

Bin Leng

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Effect of yttrium content on the corrosion behavior of nickel-based UNS N10003 alloy in high-temperature molten LiF-NaF-KF salt. <i>Corrosion Science</i> , 2022, 194, 109940.	3.0	5
2	Tellurium segregation-induced intergranular corrosion of GH3535 alloys in molten salt. <i>Corrosion Science</i> , 2022, 194, 109944.	3.0	13
3	High-temperature corrosion behavior of Inconel 617 with Ni-claddings in molten FLiNaK salt. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2022, 73, 486-496.	0.8	2
4	Corrosion behaviors of Ni-WC cemented carbide in high temperature molten fluoride salt and vapor. <i>Journal of Nuclear Materials</i> , 2022, 561, 153541.	1.3	4
5	Metallic impurities induced corrosion of a Ni-26W-6Cr alloy in molten fluoride salts at 850 oC. <i>Corrosion Science</i> , 2021, 178, 109079.	3.0	14
6	Effect of Isothermal Aging on Microstructure Evolution of Ni Claddings on Inconel 617. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 2389-2398.	1.2	5
7	Effect of SO ₄ ²⁻ ion impurity on stress corrosion behavior of Ni-16Mo-7Cr alloy in FLiNaK salt. <i>Journal of Nuclear Materials</i> , 2021, 547, 152809.	1.3	8
8	Corrosion behavior of carburized 316 stainless steel in molten chloride salts. <i>Solar Energy</i> , 2021, 223, 1-10.	2.9	17
9	Effect of high temperature molten salt corrosion on the microstructure of a Co-Mo-Cr-Si wear resistant alloy. <i>Materials Characterization</i> , 2021, 179, 111377.	1.9	8
10	Effect of thermal aging on corrosion behavior of type 316H stainless steel in molten chloride salt. <i>Corrosion Science</i> , 2021, 191, 109784.	3.0	20
11	Unexpected accelerated corrosion of Cr in Ni-xW-6Cr alloy with W content increasing. <i>Corrosion Science</i> , 2021, 191, 109761.	3.0	6
12	Non-uniform corrosion of UNS N10003 alloy induced by trace SO ₄ ²⁻ in molten FLiNaK salt. <i>Corrosion Science</i> , 2021, 192, 109802.	3.0	6
13	Corrosion behavior of a wear resistant Co-Mo-Cr-Si alloy in molten fluoride salts. <i>Journal of Nuclear Materials</i> , 2020, 542, 152529.	1.3	12
14	Effect of grain boundary carbides on the diffusion behavior of Te in Ni-16Mo-7Cr base superalloy. <i>Materials Characterization</i> , 2020, 164, 110329.	1.9	8
15	Effect of graphite particles in molten LiF-NaF-KF eutectic salt on corrosion behaviour of GH3535 alloy. <i>Corrosion Science</i> , 2020, 168, 108581.	3.0	13
16	On the possibility of severe corrosion of a Ni-W-Cr alloy in fluoride molten salts at high temperature. <i>Corrosion Science</i> , 2019, 149, 218-225.	3.0	42
17	Effect of Surface Decarburization on Corrosion Behavior of GH3535 Alloy in Molten Fluoride Salts. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 401-412.	1.5	4
18	Effects of post-weld heat treatment on microstructure and mechanical properties of Hastelloy N superalloy welds. <i>Materials Today Communications</i> , 2019, 19, 230-237.	0.9	14

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19	Influence of grain size on tellurium corrosion behaviors of GH3535 alloy. Corrosion Science, 2019, 148, 110-122.	3.0	29
20	Corrosion of Incoloy 800H alloys with nickel cladding in FLiNaK salts at 850°C. Corrosion Science, 2018, 133, 349-357.	3.0	50
21	Effect of SO ₂ on the corrosion of 316L stainless steel in molten FLiNaK salt. Corrosion Science, 2018, 144, 224-229.	3.0	46
22	Effect of thermal exposure time on tellurium-induced embrittlement of Ni-16Mo-7Cr-4Fe alloy. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	1.3	14
23	Effect of Cr contents on the diffusion behavior of Te in Ni-based alloy. Journal of Nuclear Materials, 2017, 497, 101-106.	1.3	25
24	Grain boundary engineering for control of tellurium diffusion in GH3535 alloy. Journal of Nuclear Materials, 2017, 497, 76-83.	1.3	20
25	R&D of Structural Alloy for Molten Salt Reactor in China. , 2016, , .		1
26	The tensile behavior of GH3535 superalloy at elevated temperature. Materials Chemistry and Physics, 2016, 182, 22-31.	2.0	55
27	M ₂₃ C ₆ and M ₆ C carbide precipitation in Ni-Mo-Cr based superalloys containing silicon. Materials and Design, 2016, 112, 300-308.	3.3	47
28	Effect of long-term thermal exposure on the hot ductility behavior of GH3535 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 299-306.	2.6	15
29	Intermediate temperature embrittlement of one new Ni-26W-6Cr based superalloy for molten salt reactors. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 668, 137-145.	2.6	34
30	STEM-EDS analysis of fission products in neutron-irradiated TRISO fuel particles from AGR-1 experiment. Journal of Nuclear Materials, 2016, 475, 62-70.	1.3	10
31	Effects of post-weld heat treatment on microstructure and mechanical properties of laser welds in GH3535 superalloy. Optics and Laser Technology, 2016, 81, 18-25.	2.2	23
32	Effect of tungsten content on the microstructure and tensile properties of Ni-xW-6Cr alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 269-276.	2.6	29
33	Effect of carbon ion irradiation on Ag diffusion in SiC. Journal of Nuclear Materials, 2016, 471, 220-232.	1.3	11
34	EPMA and TEM characterization of intergranular tellurium corrosion of Ni-16Mo-7Cr-4Fe superalloy. Corrosion Science, 2015, 97, 1-6.	3.0	30
35	Observations of Ag diffusion in ion implanted SiC. Journal of Nuclear Materials, 2015, 461, 314-324.	1.3	17
36	Intergranular diffusion and embrittlement of a Ni-16Mo-7Cr alloy in Te vapor environment. Journal of Nuclear Materials, 2015, 467, 341-348.	1.3	18

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37	Corrosion behavior of an alumina forming austenitic steel exposed to supercritical carbon dioxide. <i>Corrosion Science</i> , 2014, 82, 67-76.	3.0	79
38	Grain boundary sliding at high temperature deformation in cold-rolled ODS ferritic steels. <i>Journal of Nuclear Materials</i> , 2014, 452, 628-632.	1.3	21
39	Hot-rolling of reduced activation 8CrODS ferritic steel. <i>Journal of Nuclear Materials</i> , 2013, 443, 59-65.	1.3	1
40	Effect of hot-rolling and cooling rate on microstructure and high-temperature strength in 9CrODS steel. <i>Journal of Nuclear Materials</i> , 2013, 440, 553-556.	1.3	5
41	Characterization of recrystallization of 12Cr and 15Cr ODS ferritic steels. <i>Journal of Nuclear Science and Technology</i> , 2013, 50, 314-320.	0.7	18
42	Grain Boundary Related Deformation in ODS Ferritic Steel during Creep Test. <i>Materials Transactions</i> , 2012, 53, 1753-1757.	0.4	15
43	Hardness and Micro-Texture in Friction Stir Welds of a Nanostructured Oxide Dispersion Strengthened Ferritic Steel. <i>Materials Transactions</i> , 2012, 53, 390-394.	0.4	19
44	Effects of Two-Step Cold Rolling on Recrystallization Behaviors in ODS Ferritic Steel. <i>Materials Transactions</i> , 2012, 53, 652-657.	0.4	19
45	Oxide Particle Refinement in 4.5 mass%Al Ni-Based ODS Superalloys. <i>Materials Transactions</i> , 2012, 53, 645-651.	0.4	24
46	Recrystallization Texture of Cold-rolled Oxide Dispersion Strengthened Ferritic Steel. <i>ISIJ International</i> , 2011, 51, 951-957.	0.6	26
47	Grain Boundary Deformation at High Temperature Tensile Tests in ODS Ferritic Steel. <i>ISIJ International</i> , 2011, 51, 982-986.	0.6	16
48	Directional recrystallization of ODS alloys by means of zone annealing. <i>Journal of Nuclear Materials</i> , 2011, 417, 171-175.	1.3	13
49	Grain characteristic and texture evolution in friction stir welds of nanostructured oxide dispersion strengthened ferritic steel. <i>Science and Technology of Welding and Joining</i> , 2011, 16, 690-696.	1.5	24
50	Refinement of Oxide Particles by Addition of Hf in Ni-0.5 mass%Al-1 mass%Y₂O₃ Alloys. <i>Materials Transactions</i> , 2010, 51, 2019-2024.	0.4	44