

Qian-Gang Fu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

868
citations

471509

17
h-index

580821

25
g-index

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all docs

25
docs citations

25
times ranked

334
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in ultra-high temperature ceramics, composites, and coatings. <i>Journal of Advanced Ceramics</i> , 2022, 11, 1-56.	17.4	256
2	Silicide Coating Fabricated by HAPC/SAPS Combination to Protect Niobium Alloy from Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15838-15847.	8.0	74
3	Ta Hf1 [~] B2 [~] SiC multiphase oxidation protective coating for SiC-coated carbon/carbon composites. <i>Corrosion Science</i> , 2014, 87, 479-488.	6.6	66
4	Ultra-High-Temperature Ceramic HfB ₂ -SiC Coating for Oxidation Protection of SiC-Coated Carbon/Carbon Composites. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 560-567.	2.1	51
5	Development of light cellular carbon nanotube/graphene/carbon nanocomposites with effective mechanical and EMI shielding performance. <i>Carbon</i> , 2020, 168, 719-731.	10.3	43
6	Facile synthesis of reduced graphene oxide/silver nanoparticles composites and their application for detecting heavy metal ions. <i>Journal of Alloys and Compounds</i> , 2019, 787, 683-693.	5.5	37
7	A MoSi ₂ -based composite coating by supersonic atmospheric plasma spraying to protect Nb alloy against oxidation at 1500 [~] °C. <i>Surface and Coatings Technology</i> , 2018, 352, 182-190.	4.8	36
8	Oxidation behavior of SiC-HfB ₂ -Si coating on C/C composites prepared by slurry dipping combined with gaseous Si infiltration. <i>Surface and Coatings Technology</i> , 2020, 385, 125335.	4.8	36
9	The oxidation behavior and mechanical properties of MoSi ₂ -CrSi ₂ -Si coated carbon/carbon composites in high-temperature oxidizing atmosphere. <i>Corrosion Science</i> , 2011, 53, 4102-4108.	6.6	31
10	Comparing oxidation behaviors at 1773 [~] K and 1973 [~] K of HfB ₂ -MoSi ₂ /SiC-Si coating prepared by a combination method of pack cementation, slurry painting and in-situ synthesis. <i>Surface and Coatings Technology</i> , 2020, 403, 126418.	4.8	29
11	Different oxidation protection mechanisms of HAPC silicide coating on niobium alloy over a large temperature range. <i>Journal of Alloys and Compounds</i> , 2019, 790, 1014-1022.	5.5	23
12	Effect of SiO ₂ barrier scale prepared by pre-oxidation on hot corrosion behavior of MoSi ₂ -based coating on Nb alloy. <i>Corrosion Science</i> , 2020, 176, 109051.	6.6	22
13	Microstructure evolution of in-situ SiC-HfB ₂ -Si ternary coating and its corrosion behaviors at ultra-high temperatures. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6223-6237.	5.7	22
14	A long-term ultrahigh temperature application of layered silicide coated Nb alloy in air. <i>Applied Surface Science</i> , 2018, 439, 1111-1118.	6.1	21
15	A novel continuous carbon nanotube fiber/carbon composite by electrified preform heating chemical vapor infiltration. <i>Carbon</i> , 2020, 157, 640-648.	10.3	21
16	Self-healing improvement strategy of thermally sprayed MoSi ₂ coating at 1773 K: From calculation to experiment. <i>Corrosion Science</i> , 2021, 189, 109599.	6.6	20
17	A novel oxidation protective SiC-ZrB ₂ -ZrSi ₂ coating with mosaic structure for carbon/carbon composites. <i>Ceramics International</i> , 2018, 44, 14781-14788.	4.8	18
18	Comparison investigation of hot corrosion exposed to Na ₂ SO ₄ salt and oxidation of MoSi ₂ -based coating on Nb alloy at 1000 [~] °C. <i>Surface and Coatings Technology</i> , 2020, 385, 125388.	4.8	16

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19	Development of SiC-ZrC-based ultra-high temperature ceramic coatings via composite method of polymer precursor pyrolysis plus gaseous reactive infiltration. <i>Surface and Coatings Technology</i> , 2022, 431, 127996.	4.8	11
20	Crack development behavior in thermally sprayed anti-oxidation coating under repeated thermal-oxygen coupling environment. <i>Ceramics International</i> , 2021, 47, 15328-15336.	4.8	9
21	High-entropy (Hf _{0.25} Zr _{0.25} Ti _{0.25} Cr _{0.25})B ₂ ceramic incorporated SiC-Si composite coating to protect C/C composites against ablation above 2400ÅK. <i>Ceramics International</i> , 2022, 48, 27106-27119.	4.8	8
22	A MoSi₂â€“SiCâ€“Si/MoSi₂ COATING TO PROTECT CARBON/CARBON COMPOSITES AGAINST OXIDATION AT 1700Å°C. <i>Surface Review and Letters</i> , 2009, 16, 437-440.	1.1	6
23	Effect of Lu ₂ O ₃ addition on the oxidation behavior of SiC-ZrB ₂ composite coating at 1500Å„f: Experimental and theoretical study. <i>Corrosion Science</i> , 2021, 192, 109803.	6.6	5
24	Experimental and first-principles simulation study on oxidation behavior at 1700Å°C of Lu ₂ O ₃ â€“SiC-HfB ₂ ternary coating for SiC coated carbon/carbon composites. <i>Ceramics International</i> , 2022, 48, 8088-8096.	4.8	5
25	Hot corrosion of SiO ₂ -Ta ₂ O ₅ binary scale on MoSi ₂ -based ceramics. <i>Corrosion Science</i> , 2021, 185, 109413.	6.6	2