Dan Song

List of Publications by Year
in descending order

56	1,641	331670 21	315739 38
papers	citations	h-index	g-index

56	56	56	1255
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Corrosion behavior of equal-channel-angular-pressed pure magnesium in NaCl aqueous solution. Corrosion Science, 2010, 52, 481-490.	6.6	331
2	Simultaneously improving corrosion resistance and mechanical properties of a magnesium alloy via equal-channel angular pressing and post water annealing. Materials and Design, 2019, 166, 107621.	7.0	97
3	Improving corrosion resistance of RE-containing magnesium alloy ZE41A through ECAP. Journal of Rare Earths, 2009, 27, 848-852.	4.8	73
4	Passive behaviour of alloy corrosion-resistant steel Cr10Mo1 in simulating concrete pore solutions with different pH. Applied Surface Science, 2016, 389, 1126-1136.	6.1	71
5	Corrosion behavior and mechanism of Crâ€“Mo alloyed steel: Role of ferrite/bainite duplex microstructure. Journal of Alloys and Compounds, 2019, 809, 151787.	5.5	60
6	Effect of Main Parameters on the Mechanical and Wear Behaviour of Functionally Graded Materials by Centrifugal Casting: A Review. Metals and Materials International, 2019, 25, 1395-1409.	3.4	57
7	Achieving excellent ductility in high-strength Mg-10.6Gd-2â€˜Ag alloy via equal channel angular pressing. Journal of Alloys and Compounds, 2020, 817, 152688.	5.5	52
8	Improved corrosion resistance in simulated concrete pore solution of surface nanocrystallized rebar fabricated by wire-brushing. Corrosion Science, 2014, 82, 437-441.	6.6	51
9	Simultaneously improving mechanical properties and corrosion resistance of pure Ti by continuous ECAP plus short-duration annealing. Materials Characterization, 2018, 138, 38-47.	4.4	51
10	Enhanced quasi-isotropic ductility in bi-textured AZ91 Mg alloy processed by up-scaled RD-ECAP processing. Journal of Alloys and Compounds, 2019, 780, 443-451.	5.5	49
11	Review on the Influence of Different Reinforcements on the Microstructure and Wear Behavior of Functionally Graded Aluminum Matrix Composites by Centrifugal Casting. Metals and Materials International, 2020, 26, 933-960.	3.4	49
12	A Critical Review of Mg-Based Hydrogen Storage Materials Processed by Equal Channel Angular Pressing. Metals, 2017, 7, 324.	2.3	45
13	Passivation Characteristics of Alloy Corrosion-Resistant Steel Cr10Mo1 in Simulating Concrete Pore Solutions: Combination Effects of pH and Chloride. Materials, 2016, 9, 749.	2.9	39
14	Anticorrosion behavior of ultrafine-grained Al-26Âwt% Si alloy fabricated by ECAP. Journal of Materials Science, 2012, 47, 7744-7750.	3.7	35
15	Developing an industrial-scale ECAP Mg-Al-Zn alloy with multi-heterostructure for synchronously high strength and good ductility. Materials Characterization, 2020, 164, 110341.	4.4	34
16	Multimodal Microstructure and Mechanical Properties of AZ91 Mg Alloy Prepared by Equal Channel Angular Pressing plus Aging. Metals, 2018, 8, 763.	2.3	33
17	Developing a high-strength Alâ€“11Si alloy with improved ductility by combining ECAP and cryorolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138880.	5.6	29
18	Enhanced passivation of alloy corrosion-resistant steel Cr10Mo1 under carbonation â€” Passive film formation, the kinetics and mechanism analysis. Cement and Concrete Composites, 2018, 92, 178-187.	10.7	28

#	Article	IF	Citations
19	Hydrothermal synthesis and corrosion behavior of the protective coating on Mg-2Zn-Mn-Ca-Ce alloy. Progress in Natural Science: Materials International, 2016, 26, 590-599.	4.4	27
20	Improving in-vitro biocorrosion resistance of Mg-Zn-Mn-Ca alloy in Hank's solution through addition of cerium. Journal of Rare Earths, 2015, 33, 93-101.	4.8	25
21	Preparation, Microstructure Evolutions, and Mechanical Property of an Ultra-Fine Grained Mg-10Gd-4Y-1.5Zn-0.5Zr Alloy. Metals, 2017, 7, 398.	2.3	23
22	Achieving ultra-fine grains and high strength of Mgâ€“9Li alloy via room-temperature ECAP and post rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142371.	5.6	22
23	Microstructure and deformation behavior of a novel steel rebar: Effect of the heterogeneous microstructure of soft ferrite and Hard bainite. Journal of Materials Research and Technology, 2020, 9, 12281-12292.	5.8	20
24	Developing super-hydrophobic and corrosion-resistant coating on magnesium-lithium alloy via one-step hydrothermal processing. Journal of Magnesium and Alloys, 2023, 11, 1422-1439.	11.9	20
25	Grain Refinement and High-Performance of Equal-Channel Angular Pressed Cu-Mg Alloy for Electrical Contact Wire. Metals, 2014, 4, 586-596.	2.3	19
26	Corrosion behavior of hypereutectic Al-23%Si alloy (AC9A) processed by severe plastic deformation. Transactions of Nonferrous Metals Society of China, 2010, 20, 195-200.	4.2	18
27	Enhanced biodegradation behavior of ultrafine-grained ZE41A magnesium alloy in Hank's solution. Progress in Natural Science: Materials International, 2013, 23, 420-424.	4.4	17
28	Biodegradable Behaviors of Ultrafine-Grained ZE41A Magnesium Alloy in DMEM Solution. Metals, 2016, 6, 3.	2.3	16
29	Developing Improved Mechanical Property and Corrosion Resistance of Mg-9Li Alloy via Solid-Solution Treatment. Metals, 2019, 9, 920.	2.3	16
30	Developing high-strength ultrafine-grained pure Al via large-pass ECAP and post cryo-rolling. Journal of Materials Research and Technology, 2021, 15, 2419-2428.	5.8	16
31	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. Journal of Alloys and Compounds, 2022, 921, 166044.	5.5	16
32	Development of High-Performance Enamel Coating on Grey Iron by Low-Temperature Sintering. Materials, 2018, 11, 2183.	2.9	15
33	Effect of Synthesizing Temperature on Microstructure and Electrochemical Property of the Hydrothermal Conversion Coating on Mg-2Zn-0.5Mn-Ca-Ce Alloy. Metals, 2016, 6, 44.	2.3	14
34	Stress corrosion cracking behaviors of RE-containing ME21 magnesium alloy processed by equal-channel angular pressing. Journal of Rare Earths, 2019, 37, 88-94.	4.8	14
35	Dynamic Compression Properties of an Ultrafine-Grained Al-26Âwt.% Si Alloy Fabricated by Equal-Channel Angular Pressing. Journal of Materials Engineering and Performance, 2015, 24, 2016-2024.	2.5	12
36	Microstructure Characteristic and Electrochemical Corrosion Behavior of Surface Nano-crystallization Modified Carbon Steel. Journal of Iron and Steel Research International, 2016, 23, 1281-1289.	2.8	11

#	Article	IF	Citations
37	Corrosion Behavior of Cr Micro-alloyed Corrosion-resistant Rebar in Neutral Clâ¯-containing Environment. Journal of Iron and Steel Research International, 2016, 23, 608-617.	2.8	11
38	Stress Corrosion Cracking Behavior of Fine-Grained AZ61 Magnesium Alloys Processed by Equal-Channel Angular Pressing. Metals, 2017, 7, 343.	2.3	11
39	High Mechanical Properties of AZ91 Mg Alloy Processed by Equal Channel Angular Pressing and Rolling. Metals, 2019, 9, 386.	2.3	9
40	Development of a High Strength Mg-9Li Alloy via Multi-Pass ECAP and Post-Rolling. Metals, 2019, 9, 1008.	2.3	9
41	In-vitro degradation behavior and biocompatibility of superhydrophilic hydroxyapatite coating on Mgâ€“2Znâ€“Mnâ€“Caâ€“Ce alloy. Journal of Materials Research and Technology, 2022, 17, 2742-2754.	5.8	9
42	Effect of chromium micro-alloying on the corrosion behavior of a low-carbon steel rebar in simulated concrete pore solutions. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1453-1463.	1.0	8
43	Decreasing Bio-Degradation Rate of the Hydrothermal-Synthesizing Coated Mg Alloy via Pre-Solid-Solution Treatment. Materials, 2017, 10, 858.	2.9	8
44	Rebuilding the Strain Hardening at a Large Strain in Twinned Au Nanowires. Nanomaterials, 2018, 8, 848.	4.1	8
45	Tuning the Friction of Silicon Surfaces Using Nanopatterns at the Nanoscale. Coatings, 2018, 8, 7.	2.6	8
46	Formation and Corrosion Resistance of Micro-Arc Oxidation Coating on Equal-Channel Angular Pressed AZ91D Mg Alloy. Metals, 2016, 6, 308.	2.3	7
47	Promoted Anodizing Reaction and Enhanced Coating Performance of Alâ€“11Si Alloy: The Role of an Equal-Channel-Angular-Pressed Substrate. Materials, 2019, 12, 3255.	2.9	7
48	Size Effect and Deformation Mechanism in Twinned Copper Nanowires. Metals, 2017, 7, 438.	2.3	6
49	Enhanced Impact Toughness at Ambient Temperatures of Ultrafine-Grained Al-26Âwt.% Si Alloy Produced by Equal-Channel Angular Pressing. Journal of Materials Engineering and Performance, 2018, 27, 2131-2137.	2.5	6
50	Surface Modification of Rusted Rebar and Enhanced Passivation/Anticorrosion Performance in Simulated Concrete Pore Solutions with Different Alkalinity. Metals, 2019, 9, 1050.	2.3	6
51	Dual-Layer Corrosion-Resistant Conversion Coatings on Mg-9Li Alloy via Hydrothermal Synthesis in Deionized Water. Metals, 2021, 11, 1396.	2.3	6
52	Effect of Surface Nanocrystallization on Corrosion Resistance of the Conformed Cu-0.4%Mg Alloy in NaCl Solution. Metals, 2018, 8, 765.	2.3	4
53	Wear Behavior of the Multiheterostructured AZ91 Mg Alloy Prepared by ECAP and Aging. Scanning, 2020, 2020, 1-10.	1.5	4
54	Recent Studies of Surface Self-Nanocrystallization (SSNC) of Metallic Materials. Materials Science Forum, 0, 956, 160-168.	0.3	3

#	Article	IF	Citations
55	Effect of Ultrafine Grains on the Coating Reaction and Anticorrosion Performance of Anodized Pure Aluminum. Coatings, 2020, 10, 216.	2.6	3
56	Experimental and analytical investigation on high chloride-attack resistibility of alloy corrosion-resistant steel Cr10Mo1. Materials Chemistry and Physics, 2022, 283, 126002.	4.0	3