

Flexoelectronics of centrosymmetric semiconductors

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Enhanced Spin-Orbit Coupled Photoluminescence of Perovskite CsPbBr ₃ Quantum Dots by Piezo-Phototronic Effect. Nano Letters, 2020, 20, 8298-8304.	4.5	19
2	Flexoelectricity in thin films and membranes of complex oxides. APL Materials, 2020, 8, .	2.2	14
3	The impact of flexoelectricity on materials, devices, and physics. Journal of Applied Physics, 2020, 128, .	1.1	50
4	Nanogenerators facilitated piezoelectric and flexoelectric characterizations for bioinspired energy harvesting materials. Nano Energy, 2021, 81, 105607.	8.2	18
5	Inverse Flexoelectret Effect: Bending Dielectrics by a Uniform Electric Field. Physical Review Applied, 2021, 15, .	1.5	13
6	Improved anisotropy and piezoelectricity by applying in-plane deformation in monolayer WS ₂ . Journal of Materials Chemistry C, 2021, 9, 1396-1400.	2.7	8
7	Torsion of a flexoelectric semiconductor rod with a rectangular cross section. Archive of Applied Mechanics, 2021, 91, 2027-2038.	1.2	28
8	High-Performance Phototransistors Based on MnPSe ₃ and Its Hybrid Structures with Au Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 2836-2844.	4.0	24
9	Statistical Piezotronic Effect in Nanocrystal Bulk by Anisotropic Geometry Control. Advanced Functional Materials, 2021, 31, 2010339.	7.8	4
10	Magnetically induced charge redistribution in the bending of a composite beam with flexoelectric semiconductor and piezomagnetic dielectric layers. Journal of Applied Physics, 2021, 129, .	1.1	32
11	Large Magnetic Moment in Flexoelectronic Silicon at Room Temperature. Nano Letters, 2021, 21, 2939-2945.	4.5	8
12	A non-classical theory of elastic dielectrics incorporating couple stress and quadrupole effects: part I – reconsideration of curvature-based flexoelectricity theory. Mathematics and Mechanics of Solids, 2021, 26, 1647-1659.	1.5	30
13	Advances in piezotronic transistors and piezotronics. Nano Today, 2021, 37, 101108.	6.2	48
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16	Buckling of flexoelectric semiconductor beams. Acta Mechanica, 2021, 232, 2623-2633.	1.1	15
17	Domain patterns and super-elasticity of freestanding BiFeO ₃ membranes via phase-field simulations. Acta Materialia, 2021, 208, 116689.	3.8	18
18	Mechanical Manipulation of Silicon-based Schottky Diodes via Flexoelectricity. Nano Energy, 2021, 83, 105855.	8.2	41

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19	Local structural heterogeneity induced large flexoelectricity in Sm-doped PMN ϵ -PT ceramics. Journal of Applied Physics, 2021, 129, .	1.1	11
20	Controllable, Self-Powered, and High-Performance Short-Wavelength Infrared Photodetector Driven by Coupled Flexoelectricity and Strain Effect. Small Methods, 2021, 5, e2100342.	4.6	16
21	Controllable Photoelectric Properties in Double-Wall MoS ₂ Nanotubes by the Flexoelectric Effect. Journal of Physical Chemistry C, 2021, 125, 11318-11324.	1.5	7
22	Semiconductor-based dynamic heterojunctions as an emerging strategy for high direct-current mechanical energy harvesting. Nano Energy, 2021, 83, 105849.	8.2	56
23	Piezophototronic Effect in Nanosensors. Small Science, 2021, 1, 2000060.	5.8	28
24	Effect of flexoelectricity on piezotronic responses of a piezoelectric semiconductor bilayer. Journal of Applied Physics, 2021, 129, .	1.1	27
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56	Non-homogeneous cross section variation enhanced flexoelectric coupling in semiconductor beams and its application in charge carrier redistribution. <i>Journal of Applied Physics</i> , 2022, 131, 065701.	1.1	1
57	A non-classical theory of elastic dielectrics incorporating couple stress and quadrupole effects: part II - variational formulations and applications in plates. <i>Mathematics and Mechanics of Solids</i> , 2022, 27, 2567-2587.	1.5	8
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