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## Piezoelectricity and valley chern number in inhomogeneous hexagonal 2D crystals

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#	Paper	IF	Citations
40	Third-Order Optical Nonlinearity in Two-Dimensional Transition Metal Dichalcogenides. <i>Communications in Theoretical Physics</i> , <b>2018</b> , 70, 344	2.4	6
39	Comment on Piezoelectricity in planar boron nitride via a geometric phase <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	0
38	Tight-binding piezoelectric theory and electromechanical coupling correlations for transition metal dichalcogenide monolayers. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	8
37	Strain-induced gauge and Rashba fields in ferroelectric Rashba lead chalcogenide PbX monolayers (X=S, Se, Te). <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	13
36	Theory of the strain-induced magnetoelectric effect in planar Dirac systems. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	2
35	Giant effective charges and piezoelectricity in gapped graphene. <i>2D Materials</i> , <b>2019</b> , 6, 045015	5.9	16
34	Strain fields in graphene induced by nanopillar mesh. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 082534	2.5	4
33	Mechanical properties of two-dimensional materials and their applications. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 083001	3	53
32	Piezoelectricity in Monolayer Hexagonal Boron Nitride. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905504	24	46
31	Piezoelectricity and topological quantum phase transitions in two-dimensional spin-orbit coupled crystals with time-reversal symmetry. <i>Nature Communications</i> , <b>2020</b> , 11, 2290	17.4	9
30	Facile and quantitative estimation of strain in nanobubbles with arbitrary symmetry in 2D semiconductors verified using hyperspectral nano-optical imaging. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 024702	3.9	11
29	Transport in two-dimensional topological materials: recent developments in experiment and theory. <i>2D Materials</i> , <b>2020</b> , 7, 022007	5.9	43
28	Visualizing Piezoelectricity on 2D Crystals Nanobubbles. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005053	3.6	7
27	Tunable Optical Properties of 2D Materials and Their Applications. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001313	8.1	24
26	Piezoelectric networks and ferroelectric domains in twistrionic superlattices in WS <sub>2</sub> /MoS <sub>2</sub> and WSe <sub>2</sub> /MoSe <sub>2</sub> bilayers. <i>2D Materials</i> , <b>2021</b> , 8, 025030	5.9	13
25	Flat bands, strains, and charge distribution in twisted bilayer hBN. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	8
24	Recent advances in graphene and other 2D materials. <i>Nano Materials Science</i> , <b>2021</b> ,	10.2	8

23	Strain-tuning of the electronic, optical, and vibrational properties of two-dimensional crystals. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 021318	17.3	15
22	Evidence of flexoelectricity in graphene nanobubbles created by tip induced electric field. <i>Carbon</i> , <b>2021</b> , 179, 677-682	10.4	1
21	Experimental Adhesion Energy in van der Waals Crystals and Heterostructures from Atomically Thin Bubbles. <i>Physical Review Letters</i> , <b>2021</b> , 127, 046101	7.4	6
20	Nonlinear exciton drift in piezoelectric two-dimensional materials. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
19	Flexible Piezoelectricity of Two-Dimensional Materials Governed by Effective Berry Curvature. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 8220-8228	6.4	0
18	Phonon Helicity Induced by Electronic Berry Curvature in Dirac Materials. <i>Physical Review Letters</i> , <b>2021</b> , 127, 125901	7.4	0
17	Multifaceted moiré superlattice physics in twisted WSe <sub>2</sub> bilayers. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
16	Coexistence of intrinsic piezoelectricity and nontrivial band topology in monolayer InXO (X = Se and Te). <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5460-5468	7.1	8
15	Charge-polarized interfacial superlattices in marginally twisted hexagonal boron nitride. <i>Nature Communications</i> , <b>2021</b> , 12, 347	17.4	33
14	Forward and inverse design of kirigami via supervised autoencoder. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	14
13	Pseudo-gauge fields in Dirac and Weyl materials. <i>Semiconductors and Semimetals</i> , <b>2021</b> , 108, 195-224	0.6	0
12	Defects-assisted piezoelectric response in liquid exfoliated MoS <sub>2</sub> nanosheets. <i>Nanotechnology</i> , <b>2021</b> , 33,	3.4	0
11	Dynamical piezomagnetic effect in time-reversal-invariant Weyl semimetals with axionic charge density waves. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
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9	Tailoring the optical properties of 2D transition metal dichalcogenides by strain. <i>Optical Materials</i> , <b>2022</b> , 125, 112087	3.3	0
8	Mechanical, Elastic, and Adhesive Properties of Two-Dimensional Materials: From Straining Techniques to State-of-the-Art Local Probe Measurements. <i>Advanced Materials Interfaces</i> , 2102220	4.6	3
7	First principles calculations of charge shift photocurrent in vdWs slide double layered 2D h-BN and EGeS homostructures. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 169, 110887	3.9	
6	Piezo-Catalytic Techniques in Environmental Remediation.		0

- 5 Piezo-Catalytic Techniques in Environmental Remediation. ○
- 4 Bond-Orbital-Resolved Piezoelectricity in Sp<sup>2</sup>-Hybridized Monolayer Semiconductors. **2022**, 15, 7788 ○
- 3 Curvature as an external field in mechanical antiferromagnets. **2022**, 6, ○
- 2 Efficient discovery of room temperature magnetic transition metal monolayers assisted by artificial neural network. **2023**, 224, 112166 ○
- 1 Valley piezoelectricity promoted by spin-orbit coupling in quantum materials. **2023**, 66, ○