

# Lei Zhuang

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

751  
citations

687363

13  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro/nano multiscale reinforcing strategies toward extreme high-temperature applications: Take carbon/carbon composites and their coatings as the examples. <i>Journal of Materials Science and Technology</i> , 2022, 96, 31-68.	10.7	113
2	Ablation behaviour of C/C and C/Câ€“ZrCâ€“SiC composites with cone-shaped holes under an oxyacetylene flame. <i>Corrosion Science</i> , 2016, 102, 84-92.	6.6	90
3	Comparison of the oxidation behaviors of SiC coatings on C/C composites prepared by pack cementation and chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2016, 302, 56-64.	4.8	84
4	Nanowire-toughened transition layer to improve the oxidation resistance of SiCâ€“MoSi2â€“ZrB2 coating for C/C composites. <i>Corrosion Science</i> , 2016, 111, 259-266.	6.6	76
5	SiCnw/PyC core-shell networks to improve the bonding strength and oxyacetylene ablation resistance of ZrB2â€“ZrC coating for C/Câ€“ZrB2â€“ZrCâ€“SiC composites. <i>Carbon</i> , 2017, 124, 675-684.	10.3	69
6	Effect of carbon nanotubes on the toughness, bonding strength and thermal shock resistance of SiC coating for C/Câ€“ZrCâ€“SiC composites. <i>Journal of Alloys and Compounds</i> , 2015, 645, 206-212.	5.5	56
7	Bonding strength, thermal shock and oxidation resistance of interlocking (Zr,Hf)C-SiC/SiC double-layer coating for C/C composites. <i>Surface and Coatings Technology</i> , 2017, 315, 436-442.	4.8	54
8	Ablation resistance of wedge-shaped C/C-ZrB2-ZrC-SiC composites exposed to an oxyacetylene torch. <i>Corrosion Science</i> , 2016, 112, 462-470.	6.6	44
9	Effect of pre-oxidation treatment on the bonding strength and thermal shock resistance of SiC coating for C/Câ€“ZrCâ€“SiC composites. <i>Ceramics International</i> , 2015, 41, 6956-6964.	4.8	37
10	Improved thermal shock resistance of SiCnw/PyC core-shell structure-toughened CVD-SiC coating. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2808-2814.	5.7	36
11	Oxidation protection of C/C composites: Coating development with thermally stable SiC@PyC nanowires and an interlocking TaB2-SiC structure. <i>Corrosion Science</i> , 2019, 148, 307-316.	6.6	35
12	In-situ PIP-SiC NWs-toughened SiCâ€“CrSi2â€“Cr3C2â€“MoSi2â€“Mo2C coating for oxidation protection of carbon/carbon composites. <i>Journal of Alloys and Compounds</i> , 2016, 675, 348-354.	5.5	25
13	Carbon nanotube-toughened interlocking buffer layer to improve the adhesion strength and thermal shock resistance of SiC coating for C/Câ€“ZrCâ€“SiC composites. <i>Journal of Materiomics</i> , 2015, 1, 245-252.	5.7	21
14	Catalyst-free in situ synthesis of ZrC nanowires with excellent thermal stability. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5825-5836.	3.8	9
15	Nanotube/Nanowire-Toughened Carbon/Carbon Composites and Their Coatings. , 2019, , 495-528.		2