

List of Publications by Year in descending order

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ΙΙΑ ΣΙΙΝ

#	Article	IF	CITATIONS
1	Silicide Coating Fabricated by HAPC/SAPS Combination to Protect Niobium Alloy from Oxidation. ACS Applied Materials & amp; Interfaces, 2016, 8, 15838-15847.	8.0	74
2	Effect of filler on the oxidation protective ability of MoSi2 coating for Mo substrate by halide activated pack cementation. Materials and Design, 2016, 92, 602-609.	7.0	68
3	Self-healing YSZ-La-Mo-Si heterogeneous coating fabricated by plasma spraying to protect carbon/carbon composites from oxidation. Composites Part B: Engineering, 2017, 125, 181-194.	12.0	47
4	Thermal shock resistance of thermal barrier coatings for nickel-based superalloy by supersonic plasma spraying. Ceramics International, 2015, 41, 9972-9979.	4.8	37
5	Influence of siliconizing on the oxidation behavior of plasma sprayed MoSi2 coating for niobium based alloy. Intermetallics, 2016, 72, 9-16.	3.9	36
6	A MoSi2-based composite coating by supersonic atmospheric plasma spraying to protect Nb alloy against oxidation at 1500†°C. Surface and Coatings Technology, 2018, 352, 182-190.	4.8	36
7	Effect of mullite on the microstructure and oxidation behavior of thermal-sprayed MoSi2 coating at 1500°C. Ceramics International, 2020, 46, 10058-10066.	4.8	33
8	Ablation behavior of single and alternate multilayered ZrC-SiC coatings under oxyacetylene torch. Journal of the European Ceramic Society, 2022, 42, 830-840.	5.7	33
9	In situ synthesis of SiC nanowire porous layer on carbon/carbon composites. Journal of the American Ceramic Society, 2018, 101, 1371-1380.	3.8	30
10	Oxidation response determined by multiphase-dependent melting degree of plasma sprayed MoSi2 on Nb-based alloy. Journal of Alloys and Compounds, 2018, 762, 922-932.	5.5	27
11	Microstructure and oxidation behavior of plasma sprayed WSi2-mullite-MoSi2 coating on niobium alloy at 1500°C. Surface and Coatings Technology, 2020, 400, 126210.	4.8	25
12	Effect of thermodynamically metastable components on mechanical and oxidation properties of the thermal-sprayed MoSi2 based composite coating. Corrosion Science, 2019, 155, 146-154.	6.6	23
13	Different oxidation protection mechanisms of HAPC silicide coating on niobium alloy over a large temperature range. Journal of Alloys and Compounds, 2019, 790, 1014-1022.	5.5	23
14	Effect of SiO2 barrier scale prepared by pre-oxidation on hot corrosion behavior of MoSi2-based coating on Nb alloy. Corrosion Science, 2020, 176, 109051.	6.6	22
15	Multi-layered structural designs of MoSi2/mullite anti-oxidation coating for SiC-coated C/C composites. Surface and Coatings Technology, 2021, 409, 126901.	4.8	22
16	A long-term ultrahigh temperature application of layered silicide coated Nb alloy in air. Applied Surface Science, 2018, 439, 1111-1118.	6.1	21
17	Phase evolution of SiOCâ€based ceramic nanocomposites derived from a polymethylsiloxane modified by Hf―and Tiâ€alkoxides. Journal of the American Ceramic Society, 2020, 103, 1436-1445.	3.8	21
18	Self-healing improvement strategy of thermally sprayed MoSi2 coating at 1773 K: From calculation to experiment. Corrosion Science, 2021, 189, 109599.	6.6	20

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19	Effect of microwave heating time on bonding strength and corrosion resistance of Ca-P composite layers for carbon/carbon composites. Journal of Alloys and Compounds, 2017, 713, 266-279.	5.5	19
20	Corrosion and thermal cycling behavior of plasma sprayed thermal barrier coatings on die steel. Materials and Design, 2017, 114, 537-545.	7.0	18
21	High-temperature stability and oxidation behavior of SiOC/HfO2 ceramic nanocomposite in air. Corrosion Science, 2020, 175, 108866.	6.6	18
22	The oxidation behavior of MoSi2-CrSi2-Si/SiC coating for C/C composites in H2O-O2-Ar atmosphere: Experiment and first-principle investigation. Ceramics International, 2017, 43, 8858-8865.	4.8	17
23	Comparison investigation of hot corrosion exposed to Na2SO4 salt and oxidation of MoSi2-based coating on Nb alloy at 1000°C. Surface and Coatings Technology, 2020, 385, 125388.	4.8	16
24	Melting index of plasma sprayed molybdenum silicide characterized by constitutions and its effect on oxidation kinetics. Journal of Alloys and Compounds, 2018, 766, 95-103.	5.5	15
25	Ablation behavior under oxyacetylene torch of ZrC coating modified by SiC/TaC nanocomposites. Corrosion Science, 2022, 205, 110423.	6.6	15
26	Oxidation behavior of thermally sprayed Mo-Si based composite: Effect of metastable phase, porosity and residual stress. Journal of Alloys and Compounds, 2019, 776, 712-721.	5.5	14
27	Fracture toughness of thermally sprayed MoSi2 composite with different melting indices. Composites Part B: Engineering, 2018, 150, 242-247.	12.0	13
28	Mechanical properties of the supersonic atmospheric plasma sprayed Ca P coating post-processed by a microwave-hydrothermal method. Materials Science and Engineering C, 2019, 95, 49-56.	7.3	9
29	Crack development behavior in thermally sprayed anti-oxidation coating under repeated thermal-oxygen coupling environment. Ceramics International, 2021, 47, 15328-15336.	4.8	9
30	Static water vapor corrosion behavior of MoSi2/Mullite composite coating on Nb based alloy at 1500°C. Corrosion Science, 2022, 200, 110234.	6.6	6
31	Hot corrosion of SiO2-Ta2O5 binary scale on MoSi2-based ceramics. Corrosion Science, 2021, 185, 109413.	6.6	2
32	A novel MoSi2-rich coating on the SiC-Si coated C/C composites for the preparation and antioxidative properties at 1773ÂK and 1973ÂK. Corrosion Science, 2022, 204, 110392	6.6	1

properties at 1773AK and 1973AK. Corrosion Science, 2022, 204, 110392.