

# Zi Chen

## List of Publications by Citations

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95  
papers

3,614  
citations

27  
h-index

59  
g-index

103  
ext. papers

4,386  
ext. citations

7.5  
avg, IF

5.54  
L-index

#	Paper	IF	Citations
95	Modeling Physiological Events in 2D vs. 3D Cell Culture. <i>Physiology</i> , <b>2017</b> , 32, 266-277	9.8	617
94	Dynamic visualization of thrombopoiesis within bone marrow. <i>Science</i> , <b>2007</b> , 317, 1767-70	33.3	478
93	Neonatal Fc receptor for IgG (FcRn) regulates cross-presentation of IgG immune complexes by CD8-CD11b+ dendritic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9927-32	11.5	155
92	Theoretical analysis of the evolution from ignition kernel to flame ball and planar flame. <i>Combustion Theory and Modelling</i> , <b>2007</b> , 11, 427-453	1.5	154
91	Comprehensive circular RNA profiling reveals the regulatory role of the circRNA-100338/miR-141-3p pathway in hepatitis B-related hepatocellular carcinoma. <i>Scientific Reports</i> , <b>2017</b> , 7, 5428	4.9	151
90	Design of Nanoparticle-Based Carriers for Targeted Drug Delivery. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016,	3.2	138
89	Effects of compression and stretch on the determination of laminar flame speeds using propagating spherical flames. <i>Combustion Theory and Modelling</i> , <b>2009</b> , 13, 343-364	1.5	125
88	Dimeric Drug Polymeric Micelles with Acid-Active Tumor Targeting and FRET-Traceable Drug Release. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705436	24	99
87	Recombinant virus vaccine-induced SIV-specific CD8+ cytotoxic T lymphocytes. <i>Science</i> , <b>1991</b> , 252, 440-333.3	33.3	92
86	Nonlinear geometric effects in mechanical bistable morphing structures. <i>Physical Review Letters</i> , <b>2012</b> , 109, 114302	7.4	89
85	Multifunctional nanoplatforms for subcellular delivery of drugs in cancer therapy. <i>Progress in Materials Science</i> , <b>2020</b> , 107, 100599	42.2	88
84	Mechanical Self-Assembly of a Strain-Engineered Flexible Layer: Wrinkling, Rolling, and Twisting. <i>Physical Review Applied</i> , <b>2016</b> , 5,	4.3	85
83	Tunable helical ribbons. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 011906	3.4	81
82	Fast nastic motion of plants and bioinspired structures. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 0598	4.1	68
81	Computational models for mechanics of morphogenesis. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , <b>2012</b> , 96, 132-52		63
80	Differential p53-independent outcomes of p19(Arf) loss in oncogenesis. <i>Science Signaling</i> , <b>2009</b> , 2, ra44	8.8	56
79	Flexible Piezoelectric Nanogenerators Using Metal-doped ZnO-PVDF Films. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 305, 111912-111912	3.9	50

78	A NaCl-regulated plant gene encoding a brain protein homology that activates ADP ribosyltransferase and inhibits protein kinase C. <i>Plant Journal</i> , <b>1994</b> , 6, 729-40	6.9	48
77	Carbon nanotube-composite hydrogels promote intercalated disc assembly in engineered cardiac tissues through $\beta$ -integrin mediated FAK and RhoA pathway. <i>Acta Biomaterialia</i> , <b>2017</b> , 48, 88-99	10.8	45
76	Deterministic Self-Rolling of Ultrathin Nanocrystalline Diamond Nanomembranes for 3D Tubular/Helical Architecture. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604572	24	44
75	Identification of Wee1 as a novel therapeutic target for mutant RAS-driven acute leukemia and other malignancies. <i>Leukemia</i> , <b>2015</b> , 29, 27-37	10.7	43
74	Shape selection and multi-stability in helical ribbons. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 211901	3.4	41
73	Akt phosphorylates the transcriptional repressor bmi1 to block its effects on the tumor-suppressing ink4a-arf locus. <i>Science Signaling</i> , <b>2012</b> , 5, ra77	8.8	40
72	Cardiac energy harvesting and sensing based on piezoelectric and triboelectric designs. <i>Nano Energy</i> , <b>2020</b> , 76, 105076	17.1	36
71	Photodynamic therapy with motexafin lutetium induces redox-sensitive apoptosis of vascular cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2001</b> , 21, 759-64	9.4	33
70	Stretchable Kirigami Polyvinylidene Difluoride Thin Films for Energy Harvesting: Design, Analysis, and Performance. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	30
69	Helical Structures Mimicking Chiral Seedpod Opening and Tendril Coiling. <i>Sensors</i> , <b>2018</b> , 18,	3.8	29
68	In vivo cardiac power generation enabled by an integrated helical piezoelectric pacemaker lead. <i>Nano Energy</i> , <b>2019</b> , 66, 104085	17.1	27
67	Nanocrystallization and magnetic properties of Fe-30 weight percent Ni alloy by surface mechanical attrition treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2006</b> , 37, 1413-1421	2.3	27
66	Vibration-Energy-Harvesting System: Transduction Mechanisms, Frequency Tuning Techniques, and Biomechanical Applications. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900177	6.8	22
65	Spontaneous bending of piezoelectric nanoribbons: Mechanics, polarization, and space charge coupling. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2010</b> , 58, 73-85	5	22
64	Attenuated short wavelength buckling and force propagation in a biopolymer-reinforced rod. <i>Soft Matter</i> , <b>2013</b> , 9, 194-199	3.6	20
63	Flexible Porous Piezoelectric Cantilever on a Pacemaker Lead for Compact Energy Harvesting. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800148	6.8	20
62	Static and dynamic mechanical behaviors of gradient-nanotwinned stainless steel with a composite structure: Experiments and modeling. <i>International Journal of Plasticity</i> , <b>2019</b> , 114, 272-288	7.6	20
61	Flexible Energy Harvester on a Pacemaker Lead Using Multibeam Piezoelectric Composite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 34170-34179	9.5	19

60	Biomechanics of Collective Cell Migration in Cancer Progression: Experimental and Computational Methods. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 3766-3787	5.5	18
59	Shape formation of helical ribbons induced by material anisotropy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 091901	3.4	17
58	Creation of Faceted Polyhedral Microgels from Compressed Emulsions. <i>Small</i> , <b>2017</b> , 13, 1701256	11	17
57	Martensite and its reverse transformation in nanocrystalline bulk Co. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 438-440, 420-426	5.3	17
56	Piezoelectric Buckled Beam Array on a Pacemaker Lead for Energy Harvesting. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800335	6.8	17
55	Magneto-sensitive bistable soft actuators: Experiments, simulations, and applications. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 221902	3.4	17
54	Shape transition and multi-stability of helical ribbons: a finite element method study. <i>Archive of Applied Mechanics</i> , <b>2015</b> , 85, 331-338	2.2	16
53	Modeling bistable behaviors in morphing structures through finite element simulations. <i>Bio-Medical Materials and Engineering</i> , <b>2014</b> , 24, 557-62	1	16
52	Geometric nonlinearity and mechanical anisotropy in strained helical nanoribbons. <i>Nanoscale</i> , <b>2014</b> , 6, 9443-7	7.7	16
51	Metal-semiconductor Zn/ZnO core-shell nanocables: facile and large-scale fabrication, growth mechanism, oxidation behavior, and microwave absorption performance. <i>CrystEngComm</i> , <b>2015</b> , 17, 2806-2814	3.3	16
50	A cautionary note on reaction tubes for differential display and cDNA amplification in thermal cycling. <i>BioTechniques</i> , <b>1994</b> , 16, 1002-4, 1006	2.5	15
49	Elevated MTSS1 expression associated with metastasis and poor prognosis of residual hepatitis B-related hepatocellular carcinoma. <i>Journal of Experimental and Clinical Cancer Research</i> , <b>2016</b> , 35, 85	12.8	15
48	A Remotely Controlled Transformable Soft Robot Based on Engineered Cardiac Tissue Construct. <i>Small</i> , <b>2019</b> , 15, e1900006	11	14
47	Mechanics of tunable helices and geometric frustration in biomimetic seashells. <i>Europhysics Letters</i> , <b>2014</b> , 105, 64005	1.6	14
46	Visualizing intracellular particles and precise control of drug release using an emissive hydrazone photochrome. <i>Chemical Science</i> , <b>2020</b> , 11, 3016-3021	9.4	13
45	Multifunctional Pacemaker Lead for Cardiac Energy Harvesting and Pressure Sensing. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2000053	10.1	13
44	Carbon nanotube-based substrates promote cardiogenesis in brown adipose-derived stem cells via $\alpha$ -integrin-dependent TGF- $\beta$ signaling pathway. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 4381-4393	7.3	13
43	Smart Laser-Writable Micropatterns with Multiscale Photo/Moisture Reconstructible Structure. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009481	15.6	12

42	Tunable Buckled Beams with Mesoporous PVDF-TrFE/SWCNT Composite Film for Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33516-33522	9.5	12
41	Edge effect of strained bilayer nanofilms for tunable multistability and actuation. <i>Nanoscale</i> , <b>2017</b> , 9, 2958-2962	7.7	11
40	Tunable, Flexible, and Resilient Robots Driven by an Electrostatic Actuator. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 1900162	6	11
39	Drug Delivery: Dimeric Drug Polymeric Micelles with Acid-Active Tumor Targeting and FRET-Traceable Drug Release (Adv. Mater. 3/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870020	24	11
38	FINITE ELEMENT SIMULATIONS ON MECHANICAL SELF-ASSEMBLY OF BIOMIMETIC HELICAL STRUCTURES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2013</b> , 13, 1340018	0.7	10
37	Dislocation climb strengthening in systems with immobile obstacles: Three-dimensional level-set simulation study. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	10
36	Gaussian-preserved, non-volatile shape morphing in three-dimensional microstructures for dual-functional electronic devices. <i>Nature Communications</i> , <b>2021</b> , 12, 509	17.4	9
35	Controllable Shape Changing and Tristability of Bilayer Composite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16881-16887	9.5	8
34	PREFACE A SPECIAL SELECTION ON BIOLOGICAL MECHANICS. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2015</b> , 15, 1502002	0.7	8
33	A novel jamming phase diagram links tumor invasion to non-equilibrium phase separation. <i>IScience</i> , <b>2021</b> , 24, 103252	6.1	8
32	Tunable bistability of a clamped elastic beam. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 34, 100603	3.9	8
31	Implantable Cardiac Kirigami-Inspired Lead-Based Energy Harvester Fabricated by Enhanced Piezoelectric Composite Film. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002100	10.1	7
30	Energy Harvesting: Flexible Porous Piezoelectric Cantilever on a Pacemaker Lead for Compact Energy Harvesting (Adv. Mater. Technol. 1/2019). <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1970002	6.8	5
29	Structural evolution and stability of mechanically alloyed Fe-Ni nanocrystalline. <i>Central South University</i> , <b>2005</b> , 12, 389-392		5
28	Skin-like Elastomer Embedded Zinc Oxide Nanoarrays for Biomechanical Energy Harvesting. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100094	4.6	5
27	Buckling shape transition of an embedded thin elastic rod after failure of surrounding elastic medium. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 15, 51-56	3.9	4
26	Extracellular Assembly of the Elastin Cable Line Element in the Developing Lung. <i>Anatomical Record</i> , <b>2017</b> , 300, 1670-1679	2.1	4
25	Understanding transport of an elastic, spherical particle through a confining channel. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 103705	3.4	4

24	How the embryonic chick brain twists. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13,	4.1	4
23	Residual Stresses and Poisson's Effect Drive Shape Formation and Transition of Helical Structures. <i>Journal of Elasticity</i> , <b>2015</b> , 119, 321-333	1.5	3
22	Programmable 3D Self-Folding Structures with Strain Engineering. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000101	6	3
21	Bistability in popper-like shells programmed by geometric defects. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 42, 101065	3.9	3
20	What's new about the mechanism of methotrexate action in psoriasis?. <i>British Journal of Dermatology</i> , <b>2018</b> , 179, 818-819	4	3
19	Biomaterial-Assisted Anastomotic Healing: Serosal Adhesion of Pectin Films. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
18	Programmable 3D Self-Folding Structures with Strain Engineering. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2070121	6	3
17	Flexible Electrostatic Transducers for Wearable Haptic Communication* <b>2019</b> ,		2
16	Comment on shear-rotation mechanism for martensitic transformations. <i>Progress in Natural Science: Materials International</i> , <b>2004</b> , 14, 917-921	3.6	2
15	Fabrication of monodisperse magnetic nanorods for improving hyperthermia efficacy. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 63	9.4	2
14	Voltage-actuated snap-through in bistable piezoelectric thin films: a computational study. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 085021	3.4	2
13	Buckling and post-buckling of an elastic rod embedded in a bilayer matrix. <i>Extreme Mechanics Letters</i> , <b>2018</b> , 25, 1-6	3.9	2
12	The evaluation of reverse shoulder lateralization on deltoid forces and scapular fracture risk: A computational study. <i>Medicine in Novel Technology and Devices</i> , <b>2021</b> , 11, 100076	2.1	2
11	Optical and Mechanical Properties of Self-Repairing Pectin Biopolymers.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	2
10	Diamond Nanomembranes: Deterministic Self-Rolling of Ultrathin Nanocrystalline Diamond Nanomembranes for 3D Tubular/Helical Architecture (Adv. Mater. 13/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	1
9	Missing-in-metastasis B (MIM-B) combined with caveolin-1 promotes metastasis of hepatocellular carcinoma. <i>Oncotarget</i> , <b>2017</b> , 8, 95450-95465	3.3	1
8	On the determination of shear angle in martensitic transformations. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 457, 380-384	5.3	1
7	Multi-shape-changing interpenetrating networks with shape memory effect and adaptive plastic deformations. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101246	6.6	1

6	Biomechanical Energy Harvester: Skin-like Elastomer Embedded Zinc Oxide Nanoarrays for Biomechanical Energy Harvesting (Adv. Mater. Interfaces 10/2021). <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2170057	4.6	1
5	Functional Adhesion of Pectin Biopolymers to the Lung Visceral Pleura. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
4	Generation, Transmission, and Regulation of Mechanical Forces in Embryonic Morphogenesis. <i>Small</i> , <b>2021</b> , e2103466	11	0
3	Residual Stresses and Poisson's Effect Drive Shape Formation and Transition of Helical Structures <b>2016</b> , 321-333		
2	Intelligent Biohybrid Robotic Systems: A Remotely Controlled Transformable Soft Robot Based on Engineered Cardiac Tissue Construct (Small 18/2019). <i>Small</i> , <b>2019</b> , 15, 1970095	11	
1	Porosity-Tunable Structures with Fossilized Bubbles. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 497-504	4.3	