

# Hui Fan

## List of Publications by Year in descending order

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47  
papers

577  
citations

687220

13  
h-index

677027

22  
g-index

47  
all docs

47  
docs citations

47  
times ranked

315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric waves near an imperfectly bonded interface between two half-spaces. Applied Physics Letters, 2006, 88, 203509.	1.5	69
2	Two-dimensional contact on a piezoelectric half-space. International Journal of Solids and Structures, 1996, 33, 1305-1315.	1.3	65
3	Interfacial Zener-Stroh Crack. Journal of Applied Mechanics, Transactions ASME, 1994, 61, 829-834.	1.1	39
4	Two-Dimensional Contact on an Anisotropic Elastic Half-Space. Journal of Applied Mechanics, Transactions ASME, 1994, 61, 250-255.	1.1	29
5	A piezoelectric sensor embedded in a non-piezoelectric matrix. International Journal of Engineering Science, 1995, 33, 379-388.	2.7	29
6	Thickness-shear vibrations of rotated Y-cut quartz plates with imperfectly bonded surface mass layers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 241-245.	1.7	29
7	Antiplane piezoelectric surface waves over a ceramic half-space with an imperfectly bonded layer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1695-1698.	1.7	25
8	Analysis of the shear stress transferred from a partially electroded piezoelectric actuator to an elastic substrate. Smart Materials and Structures, 2000, 9, 248-254.	1.8	23
9	Anti-plane waves near an interface between two piezoelectric half-spaces. Mechanics Research Communications, 2015, 67, 8-12.	1.0	21
10	Love wave in a classical linear elastic half-space covered by a surface layer described by the couple stress theory. Acta Mechanica, 2018, 229, 5121-5132.	1.1	19
11	Decay rates in a piezoelectric strip. International Journal of Engineering Science, 1995, 33, 1095-1103.	2.7	16
12	Contact line mobility in liquid droplet spreading on rough surface. Journal of Colloid and Interface Science, 2008, 323, 126-132.	5.0	15
13	The eigenstrain formulation for classical plates. International Journal of Solids and Structures, 1991, 28, 363-372.	1.3	14
14	Vibration characteristics of a corrugated cylindrical shell piezoelectric transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2502-2508.	1.7	12
15	A piezoelectric screw dislocation in a bimaterial with surface piezoelectricity. Acta Mechanica, 2015, 226, 3317-3331.	1.1	12
16	Interaction between a nanocrack with surface elasticity and a screw dislocation. Mathematics and Mechanics of Solids, 2017, 22, 131-143.	1.5	11
17	Two-dimensional line defects in anisotropic elastic solids. International Journal of Fracture, 1993, 62, 25-42.	1.1	10
18	Power transmission through an unbounded elastic plate using a finite piezoelectric actuator and a finite piezoelectric power harvester. International Journal of Applied Electromagnetics and Mechanics, 2009, 29, 145-156.	0.3	9

#	ARTICLE	IF	CITATIONS
19	On micromechanical-statistical modeling of microscopically damaged interfaces under antiplane deformations. <i>International Journal of Solids and Structures</i> , 2014, 51, 2327-2335.	1.3	9
20	Coalescence of droplets on micro-structure patterned hydrophobic planar solid surfaces. <i>RSC Advances</i> , 2017, 7, 23954-23960.	1.7	9
21	Experimental estimation of friction energy within a bundle of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008, 93, 041914.	1.5	8
22	Vibration characteristics of a circular cylindrical ceramic tube piezoelectric transducer with helical electrodes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 2587-2591.	1.7	8
23	Hypersingular integral and integro-differential micromechanical models for an imperfect interface between a thin orthotropic layer and an orthotropic half-space under inplane elastostatic deformations. <i>Engineering Analysis With Boundary Elements</i> , 2015, 52, 32-43.	2.0	8
24	Torsional waves in nanowires with surface elasticity effect. <i>Acta Mechanica</i> , 2016, 227, 1783-1790.	1.1	8
25	In-plane surface wave in a classical elastic half-space covered by a surface layer with microstructure. <i>Acta Mechanica</i> , 2020, 231, 4463-4477.	1.1	8
26	High-frequency vibrations of corrugated cylindrical piezoelectric shells. <i>Acta Mechanica Solida Sinica</i> , 2008, 21, 564-572.	1.0	7
27	Micro-mechanics models for an imperfect interface under anti-plane shear load: Hypersingular integral formulations. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 1856-1864.	2.0	7
28	Decay rates in nano tubes with consideration of surface elasticity. <i>Mechanics Research Communications</i> , 2016, 73, 113-116.	1.0	7
29	SH surface wave propagating in a strain-gradient layered half-space. <i>Acta Mechanica</i> , 2021, 232, 1061-1074.	1.1	7
30	On the Use of Variational Principles to Derive Beam Boundary Conditions. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1994, 61, 470-471.	1.1	6
31	A hypersingular boundary integral method for quasi-static antiplane deformations of an elastic bimaterial with an imperfect and viscoelastic interface. <i>Engineering Computations</i> , 2004, 21, 529-539.	0.7	6
32	DEPENDENCY OF EFFECTIVE MODULUS OF POLYCRYSTALLINE AGGREGATES ON MACRO-GEOMETRIC CONFIGURATION. <i>International Journal of Applied Mechanics</i> , 2012, 04, 1250031.	1.3	6
33	Analysis of multilayered thin-film piezoelectric transducer arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 2571-2577.	1.7	4
34	Size optimization of a piezoelectric actuator on a clamped elastic plate. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 2015-2022.	1.7	4
35	Thickness-shear vibration of an AT-cut quartz plate with elliptical electrodes and implications in optimal blank geometry. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 875-879.	1.7	4
36	Torsional wave in a circular micro-tube with clogging attached to the inner surface. <i>Acta Mechanica Solida Sinica</i> , 2017, 30, 299-305.	1.0	4

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37	Decay rates in a bimaterial circular cylinder. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 1994, 10, 302-310.	1.5	2
38	PHENOMENOLOGICAL MODELING FOR PORE OPENING, CLOSURE AND RUPTURE OF THE GUV MEMBRANE. <i>International Journal of Applied Mechanics</i> , 2009, 01, 327-338.	1.3	2
39	Micro-statistical modeling of an imperfect interface in a piezoelectric bimaterial under inplane static deformations. <i>Applied Mathematical Modelling</i> , 2017, 50, 695-714.	2.2	2
40	Theoretical analysis of a ceramic plate thickness-shear mode piezoelectric transformer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 613-621.	1.7	1
41	Giant liposome spreading on a silicon wall. <i>Journal of Applied Physics</i> , 2011, 110, 034904.	1.1	1
42	Spreading of giant liposomes on anisotropically patterned substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 419, 1-6.	2.3	1
43	SH surface waves in a coated half-space with various types of interfaces. <i>Mechanics Research Communications</i> , 2022, 119, 103834.	1.0	1
44	Elastic-Plastic Plane Strain Analysis of Compressible Materials. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 1987, 109, 357-358.	0.4	0
45	Analysis of a ceramic plate thickness-twist mode piezoelectric transformer. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2008, 28, 455-467.	0.3	0
46	Two-Dimensional Static Problems: Stroh Formalism. , 2009, , 47-80.		0
47	On the effective property of a micro-cracked and a microscopically curved interface between dissimilar materials. <i>Forces in Mechanics</i> , 2022, 7, 100091.	1.3	0