Piyi Du

List of Publications by Year
in descending order

34 papers	1,060 citations	471509 17 h-index	414414 32 g-index
34 all docs	34 docs citations	34 times ranked	1161 citing authors

#	Article	IF	Citations
1	Room-temperature ferromagnetism in Fe-doped PbTiO3 nanocrystals. Applied Physics Letters, 2007, 91, .	3.3	130
2	Percolative conductor/polymer composite films with significant dielectric properties. Applied Physics Letters, 2007, 91, .	3.3	100
3	Zr⁴⁺doping-controlled permittivity and permeability of BaFe_{12â^'x}Zr_xO₁₉and the extraordinary EM absorption power in the millimeter wavelength frequency range. Journal of Materials Chemistry C, 2016, 4, 9532-9543.	5.5	84
4	Colossal Permittivity and Variable-Range-Hopping Conduction of Polarons in Ni_{0.5}Zn_{0.5}Fe₂O₄ Ceramic. Journal of Physical Chemistry C, 2013, 117, 12966-12972.	3.1	75
5	Exchange coupling controlled ferrite with dual magnetic resonance and broad frequency bandwidth in microwave absorption. Science and Technology of Advanced Materials, 2013, 14, 045002.	6.1	67
6	The tunable magnetic and microwave absorption properties of the Nb⁵⁺â€“Ni²⁺ co-doped M-type barium ferrite. Journal of Materials Chemistry C, 2017, 5, 3461-3472.	5.5	63
7	Controllable synthesis of nickel nanowires and its application in high sensitivity, stretchable strain sensor for body motion sensing. Journal of Materials Chemistry C, 2018, 6, 4737-4745.	5.5	61
8	Super High Threshold Percolative Ferroelectric/Ferrimagnetic Composite Ceramics with Outstanding Permittivity and Initial Permeability. Angewandte Chemie - International Edition, 2009, 48, 8927-8930.	13.8	47
9	Ferroelectric/ferromagnetic ceramic composite and its hybrid permittivity stemming from hopping charge and conductivity inhomogeneity. Journal of Applied Physics, 2013, 113, .	2.5	47
10	Multi-susceptibile Single-Phased Ceramics with Both Considerable Magnetic and Dielectric Properties by Selectively Doping. Scientific Reports, 2015, 5, 9498.	3.3	46
11	A percolative ferroelectricâ€“metal composite with hybrid dielectric dependence. Scripta Materialia, 2007, 57, 921-924.	5.2	43
12	A ferroelectric relaxor polymer-enhanced p-type WSe₂transistor. Nanoscale, 2018, 10, 1727-1734.	5.6	31
13	Formation of Solâ€“Gel In Situ Derived <scp>BTO</scp>/<scp>NZFO</scp> Composite Ceramics with Considerable Dielectric and Magnetic Properties. Journal of the American Ceramic Society, 2013, 96, 1240-1247.	3.8	30
14	Multiferroic Ceramic Composite with In Situ Glassy Barrier Interface and Novel Electromagnetic Properties. Journal of Physical Chemistry C, 2014, 118, 5802-5809.	3.1	28
15	Formation of BaFe_{12â^'x}Nb_xO₁₉ and its high electromagnetic wave absorption properties in millimeter wave frequency range. Journal of the American Ceramic Society, 2017, 100, 3999-4010.	3.8	25
16	Excellent absorption properties of BaFe_{12â^'x}Nb_xO₁₉controlled by multi-resonance permeability, enhanced permittivity, and the order of matching thickness. Physical Chemistry Chemical Physics, 2017, 19, 21893-21903.	2.8	22
17	Magnetoelectric coupling tailored by the orientation of the nanocrystals in only one component in percolative multiferroic composites. RSC Advances, 2019, 9, 20345-20355.	3.6	21
18	Relation between the microstructure and the electromagnetic properties of BaTiO3/Ni0.5Zn0.5Fe2O4 ceramic composite. Applied Physics A: Materials Science and Processing, 2015, 119, 1291-1300.	2.3	16

#	Article	IF	Citations
19	Control of the nanostructure in percolative multiferroic composites on the dielectric loss and magnetism threshold. Journal of Materials Chemistry C, 2015, 3, 9076-9088.	5.5	15
20	Azimuthally Controlled Magnetic and Dielectric Properties of Multiferroic Nanocrystalline Composite by Magnetic Coupling and Charge Hopping. Journal of Physical Chemistry C, 2015, 119, 17995-18005.	3.1	15
21	Millimeter-wave absorption properties of BaTiO₃/Co₃O₄composite powders controlled by high-frequency resonances of permittivity and permeability. Journal of Materials Chemistry C, 2018, 6, 12965-12975.	5.5	13
22	Synthesis of percolative hyperelastic conducting composite and demonstrations of application in wearable strain sensors. Materials Letters, 2018, 233, 306-309.	2.6	13
23	Strain-assisted control of high stable dielectric tunability in (100) oriented (Pb,Sr)TiO3 thin films. Journal of Alloys and Compounds, 2013, 576, 121-125.	5.5	12
24	Effect of changeable demagnetizing state of ferrite on the permeability of BaTiO3/Ni0.5Zn0.5Fe2O4 composites. Journal Physics D: Applied Physics, 2013, 46, 185002.	2.8	10
25	In Situ and Intraoperative Detection of the Ureter Injury Using a Highly Sensitive Piezoresistive Sensor with a Tunable Porous Structure. ACS Applied Materials & Interfaces, 2021, 13, 21669-21679.	8.0	9
26	Synthesis and controlled morphology of Ni@Ag core shell nanowires with excellent catalytic efficiency and recyclability. Nanotechnology, 2019, 30, 385603.	2.6	8
27	Multi-field susceptible high-f_cceramic composite with atypical topological microstructure and extraordinary electromagnetic properties. Journal of Materials Chemistry C, 2014, 2, 7482.	5.5	7
28	Anisotropy of Percolation Threshold of BaTiO3-Ni0.5Zn0.5Fe2O4 Composite Films. Scientific Reports, 2019, 9, 7855.	3.3	5
29	In situ formation of composite thin film with (111) oriented Ni0.5Zn0.5Fe2O4 pillar array surrounded by BaTiO3 for ferroelectric-ferromagnetic coupling. Journal of Alloys and Compounds, 2021, 885, 161068.	5.5	5
30	Control of gradient activation energy on the formation and properties of multiferroic composite thin films. Journal of Materials Chemistry C, 2016, 4, 2028-2039.	5.5	4
31	Multimode Signal Processor Unit Based on the Ambipolar WSe₂â€“Cr Schottky Junction. ACS Applied Materials & Interfaces, 2019, 11, 38895-38901.	8.0	3
32	A tri-phase percolative ceramic composite with high initial permeability and composition-independent giant permittivity. RSC Advances, 2019, 9, 30641-30649.	3.6	3
33	Scaling behavior and variable-range-hopping conduction of localized polarons in percolative BaTiO3-Ni0.5Zn0.5Fe2O4 ceramic composite with colossal apparent permittivity. Journal of Applied Physics, 2020, 128, .	2.5	2
34	Mechanism of Doping-Induced Orientation of Magnetic Phase in a Solâ€“Gel-Derived Ni_{0.5}Zn_{0.5}Fe₂O₄/BaTiO₃ Multiferroic Thin Film with High Magnetoelectric Coupling. Journal of Physical Chemistry C, 2021, 125, 28025-28038.	3.1	0