

Binglin Zou

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,411
citations

279798

23
h-index

330143

37
g-index

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all docs

50
docs citations

50
times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	Manganese coating $\hat{1}\pm\text{-Ni(OH)}_2$ as high-performance cathode material for Ni-MH battery. <i>Ionics</i> , 2022, 28, 1265-1272.	2.4	3
2	Synthesis of rare earth silicate thermal barrier coating materials ($\text{YxYb}_{2-x}\text{SiO}_5$) and application on the surface of titanium alloy. <i>Inorganic Chemistry Communication</i> , 2022, 135, 109129.	3.9	3
3	Hot corrosion behaviour of $\text{Yb}_2\text{Si}_2\text{O}_7$ environmental barrier coatings in molten NaVO_3 salt. <i>Ceramics International</i> , 2021, 47, 30598-30609.	4.8	2
4	Hot corrosion behavior of Yb_2SiO_5 coating in NaVO_3 molten salt. <i>Corrosion Science</i> , 2021, 193, 109883.	6.6	3
5	Reaction Mechanism of $\text{ZrB}_2\text{-ZrC}$ Formation in Ni-Zr-B4C System Analyzed by Differential Scanning Calorimetry. <i>Materials</i> , 2021, 14, 6467.	2.9	2
6	Hot corrosion behavior of $\text{Yb}_2\text{Si}_2\text{O}_7$ ceramic under NaVO_3 salt attack. <i>Ceramics International</i> , 2020, 46, 2618-2623.	4.8	8
7	Fabrication and properties of $\text{TiB}_2\text{-TiC}$ reinforced NiAl coatings by reactive plasma spraying on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2019, 378, 125055.	4.8	15
8	Fabrication and characterization of $\text{TiB}_2\text{-TiC-Co}$ wear-resistant coatings on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2019, 364, 358-368.	4.8	15
9	Thermal shock behavior of YSZ thermal barrier coatings with a Ni-P/Al/Ni-P sandwich interlayer on AZ91D magnesium alloy substrate at $400\hat{\text{a}}^\circ\text{C}$. <i>Surface and Coatings Technology</i> , 2019, 367, 278-287.	4.8	13
10	Microstructure and oxidation resistant behavior of $\text{Er}_2\text{Si}_2\text{O}_7$ and $\text{Er}_2\text{Si}_2\text{O}_7/\text{LaMgAl}_{11}\text{O}_{19}$ coatings deposited on Cf/SiC composites by APS at $1723\hat{\text{A}}\text{K}$. <i>Journal of Alloys and Compounds</i> , 2017, 709, 24-30.	5.5	10
11	Hot corrosion behaviour of nanostructured zirconia in molten NaVO_3 salt. <i>Ceramics International</i> , 2017, 43, 10415-10427.	4.8	26
12	Oxidation and thermal shock resistant properties of $\text{Si/Yb}_2\text{SiO}_5/\text{NdMgAl}_{11}\text{O}_{19}$ coating deposited on Cf/SiC composites. <i>Materials and Design</i> , 2017, 116, 261-267.	7.0	28
13	Fabrication and oxidation resistant behavior of plasma sprayed $\text{Si/Yb}_2\text{Si}_2\text{O}_7/\text{LaMgAl}_{11}\text{O}_{19}$ coating for Cf/SiC composites at 1673 K. <i>Ceramics International</i> , 2017, 43, 392-398.	4.8	19
14	Hot corrosion behavior of $\text{LaTi}_2\text{Al}_9\text{O}_{19}$ ceramic exposed to vanadium oxide at temperatures of $700\hat{\text{a}}\text{--}950\hat{\text{A}}^\circ\text{C}$ in air. <i>Corrosion Science</i> , 2016, 104, 310-318.	6.6	26
15	Fabrication and properties of $\text{Al}_2\text{O}_3\hat{\text{a}}\text{--}\text{TiB}_2\hat{\text{a}}\text{--}\text{TiC/Al}$ metal matrix composite coatings by atmospheric plasma spraying of SHS powders. <i>Journal of Alloys and Compounds</i> , 2016, 672, 251-259.	5.5	73
16	High-temperature corrosion behavior of zirconia ceramic in molten $\text{Na}_2\text{SO}_4+\text{NaVO}_3$ salt mixture. <i>Ceramics International</i> , 2016, 42, 341-350.	4.8	25
17	Oxidation protection of carbon/carbon composites with a plasma-sprayed $\text{ZrB}_2\hat{\text{a}}\text{--}\text{SiC}\hat{\text{a}}\text{--}\text{Si/Yb}_2\text{SiO}_5/\text{LaMgAl}_{11}\text{O}_{19}$ coating during thermal cycling. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2017-2025.	5.7	58
18	Thermal cycling behavior and hot corrosion performance of the plasma sprayed $\text{Er}_2\text{Si}_2\text{O}_7$ coatings deposited on Cf/SiC composites. <i>Journal of Asian Ceramic Societies</i> , 2015, 3, 123-129.	2.3	13

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19	Reaction behavior, microstructure and application in coating of in situ ZrCâ€“ZrB ₂ ceramic composites powders from a Coâ€“Zrâ€“B ₄ C system. <i>Materials & Design</i> , 2015, 81, 65-72.	5.1	17
20	Corrosion of lanthanum magnesium hexaaluminate as plasma-sprayed coating and as bulk material when exposed to molten V ₂ O ₅ -containing salt. <i>Corrosion Science</i> , 2015, 91, 185-194.	6.6	38
21	High-temperature corrosion behaviour of plasma sprayed lanthanum magnesium hexaluminate coating by vanadium oxide. <i>Journal of the European Ceramic Society</i> , 2015, 35, 227-236.	5.7	21
22	Reactive plasma spraying synthesis and characterization of TiB ₂ â€“TiCâ€“Al ₂ O ₃ /Al composite coatings on a magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2014, 596, 10-18.	5.5	45
23	Preparation and Bond Properties of Thermal Barrier Coatings on Mg Alloy with Sprayed Al or Diffused Mg-Al Intermetallic Interlayer. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 304-316.	3.1	7
24	Fabrication and properties of ZrCâ€“ZrB ₂ /Ni cermet coatings on a magnesium alloy by atmospheric plasma spraying of SHS powders. <i>Ceramics International</i> , 2014, 40, 15537-15544.	4.8	51
25	Reaction behavior and formation mechanism of ZrC and ZrB ₂ in the Cuâ€“Zrâ€“B ₄ C system. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 43, 102-108.	3.8	12
26	Self-propagating high-temperature synthesis of TiCâ€“TiB ₂ -based Co cermets from a Coâ€“Tiâ€“B ₄ C system and fabrication of coatings using the cermet powders. <i>Chemical Engineering Journal</i> , 2013, 233, 138-148.	12.7	47
27	Mechanism in reactive plasma spraying synthesis of TiCâ€“TiB ₂ composite coating. <i>Journal of Asian Ceramic Societies</i> , 2013, 1, 322-327.	2.3	11
28	A new double layer oxidation resistant coating based on Er ₂ SiO ₅ /LaMgAl ₁₁ O ₁₉ deposited on C/SiC composites by atmospheric plasma spraying. <i>Surface and Coatings Technology</i> , 2013, 219, 101-108.	4.8	36
29	Preparation and corrosion resistance of MAO/Niâ€“P composite coat on Mg alloy. <i>Applied Surface Science</i> , 2013, 277, 272-280.	6.1	58
30	Synthesis and characterization of in situ TiCâ€“TiB ₂ composite coatings by reactive plasma spraying on a magnesium alloy. <i>Applied Surface Science</i> , 2013, 264, 879-885.	6.1	47
31	Influence of ceramic thickness on residual stress and bonding strength for plasma sprayed duplex thermal barrier coating on aluminum alloy. <i>Surface and Coatings Technology</i> , 2012, 206, 4403-4410.	4.8	48
32	Improving stability of thermal barrier coatings on magnesium alloy with electroless plated Niâ€“P interlayer. <i>Surface and Coatings Technology</i> , 2012, 206, 4471-4480.	4.8	24
33	Microstructure, oxidation protection and failure mechanism of Yb ₂ SiO ₅ /LaMgAl ₁₁ O ₁₉ coating deposited on C/SiC composites by atmospheric plasma spraying. <i>Corrosion Science</i> , 2012, 62, 192-200.	6.6	47
34	Novel double ceramic coatings based on Yb ₂ Si ₂ O ₇ /La ₂ (Zr _{0.7} Ce _{0.3}) ₂ O ₇ by plasma spraying on Cf/SiC composites and their thermal shock behavior. <i>Surface and Coatings Technology</i> , 2012, 207, 546-554.	4.8	5
35	Thermal Shock Resistance of APS 8YSZ Thermal Barrier Coatings on Titanium Alloy. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 335-343.	3.1	7
36	Synthesis and characterization of Yb and Er based monosilicate powders and durability of plasma sprayed Yb ₂ SiO ₅ coatings on C/Câ€“SiC composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 184-189.	3.5	27

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37	Preparation and thermophysical properties of nano-sized Ln ₂ Zr ₂ O ₇ (Ln=La, Nd, Sm, and Gd) ceramics with pyrochlore structure. Journal of Materials Science, 2012, 47, 4392-4399.	3.7	67
38	Effect of Zr/Ce molar ratio on the structure of powders and Zr _{1-x} Ce _x O ₂ coatings on quartz fiber reinforced polyimide matrix composites via sol-gel process. Journal of Sol-Gel Science and Technology, 2012, 61, 213-223.	2.4	11
39	Formation mechanism of Fe ₂ O ₃ hollow fibers by direct annealing of the electrospun composite fibers and their magnetic, electrochemical properties. CrystEngComm, 2011, 13, 2863.	2.6	85
40	Fabrication of CoFe ₂ O ₄ hollow fibers by direct annealing of the electrospun composite fibers and their magnetic properties. CrystEngComm, 2011, 13, 2268.	2.6	46
41	Hot corrosion behaviour of plasma sprayed YSZ/LaMgAl ₁₁ O ₁₉ composite coatings in molten sulfate-vanadate salt. Corrosion Science, 2011, 53, 2335-2343.	6.6	111
42	Improvement of thermal shock resistance for thermal barrier coating on aluminum alloy with various electroless interlayers. Surface and Coatings Technology, 2011, 206, 29-36.	4.8	16
43	Thermal aging behavior of plasma sprayed LaMgAl ₁₁ O ₁₉ thermal barrier coating. Journal of the European Ceramic Society, 2011, 31, 2285-2294.	5.7	73
44	Preparation and Characterization of 8YSZ Thermal Barrier Coatings on Rare Earth-Magnesium Alloy. Journal of Thermal Spray Technology, 2011, 20, 948-957.	3.1	36
45	Microstructure and Thermal Cycling Behavior of Air Plasma-Sprayed YSZ/LaMgAl ₁₁ O ₁₉ Composite Coatings. Journal of Thermal Spray Technology, 2011, 20, 1328-1338.	3.1	24
46	Effect of reactant C/Ti ratio on the stoichiometry of Combustion-synthesized TiC _x in Ti-C system. Journal of the Ceramic Society of Japan, 2009, 117, 525-528.	1.1	5
47	Reaction Behavior and Mechanism during Self-Propagating High-Temperature Synthesis Reaction in an Al-TiO ₂ -B ₄ C System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 613-618.	2.1	6
48	Effect of TiO ₂ addition on the combustion synthesis in the Ti-B ₄ C system. Journal of Materials Research, 2008, 23, 1327-1333.	2.6	3
49	Reaction synthesis of Ti-TiB ₂ /Al composites from an Al-Ti-B ₄ C system. Journal of Materials Science, 2007, 42, 9927-9933.	3.7	38
50	Hot corrosion behavior of Yb ₂ Si ₂ O ₇ ceramic by NaVO ₃ at 500 °C to 900 °C. Journal of Asian Ceramic Societies, 0, , 1-7.	2.3	0