

# Kewei Gao

## List of Publications by Year in descending order

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52  
papers

1,727  
citations

279701

23  
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docs citations

54  
times ranked

1356  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of Thermal Stress Fluctuations at the Die-Attach Solder Interface Using the Finite Element Method. <i>Electronics (Switzerland)</i> , 2022, 11, 62.	1.8	6
2	High-throughput technique for stress corrosion cracking susceptibility measurements based on film-induced stress. <i>Vacuum</i> , 2022, 203, 111275.	1.6	2
3	Synthesis and Enhanced Electro-Magnetic Wave Absorbing Properties of Reduced Graphene Oxide-Fe <sub>3</sub> O <sub>4</sub> -Polyaniline Ternary Nano-Composites. <i>Science of Advanced Materials</i> , 2021, 13, 473-480.	0.1	1
4	Enhanced Electro-Magnetic Wave Absorbing Properties of Fe <sub>3</sub> O <sub>4</sub> -Polyaniline Nano-Composites. <i>Science of Advanced Materials</i> , 2021, 13, 938-943.	0.1	2
5	Effect of 2D nanocrystalline ZnAl-LDHs films with different orientations on anticorrosion performance of magnesium alloys. <i>Materials Letters</i> , 2021, 293, 129708.	1.3	6
6	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
7	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
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	Understanding the general and localized corrosion mechanisms of Cr-containing steels in supercritical CO <sub>2</sub> -saturated aqueous environments. <i>Journal of Alloys and Compounds</i> , 2019, 792, 328-340.	2.8	25
10	Tribo-corrosion and Albumin Attachment of Nitrogen Ion-Implanted CoCrMo Alloy During Friction Onset. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 363-371.	1.2	5
11	Residual stress control in CrAlN coatings deposited on Ti alloys. <i>Ceramics International</i> , 2018, 44, 4653-4659.	2.3	18
12	Corrosion of low alloy steel containing 0.5% chromium in supercritical CO <sub>2</sub> -saturated brine and water-saturated supercritical CO <sub>2</sub> environments. <i>Applied Surface Science</i> , 2018, 440, 524-534.	3.1	40
13	Effect of flow rate on localized corrosion of X70 steel in supercritical CO <sub>2</sub> environments. <i>Corrosion Science</i> , 2018, 136, 339-351.	3.0	55
14	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
15	Effect of exposure angle on the corrosion behavior of X70 steel under supercritical CO <sub>2</sub> and gaseous CO <sub>2</sub> environments. <i>Corrosion Science</i> , 2017, 121, 57-71.	3.0	28
16	Effects of anions on corrosion behaviour of carbon steel in simulated groundwater in China. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 84-89.	0.7	3
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	Applications and Thermodynamic Analysis of Equilibrium Solution for Secondary Phases in Ti-Ni-C Gear Steel System with Nano-Particles. <i>Metals</i> , 2017, 7, 110.	1.0	5

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19	Pronounced effect of ZnTe nanoinclusions on thermoelectric properties of $\text{Cu}_{2-x}\text{Se}$ chalcogenides. <i>Science China Materials</i> , 2016, 59, 135-143.	3.5	17
20	Annealing temperature effects on optical and photoelectric properties of sputtered indium-doped PbSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1670-1678.	1.1	6
21	Corrosion of low alloy steel and stainless steel in supercritical $\text{CO}_2/\text{H}_2\text{O}/\text{H}_2\text{S}$ systems. <i>Corrosion Science</i> , 2016, 111, 637-648.	3.0	78
22	Interface and Strain Energy Revolution Texture Map To Predict Structure and Optical Properties of Sputtered PbSe Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 625-633.	4.0	29
23	Effect of small amount of $\text{H}_2\text{S}$ on the corrosion behavior of carbon steel in the dynamic supercritical $\text{CO}_2$ environments. <i>Corrosion Science</i> , 2016, 103, 132-144.	3.0	108
24	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
25	Cd-doping a facile approach for better thermoelectric transport properties of $\text{BiCuSeO}$ oxyselenides. <i>RSC Advances</i> , 2016, 6, 33789-33797.	1.7	48
26	Residual Stress and Surface Energy of Sputtered TiN Films. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1185-1191.	1.2	39
27	In situ grown superhydrophobic $\text{Zn-Al}$ layered double hydroxides films on magnesium alloy to improve corrosion properties. <i>Applied Surface Science</i> , 2015, 337, 172-177.	3.1	125
28	Corrosion behaviors of steels under supercritical $\text{CO}_2$ conditions. <i>Corrosion Reviews</i> , 2015, 33, 151-174.	1.0	24
29	Thickness effects on optical and photoelectric properties of $\text{PbSeTeO}$ quaternary thin films prepared by magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7873-7881.	1.1	8
30	Formation mechanism and protective property of corrosion product scale on X70 steel under supercritical $\text{CO}_2$ environment. <i>Corrosion Science</i> , 2015, 100, 404-420.	3.0	101
31	Adhesion of Sputtered Nickel Films on Polycarbonate Substrates. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 786-790.	1.2	10
32	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
33	The effect of ion implantation on tribology and hot rolling contact fatigue of $\text{Cr}_4\text{Mo}_4\text{Ni}_4\text{V}$ bearing steel. <i>Applied Surface Science</i> , 2014, 305, 93-100.	3.1	31
34	Fracture Toughness and Adhesion of Transparent $\text{Al:ZnO}$ Films Deposited on Glass Substrates. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3161-3167.	1.2	7
35	Discussion of the $\text{CO}_2$ corrosion mechanism between low partial pressure and supercritical condition. <i>Corrosion Science</i> , 2012, 59, 186-197.	3.0	160
36	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

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37	Failure analysis of the oil transport spiral welded pipe. <i>Engineering Failure Analysis</i> , 2012, 25, 169-174.	1.8	15
38	The relationship between fracture toughness of CO <sub>2</sub> corrosion scale and corrosion rate of X65 pipeline steel under supercritical CO <sub>2</sub> condition. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 1643-1650.	2.3	41
39	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
40	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
41	Microstructure and mechanical properties of Ti/AlTiN/Ti-diamondlike carbon composite coatings on steel. <i>Journal of Materials Research</i> , 2010, 25, 2159-2165.	1.2	3
42	Investigation of microstructure and mechanical properties of multi-layer Cr/Cr <sub>2</sub> O <sub>3</sub> coatings. <i>Thin Solid Films</i> , 2009, 517, 1922-1927.	0.8	44
43	Mechanical properties of CO <sub>2</sub> corrosion product scales and their relationship to corrosion rates. <i>Corrosion Science</i> , 2008, 50, 2796-2803.	3.0	115
44	Corrosion behaviors of the exposed side and underside of low alloy weathering steel in Qingdao and Wanning for 18 months. <i>Acta Metallurgica Sinica (English Letters)</i> , 2008, 21, 425-436.	1.5	5
45	Microstructure and mechanical properties of chromium oxide coatings. <i>Journal of Materials Research</i> , 2007, 22, 3531-3537.	1.2	54
46	Stress corrosion cracking and its anisotropy of a PZT ferroelectric ceramics. <i>Science Bulletin</i> , 2003, 48, 1203-1206.	1.7	0
47	Interface Stability in Diffusion Couple of L1 <sub>0</sub> type TiAl and L1 <sub>2</sub> type (Al) <sub>3</sub> Ti. <i>Journal of Materials Research</i> , 2003, 18, 1043-1050.	0.4	2
48	Investigation of stress corrosion cracking under anodic dissolution control. <i>Science Bulletin</i> , 2001, 46, 717-722.	1.7	10
49	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
50	Fracture mechanism of TiAl intermetallics caused by hydride and atomic hydrogen. <i>Science in China Series D: Earth Sciences</i> , 1999, 42, 511-520.	0.9	3
51	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
52	Achieving Low Yield Ratio in High-Strength Steel by Tuning Multiple Microstructures. <i>Steel Research International</i> , 0, , 2100415.	1.0	1