

# Bingbing Fan

## List of Publications by Year in descending order

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103  
papers

5,870  
citations

101384

36  
h-index

74018

75  
g-index

106  
all docs

106  
docs citations

106  
times ranked

4248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ceramic-based electromagnetic wave absorbing materials and concepts towards lightweight, flexibility and thermal resistance. <i>International Materials Reviews</i> , 2023, 68, 487-520.	9.4	19
2	MXene-based hybrid system exhibits excellent synergistic antibiosis. <i>Nanotechnology</i> , 2022, 33, 085101.	1.3	7
3	Electromagnetic Interference Shielding Performance of Flexible, Hydrophobic Honeycomb-Structured Ag@Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Composites. <i>Advanced Electronic Materials</i> , 2022, 8, 2101028.	2.6	12
4	Design of 3D lightweight Ti <sub>3</sub> C <sub>2</sub> T MXene porous film with graded holes for efficient electromagnetic interference shielding performance. <i>Ceramics International</i> , 2022, 48, 14578-14586.	2.3	14
5	The effect of honeycomb pore size on the electromagnetic interference shielding performance of multifunctional 3D honeycomb-like Ag/Ti <sub>3</sub> C <sub>2</sub> T hybrid structures. <i>Ceramics International</i> , 2022, 48, 16892-16900.	2.3	7
6	Two-dimensional C/MoS <sub>2</sub> -functionalized Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Nanosheets for Achieving Strong Electromagnetic Wave Absorption. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	14
7	Tailoring electromagnetic responses of delaminated Mo <sub>2</sub> TiC <sub>2</sub> T MXene through the decoration of Ni particles of different morphologies. <i>Chemical Engineering Journal</i> , 2022, 440, 135855.	6.6	87
8	Synthesis and electromagnetic wave absorption of novel Mo <sub>2</sub> TiC <sub>2</sub> T <sub>x</sub> MXene with diverse etching methods. <i>Journal of Materials Science</i> , 2022, 57, 7849-7862.	1.7	16
9	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /rGO aerogel towards high electromagnetic wave absorption and thermal resistance. <i>CrystEngComm</i> , 2022, 24, 4556-4563.	1.3	13
10	Sintering behavior of alumina whisker reinforced zirconia ceramics in hot oscillatory pressing. <i>Journal of Advanced Ceramics</i> , 2022, 11, 893-900.	8.9	21
11	Low Weight, low thermal Conductivity, and highly efficient electromagnetic wave absorption of Three-Dimensional Graphene/SiC-nanosheets aerogel. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 158, 106980.	3.8	53
12	Promoting the electromagnetic interference shielding of Ti <sub>3</sub> C <sub>2</sub> T flakes by loading Fe <sub>3</sub> O <sub>4</sub> nanoparticles: Insights into the performance of oligo-layers exposed to microwave interferences. <i>Ceramics International</i> , 2022, . .	2.3	12
13	Heterostructure composites of TiO <sub>2</sub> and CdZnS nanoparticles decorated on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanosheets and their enhanced photocatalytic performance by microwave hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165681.	2.8	5
14	Submicron Ti <sub>2</sub> CT <sub>x</sub> MXene particulates as high-rate intercalation anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15474-15484.	5.2	7
15	Recyclable magnetic carbon foams possessing voltage-controllable electromagnetic shielding and oil/water separation. <i>Carbon</i> , 2022, 197, 570-578.	5.4	15
16	Microwave-assisted hydrothermal synthesis of 2D/2D MoS <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T heterostructure for enhanced microwave absorbing performance. <i>Journal of Alloys and Compounds</i> , 2022, 923, 166253.	2.8	14
17	Heavy Mn-doped CsPbBr <sub>3</sub> nanocrystals synthesized by high energy ball milling with high stability. <i>Nanotechnology</i> , 2022, 33, 455703.	1.3	3
18	Dense HfB <sub>2</sub> ceramics fabricated by high-energy ball milling and spark plasma sintering. <i>Materials Chemistry and Physics</i> , 2021, 258, 123845.	2.0	6

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19	Preparation of lightweight corundum-mullite thermal insulation materials by microwave sintering. <i>Processing and Application of Ceramics</i> , 2021, 15, 170-178.	0.4	1
20	Enhancement of electromagnetic interference shielding from the synergism between Cu@Ni nanorods and carbon materials in flexible composite films. <i>Materials Advances</i> , 2021, 2, 718-727.	2.6	20
21	Multi-phase heterostructures of flower-like Ni(NiO) decorated on two-dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /TiO <sub>2</sub> for high-performance microwave absorption properties. <i>Ceramics International</i> , 2021, 47, 10764-10772.	2.3	26
22	Liquid-phase-induced synthesis of SiC rods by microwave heating. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10803-10808.	1.1	1
23	Controlled Hydrothermal/Solvothermal Synthesis of High-Performance LiFePO <sub>4</sub> for Li-ion Batteries. <i>Small Methods</i> , 2021, 5, e2100193.	4.6	52
24	A highly durable CoO /N-doped graphitized-nano-diamond electrocatalyst for oxygen reduction reaction. <i>Nanotechnology</i> , 2021, 32, 355708.	1.3	5
25	High-Performance Joule Heating and Electromagnetic Shielding Properties of Anisotropic Carbon Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29101-29112.	4.0	51
26	Zero Lithium Miscibility Gap Enables High-Rate Equimolar Li(Mn <sub>x</sub> Fe) <sub>1-x</sub> PO <sub>4</sub> Solid Solution. <i>Nano Letters</i> , 2021, 21, 5091-5097.	4.5	9
27	Facile synthesis of N/B co-doped hierarchically porous carbon materials based on threonine protic ionic liquids for supercapacitor. <i>Electrochimica Acta</i> , 2021, 380, 138230.	2.6	25
28	Nanosecond Laser Cleaning Method to Reduce the Surface Inert Layer and Activate the Garnet Electrolyte for a Solid-State Li Metal Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37082-37090.	4.0	35
29	Novel hierarchical structure of MoS <sub>2</sub> /TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> composites for dramatically enhanced electromagnetic absorbing properties. <i>Journal of Advanced Ceramics</i> , 2021, 10, 1042-1051.	8.9	96
30	Tailoring Microwave Electromagnetic Responses in Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene with Fe <sub>3</sub> O <sub>4</sub> Nanoparticle Decoration via a Solvothermal Method. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19914-19924.	1.5	33
31	High-energy ball milling assisted one-step preparation of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> composites for effective visible light degradation of pollutants. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161771.	2.8	14
32	Z-scheme TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> /Cd <sub>0.5</sub> Zn <sub>0.5</sub> S nanocomposites with efficient photocatalytic performance via one-step hydrothermal route. <i>Nanotechnology</i> , 2021, 32, 015706.	1.3	12
33	Solvent-Free Process for Blended PVDF-HFP/PEO and LLZTO Composite Solid Electrolytes with Enhanced Mechanical and Electrochemical Properties for Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 11802-11812.	2.5	43
34	The Fabrication and Mechanical Properties of Laminated ZrB <sub>2</sub> -Mo <sub>5</sub> SiB <sub>2</sub> Ceramics with an Mo-Mo <sub>5</sub> SiB <sub>2</sub> Interlayer. <i>Metals</i> , 2021, 11, 2018.	1.0	5
35	Co decorated polymer-derived SiCN ceramic aerogel composites with ultrabroad microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152007.	2.8	40
36	The influence of additive and temperature on thermal shock resistance of ZrB <sub>2</sub> based composites fabricated by Spark Plasma Sintering. <i>Materials Chemistry and Physics</i> , 2020, 240, 122061.	2.0	19

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37	Interlayer engineering of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes towards high capacitance supercapacitors. <i>Nanoscale</i> , 2020, 12, 763-771.	2.8	73
38	Flexible PVDF/carbon materials/Ni composite films maintaining strong electromagnetic wave shielding under cyclic microwave irradiation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 500-509.	2.7	76
39	Investigation of adjacent spacing dependent microwave absorption properties of lamellar structural Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes. <i>Advanced Powder Technology</i> , 2020, 31, 808-815.	2.0	62
40	Constructing <sup>51</sup> Ti-MnO <sub>2</sub> hollow spheres with tunable microwave absorption properties. <i>Advanced Powder Technology</i> , 2020, 31, 4642-4647.	2.0	10
41	Emerging 2D MXenes for supercapacitors: status, challenges and prospects. <i>Chemical Society Reviews</i> , 2020, 49, 6666-6693.	18.7	466
42	Hypoxia-Responsive Polymeric Micelles for Enhancing Cancer Treatment. <i>Frontiers in Chemistry</i> , 2020, 8, 742.	1.8	12
43	Photoelectroanalytical Oxygen Detection with Titanate Nanosheet @ Platinum Hybrids Immobilised into a Polymer of Intrinsic Microporosity (PIM-1). <i>Electroanalysis</i> , 2020, 32, 2756-2763.	1.5	5
44	Ultrastable MXene@Pt/SWCNTs' Nanocatalysts for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 2000693.	7.8	164
45	Preparation of Al <sub>2</sub> O <sub>3</sub> @mullite thermal insulation materials with AlF <sub>3</sub> and SiC as aids by microwave sintering. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2250-2258.	1.1	13
46	One-Step Incorporation of Nitrogen and Vanadium between Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Interlayers Enhances Lithium Ion Storage Capability. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6012-6021.	1.5	24
47	Triple-synergistic 2D material-based dual-delivery antibiotic platform. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	43
48	2D-layered Ti <sub>3</sub> C <sub>2</sub> /TiO <sub>2</sub> hybrids derived from Ti <sub>3</sub> C <sub>2</sub> MXenes for enhanced electromagnetic wave absorption. <i>Ceramics International</i> , 2020, 46, 17085-17092.	2.3	50
49	Fabrication and properties of Si <sub>2</sub> N <sub>2</sub> O ceramics for microwave sintering furnace. <i>Processing and Application of Ceramics</i> , 2020, 14, 32-39.	0.4	11
50	Novel two-dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /Ni-spheres hybrids with enhanced microwave absorption properties. <i>Ceramics International</i> , 2019, 45, 22880-22888.	2.3	69
51	Preparation of corundum-mullite refractories with lightweight, high strength and high thermal shock resistance. <i>Materialia</i> , 2019, 8, 100517.	1.3	18
52	ZnO amounts-dependent electromagnetic wave absorption capabilities of Ni/ZnO composite microspheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19966-19976.	1.1	7
53	Preparation of hierarchical NiCo <sub>2</sub> O <sub>4</sub> self-assembled by lamellar flakes and its microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17358-17362.	1.1	6
54	Microwave sintering and fracture behavior of zirconia ceramics. <i>Ceramics International</i> , 2019, 45, 17675-17680.	2.3	34

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55	Preparation and properties of dense ZrB <sub>2</sub> composite reinforced by elongated SiC and Al <sub>3</sub> BC <sub>3</sub> grains. International Journal of Applied Ceramic Technology, 2019, 16, 2190-2196.	1.1	5
56	The effect of hydrothermal temperature on the crystallographic phase of MnO <sub>2</sub> and their microwave absorption properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 475-484.	1.1	15
57	Structure and piezoelectric properties of Ca <sub>2</sub> Fe <sub>2</sub> O <sub>7</sub> -modified (K,Na,Li)(Nb,Sb)O <sub>3</sub> ceramics prepared from powders synthesized by microwave heating. Processing and Application of Ceramics, 2019, 13, 368-375.	0.4	2
58	Photo-responsive photonic crystals for broad wavelength shifts. Chemical Communications, 2018, 54, 3057-3060.	2.2	31
59	Temperature dependent AC electric conduction of polymer-derived SiAlCN ceramics. Ceramics International, 2018, 44, 8461-8466.	2.3	17
60	Novel two-dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes/nano-carbon sphere hybrids for high-performance microwave absorption. Journal of Materials Chemistry C, 2018, 6, 5690-5697.	2.7	215
61	Preparation of Magnetic Kaolinite Nanotubes for the Removal of Methylene Blue from Aqueous Solution. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 790-799.	1.9	17
62	Synthesis of Ag/rGO composite materials with antibacterial activities using facile and rapid microwave-assisted green route. Journal of Materials Science: Materials in Medicine, 2018, 29, 69.	1.7	21
63	A DOX-loaded polymer micelle for effectively inhibiting cancer cells. RSC Advances, 2018, 8, 25949-25954.	1.7	12
64	Effect of atmosphere on the fabrication of Si <sub>2</sub> N <sub>2</sub> O matrix composites. Processing and Application of Ceramics, 2018, 12, 66-71.	0.4	2
65	An impedance match method used to tune the electromagnetic wave absorption properties of hierarchical ZnO assembled by porous nanosheets. CrystEngComm, 2017, 19, 3640-3648.	1.3	51
66	ZrB <sub>2</sub> -SiC ceramic composites synthesized by in situ reaction and spark plasma sintering. International Journal of Applied Ceramic Technology, 2017, 14, 845-850.	1.1	13
67	Microwave synthesis of chain-like zircona nanofibers through carbon-induced self-assembly growth. Frontiers of Materials Science, 2017, 11, 353-357.	1.1	1
68	Facile synthesis of yolk-shell Ni@void@SnO <sub>2</sub> (Ni <sub>3</sub> Sn <sub>2</sub> ) ternary composites via galvanic replacement/Kirkendall effect and their enhanced microwave absorption properties. Nano Research, 2017, 10, 331-343.	5.8	342
69	Microwave-assisted synthesis of Ag/rGO composites and their cytotoxicity for HT22 Neuronal cell. Materials Research Innovations, 2017, 21, 257-261.	1.0	4
70	Crucial effect of SiC particles on in situ synthesized mullite whisker reinforced Al <sub>2</sub> O <sub>3</sub> -SiC composite during microwave sintering. Processing and Application of Ceramics, 2017, 11, 106-112.	0.4	7
71	Yolk-shell Ni@SnO <sub>2</sub> Composites with a Designable Interspace To Improve the Electromagnetic Wave Absorption Properties. ACS Applied Materials & Interfaces, 2016, 8, 28917-28925.	4.0	526
72	Preparation of large size ZTA ceramics with eccentric circle shape by microwave sintering. Journal of Advanced Ceramics, 2016, 5, 291-297.	8.9	20

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73	Synthesis and characterization of carbon-doped ZnSn(OH) <sub>6</sub> with enhanced photoactivity by hydrothermal method. <i>Crystal Research and Technology</i> , 2016, 51, 11-15.	0.6	8
74	Morphology-Control Synthesis of a Core-Shell Structured NiCu Alloy with Tunable Electromagnetic-Wave Absorption Capabilities. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12951-12960.	4.0	347
75	Enhanced microwave absorption capabilities of Ni microspheres after coating with SnO <sub>2</sub> nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5393-5399.	1.1	33
76	Preparation of Honeycomb SnO <sub>2</sub> Foams and Configuration-Dependent Microwave Absorption Features. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26217-26225.	4.0	163
77	Facile synthesis and enhanced microwave absorption properties of novel hierarchical heterostructures based on a Ni microsphere@CuO nano-rice core-shell composite. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6044-6052.	1.3	109
78	Facile synthesis of crumpled ZnS net-wrapped Ni walnut spheres with enhanced microwave absorption properties. <i>RSC Advances</i> , 2015, 5, 9806-9814.	1.7	65
79	Time-sensitivity for the preparation and microwave absorption properties of core-shell structured Ni/TiO <sub>2</sub> composite microspheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8848-8853.	1.1	8
80	Preparation and electromagnetic wave absorption properties of novel dendrite-like NiCu alloy composite. <i>RSC Advances</i> , 2015, 5, 42587-42590.	1.7	26
81	Facile preparation and enhanced microwave absorption properties of core-shell composite spheres composed of Ni cores and TiO <sub>2</sub> shells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8802-8810.	1.3	144
82	Synthesis of flower-like CuS hollow microspheres based on nanoflakes self-assembly and their microwave absorption properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10345-10352.	5.2	474
83	In situ synthesis of novel urchin-like ZnS/Ni <sub>3</sub> S <sub>2</sub> @Ni composite with a core-shell structure for efficient electromagnetic absorption. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10862-10869.	2.7	103
84	Facile Synthesis of Novel Heterostructure Based on SnO <sub>2</sub> Nanorods Grown on Submicron Ni Walnut with Tunable Electromagnetic Wave Absorption Capabilities. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18815-18823.	4.0	179
85	Investigation of the electromagnetic absorption properties of Ni@TiO <sub>2</sub> and Ni@SiO <sub>2</sub> composite microspheres with core-shell structure. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2531-2539.	1.3	275
86	Hierarchical Fe <sub>2</sub> O <sub>3</sub> @WO <sub>3</sub> nanostructures with ultrahigh specific surface areas: microwave-assisted synthesis and enhanced H <sub>2</sub> S-sensing performance. <i>RSC Advances</i> , 2015, 5, 328-337.	1.7	65
87	ZnS nanowall coated Ni composites: facile preparation and enhanced electromagnetic wave absorption. <i>RSC Advances</i> , 2014, 4, 61219-61225.	1.7	53
88	Solvothermal synthesis and electromagnetic absorption properties of pyramidal Ni superstructures. <i>Journal of Materials Research</i> , 2014, 29, 1431-1439.	1.2	7
89	Synthesis and Characterization of TiN-coated Cubic Boron Nitride Powders. <i>International Journal of Applied Ceramic Technology</i> , 2014, 11, 946-953.	1.1	10
90	Synthesis and growth mechanism of ZnO rod-like nanostructures by a microwave-assisted low-temperature aqueous solution route. <i>Crystal Research and Technology</i> , 2014, 49, 298-302.	0.6	14

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91	Temperature-dependent elastic stiffness constants of fcc-based metal nitrides from first-principles calculations. <i>Journal of Materials Science</i> , 2014, 49, 424-432.	1.7	9
92	Fabrication and enhanced microwave absorption properties of Al <sub>2</sub> O <sub>3</sub> nanoflake-coated Ni core-shell composite microspheres. <i>RSC Advances</i> , 2014, 4, 57424-57429.	1.7	84
93	Microwave-assisted growth of In <sub>2</sub> O <sub>3</sub> nanoparticles on WO <sub>3</sub> nanoplates to improve H <sub>2</sub> S-sensing performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18867-18874.	5.2	88
94	Facile synthesis and novel microwave electromagnetic properties of flower-like Ni structures by a solvothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 3614-3621.	1.1	43
95	ZrB <sub>2</sub> -Al <sub>3</sub> BC <sub>3</sub> composites prepared using Al <sub>2</sub> O <sub>3</sub> additives and spark plasma sintering. <i>Ceramics International</i> , 2013, 39, 897-901.	2.3	16
96	Effect of the Particle Size of Quartz Powder on the Synthesis and CO <sub>2</sub> Absorption Properties of Li <sub>4</sub> SiO <sub>4</sub> at High Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1886-1891.	1.8	64
97	Porous Tungsten Carbide Nanoplates Derived from Tungsten Trioxide Nanoplates. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3370-3373.	1.9	2
98	Preparation of porous mullite composite by microwave sintering. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 1125-1127.	0.4	3
99	Controlled synthesis of ZnO nanostructures with different morphologies in microemulsions. <i>Crystal Research and Technology</i> , 2012, 47, 754-762.	0.6	4
100	The fabrication and mechanical properties of SiC/ZrB <sub>2</sub> laminated ceramic composite prepared by spark plasma sintering. <i>Ceramics International</i> , 2012, 38, 5015-5022.	2.3	38
101	Single-crystalline MoO <sub>3</sub> nanoplates: topochemical synthesis and enhanced ethanol-sensing performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 9332.	6.7	168
102	Synthesis of ZnSn(OH) <sub>6</sub> regular octahedrons by a simple hydrothermal process. <i>Crystal Research and Technology</i> , 2011, 46, 1079-1085.	0.6	6
103	Hydrothermal synthesis and characterization of micro/nanostructured ZnSn(OH) <sub>6</sub> /ZnO composite architectures. <i>Crystal Research and Technology</i> , 2011, 46, 1175-1180.	0.6	5