

Xiaomeng Fan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1126713/publications.pdf>

Version: 2024-02-01

46
papers

1,701
citations

279798

23
h-index

276875

41
g-index

47
all docs

47
docs citations

47
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical and electromagnetic shielding properties of carbon fiber reinforced silicon carbide matrix composites. <i>Carbon</i> , 2015, 95, 10-19.	10.3	176
2	Electromagnetic wave absorption properties of a carbon nanotube modified by a tetrapyrroline porphyrazine interface layer. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7479-7488.	5.5	146
3	Electrospun fibrous materials and their applications for electromagnetic interference shielding: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 143, 106309.	7.6	130
4	Controllable synthesis of mesoporous carbon hollow microsphere twined by CNT for enhanced microwave absorption performance. <i>Journal of Materials Science and Technology</i> , 2020, 59, 164-172.	10.7	125
5	Effect of PyC interphase thickness on mechanical behaviors of SiBC matrix modified C/SiC composites fabricated by reactive melt infiltration. <i>Carbon</i> , 2014, 77, 886-895.	10.3	88
6	Ti ₃ C ₂ T _x /MoS ₂ Self-Rolling Rod-Based Foam Boosts Interfacial Polarization for Electromagnetic Wave Absorption. <i>Advanced Science</i> , 2022, 9, e2201118.	11.2	85
7	Optically transparent and flexible broadband microwave metamaterial absorber with sandwich structure. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	77
8	Processing, microstructure and ablation behavior of C/SiC-Ti ₃ SiC ₂ composites fabricated by liquid silicon infiltration. <i>Corrosion Science</i> , 2013, 74, 98-105.	6.6	74
9	Improvement of the mechanical and thermophysical properties of C/SiC composites fabricated by liquid silicon infiltration. <i>Composites Science and Technology</i> , 2015, 115, 21-27.	7.8	61
10	Friction and wear behaviors of C/C-SiC composites containing Ti ₃ SiC ₂ . <i>Wear</i> , 2012, 274-275, 188-195.	3.1	59
11	Interfacial and defect polarization in MXene-like laminated spinel for electromagnetic wave absorption application. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 813-825.	9.4	53
12	Synthesis of Ti ₃ SiC ₂ -based materials by reactive melt infiltration. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 45, 1-7.	3.8	39
13	Mechanical Behavior and Electromagnetic Interference Shielding Properties of C/SiC-Ti ₃ SiC ₂ /Si(Al)C ₂ . <i>Journal of the American Ceramic Society</i> , 2016, 99, 1717-1724.	3.8	39
14	A new route to fabricate SiB ₄ modified C/SiC composites. <i>Journal of the European Ceramic Society</i> , 2010, 30, 1955-1962.	5.7	35
15	Oxidation behavior of SiBC matrix modified C/SiC composites with different PyC interphase thicknesses. <i>Ceramics International</i> , 2015, 41, 1695-1700.	4.8	32
16	Oxidation resistance of SiC/SiC composites containing SiBC matrix fabricated by liquid silicon infiltration. <i>Journal of the European Ceramic Society</i> , 2018, 38, 479-485.	5.7	32
17	Oxidation behaviors of carbon fiber reinforced multilayer SiC-Si ₃ N ₄ matrix composites. <i>Journal of Advanced Ceramics</i> , 2022, 11, 354-364.	17.4	32
18	Multiscale designed SiC _f /Si ₃ N ₄ composite for low and high frequency cooperative electromagnetic absorption. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5552-5563.	3.8	29

#	ARTICLE	IF	CITATIONS
19	Microstructure and Properties of Carbon Fiber Reinforced SiC Matrix Composites Containing Ti ₃ SiC ₂ . Advanced Engineering Materials, 2014, 16, 670-683.	3.5	28
20	Ti ₃ Si(Al) ₂ C ₂ -based ceramics fabricated by reactive melt infiltration with Al ₇₀ Si ₃₀ alloy. Journal of the European Ceramic Society, 2014, 34, 1493-1499.	5.7	26
21	Electrical conductivity and electromagnetic shielding properties of Ti ₃ SiC ₂ /SiC functionally graded materials prepared by positioning impregnation. Journal of the European Ceramic Society, 2019, 39, 3643-3650.	5.7	25
22	Improved tensile strength and toughness of dense C/SiC-SiBC with tailored PyC interphase. Journal of the European Ceramic Society, 2019, 39, 1766-1774.	5.7	25
23	Microstructure and properties of dense Tyranno-ZMI SiC/SiC containing Ti ₃ Si(Al) ₂ C ₂ with plastic deformation toughening mechanism. Journal of the European Ceramic Society, 2018, 38, 1069-1078.	5.7	24
24	Failure behavior of interfacial domain in SiC-matrix based composites. Journal of Materials Science and Technology, 2021, 88, 1-10.	10.7	23
25	Near-Net-Shape Fabrication of Ti ₃ SiC ₂ -based Ceramics by Three-Dimensional Printing. International Journal of Applied Ceramic Technology, 2015, 12, 71-80.	2.1	19
26	Low Infrared Emissivity and Strong Stealth of Ti-Based MXenes. Research, 2022, 2022, .	5.7	17
27	Mechanical and Electromagnetic Interference Shielding Behavior of C/SiC Composite Containing Ti ₃ SiC ₂ . Advanced Engineering Materials, 2018, 20, 1700590.	3.5	16
28	Modification and toughening of 3D needled C/SiC composite by deformable MAX phase-based matrix. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 397-405.	5.6	15
29	Electromagnetic interference shielding Ti ₃ C ₂ T ₂ -bonded carbon black films with enhanced absorption performance. Chinese Chemical Letters, 2020, 31, 1026-1029.	9.0	15
30	In-situ growth of MAX phase coatings on carbonised wood and their terahertz shielding properties. Journal of Advanced Ceramics, 2021, 10, 1291-1298.	17.4	15
31	Impedance matching optimization of SiCf/Si ₃ N ₄ -SiOC composites for excellent microwave absorption properties. Ceramics International, 2022, 48, 1889-1897.	4.8	15
32	Design and fabrication of Al ₂ O ₃ -SiC/SiCN composite with excellent microwave absorbing and mechanical properties. Journal of the American Ceramic Society, 2020, 103, 6255-6264.	3.8	14
33	In-plane thermal expansion behavior of dense ceramic matrix composites containing SiBC matrix. Journal of the European Ceramic Society, 2020, 40, 3414-3422.	5.7	14
34	The microstructure and properties of SiC/SiC-based composites fabricated by low-temperature melt infiltration of Al-Si alloy. Ceramics International, 2016, 42, 10144-10150.	4.8	13
35	Highly flexible, light-weight and mechanically enhanced (Mo ₂ C/PyC) _f fabrics for efficient electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2020, 136, 105955.	7.6	12
36	Progress in research and development on matrix modification of continuous fiber-reinforced silicon carbide matrix composites. Advanced Composites and Hybrid Materials, 2018, 1, 685-695.	21.1	11

#	ARTICLE	IF	CITATIONS
37	A high-temperature structural and wave-absorbing SiC fiber reinforced Si ₃ N ₄ matrix composites. <i>Ceramics International</i> , 2021, 47, 8191-8199.	4.8	11
38	Relationship between microstructure and electromagnetic properties of SiC fibers. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4352-4362.	3.8	10
39	Enhanced microwave absorption properties of polymer-derived SiC/SiCN composite ceramics modified by TiC. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25895-25907.	2.2	10
40	A reduced graphene oxide/bi-MOF-derived carbon composite as high-performance microwave absorber with tunable dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11774-11783.	2.2	8
41	Oxidation Behavior of Tyranno ZMI-SiC Fiber/SiC-SiBC Matrix Composite from 800 to 1200 Å°C. <i>Materials</i> , 2018, 11, 1367.	2.9	7
42	Synthesis and Electromagnetic Interference Shielding Performance of Ti ₃ SiC ₂ -Based Ceramics Fabricated by Liquid Silicon Infiltration. <i>Materials</i> , 2020, 13, 328.	2.9	5
43	Microstructure and mechanical properties of Zr ₃ Al ₃ C ₅ -based ceramics synthesized by Al-Si melt infiltration. <i>Journal of Advanced Ceramics</i> , 2021, 10, 529-536.	17.4	4
44	Ablation Behavior of Zr-Al(Si)-C Layered Carbides Modified 3D Needled C/SiC Composites. <i>Advanced Engineering Materials</i> , 2019, 21, 1800936.	3.5	3
45	Electromagnetic Performance of CVD Si ₃ N ₄ -SiCN Ceramics Oxidized from 500 to 1000 Å°C. <i>Advanced Engineering Materials</i> , 2019, 21, 1800834.	3.5	1
46	Microwave absorption design of water by the combination of dipole polarization and interfacial polarization. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6411-6420.	2.2	0