

Piyi Du

List of Publications by Year in descending order

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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	In Situ and Intraoperative Detection of the Ureter Injury Using a Highly Sensitive Piezoresistive Sensor with a Tunable Porous Structure. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21669-21679.	8.0	9
2	In situ formation of composite thin film with (111) oriented Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ pillar array surrounded by BaTiO ₃ for ferroelectric-ferromagnetic coupling. <i>Journal of Alloys and Compounds</i> , 2021, 885, 161068.	5.5	5
3	Mechanism of Doping-Induced Orientation of Magnetic Phase in a Sol-Gel-Derived Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ /BaTiO ₃ Multiferroic Thin Film with High Magnetoelectric Coupling. <i>Journal of Physical Chemistry C</i> , 2021, 125, 28025-28038.	3.1	0
4	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. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	2
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.	3.6	21
6	Multimode Signal Processor Unit Based on the Ambipolar WSe ₂ -Cr Schottky Junction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38895-38901.	8.0	3
7	Anisotropy of Percolation Threshold of BaTiO ₃ -Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ Composite Films. <i>Scientific Reports</i> , 2019, 9, 7855.	3.3	5
8	Synthesis and controlled morphology of Ni@Ag core shell nanowires with excellent catalytic efficiency and recyclability. <i>Nanotechnology</i> , 2019, 30, 385603.	2.6	8
9	A tri-phase percolative ceramic composite with high initial permeability and composition-independent giant permittivity. <i>RSC Advances</i> , 2019, 9, 30641-30649.	3.6	3
10	Controllable synthesis of nickel nanowires and its application in high sensitivity, stretchable strain sensor for body motion sensing. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4737-4745.	5.5	61
11	A ferroelectric relaxor polymer-enhanced p-type WSe ₂ transistor. <i>Nanoscale</i> , 2018, 10, 1727-1734.	5.6	31
12	Millimeter-wave absorption properties of BaTiO ₃ /Co ₃ O ₄ composite powders controlled by high-frequency resonances of permittivity and permeability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12965-12975.	5.5	13
13	Synthesis of percolative hyperelastic conducting composite and demonstrations of application in wearable strain sensors. <i>Materials Letters</i> , 2018, 233, 306-309.	2.6	13
14	Formation of BaFe ₁₂ Nb _x O ₁₉ and its high electromagnetic wave absorption properties in millimeter wave frequency range. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3999-4010.	3.8	25
15	The tunable magnetic and microwave absorption properties of the Nb ⁵⁺ -Ni ²⁺ co-doped M-type barium ferrite. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3461-3472.	5.5	63
16	Excellent absorption properties of BaFe ₁₂ Nb _x O ₁₉ controlled by multi-resonance permeability, enhanced permittivity, and the order of matching thickness. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21893-21903.	2.8	22
17	Zr ⁴⁺ doping-controlled permittivity and permeability of BaFe ₁₂ Zr _x O ₁₉ and the extraordinary EM absorption power in the millimeter wavelength frequency range. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9532-9543.	5.5	84
18	Control of gradient activation energy on the formation and properties of multiferroic composite thin films. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2028-2039.	5.5	4

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19	Control of the nanostructure in percolative multiferroic composites on the dielectric loss and magnetism threshold. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9076-9088.	5.5	15
20	Azimuthally Controlled Magnetic and Dielectric Properties of Multiferroic Nanocrystalline Composite by Magnetic Coupling and Charge Hopping. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17995-18005.	3.1	15
21	Relation between the microstructure and the electromagnetic properties of BaTiO ₃ /Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ ceramic composite. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 1291-1300.	2.3	16
22	Multi-susceptible Single-Phased Ceramics with Both Considerable Magnetic and Dielectric Properties by Selectively Doping. <i>Scientific Reports</i> , 2015, 5, 9498.	3.3	46
23	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.	5.5	7
24	Multiferroic Ceramic Composite with In Situ Glassy Barrier Interface and Novel Electromagnetic Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5802-5809.	3.1	28
25	Formation of Sol-Gel In Situ Derived BTO/NZFO Composite Ceramics with Considerable Dielectric and Magnetic Properties. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1240-1247.	3.8	30
26	Strain-assisted control of high stable dielectric tunability in (100) oriented (Pb,Sr)TiO ₃ thin films. <i>Journal of Alloys and Compounds</i> , 2013, 576, 121-125.	5.5	12
27	Exchange coupling controlled ferrite with dual magnetic resonance and broad frequency bandwidth in microwave absorption. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 045002.	6.1	67
28	Colossal Permittivity and Variable-Range-Hopping Conduction of Polarons in Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ Ceramic. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12966-12972.	3.1	75
29	Effect of changeable demagnetizing state of ferrite on the permeability of BaTiO ₃ /Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ composites. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 185002.	2.8	10
30	Ferroelectric/ferromagnetic ceramic composite and its hybrid permittivity stemming from hopping charge and conductivity inhomogeneity. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	47
31	Super High Threshold Percolative Ferroelectric/Ferrimagnetic Composite Ceramics with Outstanding Permittivity and Initial Permeability. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8927-8930.	13.8	47
32	Percolative conductor/polymer composite films with significant dielectric properties. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	100
33	Room-temperature ferromagnetism in Fe-doped PbTiO ₃ nanocrystals. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	130
34	A percolative ferroelectric-metal composite with hybrid dielectric dependence. <i>Scripta Materialia</i> , 2007, 57, 921-924.	5.2	43