Chuyang Liu

List of Publications by Year
in descending order

76 papers	1,277 citations	361296 20 h-index	395590 33 g-index
78 all docs	78 docs citations	78 times ranked	1215 citing authors

#	Article	IF	Citations
1	A solid solution-based millimeter-wave absorber exhibiting highly efficient absorbing capability and ultrabroad bandwidth simultaneously via a multi-elemental co-doping strategy. Journal of Materials Chemistry C, 2022, 10, 1381-1393.	2.7	7
2	Formation of calcium carbonate nanoparticles through the assembling effect of glucose and the influence on the properties of PDMS. RSC Advances, 2022, 12, 13600-13608.	1.7	0
3	Facile fabrication of rGO/Zr4+-Ni2+ gradient-doped BaM composites for broad microwave absorption bandwidth. Ceramics International, 2021, 47, 4333-4337.	2.3	7
4	Control of Nano Grains and Wide Carbocyclic Layer Space of Forming Active Carbon with Extraordinary Capacitance Characteristics in Supercapacitors. Journal of Physical Chemistry C, 2021, 125, 6570-6584.	1.5	0
5	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.	4.0	9
6	Selectively doped barium ferrite ceramics with giant permittivity and high tunability under extremely low electric bias. Journal of Applied Physics, 2021, 130, 124101.	1.1	4
7	Broad microwave absorption bandwidth achieved by exchange coupling interaction between hard and soft magnetic materials. Ceramics International, 2021, 47, 2879-2883.	2.3	18
8	A novel and facile route for the in situ formation of composites with dual coupling interactions for considerable millimeter wave absorption performance. Journal of Materials Chemistry C, 2021, 9, 12523-12529.	2.7	12
9	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.	1.5	0
10	Enhanced microwave absorption properties of barium ferrites by Zr4+-Ni2+ doping and oxygen-deficient sintering. Journal of Magnetism and Magnetic Materials, 2020, 494, 165828.	1.0	23
11	Enhanced microwave absorption performance of Fe3O4/Cu composites with coexistence of nanospheres and nanorods. Journal of Alloys and Compounds, 2020, 817, 152764.	2.8	30
12	Synthesis of broad microwave absorption bandwidth Zr4+-Ni2+ ions gradient-substituted barium ferrite. Ceramics International, 2020, 46, 25808-25816.	2.3	16
13	Reduced Graphene Oxide-CoFe₂O₄/FeCo Nanoparticle Composites for Electromagnetic Wave Absorption. ACS Applied Nano Materials, 2020, 3, 8939-8948.	2.4	27
14	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, .	1.1	2
15	Ultrahigh purity CaCO₃ whiskers derived from the enhanced diffusion of carbonate ions from a larger liquidâ€“gas interface through porous quartz stones. CrystEngComm, 2020, 22, 6407-6414.	1.3	2
16	Achievement of superior microwave absorption performance and ultra-wide regulation frequency range in Fe-Co-Nd via tuning the phase constitution and crystallinity. Journal of Magnetism and Magnetic Materials, 2020, 502, 166561.	1.0	7
17	Control of Oxygen Vacancies in TiO₆ Octahedra of Amorphous BaTiO₃ Thin Films with Tunable Builtâ€in Electric Field in aâ€BaTiO₃/pâ€Si Heterojunction for Metalâ€“Oxideâ€“Semiconductor Applications. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900941.	0.8	3
18	Magnetoelectric coupling tailored by the orientation of the nanocrystals in only one component in percolative multiferroic composites. RSC Advances, 2019, 9, 20345-20355.	1.7	21

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19	Broadened ferromagnetic resonance range in ferrite by gradient composition design. Ceramics International, 2019, 45, 24900-24902.	2.3	7
20	Multimode Signal Processor Unit Based on the Ambipolar WSe₂â€“Cr Schottky Junction. ACS Applied Materials & Interfaces, 2019, 11, 38895-38901.	4.0	3
21	Anisotropy of Percolation Threshold of BaTiO3-Ni0.5Zn0.5Fe2O4 Composite Films. Scientific Reports, 2019, 9, 7855.	1.6	5
22	Enhanced microwave absorption properties of Zr4+-doped Fe3O4 for coordinated impedance matching and attenuation performances. Journal of Alloys and Compounds, 2019, 790, 316-325.	2.8	26
23	A tri-phase percolative ceramic composite with high initial permeability and composition-independent giant permittivity. RSC Advances, 2019, 9, 30641-30649.	1.7	3
24	Multiple nature resonance behavior of BaFexTiO19 controlled by Fe/Ba ratio and its regulation on microwave absorption properties. Journal of Alloys and Compounds, 2019, 773, 730-738.	2.8	29
25	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.	2.7	61
26	Percolative multi-susceptible PVDF/NZFO composite films with triply controlled high dielectric and magnetic properties. Journal of Applied Physics, 2018, 123, .	1.1	7
27	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.	2.7	13
28	Formation of BaFe12-xNixO19 ceramics with considerably high dielectric and magnetic property coexistence. Journal of Alloys and Compounds, 2018, 765, 951-960.	2.8	22
29	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.	1.9	25
30	Effect of Ag doping on the formation and properties of percolative Ag/BiFeO3 composite thin film by solâ€“gel method. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	8
31	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.	2.7	63
32	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.	1.3	22
33	Tailoring the light absorption of Ag-PZT thin films by controlling the growth of hexagonal- and cubic-phase Ag nanoparticles. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	3
34	Formation of nano-Ag/BiFeO3 composite thin film with extraordinary high dielectric and effective ferromagnetic properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 5652-5662.	1.1	9
35	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.	2.7	84
36	Control of gradient activation energy on the formation and properties of multiferroic composite thin films. Journal of Materials Chemistry C, 2016, 4, 2028-2039.	2.7	4

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37	Percolative nanoparticle-Ag/PbZr0.52Ti0.48O3 composite thin film with high dielectric and ferroelectric properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 448-455.	1.1	5
38	Control of the nanostructure in percolative multiferroic composites on the dielectric loss and magnetism threshold. Journal of Materials Chemistry C, 2015, 3, 9076-9088.	2.7	15
39	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.	1.5	15
40	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.	1.1	16
41	Multi-susceptibile Single-Phased Ceramics with Both Considerable Magnetic and Dielectric Properties by Selectively Doping. Scientific Reports, 2015, 5, 9498.	1.6	46
42	Multi-field susceptible high-f_cceramic composite with atypical topological microstructure and extraordinary electromagnetic properties. Journal of Materials Chemistry C, 2014, 2, 7482.	2.7	7
43	Multiferroic Ceramic Composite with In Situ Glassy Barrier Interface and Novel Electromagnetic Properties. Journal of Physical Chemistry C, 2014, 118, 5802-5809.	1.5	28
44	Formation of intercalation compound of kaoliniteâ€“glycine via displacing guest water by glycine. Journal of Colloid and Interface Science, 2014, 432, 278-284.	5.0	10
45	Control of tensile stress on inducing formation and tunability of (100) oriented Pb x Sr1â^'x TiO3 thin films. Applied Physics A: Materials Science and Processing, 2014, 117, 1171-1177.	1.1	1
46	Incorporation of chitosan nanospheres into thin mineralized collagen coatings for improving the antibacterial effect. Colloids and Surfaces B: Biointerfaces, 2013, 111, 536-541.	2.5	20
47	Titanium dioxide nanorod-based amperometric sensor for highly sensitive enzymatic detection of hydrogen peroxide. Mikrochimica Acta, 2013, 180, 1487-1493.	2.5	9
48	Percolative NZFO/BTO ceramic composite with magnetism threshold. Journal of Materials Chemistry C, 2013, 1, 6325.	2.7	26
49	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.	1.9	30
50	Exchange coupling controlled ferrite with dual magnetic resonance and broad frequency bandwidth in microwave absorption. Science and Technology of Advanced Materials, 2013, 14, 045002.	2.8	67
51	Formation of 0.84 nm Hydrated Kaolinite as an Environmentally Friendly Precursor of a Kaolinite Intercalation Compound. Clays and Clay Minerals, 2013, 61, 416-423.	0.6	7
52	Direct Control of Defects on Positron Lifetimes and Dielectric Constant of Microwave Ceramics. Journal of the American Ceramic Society, 2013, 96, 2537-2543.	1.9	17
53	Ferroelectric/ferromagnetic ceramic composite and its hybrid permittivity stemming from hopping charge and conductivity inhomogeneity. Journal of Applied Physics, 2013, 113, .	1.1	47
54	Highly sensitive hydrogen peroxide biosensors based on TiO2 nanodots/ITO electrodes. Journal of Materials Chemistry, 2012, 22, 9019.	6.7	34

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55	Shape-controlled synthesis of lead zirconate titanate nanocrystallites, microrods, microrolls and 3D complex architectures via the effects of poly-vinylalcohol macromolecular conformation. CrystEngComm, 2012, 14, 6783.	1.3	8
56	Dipole azimuth dependent permittivity in randomly and (100) oriented (Pb,Sr)TiO3 thin films. Journal of Materials Chemistry, 2011, 21, 10808.	6.7	19
57	Effect of Zn doping on structure and ferroelectric properties of PST thin films prepared by solâ€“gel method. Journal of Materials Science: Materials in Electronics, 2011, 22, 351-358.	1.1	4
58	A study on CSC-derived Ba2Ti9O20 phase formation and its dielectric property. Journal of Materials Science: Materials in Electronics, 2010, 21, 416-420.	1.1	0
59	Preparation of titanium silicide nanowires by APCVD method. , 2010, , .		0
60	Percolative ceramic composites with giant dielectric constants and low dielectric losses. Journal of Materials Chemistry, 2010, , .	6.7	3
61	Initial permeability of percolative PbTiO3/NiFe2O4 composite ceramics by a solâ€“gel in situ process. Journal of Materials Chemistry, 2010, 20, 10856.	6.7	20
62	Effect of Heat Treatment Temperature on the Formation of Ag Nanoparticles in Ag-PbTiO₃Composite Thin Films. Ferroelectrics, 2009, 387, 161-166.	0.3	2
63	Preparation of Fine-Grained Multiferroic BaTiO3-(Ni0.5Zn0.5) Fe2O4Ceramic Composites. Ferroelectrics, 2009, 387, 175-183.	0.3	2
64	Synthesis and properties of SDC powders and ceramics for low temperature SOFC by stearic acid process. Journal of Electroceramics, 2008, 21, 698-701.	0.8	4
65	Colloidal spray pyrolysis preparation and characterization of nanocrystalline NiO-SDC composite powders for SOFCs. Journal of Electroceramics, 2008, 21, 702-705.	0.8	1
66	DIELECTRIC BEHAVIOR OF NOVEL ACETYLENE BLACKâ€“PVDF/BaTiO3 TRI-PHASE COMPOSITE FILM. Surface Review and Letters, 2008, 15, 19-22.	0.5	4
67	Mineralizer-Assisted Hydrothermal Synthesis and Characterization of BiFeO3Nanoparticles. Journal of the American Ceramic Society, 2007, 90, 2615-2617.	1.9	103
68	Alkali Metal Ions-Assisted Controllable Synthesis of Bismuth Ferrites by a Hydrothermal Method. Journal of the American Ceramic Society, 2007, 90, 3673-3675.	1.9	53
69	Effect of lead on formation and dielectric tunability of (Pbx,Sr1âˆ’x)0.85Bi0.1TiO3 thin films. Frontiers of Materials Science in China, 2007, 1, 59-64.	0.5	0
70	PREPARATION AND MORPHOLOGY OF POROUS NANOCALCIUM PHOSPHATE/POLY(L-LACTIC ACID) COMPOSITES. International Journal of Nanoscience, 2005, 04, 517-523.	0.4	0
71	Effect of Pluronic F127 on the pore structure of macrocellular biodegradable polylactide foams. Polymers for Advanced Technologies, 2004, 15, 425-430.	1.6	16
72	Preparation of amorphous calcium phosphate in the presence of poly(ethylene glycol). Journal of Materials Science Letters, 2003, 22, 1015-1016.	0.5	44

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73	Structural Nature of Nanocrystalline Silicon. Materials Research Society Symposia Proceedings, 1993, 297, 381.	0.1	2
74	Investigation of Optimal Photosensor in A-Si:H Liquid Crystal Light Valves. Materials Research Society Symposia Proceedings, 1992, 258, 1175.	0.1	4
75	Characterization of A-Si : H and A-SiGe : H Films in Liquid Crystal Light Valve. Materials Research Society Symposia Proceedings, 1991, 219, 179.	0.1	3
76	Defect States in Hydrogenated Amorphous Silicon-Sulphur Alloys by ESR and PAS. Materials Research Society Symposia Proceedings, 1991, 219, 593.	0.1	0