

# Wennan Zou

## List of Publications by Year in descending order

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37  
papers

696  
citations

623734

14  
h-index

552781

26  
g-index

38  
all docs

38  
docs citations

38  
times ranked

721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eshelby's problem of non-elliptical inclusions. <i>Journal of the Mechanics and Physics of Solids</i> , 2010, 58, 346-372.	4.8	120
2	Growth of Millimeter-Size Single Crystal Graphene on Cu Foils by Circumfluence Chemical Vapor Deposition. <i>Scientific Reports</i> , 2014, 4, 4537.	3.3	98
3	Directional Intermolecular Interactions for Precise Molecular Design of a High- $T_c$ Multiaxial Molecular Ferroelectric. <i>Journal of the American Chemical Society</i> , 2019, 141, 1781-1787.	13.7	74
4	Perspectives in mechanics of heterogeneous solids. <i>Acta Mechanica Solida Sinica</i> , 2011, 24, 1-26.	1.9	47
5	Inclusions in a finite elastic body. <i>International Journal of Solids and Structures</i> , 2012, 49, 1627-1636.	2.7	47
6	The numerical solution of high dimensional variable-order time fractional diffusion equation via the singular boundary method. <i>Journal of Advanced Research</i> , 2021, 32, 73-84.	9.5	23
7	Explicit expression of Eshelby tensor for arbitrary weakly non-circular inclusion in two-dimensional elasticity. <i>International Journal of Engineering Science</i> , 2009, 47, 1240-1250.	5.0	22
8	Symmetry types of the piezoelectric tensor and their identification. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20120755.	2.1	21
9	Irreducible decompositions of physical tensors of high orders. <i>Journal of Engineering Mathematics</i> , 2000, 37/3, 273-288.	1.2	19
10	The meshless approach for solving 2D variable-order time-fractional advection-diffusion equation arising in anomalous transport. <i>Engineering With Computers</i> , 2022, 38, 2289-2307.	6.1	19
11	General solution for Eshelby's problem of 2D arbitrarily shaped piezoelectric inclusions. <i>International Journal of Solids and Structures</i> , 2011, 48, 2681-2694.	2.7	17
12	Solutions to Eshelby's problems of non-elliptical thermal inclusions and cylindrical elastic inclusions of non-elliptical cross section. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 607-626.	2.1	17
13	The peridynamic differential operator for solving time-fractional partial differential equations. <i>Nonlinear Dynamics</i> , 2022, 109, 1823-1850.	5.2	16
14	Maxwell's multipole representation of traceless symmetric tensors and its application to functions of high-order tensors. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 527-538.	2.1	14
15	Identification of symmetry type of linear elastic stiffness tensor in an arbitrarily orientated coordinate system. <i>International Journal of Solids and Structures</i> , 2013, 50, 2457-2467.	2.7	14
16	Title is missing!. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2001, 22, 865-884.	3.6	13
17	Eshelby's problem in an anisotropic multiferroic bimaterial plane. <i>International Journal of Solids and Structures</i> , 2012, 49, 1685-1700.	2.7	13
18	Eshelby's problem of polygonal inclusions with polynomial eigenstrains in an anisotropic magneto-electro-elastic full plane. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20140827.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Eshelby's problem of inclusion with arbitrary shape in an isotropic elastic half-plane. <i>International Journal of Solids and Structures</i> , 2016, 81, 399-410.	2.7	11
20	Revisiting the problem of a 2D infinite elastic isotropic medium with a rigid inclusion or a cavity. <i>International Journal of Engineering Science</i> , 2018, 126, 68-96.	5.0	11
21	Exterior elastic fields of non-elliptical inclusions characterized by Laurent polynomials. <i>European Journal of Mechanics, A/Solids</i> , 2016, 60, 112-121.	3.7	10
22	The second Eshelby problem and its solvability. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 1331-1333.	3.4	7
23	Eshelby's problem of a spherical inclusion eccentrically embedded in a finite spherical body. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160808.	2.1	7
24	Limitation of average eshelby tensor and its application in analysis of ellipse approximation. <i>Acta Mechanica Solida Sinica</i> , 2011, 24, 176-184.	1.9	6
25	An irreducible function basis of isotropic invariants of a third order three-dimensional symmetric tensor. <i>Journal of Mathematical Physics</i> , 2018, 59, 081703.	1.1	6
26	Completely explicit solutions of Eshelby's problems of smooth inclusions embedded in a circular disk, full- and half-planes. <i>Acta Mechanica</i> , 2018, 229, 1911-1926.	2.1	5
27	Isotropic polynomial invariants of Hall tensor. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2018, 39, 1845-1856.	3.6	5
28	Thermal inclusions inside a bounded medium. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130221.	2.1	4
29	Irreducible function bases of isotropic invariants of a third order three-dimensional symmetric and traceless tensor. <i>Frontiers of Mathematics in China</i> , 2019, 14, 1-16.	0.7	4
30	Inclusions inside a bounded elastic body undergoing anti-plane shear. <i>Mathematics and Mechanics of Solids</i> , 2018, 23, 588-605.	2.4	3
31	Elastic perturbation due to a rigid inclusion embedded in an infinite homogeneous and isotropic medium exerting a remote uniform heat flux. <i>Engineering Fracture Mechanics</i> , 2021, 255, 107954.	4.3	3
32	Thermoelectric and stress distributions around a smooth cavity in thermoelectric material. <i>International Journal of Mechanical Sciences</i> , 2022, 221, 107198.	6.7	3
33	Recasting theory of elasticity with micro-finite elements. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 679-684.	3.4	2
34	Thermal stress around a smooth cavity in a plate subjected to uniform heat flux. <i>Journal of Thermal Stresses</i> , 2021, 44, 1407-1426.	2.0	2
35	Two irreducible functional bases of isotropic invariants of a fourth-order three-dimensional symmetric and traceless tensor. <i>Mathematics and Mechanics of Solids</i> , 2019, 24, 3092-3102.	2.4	1
36	Spiral streamline pattern around a critical point: Its dual directivity and effective characterization by right eigen representation. <i>Physics of Fluids</i> , 2021, 33, 067102.	4.0	0

#	ARTICLE	IF	CITATIONS
37	The Multipole Structure and Symmetry Classification of Even-Type Deviators Decomposed from the Material Tensor. <i>Materials</i> , 2021, 14, 5388.	2.9	0