

Yuanwen Gao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,103
citations

16
h-index

28
g-index

106
ext. papers

1,339
ext. citations

2.6
avg, IF

5.34
L-index

#	Paper	IF	Citations
101	Investigation on the tunability of the band structure of two-dimensional magnetorheological elastomers phononic crystals plate. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 544, 168704	2.8	0
100	Analysis of the strain dependence of the superconducting critical properties of single-crystal and polycrystalline Nb ₃ Sn. <i>Superconductor Science and Technology</i> , 2021 , 34, 075006	3.1	0
99	Nonlinear contact behavior of HTS tapes during pancake coiling and CORC cabling. <i>Superconductor Science and Technology</i> , 2021 , 34, 075003	3.1	2
98	Tunability of Band Gaps in Two-Dimensional Phononic Crystals with Magnetorheological and Electrorheological Composites. <i>Acta Mechanica Solida Sinica</i> , 2021 , 34, 40-52	2	5
97	Flexural wave band structure of magneto-elastic phononic crystal nanobeams based on the nonlocal theory. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 390, 127090	2.3	5
96	Thermoelectric performance and stress analysis on wearable thermoelectric generator under bending load. <i>Renewable Energy</i> , 2021 , 173, 581-595	8.1	6
95	Volumetric contact theory to electrical contact between random rough surfaces. <i>Tribology International</i> , 2021 , 160, 107007	4.9	1
94	Geometrical modeling and mechanical behavior analysis of Nb ₃ Sn Rutherford cable. <i>Cryogenics</i> , 2021 , 119, 103361	1.8	0
93	The Contact Behavior of the CORC Wires Under Stretching Process. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-5	1.8	2
92	Delamination and current-carrying degradation behavior of epoxy-impregnated superconducting coil winding with 2G HTS tape caused by thermal stress. <i>AIP Advances</i> , 2020 , 10, 025320	1.5	9
91	Analytical and Numerical Methods to Estimate the Effective Mechanical Properties of Rutherford Cables. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-8	1.8	3
90	Tunability of band gaps and energy harvesting based on the point defect in a magneto-elastic acoustic metamaterial plate. <i>Applied Physics Express</i> , 2020 , 13, 015503	2.4	6
89	A FRACTAL MODEL OF PERMEABILITY FOR THE LIQUID HELIUM FLOW IN CABLE-IN-CONDUIT CONDUCTORS. <i>Fractals</i> , 2019 , 27, 1950064	3.2	1
88	A Magnetic-Dependent Vibration Energy Harvester Based on the Tunable Point Defect in 2D Magneto-Elastic Phononic Crystals. <i>Crystals</i> , 2019 , 9, 261	2.3	11
87	Numerical analysis on the segmented annular thermoelectric generator for waste heat recovery. <i>Energy</i> , 2019 , 183, 35-47	7.9	33
86	First-order pinning interaction in type-II superconductors with Ginzburg-Landau descriptions. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	
85	Effect of magnetic-field orientation on dual-peak phenomenon of magnetoelectric coupling in Ni/PZT/Terfenol-D composites. <i>AIP Advances</i> , 2019 , 9, 045216	1.5	4

84	A Review of Magneto-Elastic Interaction and Its Theoretical Descriptions in Type-II Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 797-803	1.5	
83	Experimental Investigation of the Magnetoelectric Effect in NdFeB-Driven A-Line Shape Terfenol-D/PZT-5A Structures. <i>Materials</i> , 2019 , 12,	3.5	5
82	A Pressure Drop Model for Helium Flow in CIC Conductors Based on Porous Media Analogy. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-7	1.8	0
81	Experimental Research on Electromechanical Properties of Multiple Contact Surfaces Copper Bulks under Normal Cyclic Loading and Variable Temperature. <i>Materials</i> , 2019 , 12,	3.5	1
80	Tunability of hysteresis-dependent band gaps in a two-dimensional magneto-elastic phononic crystal using magnetic and stress loadings. <i>Applied Physics Express</i> , 2019 , 12, 027001	2.4	3
79	Effect of the twisting chirality configuration on the electromechanical behavior of multilayer superconducting tapes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 949-956	2.2	12
78	Three-dimensional multifilament finite element models of Bi-2212 high-temperature superconducting round wire under axial load. <i>Composite Structures</i> , 2019 , 211, 273-286	5.3	8
77	Mechanical analysis of a flexible cable battery using the finite element model. <i>AIP Advances</i> , 2019 , 9, 015013	1.5	5
76	Numerical simulation on thermoelectric and mechanical performance of annular thermoelectric generator. <i>Energy</i> , 2018 , 150, 38-48	7.9	50
75	Mechanical stress analysis during a quench in CLIQ protected 16 T dipole magnets designed for the future circular collider. <i>Physica C: Superconductivity and Its Applications</i> , 2018 , 550, 27-34	1.3	6
74	Effect of surfaces similarity on contact resistance of fractal rough surfaces under cyclic loading. <i>AIP Advances</i> , 2018 , 8, 035319	1.5	9
73	Comparison study of cable geometries and superconducting tape layouts for high-temperature superconductor cables. <i>Cryogenics</i> , 2018 , 91, 96-102	1.8	1
72	Numerical simulation of the electro-thermo-mechanical behaviors of a high-temperature superconducting cable. <i>Composite Structures</i> , 2018 , 192, 616-625	5.3	10
71	Effect of substrate thickness on interfacial adhesive strength and thermal residual stress of second-generation high-temperature superconducting tape using peel test modeling. <i>Cryogenics</i> , 2018 , 94, 89-94	1.8	5
70	The winding mechanical behavior of conductor on round core cables. <i>Physica C: Superconductivity and Its Applications</i> , 2018 , 553, 65-71	1.3	16
69	Numerical models of delamination behavior in 2G HTS tapes under transverse tension and peel. <i>Physica C: Superconductivity and Its Applications</i> , 2018 , 545, 26-37	1.3	25
68	Ginzburg-Landau Theory for Magneto-Elastic Interaction and Magnetization in Type-II Superconductors. <i>Annalen Der Physik</i> , 2018 , 530, 1800266	2.6	2
67	Gap evolution of Lamb wave propagation in magneto-elastic phononic plates with pillars and holes by modulating magnetic field and stress loadings. <i>Journal of Applied Physics</i> , 2018 , 124, 244102	2.5	9

66	A quasistatic hysteresis model for magnetoelectric effect in multiferroic nanostructured films with surface effect. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 706-718	5.7	8
65	A nonlinear magneto-mechanical-thermal-electric coupling model of Terfenol-D/PZT/Terfenol-D and Ni/PZT/Ni laminates. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 466, 200-211	2.8	6
64	A 2D mechanical-magneto-thermal model for direction-dependent magnetoelectric effect in laminates. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 437-447	2.8	11
63	Tunability of band structures in a two-dimensional magnetostrictive phononic crystal plate with stress and magnetic loadings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1055-1066	2.3	27
62	A coupling finite element model for analysis the nonlinear dynamic magnetoelectric response of tri-layer laminate composites. <i>Composite Structures</i> , 2017 , 166, 163-176	5.3	21
61	3D simulation of AC loss in a twisted multi-filamentary superconducting wire. <i>Cryogenics</i> , 2017 , 84, 60-68	8.8	5
60	Theoretical study on functionally graded cylindrical magnetoelectric composites using d15 shear-mode response. <i>AIP Advances</i> , 2017 , 7, 085202	1.5	
59	Surface effect on band structure of flexural wave propagating in magneto-elastic phononic crystal nanobeam. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 445303	3	15
58	GLAG theory for superconducting property variations with A15 composition in NbSn wires. <i>Scientific Reports</i> , 2017 , 7, 1133	4.9	6
57	Magneto-elastic coupling model of deformable anisotropic superconductors. <i>Europhysics Letters</i> , 2017 , 118, 27006	1.6	3
56	Mechanical Behavior of a 16-T FCC Dipole Magnet During a Quench. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-7	1.8	6
55	Enhancement of the magnetoelectric coupling in an A-line shape magnetostrictive/piezoelectric structure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1-9	2.3	13
54	A functionally graded composite cantilever to harvest energy from magnetic field. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 989-999	5.7	16
53	A nonlinear model for magnetocapacitance effect in PZT-ring/Terfenol-D-strip magnetoelectric composites. <i>AIP Advances</i> , 2016 , 6, 065318	1.5	1
52	A mechanical-thermo-magneto model for self-biased magnetoelectric effect in laminated composite. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 1046-1053	2.8	4
51	Nonlocal orthotropic shell model applied on wave propagation in microtubules. <i>Applied Mathematical Modelling</i> , 2016 , 40, 5731-5744	4.5	10
50	Electromagnetic-Mechanical Coupling Analysis of Nb3Sn Superconducting Strand. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	5
49	Tensile Behavior Analysis of the Nb 3Sn Superconducting Strand With Damage of the Filaments. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	4

48	Vortex-lattice pinning and critical current density in anisotropic high-temperature superconductors. <i>Superconductor Science and Technology</i> , 2016 , 29, 104009	3.1	1
47	Mechanical behaviors of multi-filament twist superconducting strand under tensile and cyclic loading. <i>Cryogenics</i> , 2016 , 73, 14-24	1.8	10
46	Scaling rules for critical current density in anisotropic biaxial superconductors. <i>Physica B: Condensed Matter</i> , 2016 , 491, 70-78	2.8	6
45	Electro-mechanical behaviors of composite superconducting strand with filament breakage. <i>Physica C: Superconductivity and Its Applications</i> , 2016 , 529, 26-35	1.3	6
44	Simulation of transport properties in Nb3Sn strand under bending. <i>Cryogenics</i> , 2015 , 71, 1-6	1.8	2
43	Radial vibration of ultra-small nanoparticles with surface effects. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 85, 287-292	3.9	7
42	Theoretical study on nonlinear magnetoelectric effect and harmonic distortion behavior in laminated composite. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 351-359	5.7	24
41	A 3D Model on the Electromechanical Behavior of a Multifilament Twisted Nb3Sn Superconducting Strand. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 2683-2695	1.5	4
40	Effects of hysteresis and temperature on magnetoelectric effect in giant magnetostrictive/piezoelectric composites. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 291-304	3.1	29
39	A mechanical-magneto-thermal model for the tunability of band gaps of epoxy/Terfenol-D phononic crystals. <i>Journal of Applied Physics</i> , 2015 , 118, 034101	2.5	11
38	Optimal design of a novel thermoelectric generator with linear-shaped structure under different operating temperature conditions. <i>Applied Thermal Engineering</i> , 2015 , 78, 533-542	5.8	28
37	MECHANICAL-ELECTRIC BEHAVIORS OF MULTI-STAGE TWISTED SUPERCONDUCTING WIRES AND CABLES 2015 , 23-24		
36	A nonlinear magnetoelectric model for magnetoelectric layered composite with coupling stress. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 360, 131-136	2.8	22
35	The effects of interface scattering on thermoelectric properties of film thermoelectric materials. <i>Science Bulletin</i> , 2014 , 59, 3098-3106		6
34	Estimation of thermoelectric and mechanical performances of segmented thermoelectric generators under optimal operating conditions. <i>Applied Thermal Engineering</i> , 2014 , 73, 335-342	5.8	41
33	The morphology of graphene on an elastic graded substrate. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 63, 293-298	3	2
32	Spring model for mechanical-electrical properties of CICC in cryogenic-electromagnetic environments. <i>Cryogenics</i> , 2014 , 62, 14-30	1.8	8
31	Self-field calculation of CICC with fast direct Biot-Savart integration. <i>Fusion Engineering and Design</i> , 2014 , 89, 473-486	1.7	

30	Tunability of longitudinal wave band gaps in one dimensional phononic crystal with magnetostrictive material. <i>Journal of Applied Physics</i> , 2014 , 115, 074104	2.5	41
29	Electromagnetic behaviors of superconducting Nb3Sn wire under a time-dependent current injection. <i>AIP Advances</i> , 2014 , 4, 087131	1.5	3
28	Nonlinear magnetoelectric effect in PZT/Terfenol-D nanobilayer on a substrate with surface stress. <i>Journal of Applied Physics</i> , 2014 , 116, 024101	2.5	14
27	COMPUTATIONAL METHOD FOR ELASTICBLASTIC AND ANISOTROPIC SUPERCONDUCTING CABLE UNDER SIMPLE LOAD. <i>International Journal of Computational Methods</i> , 2014 , 11, 1344006	1.1	
26	Angular Dependence of Transport AC Losses in Superconducting Wire with Position-Dependent Critical Current Density in a DC Magnetic Field. <i>Journal of Low Temperature Physics</i> , 2013 , 172, 154-161	1.3	2
25	The effect of electric charge on the mechanical properties of graphene. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 1148-1156	3.6	4
24	Finite element analysis of current flowing patterns and AC loss in the multifilament strand. <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 495, 118-125	1.3	3
23	Prediction for Ic degradation of superconducting strand under bending. <i>Cryogenics</i> , 2013 , 58, 20-25	1.8	5
22	Surface roughness and size effects on the morphology of graphene on a substrate. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 54, 78-85	3	9
21	Nonlinear magnetoelectric transient responses of a circular-shaped magnetoelectric layered structure. <i>Smart Materials and Structures</i> , 2013 , 22, 015015	3.4	14
20	Transport current distribution on Nb3Sn strand for TARSIS. <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 489, 25-31	1.3	7
19	Thermoelectric Properties of Polycrystalline Thin Films Under an External Magnetic Field. <i>Journal of Electronic Materials</i> , 2012 , 41, 552-559	1.9	6
18	Nonlinear magneto-electric response of a giant magnetostrictive/piezoelectric composite cylinder. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012 , 28, 385-392	2	14
17	The effective properties of three-dimensional giant magnetostrictive composites. <i>Journal of Applied Physics</i> , 2011 , 110, 114121	2.5	6
16	Mechanics behavior of microtubules based on nonlocal anisotropic shell theory. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012181	0.4	4
15	Persistence Length of Microtubules Based on a Continuum Anisotropic Shell Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010 , 7, 1227-1237	0.3	12
14	Electromagneto-thermo-mechanical behaviors of conductive circular plate subject to time-dependent magnetic fields. <i>Acta Mechanica</i> , 2010 , 210, 99-116	2.1	8
13	Impact of grain size on the Seebeck coefficient of bulk polycrystalline thermoelectric materials. <i>Science Bulletin</i> , 2010 , 55, 16-21		38

12	A nonlocal elastic anisotropic shell model for microtubule buckling behaviors in cytoplasm. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2406-2415	3	27
11	Dynamic behaviors of conductive circular plate in time-varying magnetic fields. <i>Acta Mechanica Solida Sinica</i> , 2010 , 23, 66-76	2	3
10	Study on magnetoelastic-plastic deformation characteristics of ferromagnetic rectangular plate with simple supports. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009 , 25, 139-147	2	5
9	Mechanical properties of monolayer graphene under tensile and compressive loading. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1561-1566	3	145
8	Small scale effects on the mechanical behaviors of protein microtubules based on the nonlocal elasticity theory. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 467-71	3-4	7 ¹
7	NUMERICAL ANALYSIS ON MAGNETIC-ELASTO-PLASTIC BUCKLING AND BENDING OF FERROMAGNETIC RECTANGULAR PLATE. <i>International Journal of Modern Physics B</i> , 2008 , 22, 6212-6217 ^{1,1}		
6	Analysis on the magneto-elastic-plastic buckling/snapping of cantilever rectangular ferromagnetic plates. <i>Acta Mechanica Solida Sinica</i> , 2007 , 20, 180-188	2	1
5	A CONTINUUM MODAL FOR MECHANICS PROPERTIES OF PROTEIN MICROTUBULES(1A2 Micro & Nano Biomechanics II). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S14		
4	Magneto-Elastic-Plastic Dynamic Characteristic Analysis of Ferromagnetic Beam-Plate under the Pulse Magnetic Field. <i>Key Engineering Materials</i> , 2004 , 274-276, 1131-1136	0-4	2
3	Buckling and post-buckling analysis for magneto-elastic-plastic ferromagnetic beam-plates with unmovable simple supports. <i>International Journal of Solids and Structures</i> , 2003 , 40, 2875-2887	3-1	15
2	Buckling and post-buckling of a ferromagnetic beam-plate induced by magnetoelastic interactions. <i>International Journal of Non-Linear Mechanics</i> , 2000 , 35, 1059-1065	2.8	19
1	Topological design and magnetic tunability of a novel cross-like holes phononic crystal with low frequency. <i>Mechanics of Advanced Materials and Structures</i> , 1-10	1.8	1