

# Maozhong Yi

## List of Publications by Year in descending order

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30  
papers

544  
citations

623734

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642732

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docs citations

30  
times ranked

369  
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#	ARTICLE	IF	CITATIONS
1	Surface structures of PAN-based carbon fibers and their influences on the interface formation and mechanical properties of carbon-carbon composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 480-488.	7.6	57
2	Effect of carbon fiber reinforcement on the tribological performance and behavior of aircraft carbon brake discs. <i>Carbon</i> , 2017, 117, 279-292.	10.3	43
3	Ablation property of a C/C-Cu composite prepared by pressureless infiltration. <i>Materials Letters</i> , 2011, 65, 2076-2078.	2.6	40
4	Effect of amorphous carbon on the tensile behavior of polyacrylonitrile (PAN)-based carbon fibers. <i>Journal of Materials Science</i> , 2019, 54, 8800-8813.	3.7	37
5	New insights into the microstructure of the friction surface layer of C/C composites. <i>Carbon</i> , 2011, 49, 4554-4562.	10.3	34
6	Microstructure and ablation performance of SiC-ZrC coated C/C composites prepared by reactive melt infiltration. <i>Ceramics International</i> , 2018, 44, 8314-8321.	4.8	32
7	Effects of foam copper on the mechanical properties and tribological properties of graphite/copper composites. <i>Tribology International</i> , 2020, 148, 106164.	5.9	29
8	Structural transformation of carbon/carbon composites for aircraft brake pairs in the braking process. <i>Tribology International</i> , 2016, 102, 497-506.	5.9	28
9	Effect of the W addition content on valence electron structure and properties of MoSi <sub>2</sub> -based solid solution alloys. <i>Materials Chemistry and Physics</i> , 2011, 129, 990-994.	4.0	26
10	Differences in microstructure and properties of C/C composites brazed with Ag-Cu-Ti and Ni-Cr-P-Ti paste brazing filler. <i>Vacuum</i> , 2019, 168, 108804.	3.5	23
11	Mechanical and ablation properties of a C/C-HfB <sub>2</sub> -SiC composite prepared by high-solid-loading slurry impregnation combined with precursor infiltration and pyrolysis. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6160-6170.	5.7	20
12	Effect of high temperature treatment on the microstructure and elastoplastic properties of polyacrylonitrile-based carbon fibers. <i>Carbon</i> , 2020, 158, 783-794.	10.3	18
13	Effect of high-temperature heat treatment on the microstructure and mechanical behavior of PIP-based C/C-SiC composites with SiC filler. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7610-7619.	5.7	18
14	Microstructure and ablation behaviour of a carbon/carbon-ZrC-Cu composite prepared by adding Ti to Zr/Cu powder mixture. <i>Corrosion Science</i> , 2019, 160, 108175.	6.6	16
15	Reactive Hot Pressing of SiC/MoSi <sub>2</sub> Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3708-3711.	3.8	15
16	Ablation behavior of a C/C-ZrC-SiC composite based on high-solid-loading slurry impregnation under oxyacetylene torch. <i>Journal of the European Ceramic Society</i> , 2022, 42, 4748-4758.	5.7	14
17	Microstructural development of a C/C-ZrC-Cu composite prepared by reactive melt infiltration with Zr/Cu powder mixture. <i>Materials Characterization</i> , 2018, 138, 238-244.	4.4	13
18	Effect of silane grafted h-BN fillers on microstructure and mechanical properties of CVI-based C/C-BN composites. <i>Materials Characterization</i> , 2021, 171, 110765.	4.4	12

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19	Effect of crystallinity of PAN-based carbon fiber surfaces on the formation characteristics of silicon carbide coating. <i>Materials Research Express</i> , 2019, 6, 085603.	1.6	11
20	Effects of silanization of C/C composites and grafting of h-BN fillers on the microstructure and interfacial properties of CVI-based C/C-BN composites. <i>Ceramics International</i> , 2021, 47, 3484-3497.	4.8	11
21	A thick SiC-Si coating prepared by one-step pack cementation for long-term protection of carbon/carbon composites against oxidation at 1773ÅK. <i>Corrosion Science</i> , 2022, 200, 110223.	6.6	9
22	Influence of preparation method on microstructure and tribological behavior of C/C-BN composites. <i>Ceramics International</i> , 2021, 47, 12879-12896.	4.8	7
23	Ablation Resistance of C/C Composites with Atmospheric Plasma-Sprayed W Coating. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 1657-1665.	3.1	6
24	Isothermal and cyclic oxidation behavior of a sandwiched coating for C/C composites. <i>Ceramics International</i> , 2021, , .	4.8	5
25	Structural and chemical study of C/C composites before and after braking tests. <i>Wear</i> , 2011, 272, 1-1.	3.1	4
26	Improving the wettability between liquid Cu and carbon/carbon composite by addition of Ti. <i>Materials Research Express</i> , 2019, 6, 125610.	1.6	4
27	Microstructure and Ablation Behavior of W/ZrC/SiC Coating on C/C Composites Prepared by Reactive Melt Infiltration and Atmospheric Plasma Spraying. <i>Advanced Engineering Materials</i> , 2021, 23, 2001457.	3.5	4
28	Effects of h-BN/SiC ratios on oxidation mechanism and kinetics of C/C-BN-SiC composites. <i>Journal of the European Ceramic Society</i> , 2021, , .	5.7	4
29	Microstructure and Ablation Behavior of W Coating Prepared by Atmospheric Plasma Spraying for Zr/Cu Infiltrated C/C Composites. <i>Advanced Engineering Materials</i> , 2018, 20, 1800010.	3.5	3
30	Effect of preparation method on the mechanism for oxidation of C/C-BN composites. <i>Ceramics International</i> , 2022, 48, 525-539.	4.8	1