

# Ze Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1683018/publications.pdf>

Version: 2024-02-01

85  
papers

2,838  
citations

186265  
28  
h-index

182427  
51  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2928  
citing authors

#	ARTICLE	IF	CITATIONS
1	NE-trending transtensional faulting in the Pearl River Mouth basin of the Northern South China Sea margin. <i>Gondwana Research</i> , 2023, 120, 4-19.	6.0	10
2	Three-stage extension in the Cenozoic Pearl River Mouth Basin triggering onset of the South China Sea spreading. <i>Gondwana Research</i> , 2023, 120, 31-46.	6.0	8
3	Deep-shallow coupling response of the Cenozoic Bohai Bay Basin to plate interactions around the Eurasian Plate. <i>Gondwana Research</i> , 2022, 102, 180-199.	6.0	14
4	Earth's surface responses during geodynamic evolution: Numerical insight from the southern East China Sea Continental Shelf Basin, West Pacific. <i>Gondwana Research</i> , 2022, 102, 167-179.	6.0	8
5	Superplastic Nanomolding of Highly Ordered Metallic Submicrometer Pillars Arrays for Surface Enhanced Raman Scattering. <i>Advanced Materials Technologies</i> , 2022, 7, 2100891.	5.8	8
6	Nanofabrication through molding. <i>Progress in Materials Science</i> , 2022, 125, 100891.	32.8	39
7	Experimental decoding of grain boundary-based plastic deformation. <i>Acta Materialia</i> , 2022, 225, 117534.	7.9	8
8	Flexural subsidence modelling of post-rift paleobathymetry and sedimentary infill in the northern South China Sea margin. <i>Journal of Asian Earth Sciences</i> , 2022, 226, 105076.	2.3	4
9	Dynamic and Reversible Tuning of Particle-in-a-Bowl Shaped Plasmonic Resonators for Switchable Surface Enhanced Raman Scattering. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	5
10	Electrochemical Growth of High-Strength Carbon Nanocoils in Molten Carbonates. <i>Nano Letters</i> , 2022, 22, 97-104.	9.1	17
11	Fabrication of 3D metallic glass architectures by a mold-strain-set method. <i>Materials and Design</i> , 2022, 218, 110668.	7.0	4
12	Deep and surface driving forces to shape the Earth: Insights from the evolution of the northern South China Sea margin. <i>Gondwana Research</i> , 2022, , .	6.0	4
13	Thermodynamic model of twisted bilayer graphene: Entropy matters. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 167, 104972.	4.8	7
14	Peeling mechanics of film-substrate system with mutually embedded nanostructures in the interface. <i>International Journal of Solids and Structures</i> , 2022, 251, 111737.	2.7	1
15	Observation of speeding growth of metal nanowires by ultra-low frequency micro-vibration assisted superplastic nanomolding. <i>Materials Letters</i> , 2021, 283, 128890.	2.6	3
16	Ultrawide bandwidth and sensitive electro-optic modulator based on a graphene nanoelectromechanical system with superlubricity. <i>Carbon</i> , 2021, 176, 228-234.	10.3	21
17	Quantitative characterization of surface wettability by friction force. <i>Applied Surface Science</i> , 2021, 536, 147788.	6.1	16
18	When plateau meets subduction zone: A review of numerical models. <i>Earth-Science Reviews</i> , 2021, 215, 103556.	9.1	25

#	ARTICLE	IF	CITATIONS
19	ANOX: A robust computational model for predicting the antioxidant proteins based on multiple features. <i>Analytical Biochemistry</i> , 2021, 631, 114257.	2.4	2
20	Structural and kinematic analysis of Cenozoic rift basins in South China Sea: A synthesis. <i>Earth-Science Reviews</i> , 2021, 216, 103522.	9.1	38
21	Computational Prediction of Superlubric Layered Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 33600-33608.	8.0	11
22	One-dimensional Sb <sub>2</sub> Se <sub>3</sub> enabling ultra-flexible solar cells and mini-modules for IoT applications. <i>Nano Energy</i> , 2021, 86, 106101.	16.0	30
23	Nanomolding of Gold and Gold-Silicon Heterostructures at Room Temperature. <i>ACS Nano</i> , 2021, 15, 14275-14284.	14.6	8
24	Mechanical design of an asymmetric-deformation-driven rotating machinery. <i>Mechanics Research Communications</i> , 2021, 117, 103772.	1.8	0
25	Extraordinary Electromechanical Actuation of Ti <sub>2</sub> C MXene. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1060-1068.	3.1	13
26	Dynamic and reversible tuning of pixelated plasmonic cluster arrays. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15927-15931.	5.5	6
27	Ordered Hierarchical Ag Nanostructures as Surface-Enhanced Raman Scattering Platforms for (Bio)chemical Sensing and Pollutant Monitoring. <i>ACS Applied Nano Materials</i> , 2021, 4, 11644-11650.	5.0	11
28	Electromechanically Actuated MXene Nanotubes for Tunable Mass Transport. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25275-25283.	3.1	1
29	Tuning the Nonlinear Mechanical Anisotropy of Layered Crystals via Interlayer Twist. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	2.2	1
30	Arbitrarily Patterned Active Wrinkles in Highly Stretched Substrate-Free Dielectric Elastic Membrane. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	2.2	2
31	Generation of buckling and wrinkling in elastic films: The effect of initial imperfection. <i>Physical Review E</i> , 2021, 104, 055002.	2.1	1
32	Joining mechanism of bulk metallic glasses in their supercooled liquid region. <i>Journal of Materials Processing Technology</i> , 2020, 279, 116583.	6.3	10
33	One-Dimensional Sb <sub>2</sub> Se <sub>3</sub> Enabling a Highly Flexible Photodiode for Light-Source-Free Heart Rate Detection. <i>ACS Photonics</i> , 2020, 7, 352-360.	6.6	53
34	Controlled fabrication of gold nanotip arrays by nanomolding-necking technology. <i>Nanotechnology</i> , 2020, 31, 144001.	2.6	1
35	Accretion of oceanic plateaus at continental margins: Numerical modeling. <i>Gondwana Research</i> , 2020, 81, 390-402.	6.0	30
36	Elastic anisotropy measure for two-dimensional crystals. <i>Extreme Mechanics Letters</i> , 2020, 34, 100615.	4.1	54

#	ARTICLE	IF	CITATIONS
37	m7GPredictor: An improved machine learning-based model for predicting internal m7G modifications using sequence properties. <i>Analytical Biochemistry</i> , 2020, 609, 113905.	2.4	18
38	Spatio-temporally modulated composite metamaterials by using switchable mesostructural topology. <i>Composite Structures</i> , 2020, 251, 112601.	5.8	0
39	High-performance phosphorene electromechanical actuators. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	13
40	Rapid and continuous regulating adhesion strength by mechanical micro-vibration. <i>Nature Communications</i> , 2020, 11, 1583.	12.8	23
41	Robust and reproducible fabrication of large area aluminum (Al) micro/nanorods arrays by superplastic nanomolding at room temperature. <i>Applied Physics Express</i> , 2020, 13, 036503.	2.4	8
42	Bio-inspired self-folding strategy to break the trade-off between strength and ductility in carbon-nanoarchitected materials. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	14
43	General Nanomolding of Ordered Phases. <i>Physical Review Letters</i> , 2020, 124, 036102.	7.8	21
44	A new method for fabrication and electrical characterization of nanosized molten metals. <i>Nanotechnology</i> , 2020, 31, 445705.	2.6	2
45	Superflexible C <sub>68</sub> -graphyne as a promising anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17357-17365.	10.3	19
46	Investigation of Temperature and Feature Size Effects on Deformation of Metals by Superplastic Nanomolding. <i>Physical Review Letters</i> , 2019, 122, 016101.	7.8	13
47	Nanomolding of Crystalline Metals: The Smaller the Easier. <i>Physical Review Letters</i> , 2019, 122, 036101.	7.8	30
48	Controlled fabrication of hierarchical metal nanostructures. <i>Materials Letters</i> , 2019, 241, 160-163.	2.6	3
49	Eastward tectonic migration and transition of the Jurassic-Cretaceous Andean-type continental margin along Southeast China. <i>Earth-Science Reviews</i> , 2019, 196, 102884.	9.1	93
50	Mesozoic magmatic activity and tectonic evolution in the southern East China Sea Continental Shelf Basin: Thermo-mechanical modelling. <i>Geological Journal</i> , 2018, 53, 240-251.	1.3	10
51	Dynamic mechanism of tectonic inversion and implications for oil-gas accumulation in the Xihu Sag, East China Sea Shelf Basin: Insights from numerical modelling. <i>Geological Journal</i> , 2018, 53, 225-239.	1.3	3
52	Test sample geometry for fracture toughness measurements of bulk metallic glasses. <i>Acta Materialia</i> , 2018, 145, 477-487.	7.9	43
53	Lightweight Ti-based bulk metallic glasses with superior thermoplastic formability. <i>Intermetallics</i> , 2018, 98, 54-59.	3.9	23
54	Spatially heterogeneous dynamics in a metallic glass forming liquid imaged by electron correlation microscopy. <i>Nature Communications</i> , 2018, 9, 1129.	12.8	73

#	ARTICLE	IF	CITATIONS
55	Atomic imprinting into metallic glasses. <i>Communications Physics</i> , 2018, 1, .	5.3	28
56	Transition From Low- $\kappa$ to High- $\kappa$ Calc-alkaline Magmatism at Approximately 84 Ma in the Eastern Pontides (NE Turkey): Magmatic Response to Slab Rollback of the Black Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7604-7628.	3.4	34
57	Mechanical glass transition revealed by the fracture toughness of metallic glasses. <i>Nature Communications</i> , 2018, 9, 3271.	12.8	103
58	Novel single-host Al <sub>1-x</sub> Si <sub>x</sub> N <sub>1-x</sub> : Mn <sup>2+</sup> white phosphors for field emission displays. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 8405-8413.	2.2	2
59	One-step fabrication of crystalline metal nanostructures by direct nanoimprinting below melting temperatures. <i>Nature Communications</i> , 2017, 8, 14910.	12.8	55
60	Vibration-accelerated activation of flow units in a Pd-based bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 692, 62-66.	5.6	13
61	Processing effects on fracture toughness of metallic glasses. <i>Scripta Materialia</i> , 2017, 130, 152-156.	5.2	38
62	Applications and limitations of electron correlation microscopy to study relaxation dynamics in supercooled liquids. <i>Ultramicroscopy</i> , 2017, 178, 125-130.	1.9	11
63	Tuning apparent friction coefficient by controlled patterning bulk metallic glasses surfaces. <i>Scientific Reports</i> , 2016, 6, 39388.	3.3	33
64	Flaw tolerance of metallic glasses. <i>Acta Materialia</i> , 2016, 107, 220-228.	7.9	61
65	3D metallic glass cellular structures. <i>Acta Materialia</i> , 2016, 105, 35-43.	7.9	69
66	Mechanical buckling induced periodic kinking/stripe microstructures in mechanically peeled graphite flakes from HOPG. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 494-499.	3.4	4
67	Does the fracture toughness of bulk metallic glasses scatter?. <i>Scripta Materialia</i> , 2015, 107, 1-4.	5.2	44
68	Critical Crystallization for Embrittlement in Metallic Glasses. <i>Physical Review Letters</i> , 2015, 115, 265502.	7.8	48
69	Shear-accelerated crystallization in a supercooled atomic liquid. <i>Physical Review E</i> , 2015, 91, 020301.	2.1	28
70	Protocols for multi-step thermoplastic processing of metallic glasses. <i>Scripta Materialia</i> , 2015, 104, 56-59.	5.2	12
71	General nanomoulding with bulk metallic glasses. <i>Nanotechnology</i> , 2015, 26, 145301.	2.6	37
72	Computational Nanocharacterization for Combinatorially Developed Bulk Metallic Glass. <i>International Journal of High Speed Electronics and Systems</i> , 2015, 24, 1520012.	0.7	0

#	ARTICLE	IF	CITATIONS
73	Combinatorial development of bulk metallic glasses. <i>Nature Materials</i> , 2014, 13, 494-500.	27.5	196
74	The diversity of friction behavior between bi-layer graphenes. <i>Nanotechnology</i> , 2014, 25, 075703.	2.6	24
75	Joining of bulk metallic glasses in air. <i>Acta Materialia</i> , 2014, 62, 49-57.	7.9	74
76	Experimental advances in superlubricity. <i>Friction</i> , 2014, 2, 182-192.	6.4	57
77	Flaw tolerance vs. performance: A tradeoff in metallic glass cellular structures. <i>Acta Materialia</i> , 2014, 73, 259-274.	7.9	55
78	Observation of High-Speed Microscale Superlubricity in Graphite. <i>Physical Review Letters</i> , 2013, 110, 255504.	7.8	131
79	Mechanics and Multidisciplinary Study for Creating Graphene-Based van der Waals Nano/Microscale Devices. , 2013, , 87-104.		0
80	Binding and interlayer force in the near-contact region of two graphite slabs: Experiment and theory. <i>Journal of Chemical Physics</i> , 2013, 139, 224704.	3.0	21
81	Observation of Microscale Superlubricity in Graphite. <i>Physical Review Letters</i> , 2012, 108, 205503.	7.8	431
82	Interlayer shear strength of single crystalline graphite. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 978-982.	3.4	86
83	Interlayer binding energy of graphite: A mesoscopic determination from deformation. <i>Physical Review B</i> , 2012, 85, .	3.2	203
84	A graphite nanoeraser. <i>Nanotechnology</i> , 2011, 22, 265706.	2.6	38
85	Stripe/kink microstructures formed in mechanical peeling of highly orientated pyrolytic graphite. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	19