

Changxi Zheng

List of Publications by Year in descending order

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52
papers

2,328
citations

279798

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docs citations

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times ranked

5041
citing authors

#	ARTICLE	IF	CITATIONS
1	Multidimensional analysis of excitonic spectra of monolayers of tungsten disulphide: toward computer-aided identification of structural and environmental perturbations of 2D materials. Machine Learning: Science and Technology, 2021, 2, 025021.	5.0	7
2	Two-dimensional ferroelasticity in van der Waals In_2Se_3 . Nature Communications, 2021, 12, 3665.	12.8	53
3	Disentangling the effects of doping, strain and disorder in monolayer WS_2 by optical spectroscopy. 2D Materials, 2020, 7, 025008.	4.4	28
4	Direct Imaging of Liquidâ€Nanoparticle Interfaces with Atom Probe Tomography. Journal of Physical Chemistry C, 2020, 124, 19389-19395.	3.1	13
5	Three-Dimensional Chemical Mapping of a Single Protein in the Hydrated State with Atom Probe Tomography. Analytical Chemistry, 2020, 92, 5168-5177.	6.5	15
6	Electronic Band Structure of In-Plane Ferroelectric van der Waals In_2Se_3 . ACS Applied Electronic Materials, 2020, 2, 213-219.	4.3	26
7	Mass spectrometry inside single proteins by atom probe tomography. Microscopy and Microanalysis, 2019, 25, 334-335.	0.4	0
8	Capillary-bridge mediated assembly of aligned perovskite quantum dots for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5954-5961.	5.5	41
9	Vertical Geâ€Si Nanowires with Suspended Graphene Top Contacts as Dynamically Tunable Multispectral Photodetectors. ACS Photonics, 2019, 6, 735-742.	6.6	15
10	Strong Depletion in Hybrid Perovskite p-n Junctions Induced by Local Electronic Doping. Advanced Materials, 2018, 30, e1705792.	21.0	141
11	Reliable Synthesis of Largeâ€Area Monolayer WS_2 Single Crystals, Films, and Heterostructures with Extraordinary Photoluminescence Induced by Water Intercalation. Advanced Optical Materials, 2018, 6, 1701347.	7.3	28
12	SIMULATION OF MIRROR ELECTRON MICROSCOPY CAUSTIC IMAGES IN THREE-DIMENSIONS. Surface Review and Letters, 2018, 25, 1950013.	1.1	0
13	Grapheneâ€Enhanced 3D Chemical Mapping of Biological Specimens at Nearâ€Atomic Resolution. Advanced Functional Materials, 2018, 28, 1801439.	14.9	14
14	Room temperature in-plane ferroelectricity in van der Waals In_2Se_3 . Science Advances, 2018, 4, eaar7720.	10.3	224
15	Controlled graphene encapsulation: a nanoscale shield for characterising single bacterial cells in liquid. Nanotechnology, 2018, 29, 365705.	2.6	8
16	Direct Observation of 2D Electrostatics and Ohmic Contacts in Template-Grown Graphene/ WS_2 Heterostructures. ACS Nano, 2017, 11, 2785-2793.	14.6	74
17	Roomâ€Temperature Singleâ€Photon Emission from Oxidized Tungsten Disulfide Multilayers. Advanced Optical Materials, 2017, 5, 1600939.	7.3	27
18	Synthesis of Ultrathin Composition Graded Doped Lateral WSe_2/WS_2 Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 34204-34212.	8.0	22

#	ARTICLE	IF	CITATIONS
19	Quantification of evaporation induced error in atom probe tomography using molecular dynamics simulation. <i>Ultramicroscopy</i> , 2017, 182, 28-35.	1.9	5
20	Nanoindentation on Graphene Encapsulated Single Cells. <i>Microscopy and Microanalysis</i> , 2017, 23, 744-745.	0.4	0
21	Facilitating Quantitative Analysis of Atomic Scale 4D STEM Datasets. <i>Microscopy and Microanalysis</i> , 2016, 22, 474-475.	0.4	1
22	Reversible Structural Swellâ€“Shrink and Recoverable Optical Properties in Hybrid Inorganicâ€“Organic Perovskite. <i>ACS Nano</i> , 2016, 10, 7031-7038.	14.6	68
23	Practical aspects of diffractive imaging using an atomic-scale coherent electron probe. <i>Ultramicroscopy</i> , 2016, 169, 107-121.	1.9	27
24	Atomically thin lateral pâ€“n junction photodetector with large effective detection area. <i>2D Materials</i> , 2016, 3, 041001.	4.4	78
25	Novel GaAs surface phases via direct control of chemical potential. <i>Physical Review B</i> , 2016, 93, .	3.2	5
26	Structure retrieval with fast electrons using segmented detectors. <i>Physical Review B</i> , 2016, 93, .	3.2	24
27	Strain Relaxation of Monolayer WS ₂ on Plastic Substrate. <i>Advanced Functional Materials</i> , 2016, 26, 8707-8714.	14.9	97
28	Planar regions of GaAs (001) prepared by Ga droplet motion. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	2.1	9
29	Two-Dimensional CH ₃ NH ₃ PbI ₃ Perovskite: Synthesis and Optoelectronic Application. <i>ACS Nano</i> , 2016, 10, 3536-3542.	14.6	359
30	Nonlinear optical frequency mixing response of single and multilayer graphene. <i>Optics Letters</i> , 2016, 41, 1122.	3.3	9
31	Acoustically-Driven Trion and Exciton Modulation in Piezoelectric Two-Dimensional MoS ₂ . <i>Nano Letters</i> , 2016, 16, 849-855.	9.1	91
32	Helicity-Resolved Raman Scattering of MoS ₂ , MoSe ₂ , WS ₂ , and WSe ₂ Atomic Layers. <i>Nano Letters</i> , 2015, 15, 2526-2532.	9.1	241
33	Profound Effect of Substrate Hydroxylation and Hydration on Electronic and Optical Properties of Monolayer MoS ₂ . <i>Nano Letters</i> , 2015, 15, 3096-3102.	9.1	45
34	Synthesis and Transfer of Large-Area Monolayer WS ₂ Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. <i>ACS Nano</i> , 2015, 9, 6178-6187.	14.6	200
35	Thickness and growth-condition dependence of in-situ mobility and carrier density of epitaxial thin-film Bi ₂ Se ₃ . <i>Applied Physics Letters</i> , 2014, 105, 173506.	3.3	18
36	Large-scale process optimization for focused ion beam 3-D nanofabrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 64, 587-600.	3.0	7

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37	Quantification of ZnO Nanoparticle Uptake, Distribution, and Dissolution within Individual Human Macrophages. ACS Nano, 2013, 7, 10621-10635.	14.6	116
38	Annealing effect of thermal spike in MgO thin film prepared by cathodic vacuum arc deposition. Materials Chemistry and Physics, 2013, 143, 209-212.	4.0	6
39	Origin of Quantum Ring Formation During Droplet Epitaxy. Physical Review Letters, 2013, 111, 036102.	7.8	37
40	In situ monitoring of resistivity and carrier concentration during molecular beam epitaxy of topological insulator Bi ₂ Se ₃ . Proceedings of SPIE, 2013, , .	0.8	2
41	Asymmetric coalescence of reactively wetting droplets. Applied Physics Letters, 2012, 100, .	3.3	15
42	Relief of surface stress at steps during displacive adsorption of As on Si(111). Applied Physics Letters, 2012, 100, 201602.	3.3	0
43	Electron caustic lithography. AIP Advances, 2012, 2, .	1.3	1
44	Ga droplet surface dynamics during Langmuir evaporation of GaAs. IBM Journal of Research and Development, 2011, 55, 10:1-10:7.	3.1	13
45	Caustic imaging of gallium droplets using mirror electron microscopy. Ultramicroscopy, 2011, 111, 356-363.	1.9	32
46	Addendum. Laplacian image contrast in mirror electron microscopy. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 3332-3341.	2.1	11
47	Influences of arc current on composition and properties of MgO thin films prepared by cathodic vacuum arc deposition. Materials Chemistry and Physics, 2010, 124, 1146-1150.	4.0	2
48	Laplacian image contrast in mirror electron microscopy. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 2857-2874.	2.1	26
49	Congruent evaporation temperature of GaAs(001) controlled by As flux. Applied Physics Letters, 2010, 97, .	3.3	24
50	Corrections to "Influence of O ₂ Flow Rate on Structure and Properties of MgO _x Films Prepared by Cathodic-Vacuum-Arc Ion Deposition System". IEEE Transactions on Plasma Science, 2007, 35, 518-518.	1.3	0
51	Influence of O ₂ Flow Rate on Structure and Properties of MgO _x Films Prepared by Cathodic-Vacuum-Arc Ion Deposition System. IEEE Transactions on Plasma Science, 2006, 34, 1099-1104.	1.3	8
52	Influence of bias voltage on morphology and structure of MgO thin films prepared by cathodic vacuum arc deposition. Surface and Coatings Technology, 2006, 201, 2387-2391.	4.8	10