

Bin Xiao

List of Publications by Year in descending order

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22
papers

274
citations

1039880

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23
all docs

23
docs citations

23
times ranked

212
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of lattice distortion on the diffusion behavior of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2020, 825, 154099.	2.8	64
2	Formation of Solâ€“Gel <i>In Situ</i> Derived BTO/NZFO Composite Ceramics with Considerable Dielectric and Magnetic Properties. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1240-1247.	1.9	30
3	Multiferroic Ceramic Composite with In Situ Glassy Barrier Interface and Novel Electromagnetic Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5802-5809.	1.5	28
4	Percolative NZFO/BTO ceramic composite with magnetism threshold. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6325.	2.7	26
5	Magnetoelectric coupling tailored by the orientation of the nanocrystals in only one component in percolative multiferroic composites. <i>RSC Advances</i> , 2019, 9, 20345-20355.	1.7	21
6	Relation between the microstructure and the electromagnetic properties of $\text{BaTiO}_3/\text{Ni}_0.5\text{Zn}_0.5\text{Fe}_2\text{O}_4$ ceramic composite. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 1291-1300.	1.1	16
7	Cold-sintered $\text{Na}_2\text{WO}_4\text{-Ni}_{0.2}\text{Cu}_{0.2}\text{Zn}_{0.6}\text{Fe}_2\text{O}_4$ ceramics with matched permittivity and permeability for miniaturized antenna. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2125-2133.	1.9	13
8	Ultralow-loss $(1-x)\text{CaWO}_4\text{-}x\text{Na}_2\text{WO}_4$ ($x=0.1, 0.2$) microwave dielectric ceramic for LTCC applications. <i>Journal of Materiomics</i> , 2021, 7, 1022-1028.	2.8	12
9	Cold-sintered $\text{Ni}_0.2\text{Cu}_0.2\text{Zn}_0.6\text{Fe}_2\text{O}_4\text{-Li}_2\text{MoO}_4$ ceramic composites with enhanced magnetodielectric properties. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1310-1316.	2.8	11
10	Epoxy-Based Ceramic-Polymer Composite with Excellent Millimeter-Wave Broadband Absorption Properties by Facile Approach. <i>Advanced Engineering Materials</i> , 2019, 21, 1900981.	1.6	9
11	Effect of metastability on non-phase-transformation high-entropy alloys. <i>Materials and Design</i> , 2019, 181, 107928.	3.3	9
12	Multi-field susceptible high- f_c ceramic composite with atypical topological microstructure and extraordinary electromagnetic properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7482.	2.7	7
13	A solid solution-based millimeter-wave absorber exhibiting highly efficient absorbing capability and ultrabroad bandwidth simultaneously <i>via</i> a multi-elemental co-doping strategy. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1381-1393.	2.7	7
14	Chemical conversion synthesis of magnetic $\text{Fe}_{1-x}\text{Co}_x$ alloy nanosheets with controlled composition. <i>Chemical Communications</i> , 2021, 57, 2309-2312.	2.2	5
15	Low-loss insulating-conductive ceramic composite with giant permittivity and high permeability using glass phase as separating layer. <i>Ceramics International</i> , 2016, 42, 4126-4135.	2.3	3
16	A tri-phase percolative ceramic composite with high initial permeability and composition-independent giant permittivity. <i>RSC Advances</i> , 2019, 9, 30641-30649.	1.7	3
17	A paradigm of topological-microstructure-transition induced magnetic critical behaviors in percolative nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 166056.	1.0	3
18	Anomalous conductivity behavior induced by in situ metastable amorphous phase in $\text{BaTiO}_3/\text{Ni}_0.5\text{Zn}_0.5\text{Fe}_2\text{O}_4$ ceramic composite. <i>Ceramics International</i> , 2020, 46, 28659-28667.	2.3	2

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19	Scaling behavior and variable-range-hopping conduction of localized polarons in percolative BaTiO ₃ -Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ ceramic composite with colossal apparent permittivity. Journal of Applied Physics, 2020, 128, .	1.1	2
20	A universal approach of modelling the dielectric behaviors of percolative composite ceramics and thin films. Materials Research Express, 2019, 6, 116319.	0.8	1
21	Game-theory Based Driving Decision Algorithm for Intersection Scenarios Considering Driver Irrationality. , 2020, , .		1
22	Lane Departure Risk Assessment for Hands-free Driving Functions. , 2021, , .		0