

Dan Song

List of Publications by Year in descending order

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56
papers

1,641
citations

331670

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1255
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#	ARTICLE	IF	CITATIONS
1	Developing super-hydrophobic and corrosion-resistant coating on magnesium-lithium alloy via one-step hydrothermal processing. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 1422-1439.	11.9	20
2	Achieving ultra-fine grains and high strength of Mg-9Li alloy via room-temperature ECAP and post rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142371.	5.6	22
3	In-vitro degradation behavior and biocompatibility of superhydrophilic hydroxyapatite coating on Mg-2Zn-1Mn-1Ca-1Ce alloy. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2742-2754.	5.8	9
4	Experimental and analytical investigation on high chloride-attack resistibility of alloy corrosion-resistant steel Cr10Mo1. <i>Materials Chemistry and Physics</i> , 2022, 283, 126002.	4.0	3
5	Enhanced super-hydrophobicity and corrosion resistance of the one-step hydrothermal synthesized coating on the Mg-9Li alloy: Role of the solid-solution treated substrate. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166044.	5.5	16
6	Dual-Layer Corrosion-Resistant Conversion Coatings on Mg-9Li Alloy via Hydrothermal Synthesis in Deionized Water. <i>Metals</i> , 2021, 11, 1396.	2.3	6
7	Developing high-strength ultrafine-grained pure Al via large-pass ECAP and post cryo-rolling. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2419-2428.	5.8	16
8	Review on the Influence of Different Reinforcements on the Microstructure and Wear Behavior of Functionally Graded Aluminum Matrix Composites by Centrifugal Casting. <i>Metals and Materials International</i> , 2020, 26, 933-960.	3.4	49
9	Achieving excellent ductility in high-strength Mg-10.6Gd-2Ag alloy via equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152688.	5.5	52
10	Developing a high-strength Al-11Si alloy with improved ductility by combining ECAP and cryorolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138880.	5.6	29
11	Wear Behavior of the Multiheterostructured AZ91 Mg Alloy Prepared by ECAP and Aging. <i>Scanning</i> , 2020, 2020, 1-10.	1.5	4
12	Microstructure and deformation behavior of a novel steel rebar: Effect of the heterogeneous microstructure of soft ferrite and Hard bainite. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12281-12292.	5.8	20
13	Developing an industrial-scale ECAP Mg-Al-Zn alloy with multi-heterostructure for synchronously high strength and good ductility. <i>Materials Characterization</i> , 2020, 164, 110341.	4.4	34
14	Effect of Ultrafine Grains on the Coating Reaction and Anticorrosion Performance of Anodized Pure Aluminum. <i>Coatings</i> , 2020, 10, 216.	2.6	3
15	Stress corrosion cracking behaviors of RE-containing ME21 magnesium alloy processed by equal-channel angular pressing. <i>Journal of Rare Earths</i> , 2019, 37, 88-94.	4.8	14
16	Corrosion behavior and mechanism of Cr-Mo alloyed steel: Role of ferrite/bainite duplex microstructure. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151787.	5.5	60
17	Developing Improved Mechanical Property and Corrosion Resistance of Mg-9Li Alloy via Solid-Solution Treatment. <i>Metals</i> , 2019, 9, 920.	2.3	16
18	Promoted Anodizing Reaction and Enhanced Coating Performance of Al-11Si Alloy: The Role of an Equal-Channel-Angular-Pressed Substrate. <i>Materials</i> , 2019, 12, 3255.	2.9	7

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19	Surface Modification of Rusted Rebar and Enhanced Passivation/Anticorrosion Performance in Simulated Concrete Pore Solutions with Different Alkalinity. <i>Metals</i> , 2019, 9, 1050.	2.3	6
20	Simultaneously improving corrosion resistance and mechanical properties of a magnesium alloy via equal-channel angular pressing and post water annealing. <i>Materials and Design</i> , 2019, 166, 107621.	7.0	97
21	Effect of Main Parameters on the Mechanical and Wear Behaviour of Functionally Graded Materials by Centrifugal Casting: A Review. <i>Metals and Materials International</i> , 2019, 25, 1395-1409.	3.4	57
22	High Mechanical Properties of AZ91 Mg Alloy Processed by Equal Channel Angular Pressing and Rolling. <i>Metals</i> , 2019, 9, 386.	2.3	9
23	Development of a High Strength Mg-9Li Alloy via Multi-Pass ECAP and Post-Rolling. <i>Metals</i> , 2019, 9, 1008.	2.3	9
24	Enhanced quasi-isotropic ductility in bi-textured AZ91 Mg alloy processed by up-scaled RD-ECAP processing. <i>Journal of Alloys and Compounds</i> , 2019, 780, 443-451.	5.5	49
25	Simultaneously improving mechanical properties and corrosion resistance of pure Ti by continuous ECAP plus short-duration annealing. <i>Materials Characterization</i> , 2018, 138, 38-47.	4.4	51
26	Effect of Surface Nanocrystallization on Corrosion Resistance of the Conformed Cu-0.4%Mg Alloy in NaCl Solution. <i>Metals</i> , 2018, 8, 765.	2.3	4
27	Multimodal Microstructure and Mechanical Properties of AZ91 Mg Alloy Prepared by Equal Channel Angular Pressing plus Aging. <i>Metals</i> , 2018, 8, 763.	2.3	33
28	Rebuilding the Strain Hardening at a Large Strain in Twinned Au Nanowires. <i>Nanomaterials</i> , 2018, 8, 848.	4.1	8
29	Development of High-Performance Enamel Coating on Grey Iron by Low-Temperature Sintering. <i>Materials</i> , 2018, 11, 2183.	2.9	15
30	Tuning the Friction of Silicon Surfaces Using Nanopatterns at the Nanoscale. <i>Coatings</i> , 2018, 8, 7.	2.6	8
31	Enhanced passivation of alloy corrosion-resistant steel Cr10Mo1 under carbonation " Passive film formation, the kinetics and mechanism analysis. <i>Cement and Concrete Composites</i> , 2018, 92, 178-187.	10.7	28
32	Enhanced Impact Toughness at Ambient Temperatures of Ultrafine-Grained Al-26Åwt.% Si Alloy Produced by Equal-Channel Angular Pressing. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 2131-2137.	2.5	6
33	Effect of chromium micro-alloying on the corrosion behavior of a low-carbon steel rebar in simulated concrete pore solutions. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 1453-1463.	1.0	8
34	A Critical Review of Mg-Based Hydrogen Storage Materials Processed by Equal Channel Angular Pressing. <i>Metals</i> , 2017, 7, 324.	2.3	45
35	Stress Corrosion Cracking Behavior of Fine-Grained AZ61 Magnesium Alloys Processed by Equal-Channel Angular Pressing. <i>Metals</i> , 2017, 7, 343.	2.3	11
36	Size Effect and Deformation Mechanism in Twinned Copper Nanowires. <i>Metals</i> , 2017, 7, 438.	2.3	6

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37	Decreasing Bio-Degradation Rate of the Hydrothermal-Synthesizing Coated Mg Alloy via Pre-Solid-Solution Treatment. <i>Materials</i> , 2017, 10, 858.	2.9	8
38	Preparation, Microstructure Evolutions, and Mechanical Property of an Ultra-Fine Grained Mg-10Gd-4Y-1.5Zn-0.5Zr Alloy. <i>Metals</i> , 2017, 7, 398.	2.3	23
39	Effect of Synthesizing Temperature on Microstructure and Electrochemical Property of the Hydrothermal Conversion Coating on Mg-2Zn-0.5Mn-Ca-Ce Alloy. <i>Metals</i> , 2016, 6, 44.	2.3	14
40	Passivation Characteristics of Alloy Corrosion-Resistant Steel Cr10Mo1 in Simulating Concrete Pore Solutions: Combination Effects of pH and Chloride. <i>Materials</i> , 2016, 9, 749.	2.9	39
41	Biodegradable Behaviors of Ultrafine-Grained ZE41A Magnesium Alloy in DMEM Solution. <i>Metals</i> , 2016, 6, 3.	2.3	16
42	Formation and Corrosion Resistance of Micro-Arc Oxidation Coating on Equal-Channel Angular Pressed AZ91D Mg Alloy. <i>Metals</i> , 2016, 6, 308.	2.3	7
43	Microstructure Characteristic and Electrochemical Corrosion Behavior of Surface Nano-crystallization Modified Carbon Steel. <i>Journal of Iron and Steel Research International</i> , 2016, 23, 1281-1289.	2.8	11
44	Hydrothermal synthesis and corrosion behavior of the protective coating on Mg-2Zn-Mn-Ca-Ce alloy. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 590-599.	4.4	27
45	Corrosion Behavior of Cr Micro-alloyed Corrosion-resistant Rebar in Neutral Cl ⁻ -containing Environment. <i>Journal of Iron and Steel Research International</i> , 2016, 23, 608-617.	2.8	11
46	Passive behaviour of alloy corrosion-resistant steel Cr10Mo1 in simulating concrete pore solutions with different pH. <i>Applied Surface Science</i> , 2016, 389, 1126-1136.	6.1	71
47	Improving in-vitro biocorrosion resistance of Mg-Zn-Mn-Ca alloy in Hank's solution through addition of cerium. <i>Journal of Rare Earths</i> , 2015, 33, 93-101.	4.8	25
48	Dynamic Compression Properties of an Ultrafine-Grained Al-26Åwt.% Si Alloy Fabricated by Equal-Channel Angular Pressing. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2016-2024.	2.5	12
49	Grain Refinement and High-Performance of Equal-Channel Angular Pressed Cu-Mg Alloy for Electrical Contact Wire. <i>Metals</i> , 2014, 4, 586-596.	2.3	19
50	Improved corrosion resistance in simulated concrete pore solution of surface nanocrystallized rebar fabricated by wire-brushing. <i>Corrosion Science</i> , 2014, 82, 437-441.	6.6	51
51	Enhanced biodegradation behavior of ultrafine-grained ZE41A magnesium alloy in Hank's solution. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 420-424.	4.4	17
52	Anticorrosion behavior of ultrafine-grained Al-26Åwt% Si alloy fabricated by ECAP. <i>Journal of Materials Science</i> , 2012, 47, 7744-7750.	3.7	35
53	Corrosion behavior of equal-channel-angular-pressed pure magnesium in NaCl aqueous solution. <i>Corrosion Science</i> , 2010, 52, 481-490.	6.6	331
54	Corrosion behavior of hypereutectic Al-23%Si alloy (AC9A) processed by severe plastic deformation. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 195-200.	4.2	18

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55	Improving corrosion resistance of RE-containing magnesium alloy ZE41A through ECAP. Journal of Rare Earths, 2009, 27, 848-852.	4.8	73
56	Recent Studies of Surface Self-Nanocrystallization (SSNC) of Metallic Materials. Materials Science Forum, 0, 956, 160-168.	0.3	3