Peng Wang

List of Publications by Year
in descending order

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56	863	623734	552781
papers	citations	14 h-index	26 g-index

56	56	56	776
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Noble-Metal Nanoframes and Their Catalytic Applications. Chemical Reviews, 2021, 121, 796-833.	47.7	115
2	Graphene oxide grafted carbon fiber reinforced siliconborocarbonitride ceramics with enhanced thermal stability. Carbon, 2015, 95, 157-165.	10.3	66
3	Ablation resistance of ZrB2SiC/SiC coating prepared by pack cementation for graphite. Journal of Alloys and Compounds, 2016, 682, 203-207.	5.5	44
4	(ZrB2â€“SiC)/SiC oxidation protective coatings for graphite materials. Ceramics International, 2015, 41, 6941-6949.	4.8	42
5	Evaporation-condensation derived silicon carbide membrane from silicon carbide particles with different sizes. Journal of the European Ceramic Society, 2019, 39, 1781-1787.	5.7	37
6	Oxidation protective ZrB2â€“SiC coatings with ferrocene addition on SiC coated graphite. Ceramics International, 2016, 42, 2654-2661.	4.8	28
7	Microstructure, surface emissivity and ablation resistance of multilayer coating for lightweight and porous carbonâ€“bonded carbon fiber composites. Journal of Alloys and Compounds, 2016, 685, 799-805.	5.5	25
8	One step co-sintering of silicon carbide ceramic membrane with the aid of boron carbide. Journal of the European Ceramic Society, 2021, 41, 1181-1188.	5.7	25
9	Fabrication of ZrO2 whisker modified ZrO2 ceramics by oscillatory pressure sintering. Ceramics International, 2020, 46, 17684-17690.	4.8	22
10	Zirconia ultrafiltration membranes on silicon carbide substrate: microstructure and water flux. Journal of the European Ceramic Society, 2020, 40, 4290-4298.	5.7	22
11	A ZrB₂â€“SiC/SiC oxidation protective dual-layer coating for carbon/carbon composites. Advances in Applied Ceramics, 2017, 116, 462-467.	1.1	21
12	Electrical properties of ZrB2â€“SiC ceramics with potential for heating element applications. Ceramics International, 2014, 40, 9549-9553.	4.8	19
13	Enhanced sinterability and electrical performance of Sm2O3 doped CeO2/BaCeO3 electrolytes for intermediate-temperature solid oxide fuel cells through Bi2O3 co-doping. Ceramics International, 2019, 45, 7667-7672.	4.8	17
14	Influence of surface oxidation on the radiative properties of ZrB2-SiC composites. Applied Surface Science, 2017, 409, 1-7.	6.1	16
15	Crack tolerant silicon carbide ceramics prepared by liquid-phase assisted oscillatory pressure sintering. Ceramics International, 2020, 46, 18965-18969.	4.8	16
16	Tuning microstructures and separation behaviors of pure silicon carbide membranes. Ceramics International, 2019, 45, 18788-18794.	4.8	15
17	Mechanical and thermal shock properties of laminated ZrB2-SiC/SiCw ceramics. Ceramics International, 2019, 45, 6503-6508.	4.8	15
18	Microstructure and ablation behavior of double anti-oxidation protection for carbon-bonded carbon fiber composites. Ceramics International, 2017, 43, 783-790.	4.8	14

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19	Fracture toughness and R-curve behavior of laminated ZrB2â€“SiC/SiCw ceramic. Journal of Alloys and Compounds, 2019, 784, 96-101.	5.5	14
20	Effect of grain size on the electrical performance of BaZr0.1Ce0.7Y0.1Yb0.1O3-Î´ solid electrolytes with addition of NiO. Ceramics International, 2019, 45, 622-626.	4.8	14
21	Microstructure and fracture strength of silicon nitride ceramics consolidated by oscillatory pressure sintering. Ceramics International, 2019, 45, 15671-15675.	4.8	13
22	Microstructure and ablation properties of SiC/ZrB2â€“SiC/ZrB2/SiC multilayer coating on graphite. Journal of Alloys and Compounds, 2019, 781, 26-36.	5.5	13
23	The indentation thermal shock behavior of laminated ZrB2â€“SiC ceramics with strong interfaces. Ceramics International, 2016, 42, 17489-17496.	4.8	12
24	Fracture behavior of laminated ZrB2â€“SiC ceramics at high temperature in air. Ceramics International, 2018, 44, 4385-4391.	4.8	12
25	Tribological properties of carbon fiber toughened SiC prepared by hot pressing sintering. Ceramics International, 2019, 45, 832-838.	4.8	12
26	Enhanced strength and toughness of silicon carbide ceramics by graphene platelet-derived laminated reinforcement. Journal of Alloys and Compounds, 2020, 834, 155252.	5.5	12
27	In Situ 3D-to-2D Transformation of Manganese-Based Layered Silicates for Tumor-Specific T₁-Weighted Magnetic Resonance Imaging with High Signal-to-Noise and Excretability. ACS Applied Materials & Interfaces, 2020, 12, 24644-24654.	8.0	11
28	Microstructure, surface stress and surface temperature response of ZrB2â€“SiC based coatings. Journal of Alloys and Compounds, 2020, 843, 156084.	5.5	11
29	Ablative properties of laminated ZrB2-SiC ceramic modified by SiC whisker in oxyacetylene environment. Corrosion Science, 2021, 182, 109283.	6.6	11
30	ZrB2 grains synthesized on graphite by chemical vapor deposition. Journal of Alloys and Compounds, 2017, 698, 27-32.	5.5	10
31	Sol-gel derived zirconia membrane on silicon carbide substrate. Journal of the European Ceramic Society, 2019, 39, 3804-3811.	5.7	10
32	Enhanced mechanical properties of laminated ZrB2â€“SiC ceramics with porous Si3N4 interface. Ceramics International, 2020, 46, 17003-17009.	4.8	10
33	Toughness and R-curve behaviour of laminated Si3N4/SiCw ceramics. Ceramics International, 2021, 47, 18693-18698.	4.8	10
34	Effect of surface oxidation on the flexural strength of ZrB2â€“SiC composites. Journal of Alloys and Compounds, 2015, 620, 142-148.	5.5	9
35	Ablation behavior of laminated Graphite/ZrB2-SiC ceramics in two different directions. Ceramics International, 2018, 44, 15674-15680.	4.8	9
36	High toughness and R-curve behaviour of laminated SiC/graphite ceramics. Ceramics International, 2020, 46, 22973-22979.	4.8	9

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37	Zirconia ceramics consolidated by oscillatory pressure sintering and subsequent carburization. Ceramics International, 2019, 45, 9038-9042.	4.8	8
38	Polycrystalline ZrB₂coating prepared on graphite by chemical vapor deposition. Physica Status Solidi (B): Basic Research, 2016, 253, 1590-1595.	1.5	7
39	Preparation of hydrazine-modified CMC/Fe₃O₄hybrid magnetic particles for adsorption of Reactive Blue 21 from water. Desalination and Water Treatment, 2016, 57, 14986-14996.	1.0	7
40	Oxidation behaviour of laminated BN/ZrB2â€“SiC ceramics. Ceramics International, 2018, 44, 8374-8379.	4.8	7
41	Experiment and simulation analysis on thermal shock resistance of laminated ceramics with graphite and boron nitride interfaces. Ceramics International, 2021, 47, 11973-11978.	4.8	7
42	Thermal cycling resistance of ZrB2â€'SiC coatings with MgO additive on SiC coated graphite. Ceramics International, 2018, 44, 2496-2500.	4.8	6
43	Preserving the shape of silver nanocubes under corrosive environment by covering their edges and corners with iridium. Nanoscale, 2020, 12, 20859-20867.	5.6	6
44	Crack tolerant TaCâ€“SiC ceramics prepared by spark plasma sintering. Ceramics International, 2020, 46, 25230-25235.	4.8	6
45	Enhanced photocatalytic activity of nonstoichiometric crystalline TaO2F and Ta2O5 with carbon coating. Ceramics International, 2022, 48, 1857-1868.	4.8	6
46	Mechanical and ablation properties of laminated ZrB2-SiC ceramics with Si3N4 whisker interface. Corrosion Science, 2022, 197, 110051.	6.6	6
47	Synthesis of (NH4)2Ta2O3F6 mesocrystals via a hydrothermal route and their conversion to TaO2F and Ta2O5 mesocrystals for photocatalytic dyes degradation. Ceramics International, 2021, 47, 13865-13873.	4.8	5
48	Effect of silicon/graphite ratio and temperature on oxidation protective properties of SiC/ZrB2â€“SiC coatings prepared by pack cementation. Ceramics International, 2022, 48, 5187-5196.	4.8	5
49	Layered Ti-based oxide hierarchical nanocomposites derived from flash oxidation of MXene with enhanced photocatalytic and microwave transparent performance. Ceramics International, 2022, 48, 20146-20157.	4.8	5
50	Mechanical properties of laminated HfB2-SiC/SiCw material modified with silicon carbide whisker layer. Ceramics International, 2019, 45, 21242-21248.	4.8	4
51	Grain boundary conduction behaviors of ultra-fine grained CeO2/BaCeO3 based electrolytes. Ceramics International, 2022, 48, 25314-25321.	4.8	4
52	Effect of surface microstructure on the temperature response of ZrB2â€“SiC composites. Ceramics International, 2015, 41, 4218-4222.	4.8	3
53	Improved sintering behavior and electrical performance of Ce0.8Sm0.2O2-Î´ - BaZr0.1Ce0.7Y0.2O3-Î´ (SDC) Tj ETQq1 1 0.784314 rgBT / International, 2019, 45, 24702-24706.	4.8	3
54	SiC whiskers: A strategy to modify the high-temperature performance of laminated ZrB2â€“SiC ceramics. Ceramics International, 2020, 46, 9347-9352.	4.8	3

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55	Hydrothermal synthesis of UO2 nanoparticles and their formation mechanism. Ceramics International, 2022, 48, 16241-16250.	4.8	3
56	Mechanical Properties of NanoSiC Reinforced ZrB₂-Based Ceramic Composite. Materials Science Forum, 2013, 745-746, 560-564.	0.3	1