

Quan-Liang Zhao

List of Publications by Year in descending order

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51
papers

2,357
citations

331670

21
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206112

48
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51
all docs

51
docs citations

51
times ranked

2313
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamics Modeling of a Piezoelectric Micro-Robotic Fish With Double Caudal Fins. <i>Journal of Mechanisms and Robotics</i> , 2022, 14, .	2.2	7
2	Finite-Time Observer-Based Variable Impedance Control of Cable-Driven Continuum Manipulators. <i>IEEE Transactions on Human-Machine Systems</i> , 2022, 52, 26-40.	3.5	5
3	An Adaptive Time-Varying Impedance Controller for Manipulators. <i>Frontiers in Neurorobotics</i> , 2022, 16, 789842.	2.8	1
4	Energy storage and thermodynamics of PZST thick films with coexisting antiferroelectric and ferroelectric phases. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 154-161.	2.1	5
5	A highly conductive self-assembled multilayer graphene nanosheet film for electronic tattoos in the applications of human electrophysiology and strain sensing. <i>Nanoscale</i> , 2021, 13, 10798-10806.	5.6	14
6	Thermodynamic Analysis of Stress-Mediated Barocaloric Effect, Electrocaloric Effect, and Energy Storage of PbZrO_3 Antiferroelectric Film. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000651.	1.8	2
7	Fast-moving piezoelectric micro-robotic fish with double caudal fins. <i>Robotics and Autonomous Systems</i> , 2021, 140, 103733.	5.1	42
8	Review on studies of the emptying process of compressed hydrogen tanks. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 22554-22573.	7.1	21
9	A highly directional metamaterial-based terahertz circulator that does not require an external magnetic field. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 105103.	2.8	6
10	Dynamics Analysis and Control of a Bird Scale Underactuated Flapping-Wing Vehicle. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 1233-1242.	5.2	11
11	Ultrafast-Response Humidity Sensor with High Humidity Durability Based on a Freestanding Film of Graphene Oxide Supramolecular. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900869.	1.8	12
12	Coordinated variable impedance control for multi-segment cable-driven continuum manipulators. <i>Mechanism and Machine Theory</i> , 2020, 153, 103969.	4.5	16
13	Variable Impedance Control of Cable Actuated Continuum Manipulators. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 1839-1852.	2.7	12
14	Dynamics and Switching Control of a Class of Underactuated Mechanical Systems with Variant Constraints. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4235.	2.5	2
15	Thermodynamic analysis of the emptying process of compressed hydrogen tanks. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3993-4005.	7.1	21
16	Atomic Layer Tailoring Titanium Carbide MXene To Tune Transport and Polarization for Utilization of Electromagnetic Energy beyond Solar and Chemical Energy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12535-12543.	8.0	187
17	Robust Trajectory Tracking of Delta Parallel Robot Using Sliding Mode Control. , 2019, , .		8
18	Highly efficient and giant negative electrocaloric effect of a Nb and Sn co-doped lead zirconate titanate antiferroelectric film near room temperature. <i>RSC Advances</i> , 2019, 9, 34114-34119.	3.6	7

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19	Bismuth ferrite-based lead-free ceramics and multilayers with high recoverable energy density. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4133-4144.	10.3	325
20	BiFeO_3 - BaTiO_3 : A new generation of lead-free electroceramics. <i>Journal of Advanced Dielectrics</i> , 2018, 08, 1830004.	2.4	166
21	High Energy Storage Density and Large Strain in $\text{Bi}(\text{Zn}_{2/3}\text{Nb}_{1/3})\text{O}_3$ -Doped BiFeO_3 - BaTiO_3 Ceramics. <i>ACS Applied Energy Materials</i> , 2018, 1, 4403-4412.	5.1	229
22	Assembling carbon fiber-graphene-carbon fiber hetero-structures into 1D-2D-1D junction fillers and patterned structures for improved microwave absorption. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 135303.	2.8	14
23	Manipulating microstructures and electrical properties of carbon fiber/reduced graphene oxide/nickel composite textiles with electrochemical deposition techniques. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	1
24	Construction of three-dimensional graphene interfaces into carbon fiber textiles for increasing deposition of nickel nanoparticles: flexible hierarchical magnetic textile composites for strong electromagnetic shielding. <i>Nanotechnology</i> , 2017, 28, 045710.	2.6	34
25	Broadening Electromagnetic Absorption Bandwidth: Design from Microscopic Dielectric-Magnetic Coupled Absorbers to Macroscopic Patterns. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700589.	1.8	16
26	Highly sensitive humidity sensor based on graphene oxide foam. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	28
27	Flexible Semitransparent Energy Harvester with High Pressure Sensitivity and Power Density Based on Laterally Aligned PZT Single-Crystal Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24696-24703.	8.0	48
28	Temperature dependent, large electromechanical strain in Nd-doped BiFeO_3 - BaTiO_3 lead-free ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1857-1860.	5.7	167
29	Composition and temperature dependence of structure and piezoelectricity in $(1-x)(\text{K}_y\text{Na}_y)\text{NbO}_3$ - $x(\text{Bi}_{1/2}\text{Na}_{1/2})\text{ZrO}_3$ lead-free ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 627-637.		
30	Effects of thickness on energy storage of (Pb, La)(Zr, Sn, Ti) O_3 antiferroelectric films deposited on LaNiO_3 electrodes. <i>Ceramics International</i> , 2016, 42, 1314-1317.	4.8	26
31	Effects of electrodes on ferroelectric properties of PNZT films prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 78, 258-261.	2.4	11
32	Drive-mode control for an underactuated MEMS vibratory rate gyroscope. <i>Microsystem Technologies</i> , 2016, 22, 1151-1161.	2.0	2
33	Research on the optimization method of top-drive variable-capacitance micromotors. <i>Microsystem Technologies</i> , 2015, 21, 2443-2453.	2.0	1
34	Sol-gel synthesis of Nd-doped BiFeO_3 multiferroic and its characterization. <i>Ceramics International</i> , 2015, 41, 8768-8772.	4.8	112
35	Tuning broadband microwave absorption via highly conductive Fe_3O_4 /graphene heterostructural nanofillers. <i>Materials Research Bulletin</i> , 2015, 72, 316-323.	5.2	55
36	Magnetic and conductive graphene papers toward thin layers of effective electromagnetic shielding. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2097-2107.	10.3	208

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37	Fabrication and characterization of a piezoelectric micromirror using for optical data tracking of high-density storage. <i>Microsystem Technologies</i> , 2014, 20, 1317-1322.	2.0	12
38	Thickness-dependent electrical properties of sol-gel derived Pb(Zr _{0.52} Ti _{0.48})O ₃ thick films using PbTiO ₃ buffer layers. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3521-3525.	2.2	9
39	Synthesis and electrical properties of Pb(Zr _{0.52} Ti _{0.48})O ₃ thick films embedded with ZnO nanoneedles prepared by the hybrid sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2521-2526.	2.2	1
40	Dielectric and piezoelectric properties of manganese-modified PbHfO ₃ -PbTiO ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ ternary ceramics with morphotropic phase boundary compositions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 221-223.	2.4	22
41	Dielectric, piezoelectric, and ferroelectric properties of Al ₂ O ₃ and MnO ₂ modified PbSnO ₃ -PbTiO ₃ -Pb(Mg _{1/3}) Materials Science, 2013, 210, 1363-1368.	1.8	11
42	Electrical Properties of Lead Zirconate Titanate Thick Film Containing Micro- and Nano-Crystalline Particles. <i>Chinese Physics Letters</i> , 2012, 29, 058101.	3.3	10
43	Effects of Nb ₂ O ₅ addition on the microstructure, electrical, and mechanical properties of PZT/ZnO nanowisker piezoelectric composites. <i>Journal of Materials Science</i> , 2012, 47, 2687-2694.	3.7	13
44	Effect of sintering temperature and time on densification, microstructure and properties of the PZT/ZnO nanowisker piezoelectric composites. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6980-6986.	5.5	19
45	Enhanced Piezoelectric and Ferroelectric Properties of Nb ₂ O ₅ Modified Lead Zirconate Titanate-Based Composites. <i>Journal of the American Ceramic Society</i> , 2011, 94, 647-650.	3.8	43
46	Piezoelectric, ferroelectric and mechanical properties of lead zirconate titanate/zinc oxide nanowisker ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1393-1399.	2.2	10
47	Fabrication, Microstructure and Properties of Zinc Oxide Nanowisker Reinforced Lead Zirconate Titanate Nanocomposites. <i>Current Nanoscience</i> , 2011, 7, 227-234.	1.2	14
48	Enhanced piezoelectric and mechanical properties of ZnO whiskers and Sb ₂ O ₃ co-modified lead zirconate titanate composites. <i>Materials Letters</i> , 2010, 64, 1798-1801.	2.6	31
49	Effect of ZnO whisker content on sinterability and fracture behaviour of PZT piezoelectric composites. <i>Journal of Alloys and Compounds</i> , 2010, 504, 123-128.	5.5	56
50	Mechanical reinforcement and piezoelectric properties of nanocomposites embedded with ZnO nanowiskers. <i>Scripta Materialia</i> , 2008, 59, 780-783.	5.2	54
51	Nonlinear resonant and high dielectric loss behavior of CdS-Fe ₂ O ₃ heterostructure nanocomposites. <i>Applied Physics Letters</i> , 2008, 93, 183118.	3.3	137