Chunli Zhang

List of Publications by Year
in descending order

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41 papers	1,753 citations	304602 22 h-index	276775 41 g-index
43 all docs	43 docs citations	43 times ranked	1006 citing authors

#	Article	IF	Citations
1	Rationally designed sea snake structure based triboelectric nanogenerators for effectively and efficiently harvesting ocean wave energy with minimized water screening effect. Nano Energy, 2018, 48, 421-429.	8.2	195
2	A Soft and Robust Spring Based Triboelectric Nanogenerator for Harvesting Arbitrary Directional Vibration Energy and Selfâ€Powered Vibration Sensing. Advanced Energy Materials, 2018, 8, 1702432.	10.2	186
3	Flexoelectronics of centrosymmetric semiconductors. Nature Nanotechnology, 2020, 15, 661-667.	15.6	175
4	An analysis of the extension of a ZnO piezoelectric semiconductor nanofiber under an axial force. Smart Materials and Structures, 2017, 26, 025030.	1.8	139
5	An analysis of PN junctions in piezoelectric semiconductors. Journal of Applied Physics, 2017, 122, .	1.1	82
6	Piezotronic effects in the extension of a composite fiber of piezoelectric dielectrics and nonpiezoelectric semiconductors. Journal of Applied Physics, 2018, 124, .	1.1	79
7	On propagation of anti-plane shear waves in piezoelectric plates with surface effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3281-3286.	0.9	66
8	Two-dimensional theory of piezoelectric plates considering surface effect. European Journal of Mechanics, A/Solids, 2013, 41, 50-57.	2.1	66
9	Piezopotential in a bended composite fiber made of a semiconductive core and of two piezoelectric layers with opposite polarities. Nano Energy, 2018, 54, 341-348.	8.2	61
10	Electrical behaviors of a piezoelectric semiconductor fiber under a local temperature change. Nano Energy, 2019, 66, 104081.	8.2	51
11	Mechanical Manipulation of Silicon-based Schottky Diodes via Flexoelectricity. Nano Energy, 2021, 83, 105855.	8.2	41
12	Two-dimensional analysis of magnetoelectric effects in multiferroic laminated plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1046-1053.	1.7	40
13	Enhancing magnetoelectric effect in multiferroic composite bilayers via flexoelectricity. Journal of Applied Physics, 2016, 119, .	1.1	40
14	Thermally Induced Carrier Distribution in a Piezoelectric Semiconductor Fiber. Journal of Electronic Materials, 2019, 48, 4939-4946.	1.0	38
15	Electromechanical Fields Near a Circular PN Junction Between Two Piezoelectric Semiconductors. Acta Mechanica Solida Sinica, 2018, 31, 127-140.	1.0	34
16	Two-dimensional theory of piezoelectric shells considering surface effect. European Journal of Mechanics, A/Solids, 2014, 43, 109-117.	2.1	32
17	Carrier distribution and electromechanical fields in a free piezoelectric semiconductor rod. Journal of Zhejiang University: Science A, 2016, 17, 37-44.	1.3	31
18	Piezotronic Effect of a Thin Film With Elastic and Piezoelectric Semiconductor Layers Under a Static Flexural Loading. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	1.1	29

#	Article	IF	Citations
19	Temperature Effects on PN Junctions in Piezoelectric Semiconductor Fibers with Thermoelastic and Pyroelectric Couplings. Journal of Electronic Materials, 2020, 49, 3140-3148.	1.0	29
20	Surface effects on anti-plane shear waves propagating in magneto-electro-elastic nanoplates. Smart Materials and Structures, 2015, 24, 095017.	1.8	28
21	Bending of a Cantilever Piezoelectric Semiconductor Fiber Under an End Force. Advanced Structured Materials, 2018, , 261-278.	0.3	27
22	Effect of flexoelectricity on piezotronic responses of a piezoelectric semiconductor bilayer. Journal of Applied Physics, 2021, 129, .	1.1	27
23	Magnetically Controllable Piezotronic Responses in a Composite Semiconductor Fiber with Multiferroic Coupling Effects. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900621.	0.8	21
24	Electrical Response of a Multiferroic Composite Semiconductor Fiber Under a Local Magnetic Field. Acta Mechanica Solida Sinica, 2020, 33, 663-673.	1.0	21
25	Theoretical modeling of frequency-dependent magnetoelectric effects in laminated multiferroic plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2750-2759.	1.7	20
26	Static buckling of piezoelectric semiconductor fibers. Materials Research Express, 2019, 6, 125919.	0.8	20
27	Temperature Effects on Mobile Charges in Extension of Composite Fibers of Piezoelectric Dielectrics and Non-Piezoelectric Semiconductors. International Journal of Applied Mechanics, 2019, 11, 1950088.	1.3	19
28	Effects of Magnetic Fields on PN Junctions in Piezomagneticâ€“Piezoelectric Semiconductor Composite Fibers. International Journal of Applied Mechanics, 2020, 12, 2050085.	1.3	19
29	Static bending and vibration analysis of piezoelectric semiconductor beams considering surface effects. Journal of Vibration Engineering and Technologies, 2021, 9, 1789-1800.	1.3	18
30	Analysis of a composite piezoelectric semiconductor cylindrical shell under the thermal loading. Mechanics of Materials, 2022, 164, 104153.	1.7	16
31	Eddy-current effect on resonant magnetoelectric coupling in magnetostrictive-piezoelectric laminated composites. Journal of Applied Physics, 2013, 114, .	1.1	15
32	Modeling of Piezoelectric Bimorph Nano-Actuators With Surface Effects. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	15
33	Thickness-shear vibration of AT-cut quartz plates carrying finite-size particles with rotational degree of freedom and rotatory inertia [Correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 666-670.	1.7	14
34	Interaction between torsional deformation and mobile charges in a composite rod of piezoelectric dielectrics and nonpiezoelectric semiconductors. Mechanics of Advanced Materials and Structures, 2022, 29, 1449-1455.	1.5	14
35	Dynamic manipulation of piezotronic behaviors of composite multiferroic semiconductors through time-dependent magnetic field. Journal of Applied Physics, 2020, 128, .	1.1	14
36	Analysis of a hollow piezoelectric semiconductor composite cylinder under a thermal loading. Mechanics of Advanced Materials and Structures, 2023, 30, 2037-2046.	1.5	9

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37	Thermally Induced Electromechanical Fields in Unimorphs of Piezoelectric Dielectrics and Nonpiezoelectric Semiconductors. Integrated Ferroelectrics, 2020, 211, 117-131.	0.3	5
38	Real-time monitoring for road-base quality with the aid of buried piezoelectric sensors. Journal of Intelligent Material Systems and Structures, 2021, 32, 2231-2243.	1.4	5
39	Equations for high-frequency vibrations of piezoelectric plates derived from a semi-mixed variational principle and applications in resonators. International Journal of Applied Electromagnetics and Mechanics, 2013, 41, 361-373.	0.3	3
40	An analysis of electric double layers near comb electrodes using the linearized Poisson-Nernst-Planck theory. Journal of Applied Physics, 2017, 121, 044502.	1.1	1
41	Two-dimensional equations for thin-films of ionic conductors. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1071-1088.	1.9	1