

序号	论文名称	期刊名称	卷、期、页	作者
1.	Fretting corrosion fatigue of Alloy 690 in high-temperature pure water	Corrosion Science	133 (2018) 423-431	J. P. Liao, X. Q. Wu, J. B. Tan, L. C. Tang, H. Qian, Y. C. Xie
2.	Effects of normal load on fretting corrosion fatigue of Alloy 690 in 285°C pure water	Corrosion Science	141 (2018) 158-167	J. P. Liao, J. B. Tan, X. Q. Wu, L. C. Tang, H. Qian, Y. C. Xie
3.	Correlation of microstructure and stress corrosion cracking initiation behaviour of the fusion boundary region in a SA508 Cl. 3 -Alloy 52M dissimilar weld joint in primary pressurized water reactor environment	Corrosion Science	132(1) (2018) 9-20	Lijin Dong, Qunjia Peng, He Xue, Enhou Han, Wei Ke, Lei Wang
4.	Synergistic effects of fluoride and chloride on general corrosion behavior of AISI 316 stainless steel and pure titanium in H <sub>2</sub> SO <sub>4</sub> solutions	Corrosion Science	130 (2018) 203-217	Wang, Z. B., Hu, H. X., Zheng, Y. G.
5.	Temperature dependence of passivity degradation on UNS N08800 in near neutral crevice chemistries containing thiosulphate in chloride	Corrosion Science	140 (2018) 260-271	Yinghao Sun, S. Wu, Da-Hai Xia, Jianqiu Wang, Shizhe Song
6.	Thermally induced structure evolution on the corrosion behavior of Al-Ni-Y amorphous alloys	Corrosion Science	144 (2018) 172-183	L.M. Zhang, S.D. Zhang, A.L. Ma, H.X. Hu, Y.G. Zheng, B.J. Yang, J.Q. Wang
7.	Influence of phase dissolution and hydrogen absorption on the corrosion behavior of Mg-7%Gd-5%Y-1%Nd-0.5%Zr alloy in 3.5 wt.% NaCl solution	Corrosion Science	142 (2018) 185-200	S.D. Wang, D.K. Xu, B.J. Wang, L.Y. Sheng, Y.X. Qiao, E.H. Han & C. Dong.
8.	Low-cost birnessite as a promising cathode for high-performance aqueous rechargeable batteries	Electrochimica Acta	272 (2018) 154-160	Nan Qiu, Hong Chen, Zhaoming Yang, Sen Sun, Yuan Wang
9.	Irradiation-induced segregation at phase boundaries in austenitic stainless steel weld metal	Scripta Materialia	149 (2018) 11-15	Xiaodong Lin, Qunjia Peng, En-Hou Han, Wei Ke, Chen Sun, Zhijie Jiao
10.	Comparative study of microstructure and properties of low-alloy-steel/nickel-based-alloy interfaces in dissimilar metal weld joints prepared by different GTAW methods	Materials Characterization	139(5) (2018) 186-196	Hongliang Ming, Jianqiu Wang, En-Hou Han

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11.	Effect of normal force on the fretting wear behavior of Inconel 690 TT against 304 stainless steel in simulated secondary water of pressurized water reactor	Tribology International	126(10) (2018) 133-143	Hongliang Ming, Xingchen Liu, Jianqiu Wang, En-Hou Han
12.	Evaluation of stress corrosion cracking susceptibility of forged 316 stainless steel in simulated primary water	Materials and Corrosion	69(3) (2018) 328-336	Ruolin Zhu, Jianqiu Wang, Hongliang Ming, Zhiming Zhang, En-Hou Han
13.	Effect of pH on Corrosion Behavior of 316L Stainless Steel in Hydrogenated High Temperature Water	Materials and Corrosion	69(5) (2018) 580-589	Jiazhen Wang, Jianqiu Wang, Hongliang Ming, Zhiming Zhang, En-Hou Han
14.	Effect of Temperature on Corrosion Behavior of Alloy 690 in High Temperature Hydrogenated Water	Journal of Materials Science & Technology	34(8) (2018) 1419-1427	Jiazhen Wang, Jianqiu Wang, Hongliang Ming, Zhiming Zhang, En-Hou Han
15.	Effect of cumulative gamma irradiation on microstructure and corrosion behaviour of X65 low carbon steel	Journal of Materials Science & Technology	34 (2018) 2131-2139	Canshuai Liu, Jianqiu Wang, Zhiming Zhang, En-Hou Han, Wei Liu, Dong Liang, Zhongtian Yang
16.	Characterization of Corrosion Behavior of Irradiated X65 Low Carbon Steel in Aerobic and Unsaturated Gaomiaozi Bentonite	Acta Metallurgica Sinica (English Letters)	34 (2018) 561-569	Canshuai Liu, Jianqiu Wang, Zhiming Zhang, En-Hou Han, Wei Liu, Dong Liang, Zhongtian Yang
17.	Structural, mechanical and corrosion studies of Cr-rich inclusions in 152 cladding of dissimilar metal weld joint	Journal of Nuclear Materials	498(1) (2018) 9-19	Yifeng Li, Jianqiu Wang*, En-Hou Han, Chengdong Yang
18.	Characterization of oxide films formed on Alloy 690 in 600°C supercritical water	Journal of Materials Science & Technology	34(3) (2018) 561-569	X. Y. Zhong, X. Q. Wu, E.-H. Han
19.	Microstructure and intergranular stress corrosion cracking susceptibility of a SA508-52M-316L dissimilar metal weld joint in primary water	Journal of Materials Science & Technology	34(1) (2018) 1281-1292	Lijin Dong, Qunjia Peng, Enhou Han, Wei Ke, Lei Wang

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20.	Effect of boron on the tensile and creep properties of a newly developed Ni-Fe-based weld metal	Materials Science & Engineering A	731 (2018) 21-28	Dong Wu, Tingting Yao, Dianzhong Li, Shanping Lu
21.	Effect of Cr content on the microstructural stability and impact toughness evolution of a Ni-Fe-based weld metal	Journal of Alloys and Compounds	749 (2018) 465-472	Dong Wu, Dianzhong Li, Shanping Lu
22.	Microstructural evolution and mechanical property of a Ni-Fe-based weld metal during long-term exposure at 650°C and 700°C	Materials Science & Engineering A	716 (2018) 240-251	Dong Wu, Dianzhong Li, Shanping Lu
23.	Effects of intragranular defects on helium accumulation damage in nanocrystalline nitrides	Journal of Alloys and Compounds	739 (2018) 401-406	Yuanxia Lao, Wenxiao Niu, Yunlong Shi, Hao Du, Haibin Zhang, Shuanglin Hu, Yuan Wang
24.	Synthesis of manganese-based complex as cathode material for aqueous rechargeable batteries	RSC Advances	8 (2018) 15703-15708	Nan Qiu, Hong Chen, Zhaoming Yang, Sen Sun and Yuan Wang
25.	Effect of welding parameters and B <sub>4</sub> C contents on the microstructure and mechanical properties of friction stir welded B <sub>4</sub> C/6061Al joints	Journal of Materials Processing Technology	251 (2018) 305-316	Y.Z. Li, Q.Z. Wang, B.L. Xiao, Z.Y. Ma
26.	Phase Transformation and Lattice Parameter Changes of Non-trivalent Rare Earth Doped YSZ as a Function of Temperature	Journal of Materials Engineering and Performance	27(5) (2018) 2263-2270	S.L.Jiang, X. Huang, Z. He and A. Buyers
27.	Preparation and erosion-corrosion behavior of polyetheretherketone (PEEK)/nickel foam co-continuous composites	Science and Engineering of Composite Materials	25(2) (2018) 289-296	X.G. Yang, D.L. Duan, S.L. Jiang, S. Li, H.C. Zhang
28.	Effects of dissolved oxygen on the electrochemical corrosion behavior of pure titanium in fluoride-containing weakly acidic solutions	Journal of Solid State Electrochemistry	22(7) (2018) 2083-2093	Wang, Z. B., Hu, H. X., Zheng, Y. G.

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29.	Comparison of critical flow velocity for erosion-corrosion of six stainless steels in 3.5 wt.% NaCl solution containing 2 wt.% silica sand particles	Wear	416-417 (2018) 62-71	J.Z. Yi, H.X. Hu, Z.B. Wang, Y.G. Zheng
30.	Evolution of the Corrosion Product Film and Its Effect on the Erosion–Corrosion Behavior of Two Commercial 90Cu–10Ni Tubes in Seawater	Acta Metallurgica Sinica (English Letters)	31 (2018) 1148-1170	Okpo O. Ekerenam, Ai-Li Ma, Yu-Gui Zheng, Si-Yu He, Peter C. Okafor
31.	Synergistic corrosion inhibition behavior of rare-earth cerium ions and serine on carbon steel in 3% NaCl solutions	Journal of Central South University	25 (2018) 1914-1919	Xia Liu, Yi-zhi Yuan, Zhu-ying Wu, Gao-deng Tian, Yu-gui Zheng
32.	Slurry erosion-corrosion resistance and microbial corrosion electrochemical characteristics of HVOF sprayed WC-10Co-4Cr coating for offshore hydraulic machinery	International Journal of Refractory Metals and Hard Materials	74 (2018) 7-13	Sheng Hong, Yuping Wu, Wenwen Gao, Jianfeng Zhang, Yugui Zheng, Yuan Zheng
33.	Influence of sealing treatment on the corrosion behavior of HVAF sprayed Al-based amorphous/nanocrystalline coating	Surface & Coatings Technology	353 (2018) 263-273	L.M. Zhang, S.D. Zhang, A.L. Ma, H.X. Hu, Y.G. Zheng, B.J. Yang, J.Q. Wang
34.	Mechanical properties and slurry erosion resistance of a hybrid composite SiC foam/SiC particles/EP	Polymer Composites	39 (2018) 2277-2286	Z.H. Ren, Y.G. Zheng, C.H. Jiang, X.M. Cao, P. Jin, J.S. Zhang
35.	Effect of microalloying of Ti or Cr on the corrosion behavior of Al-Ni-Y amorphous alloys	Corrosion	74 (2018) 66-74	L.M. Zhang, A.L. Ma, H.X. Hu, Y.G. Zheng, B.J. Yang, J.Q. Wang
36.	$\sigma$ -phase Precipitation mechanism of 15Cr-15Ni Titanium-Modified Austenitic Stainless steel during long-term thermal exposure	Acta Metallurgica Sinica (English letters)	31(3) (2018) 281-289	Zhi-Nan Wang, Tian Liang, Wei-Wei Xing, Ai-Bing Du, Ming Gao, Ying-Che Ma, Kui Liu
37.	Effect of twins on the corrosion behavior of Mg–5Y–7Gd–1Nd–0.5Zr Mg alloy	Journal of Alloys and Compounds	757 (2018) 356-363	Jinhui Liu, En–Hou Han, Yingwei Song, Dayong Shan

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38.	Self-Healing Coatings Prepared by Loading Interphase Inhibitors into MAO Coating of AM60 Mg Alloy	Journal of The Electrochemical Society	165 (2018) C412-C421	Dan Liu, Yingwei Song, Dayong Shan, and En-Hou Han
39.	Comparison of the Inhibition Effect of Four Inhibitors on the Corrosion Behaviour of AM60 Magnesium	International Journal of Electrochemical Science	13 (2018) 2219-2235	Dan Liu, Yingwei Song, Dayong Shan, En-Hou Han
40.	An optimization of pretreatment for the phosphate conversion film on WE43 magnesium alloy	Materials and Corrosion	46 (2018) 481-491	Kaihui Dong, Yingwei Song, Dayong Shan, En-Hou Han
41.	Effects of second phases on the formation mechanism and corrosion resistance of phosphate conversion film on AZ80 Mg alloy	Anti-Corrosion Methods and Materials	65(6) (2018) 587-593	Zubin Xu, Yingwei Song, Kaihui Dong, Dayong Shan, En-Hou Han
42.	Ab initio molecular dynamics simulation on interfacial reaction behavior of Fe-Cr-Ni stainless steel in high temperature water	Computational Materials Science	149 (2018) 143-152	H.T. Wang, E.-H. Han
43.	Computational evaluation of the influence of various uniaxial load levels on pit growth of stainless steel under mechano-electrochemical interactions	Journal of The Electrochemical Society	165 (2018) C515-C523	S. Guo, H.T. Wang, E.-H. Han
44.	The interactions between high temperature water and Fe <sub>3</sub> O <sub>4</sub> (111) by first-principles molecular dynamics simulation	International Journal of Electrochemical Science	13 (2018) 2430-2440	H.T. Wang, X.F. Sun, E.-H. Han
45.	Corrosion performance of nano-ZrO <sub>2</sub> modified coatings in hot mixed acid solutions	Materials	11 (2018) 934	Xu WH, Wang ZY, Han EH
46.	Composition and microstructure dependent corrosion behaviour of Mg-Li alloys	Electrochimica Acta	260 (2018) 55-64	C.Q. Li, D.K. Xu, X.-B. Chen, B.J. Wang, R.Z. Wu, E.H. Han, N. Birbilis
47.	Effect of corrosion product film on the in vitro degradation behavior of Mg-3%Al-1%Zn (in wt.%) alloy in Hank's solution	Journal of Materials Science & Technology	34 (2018) 1756-1764	B.J. Wang, D.K. Xu, J.H. Dong, X.B. Chen, W. Ke
48.	Exfoliation corrosion of extruded Mg-Li-Ca alloy	Journal of Materials Science & Technology	34 (2018) 1550-1557	Z.Y. Ding, L.Y. Cui, R.C. Zeng, Y.B. Zhao, S.K. Guan, D.K. Xu, C.G. Lin

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49.	The effect of surface modification of zinc particles with phosphoric acid on the corrosion resistance of cold galvanizing coatings	Progress in Organic Coatings	114 (2018) 90-101	Long Xu, Fuchun Liu, Zhenyu Wang, Wei Ke, En-Hou Han, Gangxin Jie, Jun Wang, Haijun Huang
50.	Two stage double peak ageing and its effects on stress corrosion cracking susceptibility of Al-Zn-Mg alloy	Journal of Materials Science & Technology	34 (2018) 1250-1257	Y.L. Wang, H.C.Jiang, Z.M. Li, D.S. Yan, D. Zhang, L.J. Rong
51.	Variation of nanoparticle fraction and compositions in two-stage double peaks ageing precipitation of Al-Zn-Mg alloy	Nanoscale Research Letters	13 (2018) 131	Y.L. Wang, Y.Y. Song, H.C. Jiang, Z.M.Li, D. Zhang
52.	Effect of minor Sc addition on microstructure and stress corrosion cracking behavior of medium strength Al-Zn-Mg alloy	Journal of Materials Science & Technology	34 (2018) 1172-1179	Zhaoming Li, Haichang Jiang, Yunli Wang, Duo Zhang, Desheng Yan, Lijian Rong
53.	Influence of Scandium addition on stress corrosion cracking susceptibility of Al-Zn-Mg alloy in different corrosive environments	Metals	8 (2018) 225	Zhaoming Li, Haichang Jiang, Desheng Yan, Lijian Rong
54.	Influence of Sc addition on the corrosion behavior of medium strength Al-Zn-Mg alloy	Materials Science Forum	913 (2018) 439-444	Z.M Li, H.C Jiang, Y.L Wang, Z.M. Li, D. Zhang
55.	Effect of post-weld aging treatment on the precipitation and mechanical behavior of Fe-Ni based alloy weldment	Materials Science & Engineering A	718 (2018) 363-370	Shenghu Chen, Honglei, Hu, Mingjiu Zhao, Lijian Rong
56.	Effect of Fe <sub>2</sub> Zr phase on the mechanical properties and fracture behavior of Fe-Cr-W-Zr ferritic alloy	Materials Science & Engineering A	722 (2018) 173-181	Xiaojie Jin, Shenghu Chen, Lijian Rong
57.	Microstructure modification and mechanical property improvement of reduced activation ferritic/martensitic steel by severe plastic deformation	Materials Science & Engineering A	712 (2018) 97-107	Xiaojie Jin, Shenghu Chen, Lijian Rong

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58.	Roles of Mn in the high-temperature air oxidation of 9Cr ferritic–martensitic steel after severe plastic deformation	Oxidation of Metals	89 (2018) 415-428	陈胜虎, 戎利建
59.	Effect of Cu content on microstructure and properties of Fe-16Cr-2.5Mo damping alloy	Journal of Materials Science & Technology	34(5) (2018) 774-781	X. F. Hu, Y. B. Du, D. S. Yan, L. J. Rong
60.	Aging characteristics and properties of Fe-16Cr-2.5Mo-1.0Cu damping alloy	Materials Science and Engineering A	734 (2018) 184–191	X. F. Hu, Y. Y. Song, D. S. Yan, L. J. Rong
61.	Dissolution and evolution of interfacial oxides improving the mechanical properties of solid state bonding joints	Materials & Design	157 (2018) 437–446	Bijun Xie, Mingyue Sun, Bin Xu, Chunyang Wang, Dianzhong Li, Yiyi Li
62.	High-Temperature Oxidation Behavior of SIMP Steel at 800°C	Oxidation of Metals	89 (2018) 49–60	Quanqiang Shi, Lingling Zhang, Wei Yan, Wei Wang, Peihua Yin, Yiyin Shan, Ke Yang
63.	一种 Fe-Cr-Ni-Mo 高强高韧合金钢焊接接头的组织和力学性能	金属学报	54(1) (2018) 1-10	胡小锋, 姜海昌, 赵明久, 闫德胜, 陆善平, 戎利建
64.	Ni-Fe-Cr 合金固溶处理后的组织变化及其对性能的影响	金属学报	54(3) (2018) 385-392	陈胜虎, 戎利建
65.	回火时间对 Fe-Cr-Ni-Mo 高强钢碳化物演变及力学性能的影响	金属学报	54(1) (2018) 11-20	杜瑜宾, 胡小锋, 姜海昌, 闫德胜, 戎利建
66.	Fe-Ni 基合金时效过程中 $\gamma'$ 相析出的原子探针层析技术研究	金属学报	54(9) (2018) 1237-1244	宋元元, 赵明久, 戎利建
67.	铸态和锻造态 Mg-5Y-7Gd-1Nd-0.5Zr 腐蚀行为对比研究	金属学报	54(8) (2018) 1141-1149	刘金辉, 宋影伟, 单大勇, 韩恩厚
68.	一种 Fe-Cr-Ni-Mo 高强钢焊接热影响区的显微组织与冲击韧性研究	金属学报	54(4) (2018) 501-511	文明月, 董文超, 庞辉勇, 陆善平
69.	热处理温度对 S355J2W 耐候钢板组织和性能的影响	金属热处理	43(6) (2018) 125-129	姜海昌, 封辉, 潘雪新, 胡小锋, 付鸿, 黄耀, 韩军科

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70.	热处理温度对一种 Cr-Ni-Mo-V 钢组织和力学性能的影响	金属热处理	43(3) (2018) 177-184	张守清, 胡小锋, 姜海昌, 闫德胜, 戎利建
71.	回火对 Fe-Cr-Ni-Mo 高强钢电子束焊接接头组织和力学性能的影响	金属热处理	43(7) (2018) 93-98	胡小锋, 赵明久, 姜海昌, 闫德胜, 戎利建
72.	焊后热处理对一种新型镍基焊缝耐蚀性的影响	焊接技术	47(10) (2018) 13-15+42	张旭, 李殿中, 李依依, 陆善平
73.	油气管道在线焊接最大流速确定方法	焊接学报	39(6) (2018) 100-103	余陈, 陈静, 陈怀宁, 陈娟, 马俊宏
74.	钴基和镍基涂层的微观组织及空蚀性能	材料热处理学报	39(1) (2018) 90-96	鄂猛, 胡红祥, 国旭明, 郑玉贵, 白丽莉
75.	高温高湿环境轨道交通用铝合金涂层室外与室内腐蚀老化的相关性研究	腐蚀科学与防护技术	30(4) (2018) 363-368	林化强, 赵民, 段文超, 韦涛, 史洪微, 刘常升, 刘福春, 韩恩厚
76.	划伤方法研究应力作用下硫代硫酸根对 800 合金再钝化动力学的影响	腐蚀科学与防护技术	30(5) (2018) 503-507	祝钰, 王泽清, 孙颖昊, 林芳旭, 夏大海, 宋诗哲, 王俭秋, 张志明
77.	镁合金点蚀的研究进展	中国腐蚀与防护学报	38(4) (2018) 317-325	樊志民, 于锦, 宋影伟, 单大勇, 韩恩厚
78.	核级 316LN 不锈钢弯管在高温高压水中的应力腐蚀裂纹扩展行为	中国腐蚀与防护学报	38(1) (2018) 54-61	朱若林, 张利涛, 王俭秋, 张志明, 韩恩厚
79.	CuAlTiWV 高熵合金薄膜的制备及掺氮和退火行为研究	核技术	41(10) (2018) 100602	贺云鹏, 劳远侠, 孙森, 牛文骁, 裘南, 汪渊