

# Xiaowei Yin

## List of Publications by Citations

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42  
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91  
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100  
ext. papers

10,041  
ext. citations

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L-index

#	Paper	IF	Citations
99	Ti3C2 MXenes with Modified Surface for High-Performance Electromagnetic Absorption and Shielding in the X-Band. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 21011-9	9.5	532
98	Graphene-wrapped ZnO hollow spheres with enhanced electromagnetic wave absorption properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16403-16409	13	447
97	Three-dimensional reduced graphene oxide foam modified with ZnO nanowires for enhanced microwave absorption properties. <i>Carbon</i> , <b>2017</b> , 116, 50-58	10.4	413
96	Carbon Nanotube-Multilayered Graphene Edge Plane Core-Shell Hybrid Foams for Ultrahigh-Performance Electromagnetic-Interference Shielding. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701583	24	379
95	Self-Assembly Core-Shell Graphene-Bridged Hollow MXenes Spheres 3D Foam with Ultrahigh Specific EM Absorption Performance. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803938	15.6	366
94	Electromagnetic wave absorption properties of graphene modified with carbon nanotube/poly(dimethyl siloxane) composites. <i>Carbon</i> , <b>2014</b> , 73, 185-193	10.4	361
93	Electromagnetic properties of SiCN based ceramics and composites. <i>International Materials Reviews</i> , <b>2014</b> , 59, 326-355	16.1	357
92	Carbon Hollow Microspheres with a Designable Mesoporous Shell for High-Performance Electromagnetic Wave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6332-6341	9.5	319
91	Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic for Broadband High-Performance Microwave Absorption. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707205	15.6	294
90	Electromagnetic Wave Absorption Properties of Reduced Graphene Oxide Modified by Maghemite Colloidal Nanoparticle Clusters. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 19701-19711	3.8	287
89	Lightweight TiCT MXene/Poly(vinyl alcohol) Composite Foams for Electromagnetic Wave Shielding with Absorption-Dominated Feature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10198-10207	9.5	266
88	Flexible and Thermostable Graphene/SiC Nanowire Foam Composites with Tunable Electromagnetic Wave Absorption Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 11803-11810	8.5	231
87	Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20038-20045	9.5	229
86	Ti3C2 MXenes modified with in situ grown carbon nanotubes for enhanced electromagnetic wave absorption properties. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4068-4074	7.1	224
85	Mesoporous carbon hollow microspheres with red blood cell like morphology for efficient microwave absorption at elevated temperature. <i>Carbon</i> , <b>2018</b> , 132, 343-351	10.4	189
84	Constructing hollow graphene nano-spheres confined in porous amorphous carbon particles for achieving full X band microwave absorption. <i>Carbon</i> , <b>2019</b> , 142, 346-353	10.4	178
83	Hierarchical graphene/SiC nanowire networks in polymer-derived ceramics with enhanced electromagnetic wave absorbing capability. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 2695-2703	6	166

82	Powerful absorbing and lightweight electromagnetic shielding CNTs/RGO composite. <i>Carbon</i> , <b>2019</b> , 145, 61-66	10.4	164
81	Fabrication and electromagnetic interference shielding effectiveness of carbon nanotube reinforced carbon fiber/pyrolytic carbon composites. <i>Carbon</i> , <b>2014</b> , 68, 501-510	10.4	154
80	Macroscopic bioinspired graphene sponge modified with in-situ grown carbon nanowires and its electromagnetic properties. <i>Carbon</i> , <b>2017</b> , 111, 94-102	10.4	144
79	In-situ synthesis of hierarchically porous and polycrystalline carbon nanowires with excellent microwave absorption performance. <i>Carbon</i> , <b>2016</b> , 107, 36-45	10.4	140
78	Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900267	8.1	138
77	A controllable heterogeneous structure and electromagnetic wave absorption properties of Ti <sub>2</sub> CTx MXene. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7621-7628	7.1	121
76	Electromagnetic wave absorption properties of a carbon nanotube modified by a tetrapyridinoporphyrazine interface layer. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7479-7488	7.1	116
75	Ultralight MXene-Coated, Interconnected SiCnws Three-Dimensional Lamellar Foams for Efficient Microwave Absorption in the X-Band. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34524-34533	9.5	110
74	Phase Transition Induced Unusual Electrochemical Performance of VCT MXene for Aqueous Zinc Hybrid-Ion Battery. <i>ACS Nano</i> , <b>2020</b> , 14, 541-551	16.7	99
73	Microwave-Absorbing Polymer-Derived Ceramics from Cobalt-Coordinated Poly(dimethylsilylene)diacetylenes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 18721-18732	3.8	96
72	2D carbide MXene Ti <sub>2</sub> CTx as a novel high-performance electromagnetic interference shielding material. <i>Carbon</i> , <b>2019</b> , 146, 210-217	10.4	92
71	Core/shell structured C/ZnO nanoparticles composites for effective electromagnetic wave absorption. <i>RSC Advances</i> , <b>2016</b> , 6, 6467-6474	3.7	84
70	Constructing a tunable heterogeneous interface in bimetallic metal-organic frameworks derived porous carbon for excellent microwave absorption performance. <i>Carbon</i> , <b>2019</b> , 148, 421-429	10.4	70
69	Synthesis and EMW absorbing properties of nano SiC modified PDCBiOC. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 5962-5969	7.1	69
68	Ultralight Cellular Foam from Cellulose Nanofiber/Carbon Nanotube Self-Assemblies for Ultrabroad-Band Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22628-22636	9.5	62
67	Novel Scale-Like Structures of Graphite/TiC/Ti <sub>3</sub> C <sub>2</sub> Hybrids for Electromagnetic Absorption. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700617	6.4	61
66	Controllable synthesis of defective carbon nanotubes/Sc <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> ceramic with adjustable dielectric properties for broadband high-performance microwave absorption. <i>Carbon</i> , <b>2019</b> , 147, 276-283	10.4	59
65	Dielectric properties of Si <sub>3</sub> N <sub>4</sub> /SiCN composite ceramics in X-band. <i>Ceramics International</i> , <b>2012</b> , 38, 6015-6020	5.0	59

64	Three-Dimensional Printing of Ti <sub>3</sub> SiC <sub>2</sub> -Based Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 969-972	3.8	59
63	Effect of Aluminum Doping on Microwave Absorption Properties of ZnO/ZrSiO <sub>4</sub> Composite Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 3158-3165	3.8	57
62	High-temperature dielectric and microwave absorption properties of Si <sub>3</sub> N <sub>4</sub> /SiC/SiO <sub>2</sub> composite ceramics. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 1478-1487	4.3	54
61	Three-Dimensional Printing of Nanolaminated Ti <sub>3</sub> AlC <sub>2</sub> Toughened TiAl <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Composites. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2128-2134	3.8	48
60	Paper-based metasurface: Turning waste-paper into a solution for electromagnetic pollution. <i>Journal of Cleaner Production</i> , <b>2019</b> , 234, 588-596	10.3	44
59	Microstructure and Mechanical Properties of Lu <sub>2</sub> O <sub>3</sub> -Doped Porous Silicon Nitride Ceramics Using Phenolic Resin as Pore-Forming Agent. <i>International Journal of Applied Ceramic Technology</i> , <b>2009</b> , 7, 391-398	2.3	44
58	Electromagnetic properties of SiO <sub>2</sub> reinforced with both multi-wall carbon nanotubes and ZnO particles. <i>Carbon</i> , <b>2013</b> , 64, 541-544	10.4	43
57	Optically transparent and flexible broadband microwave metamaterial absorber with sandwich structure. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	41
56	High-Temperature Electromagnetic Wave Absorption Properties of ZnO/ZrSiO <sub>4</sub> Composite Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2211-2217	3.8	38
55	Near-Net-Shape Fabrication of Ti <sub>3</sub> AlC <sub>2</sub> -Based Composites. <i>International Journal of Applied Ceramic Technology</i> , <b>2007</b> , 4, 184-190	2	38
54	Single-source-precursor synthesis and electromagnetic properties of novel RGO/SiCN ceramic nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7950-7960	7.1	35
53	Reduced Graphene Oxide/Silicon Nitride Composite for Cooperative Electromagnetic Absorption in Wide Temperature Spectrum with Excellent Thermal Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5364-5372	9.5	33
52	Tunable dielectric properties of mesoporous carbon hollow microspheres via textural properties. <i>Nanotechnology</i> , <b>2018</b> , 29, 184003	3.4	31
51	A novel SiC-based microwave absorption ceramic with Sc <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> as transparent matrix. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 4189-4197	6	31
50	Ultra-light, high flexible and efficient CNTs/Ti <sub>3</sub> C <sub>2</sub> -sodium alginate foam for electromagnetic absorption application. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2859-2867	9.1	30
49	Microstructure and Properties of Porous Si <sub>3</sub> N <sub>4</sub> Ceramics with a Dense Surface. <i>International Journal of Applied Ceramic Technology</i> , <b>2011</b> , 8, 627-636	2	30
48	Mechanical Behavior and Electromagnetic Interference Shielding Properties of C/SiC/Ti <sub>3</sub> Si(Al) <sub>2</sub> C <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1717-1724	3.8	28
47	Oxidation behavior of SiBC matrix modified C/SiC composites with different PyC interphase thicknesses. <i>Ceramics International</i> , <b>2015</b> , 41, 1695-1700	5.1	27

46	Crystallization Mechanism of CVD Si <sub>3</sub> N <sub>4</sub> /SiCN Composite Ceramics Annealed in N <sub>2</sub> Atmosphere and Their Excellent EMW Absorption Properties. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2672-2679	3.8	26
45	Microstructures and mechanical properties of three-dimensional ceramic filler modified carbon/carbon composites. <i>Ceramics International</i> , <b>2014</b> , 40, 399-408	5.1	25
44	Microstructure, Thermophysical, and Ablative Performances of a 3D Needled C/C/SiC Composite. <i>International Journal of Applied Ceramic Technology</i> , <b>2010</b> , 7, 197-206	2	25
43	In situ growth of one-dimensional carbon-rich SiC nanowires in porous Sc <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> ceramics with excellent microwave absorption properties. <i>Ceramics International</i> , <b>2018</b> , 44, 22784-22793	5.1	24
42	Microstructure and Properties of Carbon Fiber Reinforced SiC Matrix Composites Containing Ti <sub>3</sub> SiC <sub>2</sub> . <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 670-683	3.5	23
41	Fabrication and electromagnetic interference shielding effectiveness of Ti <sub>3</sub> Si(Al) <sub>2</sub> C <sub>2</sub> modified Al <sub>2</sub> O <sub>3</sub> /SiC composites. <i>Ceramics International</i> , <b>2016</b> , 42, 9448-9454	5.1	21
40	Microstructure and Mechanical Properties of SiC and Carbon Hybrid Fiber Reinforced SiC Matrix Composite. <i>International Journal of Applied Ceramic Technology</i> , <b>2011</b> , 8, 308-316	2	21
39	Optimized design of high-temperature microwave absorption properties of CNTs/Sc <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> ceramics. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153864	5.7	20
38	Interface evolution of a C/ZnO absorption agent annealed at elevated temperature for tunable electromagnetic properties. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 5305-5315	3.8	20
37	Effects of particle sizes and contents of ceramic fillers on tribological behavior of 3D C/C composites. <i>Ceramics International</i> , <b>2014</b> , 40, 14029-14037	5.1	19
36	Thermodynamic Analysis on the Codeposition of SiC/Si <sub>3</sub> N <sub>4</sub> Composite Ceramics by Chemical Vapor Deposition using SiCl <sub>4</sub> /H <sub>2</sub> /CH <sub>4</sub> /H <sub>2</sub> Ar Mixture Gases. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 979-986	3.8	19
35	Hierarchical carbon nanowires network modified PDCs-SiCN with improved microwave absorption performance. <i>Ceramics International</i> , <b>2019</b> , 45, 14238-14248	5.1	18
34	Role of single-source-precursor structure on microstructure and electromagnetic properties of CNTs-SiCN nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 4649-4660	3.8	17
33	Light-weight and highly flexible TaC modified PyC fiber fabrics derived from cotton fiber textile with excellent electromagnetic shielding effectiveness. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124085	14.7	17
32	Microstructure and EMW absorption properties of CVI Si <sub>3</sub> N <sub>4</sub> /SiCN ceramics with BN interface annealed in N <sub>2</sub> atmosphere. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 1201-1210	3.8	17
31	Microstructure and the dielectric properties of SiCN/Si <sub>3</sub> N <sub>4</sub> ceramics fabricated via LPCVD/CVI. <i>Ceramics International</i> , <b>2014</b> , 40, 5097-5102	5.1	16
30	Near-Net-Shape Fabrication of Ti <sub>3</sub> SiC <sub>2</sub> -based Ceramics by Three-Dimensional Printing. <i>International Journal of Applied Ceramic Technology</i> , <b>2015</b> , 12, 71-80	2	16
29	Mechanical properties and electromagnetic shielding performance of single-source-precursor synthesized dense monolithic SiC/HfC <sub>x</sub> N <sub>1-x</sub> /C ceramic nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10683-10693	7.1	15

28	Mechanical and electrical properties of carbon nanotube buckypaper reinforced silicon carbide nanocomposites. <i>Ceramics International</i> , <b>2016</b> , 42, 4984-4992	5.1	14
27	Multiscale designed SiCf/Si <sub>3</sub> N <sub>4</sub> composite for low and high frequency cooperative electromagnetic absorption. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 5552-5563	3.8	14
26	The Microstructure and Dielectric Properties of SiBCN Ceramics Fabricated Via LPCVD/CVI. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2703-2706	3.8	14
25	Electromagnetic interference shielding and mechanical properties of Si <sub>3</sub> N <sub>4</sub> /SiOC composites fabricated by 3D-printing combined with polymer infiltration and pyrolysis. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3394-3401	2.5	13
24	Broadband Microwave Absorbing Composites with a Multi-Scale Layered Structure Based on Reduced Graphene Oxide Film as the Frequency Selective Surface. <i>Materials</i> , <b>2018</b> , 11,	3.5	13
23	Mechanical and Electromagnetic Interference Shielding Behavior of C/SiC Composite Containing Ti <sub>3</sub> SiC <sub>2</sub> . <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700590	3.5	11
22	Effects of Graphitization Degree in Three-Dimensional Needled C/SiC Composites on Tribological Properties. <i>International Journal of Applied Ceramic Technology</i> , <b>2011</b> , 8, 317-328	2	11
21	Thermodynamic calculations on the chemical vapor deposition of Si <sub>3</sub> N <sub>4</sub> from the SiCl <sub>4</sub> /H <sub>2</sub> /H <sub>2</sub> O/Ar system. <i>Ceramics International</i> , <b>2013</b> , 39, 3971-3977	5.1	10
20	Thermal stability and dielectric properties of 2D Ti <sub>2</sub> C MXenes via annealing under a gas mixture of Ar and H <sub>2</sub> atmosphere. <i>Functional Composites and Structures</i> , <b>2019</b> , 1, 015002	3.5	9
19	Thermodynamic calculation for the chemical vapor deposition of silicon carbonitride. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3607-3618	6	8
18	Progress in research and development on matrix modification of continuous fiber-reinforced silicon carbide matrix composites. <i>Advanced Composites and Hybrid Materials</i> , <b>2018</b> , 1, 685-695	8.7	8
17	Relationship between microstructure and electromagnetic properties of SiC fibers. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 4352-4362	3.8	5
16	Negative permittivity behavior of titanium nitride/polyphenylene sulfide fiber composites under radio frequency. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 12144-12151	2.1	5
15	Erosion Behavior of C/SiC Composites in Atomic Oxygen. <i>International Journal of Applied Ceramic Technology</i> , <b>2013</b> , 10, 168-174	2	5
14	Thermophysical properties of three-dimensional ceramic-filler-modified carbon/carbon composites. <i>Ceramics International</i> , <b>2019</b> , 45, 1302-1307	5.1	5
13	Oxidation Behavior of Tyranno ZMI-SiC Fiber/SiC-SiBC Matrix Composite from 800 to 1200 °C. <i>Materials</i> , <b>2018</b> , 11,	3.5	4
12	Reactive Synthesis of Ceramic-Metal Composites. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800324	3.5	3
11	The comparison of microstructure and oxidation behaviors of (SiC-C)/PyC/SiC and C/PyC/SiC composites in air. <i>Science and Engineering of Composite Materials</i> , <b>2015</b> , 22,	1.5	2

10	Effects of alumina hollow microspheres on the properties of water-borne polyurethane films. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 2486-2493	2.5	2
9	Synthesis and Electromagnetic Shielding Property of Pyrolytic Carbon-Silicon Nitride Ceramics with Dense Silicon Nitride Coating. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 95, n/a-n/a	3.8	2
8	Ablation Behavior of ZrO <sub>2</sub> (SiC) Layered Carbides Modified 3D Needled C/SiC Composites. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1800936	3.5	1
7	Microstructure and Dielectric Property of 3D BNF/Si <sub>3</sub> N <sub>4</sub> Fabricated by CVI Process. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2019</b> , 34, 818-823	1	0
6	The Physical Essence of Mono-dispersed Nanometer Particle Surface Energy by Boundary bond Interaction. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1505, 1		0
5	Electromagnetic Performance of CVD Si <sub>3</sub> N <sub>4</sub> /SiCN Ceramics Oxidized from 500 to 1000 °C. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1800834	3.5	0
4	The Degradation of Hi-Nicalon Monofilament after Proton Irradiation. <i>Ceramic Transactions</i> , 607-614	0.1	
3	High Temperature Dielectric and Microwave Absorption Properties of Polymer Derived SiCN Ceramic in X Band. <i>Ceramic Transactions</i> , 193-202	0.1	
2	Fabrication of ZAO Ceramic Target and Effect on the Photoelectric Properties of Its Film. <i>Ceramic Transactions</i> , 159-166	0.1	
1	Fabrication of Porous Silicon Nitride Ceramics with Gradient Microstructure. <i>Ceramic Engineering and Science Proceedings</i> , 349-357	0.1	