Lai-fei Cheng

List of Publications by Year
in descending order

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301 papers	16,867 citations	18465 62 h-index	17580 121 g-index
307 all docs	307 docs citations	307 times ranked	9303 citing authors

#	Article	IF	Citations
1	Ti₃C₂ MXenes with Modified Surface for High-Performance Electromagnetic Absorption and Shielding in the X-Band. ACS Applied Materials & Interfaces, 2016, 8, 21011-21019.	4.0	775
2	Selfâ€Assembly Coreâ€“Shell Grapheneâ€Bridged Hollow MXenes Spheres 3D Foam with Ultrahigh Specific EM Absorption Performance. Advanced Functional Materials, 2018, 28, 1803938.	7.8	561
3	Carbon Nanotubeâ€“Multilayered Graphene Edge Plane Coreâ€“Shell Hybrid Foams for Ultrahighâ€Performance Electromagneticâ€Interference Shielding. Advanced Materials, 2017, 29, 1701583.	11.1	560
4	Three-dimensional reduced graphene oxide foam modified with ZnO nanowires for enhanced microwave absorption properties. Carbon, 2017, 116, 50-58.	5.4	525
5	Graphene-wrapped ZnO hollow spheres with enhanced electromagnetic wave absorption properties. Journal of Materials Chemistry A, 2014, 2, 16403-16409.	5.2	514
6	Electromagnetic properties of Siâ€“Câ€“N based ceramics and composites. International Materials Reviews, 2014, 59, 326-355.	9.4	499
7	Lightweight Ti₂CT_x MXene/Poly(vinyl alcohol) Composite Foams for Electromagnetic Wave Shielding with Absorption-Dominated Feature. ACS Applied Materials & Interfaces, 2019, 11, 10198-10207.	4.0	488
8	Carbon Hollow Microspheres with a Designable Mesoporous Shell for High-Performance Electromagnetic Wave Absorption. ACS Applied Materials & Interfaces, 2017, 9, 6332-6341.	4.0	428
9	Direct Growth of Edgeâ€Rich Graphene with Tunable Dielectric Properties in Porous Si₃N₄ Ceramic for Broadband Highâ€Performance Microwave Absorption. Advanced Functional Materials, 2018, 28, 1707205.	7.8	425
10	Electromagnetic wave absorption properties of graphene modified with carbon nanotube/poly(dimethyl siloxane) composites. Carbon, 2014, 73, 185-193.	5.4	424
11	Ti₃C₂MXenes modified with in situ grown carbon nanotubes for enhanced electromagnetic wave absorption properties. Journal of Materials Chemistry C, 2017, 5, 4068-4074.	2.7	345
12	Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. ACS Applied Materials & Interfaces, 2017, 9, 20038-20045.	4.0	323
13	Electromagnetic Wave Absorption Properties of Reduced Graphene Oxide Modified by Maghemite Colloidal Nanoparticle Clusters. Journal of Physical Chemistry C, 2013, 117, 19701-19711.	1.5	322
14	Flexible and Thermostable Graphene/SiC Nanowire Foam Composites with Tunable Electromagnetic Wave Absorption Properties. ACS Applied Materials & Interfaces, 2017, 9, 11803-11810.	4.0	315
15	Mesoporous carbon hollow microspheres with red blood cell like morphology for efficient microwave absorption at elevated temperature. Carbon, 2018, 132, 343-351.	5.4	280
16	Constructing hollow graphene nano-spheres confined in porous amorphous carbon particles for achieving full X band microwave absorption. Carbon, 2019, 142, 346-353.	5.4	253
17	Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. Advanced Optical Materials, 2019, 7, 1900267.	3.6	245
18	3D printed electrochemical energy storage devices. Journal of Materials Chemistry A, 2019, 7, 4230-4258.	5.2	232

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19	Synthesis and microwave absorption properties of SiC nanowires reinforced SiOC ceramic. Journal of the European Ceramic Society, 2014, 34, 257-266.	2.8	222
20	Hierarchical graphene/SiC nanowire networks in polymer-derived ceramics with enhanced electromagnetic wave absorbing capability. Journal of the European Ceramic Society, 2016, 36, 2695-2703.	2.8	221
21	Macroscopic bioinspired graphene sponge modified with in-situ grown carbon nanowires and its electromagnetic properties. Carbon, 2017, 111, 94-102.	5.4	184
22	Fabrication and electromagnetic interference shielding effectiveness of carbon nanotube reinforced carbon fiber/pyrolytic carbon composites. Carbon, 2014, 68, 501-510.	5.4	178
23	A controllable heterogeneous structure and electromagnetic wave absorption properties of Ti₂CT_xMXene. Journal of Materials Chemistry C, 2017, 5, 7621-7628.	2.7	177
24	Mechanical and electromagnetic shielding properties of carbon fiber reinforced silicon carbide matrix composites. Carbon, 2015, 95, 10-19.	5.4	176
25	MXene Nanofibers as Highly Active Catalysts for Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 8976-8982.	3.2	174
26	Electrospinning of Fe/SiC Hybrid Fibers for Highly Efficient Microwave Absorption. ACS Applied Materials & Interfaces, 2017, 9, 7265-7271.	4.0	173
27	Ultralight MXene-Coated, Interconnected SiCnws Three-Dimensional Lamellar Foams for Efficient Microwave Absorption in the X-Band. ACS Applied Materials & Interfaces, 2018, 10, 34524-34533.	4.0	172
28	Laminated Hybrid Junction of Sulfurâ€Doped TiO₂ and a Carbon Substrate Derived from Ti₃C₂ MXenes: Toward Highly Visible Lightâ€Driven Photocatalytic Hydrogen Evolution. Advanced Science, 2018, 5, 1700870.	5.6	163
29	Ultralight lamellar amorphous carbon foam nanostructured by SiC nanowires for tunable electromagnetic wave absorption. Carbon, 2017, 122, 718-725.	5.4	160
30	In-situ synthesis of hierarchically porous and polycrystalline carbon nanowires with excellent microwave absorption performance. Carbon, 2016, 107, 36-45.	5.4	158
31	Electromagnetic Wave Absorption Properties of ZnO-Based Materials Modified with ZnAl₂O₄ Nanograins. Journal of Physical Chemistry C, 2013, 117, 2135-2146.	1.5	149
32	Flexible SiC/Si₃N₄ Composite Nanofibers with in Situ Embedded Graphite for Highly Efficient Electromagnetic Wave Absorption. ACS Applied Materials & Interfaces, 2017, 9, 28844-28858.	4.0	142
33	Highly flexible, foldable and stretchable Niâ€“Co layered double hydroxide/polyaniline/bacterial cellulose electrodes for high-performance all-solid-state supercapacitors. Journal of Materials Chemistry A, 2018, 6, 16617-16626.	5.2	128
34	Interfacial Engineering of Cobalt Nitrides and Mesoporous Nitrogen-Doped Carbon: Toward Efficient Overall Water-Splitting Activity with Enhanced Charge-Transfer Efficiency. ACS Energy Letters, 2020, 5, 692-700.	8.8	125
35	One-dimensional carbon/SiC nanocomposites with tunable dielectric and broadband electromagnetic wave absorption properties. Carbon, 2017, 125, 207-220.	5.4	120
36	2Dâ€Layered Carbon/TiO₂ Hybrids Derived from Ti₃C₂MXenes for Photocatalytic Hydrogen Evolution under Visible Light Irradiation. Advanced Materials Interfaces, 2017, 4, 1700577.	1.9	120

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37	Improved dielectric and electromagnetic interference shielding properties of ferrocene-modified polycarbosilane derived SiC/C composite ceramics. Journal of the European Ceramic Society, 2014, 34, 2187-2201.	2.8	117
38	The applications of carbon nanotubes and graphene in advanced rechargeable lithium batteries. Journal of Materials Chemistry A, 2016, 4, 8932-8951.	5.2	114
39	Enhanced Flexibility and Microwave Absorption Properties of HfC/SiC Nanofiber Mats. ACS Applied Materials & Interfaces, 2018, 10, 29876-29883.	4.0	107
40	Core/shell structured C/ZnO nanoparticles composites for effective electromagnetic wave absorption. RSC Advances, 2016, 6, 6467-6474.	1.7	101
41	Constructing a tunable heterogeneous interface in bimetallic metal-organic frameworks derived porous carbon for excellent microwave absorption performance. Carbon, 2019, 148, 421-429.	5.4	100
42	Ultralight Cellular Foam from Cellulose Nanofiber/Carbon Nanotube Self-Assemblies for Ultrabroad-Band Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 22628-22636.	4.0	99
43	3D Structural Strengthening Urchinâ€Like Cu(OH)₂â€Based Symmetric Supercapacitors with Adjustable Capacitance. Advanced Functional Materials, 2019, 29, 1903588.	7.8	97
44	3D printing of structured electrodes for rechargeable batteries. Journal of Materials Chemistry A, 2020, 8, 10670-10694.	5.2	95
45	High-temperature dielectric and microwave absorption properties of Si3N4â€“SiC/SiO2 composite ceramics. Journal of Materials Science, 2015, 50, 1478-1487.	1.7	91
46	Controllable synthesis of defective carbon nanotubes/Sc2Si2O7 ceramic with adjustable dielectric properties for broadband high-performance microwave absorption. Carbon, 2019, 147, 276-283.	5.4	91
47	Mechanical and dielectric properties of porous and wave-transparent Si3N4-Si3N4 composite ceramics fabricated by 3D printing combined with chemical vapor infiltration. Journal of Advanced Ceramics, 2019, 8, 399-407.	8.9	87
48	Ti₃C₂T_x/MoS₂ Selfâ€Rolling Rodâ€Based Foam Boosts Interfacial Polarization for Electromagnetic Wave Absorption. Advanced Science, 2022, 9, e2201118.	5.6	85
49	Polymerâ€“ceramic conversion of a highly branched liquid polycarbosilane for SiC-based ceramics. Journal of Materials Science, 2008, 43, 2806-2811.	1.7	83
50	A sheath-core shaped ZrO2-SiC/SiO2 fiber felt with continuously distributed SiC for broad-band electromagnetic absorption. Chemical Engineering Journal, 2021, 419, 129414.	6.6	82
51	Deposition Mechanism for Chemical Vapor Deposition of Zirconium Carbide Coatings. Journal of the American Ceramic Society, 2008, 91, 1249-1252.	1.9	77
52	Optically transparent and flexible broadband microwave metamaterial absorber with sandwich structure. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	77
53	Superhydrophobic Self-Cleaning Hierarchical Micro-/Nanocomposite Coating with High Corrosion Resistance and Durability. ACS Sustainable Chemistry and Engineering, 2021, 9, 4111-4121.	3.2	77
54	Flexible, hydrophobic SiC ceramic nanofibers used as high frequency electromagnetic wave absorbers. Ceramics International, 2017, 43, 7424-7435.	2.3	76

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55	Tailoring strength and modulus by 3D printing different continuous fibers and filled structures into composites. Advanced Composites and Hybrid Materials, 2019, 2, 312-319.	9.9	75
56	SiC Nanofiber Mat: A Broad-Band Microwave Absorber, and the Alignment Effect. ACS Applied Materials & Interfaces, 2017, 9, 43072-43080.	4.0	74
57	Ultralight and flexible SiC nanoparticle-decorated carbon nanofiber mats for broad-band microwave absorption. Carbon, 2021, 171, 474-483.	5.4	73
58	Three-Dimensional Printing of Ti3SiC2-Based Ceramics. Journal of the American Ceramic Society, 2011, 94, 969-972.	1.9	72
59	Fe-doped SiC/SiO2 composites with ordered inter-filled structure for effective high-temperature microwave attenuation. Materials and Design, 2016, 92, 563-570.	3.3	71
60	Morphology Design of Co-electrospinning MnO-VN/C Nanofibers for Enhancing the Microwave Absorption Performances. ACS Applied Materials & Interfaces, 2020, 12, 13208-13216.	4.0	71
61	Effect of Aluminum Doping on Microwave Absorption Properties of <scp><scp>ZnO</scp></scp>/<scp><scp>ZrSiO</scp></scp>₄ Composite Ceramics. Journal of the American Ceramic Society, 2012, 95, 3158-3165.	1.9	67
62	A hierarchical oxygen vacancy-rich WO₃ with â€œnanowire-array-on-nanosheet-arrayâ€• structure for highly efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 6730-6739.	5.2	67
63	Defectâ€Engineered Graphene/Si₃N₄Multilayer Alternating Coreâ€Shell Nanowire Membrane: A Plainified Hybrid for Broadband Electromagnetic Wave Absorption. Advanced Functional Materials, 2022, 32, .	7.8	66
64	Reduced Graphene Oxide/Silicon Nitride Composite for Cooperative Electromagnetic Absorption in Wide Temperature Spectrum with Excellent Thermal Stability. ACS Applied Materials & Interfaces, 2019, 11, 5364-5372.	4.0	64
65	Ablation Resistance of Different Coating Structures for C/ZrB₂â€“SiC Composites Under Oxyacetylene Torch Flame. International Journal of Applied Ceramic Technology, 2009, 6, 145-150.	1.1	63
66	One-step synthesis of 2D-layered carbon wrapped transition metal nitrides from transition metal carbides (MXenes) for supercapacitors with ultrahigh cycling stability. Chemical Communications, 2018, 54, 2755-2758.	2.2	59
67	High temperature electromagnetic interference shielding of lightweight and flexible ZrC/SiC nanofiber mats. Chemical Engineering Journal, 2021, 404, 126521.	6.6	59
68	A 3D-printed stretchable structural supercapacitor with active stretchability/flexibility and remarkable volumetric capacitance. Journal of Materials Chemistry A, 2020, 8, 13646-13658.	5.2	57
69	Single-atom catalysts for CO oxidation, CO2 reduction, and O2 electrochemistry. Journal of Energy Chemistry, 2022, 65, 254-279.	7.1	56
70	The Oxidation Behavior of SiCâ€“ZrCâ€“SiCâ€Coated C/SiC Minicomposites at Ultrahigh Temperatures. Journal of the American Ceramic Society, 2010, 93, 3990-3992.	1.9	52
71	Effects of SiC fibers on microwave absorption and electromagnetic interference shielding properties of SiCf/SiCN composites. Ceramics International, 2016, 42, 19237-19244.	2.3	52
72	Electromagnetic shielding behavior of heat-treated Ti3C2TX MXene accompanied by structural and phase changes. Carbon, 2020, 165, 150-162.	5.4	52

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73	Water Vapor Corrosion Behavior of Scandium Silicates at 1400Â°C. Journal of the American Ceramic Society, 2009, 92, 193-196.	1.9	51
74	Prediction of stable hafnium carbides: Stoichiometries, mechanical properties, and electronic structure. Physical Review B, 2013, 88, .	1.1	51
75	The microstructure and electromagnetic wave absorption properties of near-stoichiometric SiC fibre. Ceramics International, 2017, 43, 3267-3273.	2.3	51
76	Sandwich-like SiCnw/C/Si3N4 porous layered composite for full X-band electromagnetic wave absorption at elevated temperature. Composites Part B: Engineering, 2020, 183, 107629.	5.9	51
77	Molecule editable 3D printed polymer-derived ceramics. Coordination Chemistry Reviews, 2020, 422, 213486.	9.5	51
78	Electromagnetic properties of SiO2 reinforced with both multi-wall carbon nanotubes and ZnO particles. Carbon, 2013, 64, 541-544.	5.4	49
79	Influence of temperature on dielectric properties and microwave absorbing performances of TiC nanowires/SiO2 composites. Ceramics International, 2014, 40, 15391-15397.	2.3	49
80	Microstructure and Mechanical Properties of Lu₂O₃â€Doped Porous Silicon Nitride Ceramics Using Phenolic Resin as Poreâ€Forming Agent. International Journal of Applied Ceramic Technology, 2010, 7, 391-398.	1.1	46
81	Dielectric and Electromagnetic Wave Absorbing Properties of Two Types ofÂSiC Fibres with Different Compositions. Journal of Materials Science and Technology, 2013, 29, 55-58.	5.6	46
82	Enhanced mechanical property and tunable dielectric property of SiCf/SiC-SiBCN composites by CVI combined with PIP. Journal of Advanced Ceramics, 2021, 10, 758-767.	8.9	46
83	Microwave absorption properties of multilayer impedance gradient absorber consisting of Ti3C2TX MXene/polymer films. Carbon, 2021, 181, 130-142.	5.4	46
84	Evolutionary search for new high-kdielectric materials: methodology and applications to hafnia-based oxides. Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 76-84.	0.2	44
85	A novel SiC-based microwave absorption ceramic with Sc2Si2O7 as transparent matrix. Journal of the European Ceramic Society, 2018, 38, 4189-4197.	2.8	44
86	Polymerâ€Derived SiOCâ€“bariumâ€“strontium aluminosilicate Coatings as an Environmental Barrier for C/SiC Composites. Journal of the American Ceramic Society, 2010, 93, 4148-4152.	1.9	43
87	Optimized design of high-temperature microwave absorption properties of CNTs/Sc2Si2O7 ceramics. Journal of Alloys and Compounds, 2020, 823, 153864.	2.8	40
88	Mechanical Behavior and Electromagnetic Interference Shielding Properties of C/SiCâ€“Ti₃Si(Al)C₂. Journal of the American Ceramic Society, 2016, 99, 1717-1724.	1.9	39
89	Effect of machining parameter on femtosecond laser drilling processing on SiC/SiC composites. International Journal of Advanced Manufacturing Technology, 2018, 96, 1795-1811.	1.5	39
90	Tunable dielectric properties of mesoporous carbon hollow microspheres via textural properties. Nanotechnology, 2018, 29, 184003.	1.3	39

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91	3D printing â€œwire-on-sphereâ€•hierarchical SiC nanowires / SiC whiskers foam for efficient high-temperature electromagnetic wave absorption. Journal of Materials Science and Technology, 1083-1093. 01-101	5.6	39
92	Adsorption of atomic and molecular oxygen on 3C-SiC(111) and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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109	First printing of continuous fibers into ceramics. Journal of the American Ceramic Society, 2019, 102, 3244-3255.	1.9	30
110	Microstructures and mechanical properties of three-dimensional ceramic filler modified carbon/carbon composites. Ceramics International, 2014, 40, 399-408.	2.3	29
111	Multiscale designed SiC_f/Si₃N₄ composite for low and high frequency cooperative electromagnetic absorption. Journal of the American Ceramic Society, 2018, 101, 5552-5563.	1.9	29
112	Efficient multiscale strategy for toughening HfB 2 ceramics: A heterogeneous ceramicâ€“metal layered architecture. Journal of the American Ceramic Society, 2021, 104, 1841-1851.	1.9	29
113	Effect of curing and pyrolysis processing on the ceramic yield of a highly branched polycarbosilane. Journal of Materials Science, 2009, 44, 721-725.	1.7	28
114	Wet oxidation behavior of SiC/(SiCâ€•SiBCN)x composites prepared by CVI combined with PIOP process. Journal of the American Ceramic Society, 2019, 102, 6239-6255.	1.9	28
115	Interface evolution of a C/ZnO absorption agent annealed at elevated temperature for tunable electromagnetic properties. Journal of the American Ceramic Society, 2019, 102, 5305-5315.	1.9	28
116	3D-printed impedance gradient Al2O3 ceramic with in-situ growing needle-like SiC nanowires for electromagnetic wave absorption. Ceramics International, 2021, 47, 31990-31999.	2.3	28
117	Braking Behavior of C/SiC Composites Prepared by Chemical Vapor Infiltration. International Journal of Applied Ceramic Technology, 2005, 2, 114-121.	1.1	27
118	Effect of energy density on the machining character of C/SiC composites by picosecond laser. Applied Physics A: Materials Science and Processing, 2014, 116, 1221-1228.	1.1	27
119	Oxidation behavior of three-dimensional SiC/SiC composites in air and combustion environment. Composites Part A: Applied Science and Manufacturing, 2000, 31, 1015-1020.	3.8	26
120	Microstructure and Mechanical Properties of SiC and Carbon Hybrid Fiber Reinforced SiC Matrix Composite. International Journal of Applied Ceramic Technology, 2011, 8, 308-316.	1.1	26
121	Carbon Nanotubes Grown on Flax Fabric as Hierarchical Allâ€Carbon Flexible Electrodes for Supercapacitors. Advanced Materials Interfaces, 2017, 4, 1601123.	1.9	26
122	Nondestructive Evaluation and Mechanical Characterization of a Defectâ€Embedded Ceramic Matrix Composite Laminate. International Journal of Applied Ceramic Technology, 2007, 4, 378-386.	1.1	25
123	Effect of Braking Speed on Friction and Wear Behaviors of C/Câ€SiC Composites. International Journal of Applied Ceramic Technology, 2007, 4, 463-469.	1.1	25
124	Hot Corrosion Behavior of Barium Aluminosilicateâ€Coated C/SiC Composites at 900Â°C. Journal of the American Ceramic Society, 2010, 93, 204-208.	1.9	25
125	Preparation and Performance of Si₃N₄ Hollow Microspheres by the Template Method and Carbothermal Reduction Nitridation. ACS Applied Materials & Interfaces, 2019, 11, 39054-39061.	4.0	25
126	Fabrication and electromagnetic interference shielding effectiveness of Ti 3 Si(Al)C 2 modified Al 2 O 3 /SiC composites. Ceramics International, 2016, 42, 9448-9454.	2.3	24

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127	Microstructure and properties of dense Tyranno-ZMI SiC/SiC containing Ti3Si(Al)C2 with plastic deformation toughening mechanism. Journal of the European Ceramic Society, 2018, 38, 1069-1078.	2.8	24
128	3D printing of PDC-SiOC@SiC twins with high permittivity and electromagnetic interference shielding effectiveness. Journal of the European Ceramic Society, 2021, 41, 5437-5444.	2.8	24
129	Rational design of n-Bi12TiO20@p-BiOI coreâ€“shell heterojunction for boosting photocatalytic NO removal. Journal of Colloid and Interface Science, 2022, 607, 242-252.	5.0	24
130	Preparation and Mechanical Properties of Carbon Fiber Reinforced (BC x â€“SiC) n Multilayered Matrix Composites. Applied Composite Materials, 2007, 14, 277-286.	1.3	23
131	UV curing behavior of a highly branched polycarbosilane. Journal of Materials Science, 2009, 44, 970-975.	1.7	23
132	SiCN-based composite ceramics fabricated by chemical vapor infiltration with excellent mechanical and electromagnetic properties. Materials Letters, 2013, 111, 169-172.	1.3	23
133	3D/4D printed tunable electrical metamaterials with more sophisticated structures. Journal of Materials Chemistry C, 2021, 9, 12010-12036.	2.7	23
134	Effect of energy density and feeding speed on micro-holes drilling in SiC/SiC composites by picosecond laser. International Journal of Advanced Manufacturing Technology, 2016, 84, 1917-1925.	1.5	22
135	Oxidation Protective Multilayer CVD SiC Coatings Modified by a Graphitic B-C Interlayer for 3D C/SiC Composite. Applied Composite Materials, 2006, 13, 397-406.	1.3	21
136	Microstructure and mechanical properties of SiCP/SiC and SiCW/SiC composites by CVI. Journal of Materials Science, 2010, 45, 392-398.	1.7	21
137	Broadband Microwave Absorbing Composites with a Multi-Scale Layered Structure Based on Reduced Graphene Oxide Film as the Frequency Selective Surface. Materials, 2018, 11, 1771.	1.3	21
138	3D-printed controllable gradient pore superwetting structures for high temperature efficient oil-water separation. Journal of Materiomics, 2021, 7, 8-18.	2.8	21
139	Broadening the absorption bandwidth by novel seriesâ€“parallel cross convexâ€“concave structures. Journal of Materials Chemistry C, 2021, 9, 5411-5424.	2.7	21
140	Comparison of oxidation resistance of NiCoCrAlTaY-coated and -uncoated Mar-M247 superalloys in the air at 1150ÂÂ°C. Journal of Materials Science, 2012, 47, 2278-2283.	1.7	20
141	Comparison of Tensile Behaviors of Carbon/Ceramic Composites with Various Fiber Architectures. International Journal of Applied Ceramic Technology, 2013, 10, 266-275.	1.1	20
142	Thermodynamic Analysis on the Codeposition of <scp><scp>SiC</scp></scp>â€“<scp><scp>Si</scp></scp>₃<scp><scp>N</scp></scp>₄ Composite Ceramics by Chemical Vapor Deposition using <scp><scp>SiCl</scp></scp>₄â€“<scp><scp>NH</scp></scp>₃â€“<scp><scp>CH</scp></scp>₄ Mixture Gases. Journal of the American Ceramic Society, 2013, 96, 979-986.	1.9	20
143	Effects of particle sizes and contents of ceramic fillers on tribological behavior of 3D C/C composites. Ceramics International, 2014, 40, 14029-14037.	2.3	20
144	Microstructure and <scp>EMW</scp> absorption properties of <scp>CVI</scp> Si₃N₄â€“Si<scp>CN</scp> ceramics with <scp>BN</scp> interface annealed in N₂ atmosphere. Journal of the American Ceramic Society, 2018, 101, 1201-1210.	1.9	20

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145	Flexible Fe₃Si/SiC ultrathin hybrid fiber mats with designable microwave absorption performance. RSC Advances, 2018, 8, 33574-33582.	1.7	20
146	Enhanced electromagnetic wave absorption properties of a novel SiC nanowires reinforced SiO2/3Al2O3Â·2SiO2 porous ceramic. Ceramics International, 2020, 46, 22474-22481.	2.3	20
147	3D Printed Electrochromic Supercapacitors with Ultrahigh Mechanical Strength and Energy Density. Small, 2021, 17, e2102639.	5.2	20
148	Oxidation Behavior of C/SiC Composite with CVD SiC-B4C Coating in a Wet Oxygen Environment. Applied Composite Materials, 2009, 16, 83-92.	1.3	19
149	Mechanical and electrical properties of carbon nanotube buckypaper reinforced silicon carbide nanocomposites. Ceramics International, 2016, 42, 4984-4992.	2.3	19
150	Anisotropic compressive properties of porous <scp>CNT</scp>/<scp>SiC</scp> composites produced by direct matrix infiltration of <scp>CNT</scp> aerogel. Journal of the American Ceramic Society, 2017, 100, 2243-2252.	1.9	19
151	Thermal stability and dielectric properties of 2D Ti ₂ C MXenes via annealing under a gas mixture of Ar and H ₂ atmosphere. Functional Composites and Structures, 2019, 1, 015002.	1.6	19
152	Formation of Ultra-High Temperature Ceramic Hollow Microspheres as Promising Lightweight Thermal Insulation Materials via a Molten Salt-Assisted Template Method. ACS Applied Materials & Interfaces, 2021, 13, 37388-37397.	4.0	19
153	Electromagnetic wave-transparent porous silicon nitride ceramic prepared by gel-casting combined with in-situ nitridation reaction. Journal of the European Ceramic Society, 2021, 41, 7620-7629.	2.8	19
154	A novel SiC/Zn0.5Cd0.5S solid-state Z-scheme system and its enhanced hydrogen production activity. Applied Surface Science, 2020, 500, 144009.	3.1	18
155	Formation of nanocrystalline graphite in polymer-derived SiCN by polymer infiltration and pyrolysis at a low temperature. Journal of Advanced Ceramics, 2021, 10, 1256-1272.	8.9	18
156	Engineering (Ni, Co, Mn) Se nanoarrays with 3D-Printed wave-structure carbon-rich lattice towards ultrahigh-capacity, complex-stress and all-climate energy storage. Carbon, 2022, 187, 375-385.	5.4	18
157	Microstructure and Properties of C/SiCâ€Ðiamond Composites Prepared by the Combination of CVI and RMI. Advanced Engineering Materials, 2019, 21, 1800765.	1.6	17
158	In Situ Irradiated X-ray Photoelectron Spectroscopy on the Ag-Zn_{0.5}Cd_{0.5}S Coreâ€“Shell Structure and the Hydrogen Production Activity. ACS Sustainable Chemistry and Engineering, 2020, 8, 6488-6495.	3.2	17
159	3D-Printed Topological MoS₂/MoSe₂ Heterostructures for Macroscale Superlubricity. ACS Applied Materials & Interfaces, 2021, 13, 34984-34995.	4.0	17
160	A SiC nanowires/Ba0.75Sr0.25Al2Si2O8 ceramic heterojunction for stable electromagnetic absorption under variable-temperature. Journal of Materials Science and Technology, 2022, 125, 29-37.	5.6	17
161	The Microstructure and Dielectric Properties of SiBCN Ceramics FabricatedÂVia LPCVD/CVI. Journal of the American Ceramic Society, 2015, 98, 2703-2706.	1.9	16
162	Mechanical and Electromagnetic Interference Shielding Behavior of C/SiC Composite Containing Ti₃SiC₂. Advanced Engineering Materials, 2018, 20, 1700590.	1.6	16

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163	Electromagnetic shielding properties of carbonâ€rich chemical vapor infiltrationâ€prone silicon carbide matrix composites. Journal of the American Ceramic Society, 2018, 101, 1991-1998.	1.9	16
164	Strengthening threeâ€dimensional printed ultraâ€light ceramic lattices. Journal of the American Ceramic Society, 2019, 102, 5082-5089.	1.9	16
165	A lightweight CNWs-SiO2/3Al2O3Â·2SiO2 porous ceramic with excellent microwave absorption and thermal insulation properties. Ceramics International, 2020, 46, 20395-20403.	2.3	16
166	Internal Friction Behavior of C/SiC Composites with Environmental Barrier Coatings in Corrosive Environment. International Journal of Applied Ceramic Technology, 2011, 8, 342-350.	1.1	15
167	Macroscopic carbon nanotube assembly/silicon carbide matrix composites produced by gas phase route. Advanced Composites and Hybrid Materials, 2019, 2, 142-150.	9.9	15
168	Electromagnetic interference shielding Ti3C2T -bonded carbon black films with enhanced absorption performance. Chinese Chemical Letters, 2020, 31, 1026-1029.	4.8	15
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