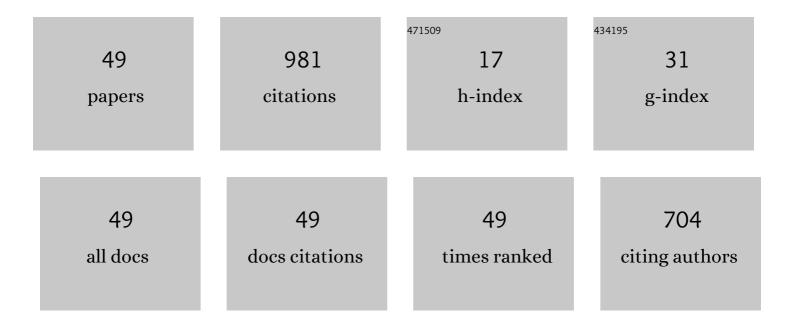
Shuitao Gu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Transversely Isotropic Magneto-Electro-Elastic Circular Kirchhoff Plate Model Incorporating Microstructure Effect. Acta Mechanica Solida Sinica, 2022, 35, 185-197.	1.9	5
2	Interphase Effect on the Macro Nonlinear Mechanical Behavior of Cement-Based Solidified Sand Mixture. Materials, 2022, 15, 1972.	2.9	2
3	A non-classical couple stress based Mindlin plate finite element framework for tuning band gaps of periodic composite micro plates. Journal of Sound and Vibration, 2022, 529, 116889.	3.9	8
4	Variational Formulations and Isogeometric Analysis of Timoshenko–Ehrenfest Microbeam Using a Reformulated Strain Gradient Elasticity Theory. Crystals, 2022, 12, 752.	2.2	1
5	Passive enhancement of heat transfer in a microchannel by an adjoint system of cylinder and flexible beam. Numerical Heat Transfer; Part A: Applications, 2022, 82, 765-787.	2.1	1
6	lsogeometric analysis for non-classical Bernoulli-Euler beam model incorporating microstructure and surface energy effects. Applied Mathematical Modelling, 2021, 89, 470-485.	4.2	23
7	Effects of the progressive damage interphase on the effective bulk behavior of spherical particulate composites. Acta Mechanica, 2021, 232, 423-437.	2.1	3
8	Micromechanical modelling of the anisotropic creep behaviour of granular medium as a fourth-order fabric tensor. Advances in Mechanical Engineering, 2021, 13, 168781402110361.	1.6	1
9	Dynamic fracture analysis of the linearly uncoupled and coupled physical phenomena by the variable-node multiscale XFEM. Engineering Fracture Mechanics, 2021, 254, 107941.	4.3	12
10	The effective thermal conductivity of composites with interfaces oscillating in two directions around a curved surface. Acta Mechanica, 2020, 231, 5063-5103.	2.1	4
11	Shear-lag model for discontinuous fiber-reinforced composites with a membrane-type imperfect interface. Acta Mechanica, 2020, 231, 4717-4734.	2.1	1
12	A new isogeometric Timoshenko beam model incorporating microstructures and surface energy effects. Mathematics and Mechanics of Solids, 2020, 25, 2005-2022.	2.4	18
13	Effective elastic isotropic moduli of highly filled particulate composites with arbitrarily shaped inhomogeneities. Mechanics of Materials, 2019, 135, 35-45.	3.2	9
14	Microscale superlubricity of graphite under various twist angles. Physical Review B, 2019, 99, .	3.2	24
15	Implementation of a physicsâ€based general elastic imperfect interface model in the XFEM and LSM context. International Journal for Numerical Methods in Engineering, 2018, 115, 1499-1525.	2.8	4
16	Effective interfacial conditions for the Stokes flow of a fluid on periodically rough surfaces. Acta Mechanica, 2017, 228, 1851-1869.	2.1	3
17	An XFEM/level set strategy for simulating the piezoelectric spring-type interfaces with apparent physical background. Finite Elements in Analysis and Design, 2017, 133, 62-75.	3.2	12
18	Exact connections between the effective elastic moduli of fibre-reinforced composites with general imperfect interfaces. International Journal of Solids and Structures, 2017, 104-105, 65-72.	2.7	5

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19	On asymptotic elastodynamic homogenization approaches for periodic media. Journal of the Mechanics and Physics of Solids, 2016, 88, 274-290.	4.8	29
20	Computation of the size-dependent elastic moduli of nano-fibrous and nano-porous composites by FFT. Composites Science and Technology, 2016, 135, 159-171.	7.8	9
21	Observation of normal-force-independent superlubricity in mesoscopic graphite contacts. Physical Review B, 2016, 94, .	3.2	62
22	Effective elastic moduli of fiber-reinforced composites with interfacial displacement and stress jumps. International Journal of Solids and Structures, 2016, 80, 146-157.	2.7	23
23	Evolution of the free volume between rough surfaces in contact. Wear, 2015, 336-337, 86-95.	3.1	23
24	Willis elastodynamic homogenization theory revisited for periodic media. Journal of the Mechanics and Physics of Solids, 2015, 77, 158-178.	4.8	84
25	Compact closed-form micromechanical expressions for the effective uncoupled and coupled linear properties of layered composites. Philosophical Magazine, 2015, 95, 2793-2816.	1.6	5
26	Variational principles and size-dependent bounds for piezoelectric inhomogeneous materials with piezoelectric spring–layer imperfect interfaces. Smart Materials and Structures, 2014, 23, 055003.	3.5	8
27	On the micromechanical definition of macroscopic strain and strain-rate tensors for granular materials. Computational Materials Science, 2014, 94, 51-57.	3.0	3
28	Two-scale homogenization of elastic layered composites with interfaces oscillating in two directions. Mechanics of Materials, 2014, 75, 60-72.	3.2	5
29	A versatile interface model for thermal conduction phenomena and its numerical implementation by XFEM. Computational Mechanics, 2014, 53, 825-843.	4.0	26
30	The strong and weak forms of a general imperfect interface model for linear coupled multifield phenomena. International Journal of Engineering Science, 2014, 85, 31-46.	5.0	22
31	Size-dependent effective elastic moduli of particulate composites with interfacial displacement and traction discontinuities. International Journal of Solids and Structures, 2014, 51, 2283-2296.	2.7	55
32	The effective elastic moduli of columnar composites made of cylindrically anisotropic phases with rough interfaces. International Journal of Solids and Structures, 2014, 51, 2633-2647.	2.7	5
33	A four-scale homogenization analysis of creep of a nuclear containment structure. Nuclear Engineering and Design, 2013, 265, 712-726.	1.7	8
34	Thermal inclusions inside a bounded medium. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130221.	2.1	4
35	Characterization of surface and nonlinear elasticity in wurtzite ZnO nanowires. Journal of Applied Physics, 2012, 111, 124305.	2.5	17
36	Inclusions in a finite elastic body. International Journal of Solids and Structures, 2012, 49, 1627-1636.	2.7	47

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37	Homogenization of layered elastoplastic composites: Theoretical results. International Journal of Non-Linear Mechanics, 2012, 47, 367-376.	2.6	12
38	Threeâ€dimensional numerical modelling by XFEM of springâ€layer imperfect curved interfaces with applications to linearly elastic composite materials. International Journal for Numerical Methods in Engineering, 2011, 88, 307-328.	2.8	36
39	Interfacial discontinuity relations for coupled multifield phenomena and their application to the modeling of thin interphases as imperfect interfaces. Journal of the Mechanics and Physics of Solids, 2011, 59, 1413-1426.	4.8	116
40	Lower strain and stress bounds for elastic random composites consisting of two isotropic phases and exhibiting cubic symmetry. International Journal of Engineering Science, 2010, 48, 429-445.	5.0	1
41	Multiscale modeling of the macroscopic size-dependent effects of interfacial transition zones in concrete and their damage. Procedia Engineering, 2009, 1, 27-30.	1.2	1
42	A 4th order fabric tensor approach applied to granular media. Computers and Geotechnics, 2009, 36, 736-742.	4.7	3
43	Variational principles and bounds for elastic inhomogeneous materials with coherent imperfect interfaces. Mechanics of Materials, 2008, 40, 865-884.	3.2	70
44	On the conforming contact problem in a reinforced pin-loaded structure with a non-zero second Dundurs' constant. International Journal of Solids and Structures, 2008, 45, 3935-3950.	2.7	5
45	A 2D micromechanical modelling of anisotropy in granular media. Comptes Rendus - Mecanique, 2007, 335, 231-237.	2.1	2
46	Thermoelastic composites with columnar microstructure and cylindrically anisotropic phases. Part I: Exact results. International Journal of Engineering Science, 2007, 45, 402-423.	5.0	4
47	Thermoelastic composites with columnar microstructure and cylindrically anisotropic phases. Part II: One-parameter generalized self-consistent estimates. International Journal of Engineering Science, 2007, 45, 424-435.	5.0	6
48	Size-dependent effective thermoelastic properties of nanocomposites with spherically anisotropic phases. Journal of the Mechanics and Physics of Solids, 2007, 55, 1899-1931.	4.8	65
49	A more fundamental approach to damaged elastic stress-strain relations. International Journal of Solids and Structures, 1995, 32, 1433-1457.	2.7	89