# Chunli Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5596491/publications.pdf

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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 | 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 |
| 2 | 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 |
| 3 | Analysis of a composite piezoelectric semiconductor cylindrical shell under the thermal loading. Mechanics of Materials, 2022, 164, 104153. | 1.7 | 16 |
| 4 | 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 |
| 5 | 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 |
| 6 | Mechanical Manipulation of Silicon-based Schottky Diodes via Flexoelectricity. Nano Energy, 2021, 83, 105855. | 8.2 | 41 |
| 7 | Effect of flexoelectricity on piezotronic responses of a piezoelectric semiconductor bilayer. Journal of Applied Physics, 2021, 129, . | 1.1 | 27 |
| 8 | 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 |
| 9 | Thermally Induced Electromechanical Fields in Unimorphs of Piezoelectric Dielectrics and Nonpiezoelectric Semiconductors. Integrated Ferroelectrics, 2020, 211, 117-131. | 0.3 | 5 |
| 10 | Dynamic manipulation of piezotronic behaviors of composite multiferroic semiconductors through time-dependent magnetic field. Journal of Applied Physics, 2020, 128, . | 1.1 | 14 |
| 11 | Effects of Magnetic Fields on PN Junctions in Piezomagneticâ€“Piezoelectric Semiconductor Composite Fibers. International Journal of Applied Mechanics, 2020, 12, 2050085. | 1.3 | 19 |
| 12 | Electrical Response of a Multiferroic Composite Semiconductor Fiber Under a Local Magnetic Field. Acta Mechanica Solida Sinica, 2020, 33, 663-673. | 1.0 | 21 |
| 13 | Flexoelectronics of centrosymmetric semiconductors. Nature Nanotechnology, 2020, 15, 661-667. | 15.6 | 175 |
| 14 | 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 |
| 15 | Electrical behaviors of a piezoelectric semiconductor fiber under a local temperature change. Nano Energy, 2019, 66, 104081. | 8.2 | 51 |
| 16 | Thermally Induced Carrier Distribution in a Piezoelectric Semiconductor Fiber. Journal of Electronic Materials, 2019, 48, 4939-4946. | 1.0 | 38 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Static buckling of piezoelectric semiconductor fibers. Materials Research Express, 2019, 6, 125919. | 0.8 | 20 |
| 20 | 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 |
| 21 | Electromechanical Fields Near a Circular PN Junction Between Two Piezoelectric Semiconductors. Acta Mechanica Solida Sinica, 2018, 31, 127-140. | 1.0 | 34 |
| 22 | Two-dimensional equations for thin-films of ionic conductors. Applied Mathematics and Mechanics (English Edition), 2018, 39, 1071-1088. | 1.9 | 1 |
| 23 | 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 |
| 24 | 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 |
| 25 | Bending of a Cantilever Piezoelectric Semiconductor Fiber Under an End Force. Advanced Structured Materials, 2018, , 261-278. | 0.3 | 27 |
| 26 | Piezotronic effects in the extension of a composite fiber of piezoelectric dielectrics and nonpiezoelectric semiconductors. Journal of Applied Physics, 2018, 124, . | 1.1 | 79 |
| 27 | 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 |
| 28 | 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 |
| 29 | An analysis of PN junctions in piezoelectric semiconductors. Journal of Applied Physics, 2017, 122, . | 1.1 | 82 |
| 30 | Enhancing magnetoelectric effect in multiferroic composite bilayers via flexoelectricity. Journal of Applied Physics, 2016, 119, . | 1.1 | 40 |
| 31 | Carrier distribution and electromechanical fields in a free piezoelectric semiconductor rod. Journal of Zhejiang University: Science A, 2016, 17, 37-44. | 1.3 | 31 |
| 32 | Surface effects on anti-plane shear waves propagating in magneto-electro-elastic nanoplates. Smart Materials and Structures, 2015, 24, 095017. | 1.8 | 28 |
| 33 | Two-dimensional theory of piezoelectric shells considering surface effect. European Journal of Mechanics, A/Solids, 2014, 43, 109-117. | 2.1 | 32 |
| 34 | Eddy-current effect on resonant magnetoelectric coupling in magnetostrictive-piezoelectric laminated composites. Journal of Applied Physics, 2013, 114, . | 1.1 | 15 |
| 35 | Two-dimensional theory of piezoelectric plates considering surface effect. European Journal of Mechanics, A/Solids, 2013, 41, 50-57. | 2.1 | 66 |
| 36 | Modeling of Piezoelectric Bimorph Nano-Actuators With Surface Effects. Journal of Applied Mechanics, Transactions ASME, 2013, 80, . | 1.1 | 15 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |