

Peitao Xie

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,595
citations

136950

32
h-index

106344

65
g-index

66
all docs

66
docs citations

66
times ranked

3064
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible polydimethylsiloxane/multi-walled carbon nanotubes membranous metacomposites with negative permittivity. <i>Polymer</i> , 2017, 125, 50-57.	3.8	379
2	Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 173-185.	21.1	356
3	Bio-gel derived nickel/carbon nanocomposites with enhanced microwave absorption. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8812-8822.	5.5	301
4	Lightweight Fe ₃ C@Fe/C nanocomposites derived from wasted cornstalks with high-efficiency microwave absorption and ultrathin thickness. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 1226-1238.	21.1	215
5	Tunable and weakly negative permittivity in carbon/silicon nitride composites with different carbonizing temperatures. <i>Carbon</i> , 2017, 125, 103-112.	10.3	199
6	Carbon nanospheres induced high negative permittivity in nanosilver-polydopamine metacomposites. <i>Carbon</i> , 2019, 147, 550-558.	10.3	190
7	Tunneling-induced negative permittivity in Ni/MnO nanocomposites by a bio-gel derived strategy. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3029-3039.	5.5	169
8	Flexible polystyrene/graphene composites with epsilon-near-zero properties. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1054-1066.	21.1	169
9	Recent advances in radio-frequency negative dielectric metamaterials by designing heterogeneous composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 679-695.	21.1	168
10	An overview of metamaterials and their achievements in wireless power transfer. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2925-2943.	5.5	166
11	Precise regulation of weakly negative permittivity in CaCu ₃ Ti ₄ O ₁₂ metacomposites by synergistic effects of carbon nanotubes and grapheme. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 419-430.	21.1	155
12	Design and analysis of negative permittivity behaviors in barium titanate/nickel metacomposites. <i>Acta Materialia</i> , 2020, 185, 412-419.	7.9	154
13	Silica microsphere templated self-assembly of a three-dimensional carbon network with stable radio-frequency negative permittivity and low dielectric loss. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5239-5249.	5.5	143
14	Targeted Double Negative Properties in Silver/Silica Random Metamaterials by Precise Control of Microstructures. <i>Research</i> , 2019, 2019, 1021368.	5.7	118
15	Carbon aerogels towards new candidates for double negative metamaterials of low density. <i>Carbon</i> , 2018, 129, 598-606.	10.3	105
16	Flexible multi-walled carbon nanotubes/polydimethylsiloxane membranous composites toward high-permittivity performance. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 1-7.	21.1	95
17	C/SiO ₂ meta-composite: Overcoming the $\epsilon \propto \lambda$ relationship limitation in metamaterials. <i>Carbon</i> , 2017, 125, 1-8.	10.3	90
18	Facile Synthesis of Fe@Fe ₃ C/C Nanocomposites Derived from Bulrush for Excellent Electromagnetic Wave-Absorbing Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18765-18774.	6.7	90

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19	Permittivity transition from positive to negative in acrylic polyurethane-aluminum composites. <i>Composites Science and Technology</i> , 2020, 188, 107969.	7.8	78
20	Enhanced microwave absorption properties of Fe ₃ C/C nanofibers prepared by electrospinning. <i>Journal of Alloys and Compounds</i> , 2019, 804, 305-313.	5.5	75
21	Low-temperature sintering Graphene/CaCu ₃ Ti ₄ O ₁₂ nanocomposites with tunable negative permittivity. <i>Journal of Alloys and Compounds</i> , 2019, 771, 699-710.	5.5	73
22	Regulation mechanism of negative permittivity in percolating composites via building blocks. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	72
23	Negative permittivity in titanium nitride- ϵ alumina composite for functionalized structural ceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 403-411.	3.8	69
24	Negative permittivity adjusted by SiO ₂ -coated metallic particles in percolative composites. <i>Journal of Alloys and Compounds</i> , 2017, 725, 1259-1263.	5.5	64
25	Significantly enhanced dielectric permittivity and low loss in epoxy composites incorporating 3d W-WO ₃ /BaTiO ₃ foams. <i>Journal of Materials Science</i> , 2021, 56, 4254-4265.	3.7	60
26	Hydrosoluble Graphene/Polyvinyl Alcohol Membranous Composites with Negative Permittivity Behavior. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900709.	3.6	59
27	Epsilon-negative BaTiO ₃ /Cu composites with high thermal conductivity and yet low electrical conductivity. <i>Journal of Materiomics</i> , 2020, 6, 145-151.	5.7	58
28	Improved breakdown strengths and energy storage properties of polyimide composites: The effect of internal interfaces of C/SiO ₂ hybrid nanoparticles. <i>Polymer Composites</i> , 2021, 42, 3000-3010.	4.6	50
29	Radio-frequency negative permittivity in the graphene/silicon nitride composites prepared by spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1598-1606.	3.8	40
30	Low-loss and temperature-stable negative permittivity in La _{0.5} Sr _{0.5} MnO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1917-1921.	5.7	38
31	Ultraweakly and fine-tunable negative permittivity of polyaniline/nickel metacomposites with high-frequency diamagnetic response. <i>Composites Science and Technology</i> , 2022, 217, 109092.	7.8	35
32	Synergistic Effects of Carbon Nanotubes on Negative Dielectric Properties of Graphene-Phenolic Resin Composites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12037-12045.	3.1	33
33	Radio-frequency epsilon-negative property and diamagnetic response of percolative Ag/CCTO metacomposites. <i>Scripta Materialia</i> , 2021, 203, 114067.	5.2	33
34	Functional nano-units prepared by electrostatic self-assembly for three-dimension carbon networks hosted in CaCu ₃ Ti ₄ O ₁₂ ceramics towards radio-frequency negative permittivity. <i>Journal of Alloys and Compounds</i> , 2018, 743, 618-625.	5.5	32
35	Generation mechanism of negative permittivity and Kramers-Kronig relations in BaTiO ₃ /Y ₃ Fe ₅ O ₁₂ multiferroic composites. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 365703.	1.8	31
36	Negative permittivity behavior in Ti ₃ AlC ₂ -polyimide composites and the regulation mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10388-10397.	2.2	31

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37	Tailorable radio-frequency negative permittivity of titanium nitride sintered with different oxidation pretreatments. <i>Ceramics International</i> , 2017, 43, 16980-16985.	4.8	30
38	Nitrogen-doped carbon nanofibers with sulfur heteroatoms for improving microwave absorption. <i>Journal of Materials Science</i> , 2020, 55, 5832-5842.	3.7	30
39	Tunable radio-frequency negative permittivity of Carbon/CaCu ₃ Ti ₄ O ₁₂ metacomposites. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155164.	5.5	30
40	Targeted Double Negative Properties in Silver/Silica Random Metamaterials by Precise Control of Microstructures. <i>Research</i> , 2019, 2019, 1-11.	5.7	30
41	Epsilon-negative behavior of BaTiO ₃ /Ag metacomposites prepared by an in situ synthesis. <i>Ceramics International</i> , 2020, 46, 9342-9346.	4.8	28
42	Compressible silver nanowires/polyurethane sponge metacomposites with weakly negative permittivity controlled by elastic deformation. <i>Journal of Materials Science</i> , 2020, 55, 15481-15492.	3.7	25
43	Epsilon-Negative Carbon Aerogels with State Transition from Dielectric to Degenerate Semiconductor. <i>Advanced Electronic Materials</i> , 2021, 7, 2000877.	5.1	25
44	Iron/epoxy random metamaterials with adjustable epsilon-near-zero and epsilon-negative property. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15995-16007.	2.2	19
45	Tunable negative permittivity and permeability of yttrium iron garnet/polyaniline composites in radio frequency region. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6119-6124.	2.2	18
46	Regulation mechanism of negative permittivity in poly (p-phenylene sulfide)/multiwall carbon nanotubes composites. <i>Synthetic Metals</i> , 2018, 244, 15-19.	3.9	17
47	Insights into Ion Occupancy Manipulation of Fe-Co Oxide Free-Standing Cathodes for Li-O ₂ Batteries with Enhanced Deep Charge Capability and Long-Term Capability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30268-30279.	8.0	17
48	Metacomposites: functional design via titanium nitride/nickel(II) oxide composites towards tailorable negative dielectric properties at radio-frequency range. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5853-5861.	2.2	16
49	Surface-reconstructed formation of hierarchical TiO ₂ mesoporous nanosheets with fast lithium-storage capability. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3216-3225.	5.9	16
50	Double dielectric modification of nickel foam-based microwave absorbers with improved impedance matching and absorption performances. <i>Ceramics International</i> , 2021, 47, 33490-33497.	4.8	12
51	Tunable and weakly negative permittivity at radio frequency range based on titanium nitride/polyethylene terephthalate composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15994-16003.	2.2	10
52	Negative permittivity behavior of titanium nitride/polyphenylene sulfide metacomposites under radio frequency. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12144-12151.	2.2	9
53	A novel carbon aerogel enabling respiratory monitoring for bio-facial masks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13143-13150.	10.3	9
54	Strategy of adjusting negative permittivity with invariant permeability property in metallic granular percolating composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1246-1253.	2.2	8

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55	Flexible acrylic-polyurethane/copper composites with a frequency and temperature-independent permittivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20832-20839.	2.2	7
56	Communicationâ€”Epsilon-Negative Metacomposite Realized by Titanium Carbide Alumina Binary Ceramics in Radio Frequency. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, N36-N38.	1.8	7
57	Weakly Radio-Frequency Negative Permittivity of Poly(vinylidene fluoride)/Ti ₃ SiC ₂ MAX Phase Metacomposites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 248-257.	3.7	7
58	Three-dimensional graphene network supported by poly phenylene sulfide with negative permittivity at radio-frequency. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20768-20774.	2.2	6
59	Large-Area, Low-Cost Infrared Metamaterial Fabrication Via Pulsed Laser Deposition with Metallic Mesh as a Shadow Mask. <i>Plasmonics</i> , 2016, 11, 373-379.	3.4	5
60	Weakly negative permittivity with an extremely low plasma frequency in polyvinyl alcohol/graphene membranous metacomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23081-23089.	2.2	5
61	Iron Granular Percolative Composites toward Radio-Frequency Negative Permittivity. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, N132-N136.	1.8	4
62	Reverse design of negative permittivity property in Nickel-Network/Epoxy composites. <i>Materials Letters</i> , 2019, 248, 177-180.	2.6	4
63	Meta-composites: NiO supported 3D carbon networks structured by 1D building blocks towards tailorable negative permittivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18815-18827.	2.2	1
64	Steered polymorphic nanodomains in TiO ₂ to boost visible-light photocatalytic oxidation. <i>RSC Advances</i> , 2022, 12, 9660-9670.	3.6	1
65	Dielectric and Magnetic Relaxation Behavior in Fe ₇₈ Si ₉ B ₁₃ /Polyaniline Composites at Radio-Frequency Range. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, N87-N91.	1.8	0