
40	Development of electroless Niâ€“P/nano-WC composite coatings and investigation on its properties. Surface and Coatings Technology, 2015, 277, 99-106.	4.8	115
41	A mechanistic study of sulfur-induced passivity degradation of Alloy 800 in a simulated alkaline crevice environment at 300 Â°C. Journal of Solid State Electrochemistry, 2015, 19, 3567-3578.	2.5	13
42	Understanding the interaction of thiosulfate with Alloy 800 in aqueous chloride solutions using SECM. Journal of Electroanalytical Chemistry, 2015, 744, 77-84.	3.8	31
43	Metallurgical investigations and corrosion behavior of failed weld joint in AISI 1518 low carbon steel pipeline. Engineering Failure Analysis, 2015, 53, 78-96.	4.0	41
44	Corrosion and biological behavior of nanostructured 316L stainless steel processed by severe plastic deformation. Surface and Interface Analysis, 2015, 47, 978-985.	1.8	24
45	A-site deficient La0.2Sr0.7TiO3â^'Î´ anode material for proton conducting ethane fuel cell to cogenerate ethylene and electricity. Journal of Power Sources, 2015, 298, 23-29.	7.8	23
46	An investigation into the dissolution characteristics of Î³ precipitates in Mg-3Al-Zn alloy. Materials Research, 2014, 17, 996-1002.	1.3	13
47	Memory effect and recoverability of passive film degradation of Alloy 800 in simulated crevice chemistry. Nuclear Engineering and Design, 2014, 280, 57-61.	1.7	3
48	pH Effect on Sulfur-Induced Passivity Degradation of Alloy 800 in Simulated Crevice Chemistries. Journal of the Electrochemical Society, 2014, 161, C201-C214.	2.9	38
49	Semiconductivity conversion of Alloy 800 in sulphate, thiosulphate, and chloride solutions. Corrosion Science, 2014, 87, 265-277.	6.6	30
50	A mechanistic study on thiosulfate-enhanced passivity degradation of Alloy 800 in chloride solutions. Electrochimica Acta, 2013, 111, 510-525.	5.2	81
51	Thermodynamics and molecular dynamics investigation of a possible new critical size for surface and inner cohesive energy of Al nanoparticles. Journal of Nanoparticle Research, 2011, 13, 6059-6067.	1.9	16
52	Electrochemical noise monitoring of the atmospheric corrosion of steels: identifying corrosion form using wavelet analysis. Corrosion Engineering Science and Technology, 0, , 1-9.	1.4	11