Ren-guo Song

List of Publications by Year in descending order

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279798 315739 1,533 51 23 38 citations h-index g-index papers 51 51 51 1195 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Stress corrosion cracking and hydrogen embrittlement of an Al–Zn–Mg–Cu alloy. Acta Materialia, 2004, 52, 4727-4743.	7.9	220
2	A study on stress corrosion cracking and hydrogen embrittlement of AZ31 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 399, 308-317.	5.6	126
3	Surface modification of TiO2 nanoparticles and its effect on the properties of fluoropolymer/TiO2 nanocomposite coatings. Applied Surface Science, 2013, 276, 761-768.	6.1	93
4	Grain boundary segregation and hydrogen-induced fracture in 7050 aluminium alloy. Acta Materialia, 1996, 44, 3241-3248.	7.9	86
5	A study on microstructure and corrosion resistance of ZrO2-containing PEO coatings formed on AZ31 Mg alloy in phosphate-based electrolyte. Applied Surface Science, 2015, 357, 1463-1471.	6.1	74
6	Effects of TiC on the microstructure and properties of TiC/TiAl composite coating prepared by laser cladding. Optics and Laser Technology, 2019, 112, 339-348.	4.6	63
7	The improvement of localized corrosion resistance in sensitized stainless steel by laser surface remelting. Surface and Coatings Technology, 1998, 102, 245-255.	4.8	60
8	Effects of current density on microstructure and properties of plasma electrolytic oxidation ceramic coatings formed on 6063 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2016, 26, 806-813.	4.2	56
9	LSP/MAO composite bio-coating on AZ80 magnesium alloy for biomedical application. Materials Science and Engineering C, 2017, 75, 1299-1304.	7. 3	52
10	The n-MAO/EPD bio-ceramic composite coating fabricated on ZK60 magnesium alloy using combined micro-arc oxidation with electrophoretic deposition. Applied Surface Science, 2014, 322, 230-235.	6.1	50
11	Microstructure and corrosion behaviour of laser-cladding Al-Ni-TiC-CeO2 composite coatings on S355 offshore steel. Journal of Alloys and Compounds, 2019, 770, 771-783.	5.5	45
12	Degradation behavior of n-MAO/EPD bio-ceramic composite coatings on magnesium alloy in simulated body fluid. Journal of Alloys and Compounds, 2015, 625, 258-265.	5 . 5	44
13	Microstructure and corrosion behaviours of composite coatings on S355 offshore steel prepared by laser cladding combined with micro-arc oxidation. Applied Surface Science, 2019, 497, 143703.	6.1	44
14	Simultaneously enhancing the tensile properties and intergranular corrosion resistance of Al–Mg–Si–Cu alloys by a thermo-mechanical treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 617, 165-174.	5.6	43
15	The improvement of corrosion resistance of fluoropolymer coatings by SiO2/poly(styrene-co-butyl) Tj ETQq1 1	1 0.784314 6.1	rgBŢ JOverlo <mark>c</mark> l
16	Hydrogen permeation resistance of plasma-sprayed Al2O3 and Al2O3–13wt.% TiO2 ceramic coatings on austenitic stainless steel. Surface and Coatings Technology, 2003, 168, 191-194.	4.8	37
17	Microstructure and corrosion resistance of Ti 3 O 5 -HA bio-ceramic coating fabricated on AZ80 magnesium alloy. Surface and Coatings Technology, 2017, 325, 239-247.	4.8	33
18	Microstructures and Properties of Laser Cladding Al-TiC-CeO2 Composite Coatings. Materials, 2018, 11, 198.	2.9	33

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19	Microstructure and properties of Al2O3/TiO2 nanostructured ceramic composite coatings prepared by plasma spraying. Journal of Alloys and Compounds, 2012, 544, 13-18.	5.5	31
20	A study on photocatalytic activity of micro-arc oxidation TiO2 films and Ag+/MAO-TiO2 composite films. Applied Surface Science, 2015, 347, 454-460.	6.1	28
21	Microstructure and mechanical properties of ceramic coatings formed on 6063 aluminium alloy by micro-arc oxidation. Transactions of Nonferrous Metals Society of China, 2015, 25, 3323-3328.	4.2	26
22	Microstructures and properties of Ni/TiC/La2O3 reinforced Al based composite coatings by laser cladding. Optics and Laser Technology, 2019, 117, 18-27.	4.6	26
23	Effects of ageing treatment on corrosion behavior of 7075 aluminum alloy coated by micro arc oxidation (MAO). Corrosion Science, 2022, 199, 110164.	6.6	25
24	Microstructure and photocatalytic property of TiO2 and Fe3+:TiO2 films produced by micro-arc oxidation. Surface and Coatings Technology, 2017, 315, 196-204.	4.8	19
25	Effects of laser surface remelting on hydrogen permeation resistance of thermally-sprayed pure aluminum coatings. Surface and Coatings Technology, 2000, 130, 20-23.	4.8	17
26	Bioceramic Coating Produced on AZ80 Magnesium Alloy by One-Step Microarc Oxidation Process. Journal of Materials Engineering and Performance, 2019, 28, 1719-1727.	2.5	17
27	Effect of solution pH on stress corrosion cracking behavior of modified AZ80 magnesium alloy in simulated body fluid. Materials Chemistry and Physics, 2021, 261, 124232.	4.0	16
28	Microstructure and Corrosion Resistance of PEO Coatings Formed on KBM10 Mg Alloy Pretreated with Nd(NO3)3. Materials, 2018, 11, 1062.	2.9	14
29	A Study on the Susceptibility to SCC of 7050 Aluminum Alloy by DCB Specimens. Materials, 2016, 9, 884.	2.9	12
30	Effect of Various Additives on Performance of Plasma Electrolytic Oxidation Coatings Formed on AZ31 Magnesium Alloy in the Phosphate Electrolytes. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 703-709.	1.0	12
31	Electron beam surface remelting of AISI D2 cold-worked die steel. Surface and Coatings Technology, 2002, 157, 1-4.	4.8	11
32	Behavior of stress corrosion cracking in a magnesium alloy. Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 111-113.	1.0	9
33	Effects of oxidation time on corrosion resistance of plasma electrolytic oxidation coatings on magnesium alloy. International Journal of Materials Research, 2017, 108, 758-766.	0.3	7
34	Effects of Aging Treatment on Intergranular Corrosion and Stress Corrosion Cracking Behavior of AA7003. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 1198-1204.	1.0	7
35	Localized Corrosion and Stress Corrosion Cracking Behavior of AA7003 in a 3.5 wt% NaCl Aqueous Solution. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 986-995.	1.0	7
36	Effects of applied potential on the stress corrosion cracking behavior of 7003 aluminum alloy in acid and alkaline chloride solutions. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 819-826.	4.9	6

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37	Correspondence between susceptibility to SCC of 7050 aluminum alloy and passive film-induced stress at various pH values. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 173-178.	1.0	6
38	Role of grain boundary segregation in corrosion fatigue process of high strength aluminium alloy. Materials Chemistry and Physics, 1996, 45, 84-87.	4.0	5
39	Electron beam surface treatment. Part II: microstructure evolution of stainless steel and aluminum alloy during electron beam rapid solidification. Vacuum, 2003, 69, 517-520.	3.5	5
40	Corrosion protection of AM50 magnesium alloy by Nafion/DMSO organic coatings. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 204-206.	1.0	4
41	MoS2 additive to the MAO Al2O3 composite coatings with enhanced mechanical performances. Materials Research Express, 2019, 6, 016543.	1.6	4
42	Effect of micro-arc oxidation coating on stress corrosion behavior of AA7050. Anti-Corrosion Methods and Materials, 2020, 67, 178-186.	1.5	4
43	Study on double peaks aging strengthening and stress corrosion cracking behaviour of 7075 aluminium alloy. Corrosion Engineering Science and Technology, 2021, 56, 668-677.	1.4	4
44	Study on the inhibition of hydrogen embrittlement of 7050 aluminum alloy in humid air by MAO coating. Anti-Corrosion Methods and Materials, 2020, 67, 387-394.	1.5	3
45	Microstructure and properties of rare earth CeO ₂ -doped graphene composite coatings prepared by MAO on AA7050. International Journal of Materials Research, 2020, 111, 923-930.	0.3	3
46	Influence of Interfacial Stress Produced by MAO on Electrochemical Corrosion and Stress Corrosion Cracking Behavior in 7075 Aluminum Alloy. Journal of the Electrochemical Society, 2022, 169, 020559.	2.9	3
47	Effects of cathodic polarization on SCC behavior of AA7003 under various aging treatments. Journal of Central South University, 2018, 25, 2299-2308.	3.0	2
48	Effect of Current Density on Microstructure and Corrosion Behavior of Plasma Electrolytic Oxidation Coated 6063 Aluminum Alloy. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 1503-1510.	1.0	1
49	Investigation of WS2-Embedded Al2O3 Coatings Prepared by Microarc Oxidation. Journal of Materials Engineering and Performance, 2020, 29, 1060-1067.	2.5	1
50	Burnt Microstructure and Properties of 7003 Aluminum Alloy. Advanced Materials Research, 0, 217-218, 1454-1457.	0.3	0
51	EFFECT OF BORATES AND SILICATES ON WEARING PROPERTIES OF MAO COATINGS. Surface Review and Letters, 2017, 24, 1750061.	1.1	0