

Kewei Gao

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,727
citations

279701

23
h-index

276775

41
g-index

54
all docs

54
docs citations

54
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Discussion of the CO ₂ corrosion mechanism between low partial pressure and supercritical condition. <i>Corrosion Science</i> , 2012, 59, 186-197.	3.0	160
2	In situ grown superhydrophobic Zn-Al layered double hydroxides films on magnesium alloy to improve corrosion properties. <i>Applied Surface Science</i> , 2015, 337, 172-177.	3.1	125
3	Mechanical properties of CO ₂ corrosion product scales and their relationship to corrosion rates. <i>Corrosion Science</i> , 2008, 50, 2796-2803.	3.0	115
4	Effect of small amount of H ₂ S on the corrosion behavior of carbon steel in the dynamic supercritical CO ₂ environments. <i>Corrosion Science</i> , 2016, 103, 132-144.	3.0	108
5	Formation mechanism and protective property of corrosion product scale on X70 steel under supercritical CO ₂ environment. <i>Corrosion Science</i> , 2015, 100, 404-420.	3.0	101
6	Design and fabrication of enhanced corrosion resistance Zn-Al layered double hydroxides films based anion-exchange mechanism on magnesium alloys. <i>Applied Surface Science</i> , 2017, 404, 246-253.	3.1	95
7	Corrosion of low alloy steel and stainless steel in supercritical CO ₂ /H ₂ O/H ₂ S systems. <i>Corrosion Science</i> , 2016, 111, 637-648.	3.0	78
8	One-Step in Situ Synthesis of Reduced Graphene Oxide/Zn-Al Layered Double Hydroxide Film for Enhanced Corrosion Protection of Magnesium Alloys. <i>Langmuir</i> , 2019, 35, 6312-6320.	1.6	63
9	Effect of flow rate on localized corrosion of X70 steel in supercritical CO ₂ environments. <i>Corrosion Science</i> , 2018, 136, 339-351.	3.0	55
10	Corrosion rate prediction and influencing factors evaluation of low-alloy steels in marine atmosphere using machine learning approach. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 359-370.	2.8	55
11	Microstructure and mechanical properties of chromium oxide coatings. <i>Journal of Materials Research</i> , 2007, 22, 3531-3537.	1.2	54
12	Effects of alloyed Cr and Cu on the corrosion behavior of low-alloy steel in a simulated groundwater solution. <i>Corrosion Science</i> , 2016, 102, 114-124.	3.0	54
13	Cd-doping a facile approach for better thermoelectric transport properties of BiCuSeO oxyselenides. <i>RSC Advances</i> , 2016, 6, 33789-33797.	1.7	48
14	Investigation of microstructure and mechanical properties of multi-layer Cr/Cr ₂ O ₃ coatings. <i>Thin Solid Films</i> , 2009, 517, 1922-1927.	0.8	44
15	A novel observation of the interaction between the macroelastic stress and electrochemical corrosion of low carbon steel in 3.5wt% NaCl solution. <i>Electrochimica Acta</i> , 2012, 85, 283-294.	2.6	44
16	The relationship between fracture toughness of CO ₂ corrosion scale and corrosion rate of X65 pipeline steel under supercritical CO ₂ condition. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 1643-1650.	2.3	41
17	The Regular Interaction Pattern among Odorants of the Same Type and Its Application in Odor Intensity Assessment. <i>Sensors</i> , 2017, 17, 1624.	2.1	40
18	Corrosion of low alloy steel containing 0.5% chromium in supercritical CO ₂ -saturated brine and water-saturated supercritical CO ₂ environments. <i>Applied Surface Science</i> , 2018, 440, 524-534.	3.1	40

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19	Residual Stress and Surface Energy of Sputtered TiN Films. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1185-1191.	1.2	39
20	Stress corrosion cracking relation with dezincification layer-induced stress. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001, 32, 1309-1312.	1.1	32
21	The effect of ion implantation on tribology and hot rolling contact fatigue of Cr4Mo4Ni4V bearing steel. <i>Applied Surface Science</i> , 2014, 305, 93-100.	3.1	31
22	Interface and Strain Energy Revolution Texture Map To Predict Structure and Optical Properties of Sputtered PbSe Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 625-633.	4.0	29
23	Effect of exposure angle on the corrosion behavior of X70 steel under supercritical CO ₂ and gaseous CO ₂ environments. <i>Corrosion Science</i> , 2017, 121, 57-71.	3.0	28
24	Understanding the general and localized corrosion mechanisms of Cr-containing steels in supercritical CO ₂ -saturated aqueous environments. <i>Journal of Alloys and Compounds</i> , 2019, 792, 328-340.	2.8	25
25	Corrosion behaviors of steels under supercritical CO ₂ conditions. <i>Corrosion Reviews</i> , 2015, 33, 151-174.	1.0	24
26	Residual stress control in CrAlN coatings deposited on Ti alloys. <i>Ceramics International</i> , 2018, 44, 4653-4659.	2.3	18
27	Pronounced effect of ZnTe nano-inclusions on thermoelectric properties of Cu _{2-x} Se chalcogenides. <i>Science China Materials</i> , 2016, 59, 135-143.	3.5	17
28	Failure analysis of the oil transport spiral welded pipe. <i>Engineering Failure Analysis</i> , 2012, 25, 169-174.	1.8	15
29	AlTiN layer effect on mechanical properties of Ti-doped diamond-like carbon composite coatings. <i>Thin Solid Films</i> , 2011, 519, 5353-5357.	0.8	14
30	Annealing effects on microstructure and mechanical properties of sputtered multilayer Cr(1-x)AlxN films. <i>Thin Solid Films</i> , 2011, 519, 5831-5837.	0.8	14
31	TiN-Coating Effects on Stainless Steel Tribological Behavior Under Dry and Lubricated Conditions. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1263-1269.	1.2	13
32	Analysis of Environmental Factors Affecting the Atmospheric Corrosion Rate of Low-Alloy Steel Using Random Forest-Based Models. <i>Materials</i> , 2020, 13, 3266.	1.3	12
33	Corrosion-enhanced dislocation emission and motion resulting in initiation of stress corrosion cracking. <i>Science in China Series D: Earth Sciences</i> , 1997, 40, 235-242.	0.9	10
34	Investigation of stress corrosion cracking under anodic dissolution control. <i>Science Bulletin</i> , 2001, 46, 717-722.	1.7	10
35	Adhesion of Sputtered Nickel Films on Polycarbonate Substrates. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 786-790.	1.2	10
36	Thickness effects on optical and photoelectric properties of PbSeTeO quaternary thin films prepared by magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7873-7881.	1.1	8

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37	Fracture Toughness and Adhesion of Transparent Al:ZnO Films Deposited on Glass Substrates. Journal of Materials Engineering and Performance, 2013, 22, 3161-3167.	1.2	7
38	Annealing temperature effects on optical and photoelectric properties of sputtered indium-doped PbSe thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 1670-1678.	1.1	6
39	Effect of 2D nanocrystalline ZnAl-LDHs films with different orientations on anticorrosion performance of magnesium alloys. Materials Letters, 2021, 293, 129708.	1.3	6
40	Study of Thermal Stress Fluctuations at the Die-Attach Solder Interface Using the Finite Element Method. Electronics (Switzerland), 2022, 11, 62.	1.8	6
41	Corrosion behaviors of the exposed side and underside of low alloy weathering steel in Qingdao and Wanning for 18 months. Acta Metallurgica Sinica (English Letters), 2008, 21, 425-436.	1.5	5
42	Applications and Thermodynamic Analysis of Equilibrium Solution for Secondary Phases in Ti-N-C Gear Steel System with Nano-Particles. Metals, 2017, 7, 110.	1.0	5
43	Tribo-corrosion and Albumin Attachment of Nitrogen Ion-Implanted CoCrMo Alloy During Friction Onset. Journal of Materials Engineering and Performance, 2019, 28, 363-371.	1.2	5
44	Fracture mechanism of TiAl intermetallics caused by hydride and atomic hydrogen. Science in China Series D: Earth Sciences, 1999, 42, 511-520.	0.9	3
45	Microstructure and mechanical properties of Ti/AlTiN/Ti-diamondlike carbon composite coatings on steel. Journal of Materials Research, 2010, 25, 2159-2165.	1.2	3
46	Effects of anions on corrosion behaviour of carbon steel in simulated groundwater in China. Corrosion Engineering Science and Technology, 2017, 52, 84-89.	0.7	3
47	Interface Stability in Diffusion Couple of L1 ₀ type TiAl and L1 ₂ type (Al) ₃ Ti	0.4	2
48	Enhanced Electro-Magnetic Wave Absorbing Properties of Fe ₃ O ₄ -Polyaniline Nano-Composites. Science of Advanced Materials, 2021, 13, 938-943.	0.1	2
49	High-throughput technique for stress corrosion cracking susceptibility measurements based on film-induced stress. Vacuum, 2022, 203, 111275.	1.6	2
50	Synthesis and Enhanced Electro-Magnetic Wave Absorbing Properties of Reduced Graphene Oxide-Fe ₃ O ₄ -Polyaniline Ternary Nano-Composites. Science of Advanced Materials, 2021, 13, 473-480.	0.1	1
51	Achieving Low Yield Ratio in High-Strength Steel by Tuning Multiple Microstructures. Steel Research International, 0, , 2100415.	1.0	1
52	Stress corrosion cracking and its anisotropy of a PZT ferroelectric ceramics. Science Bulletin, 2003, 48, 1203-1206.	1.7	0