

# Wenzhen Qu

## List of Publications by Year in descending order

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40  
papers

1,047  
citations

394421

19  
h-index

414414

32  
g-index

40  
all docs

40  
docs citations

40  
times ranked

315  
citing authors

#	ARTICLE	IF	CITATIONS
1	A GFDM with supplementary nodes for thin elastic plate bending analysis under dynamic loading. <i>Applied Mathematics Letters</i> , 2022, 124, 107664.	2.7	40
2	The method of fundamental solutions for electroelastic analysis of two-dimensional piezoelectric materials. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2022, 23, 420-428.	2.1	1
3	A simple formula for obtaining OIFs on Neumann boundary in 2D potential problems and its applications. <i>Engineering Analysis With Boundary Elements</i> , 2022, 134, 581-590.	3.7	1
4	A Hybrid Localized Meshless Method for the Solution of Transient Groundwater Flow in Two Dimensions. <i>Mathematics</i> , 2022, 10, 515.	2.2	2
5	Singular boundary method for 2D and 3D acoustic design sensitivity analysis. <i>Computers and Mathematics With Applications</i> , 2022, 119, 371-386.	2.7	26
6	Fracture mechanics analysis of bimaterial interface cracks using the generalized finite difference method. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 113, 102942.	4.7	29
7	Bending analysis of simply supported and clamped thin elastic plates by using a modified version of the LMFS. <i>Mathematics and Computers in Simulation</i> , 2021, 185, 347-357.	4.4	10
8	Stress analysis of elastic bi-materials by using the localized method of fundamental solutions. <i>AIMS Mathematics</i> , 2021, 7, 1257-1272.	1.6	2
9	Localized boundary knot method and its application to large-scale acoustic problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112729.	6.6	57
10	Topology optimization of steady-state heat conduction structures using meshless generalized finite difference method. <i>Engineering Analysis With Boundary Elements</i> , 2020, 119, 13-24.	3.7	19
11	A spatial-temporal GFDM with an additional condition for transient heat conduction analysis of FGMs. <i>Applied Mathematics Letters</i> , 2020, 110, 106579.	2.7	63
12	Analysis of an augmented moving least squares approximation and the associated localized method of fundamental solutions. <i>Computers and Mathematics With Applications</i> , 2020, 80, 13-30.	2.7	56
13	A hybrid meshless method for the solution of the second order hyperbolic telegraph equation in two space dimensions. <i>Engineering Analysis With Boundary Elements</i> , 2020, 115, 21-27.	3.7	20
14	Augmented moving least squares approximation using fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2020, 115, 10-20.	3.7	9
15	Localized method of fundamental solutions for interior Helmholtz problems with high wave number. <i>Engineering Analysis With Boundary Elements</i> , 2019, 107, 25-32.	3.7	14
16	Analysis of three-dimensional heat conduction in functionally graded materials by using a hybrid numerical method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 145, 118771.	4.8	26
17	A high accuracy method for long-time evolution of acoustic wave equation. <i>Applied Mathematics Letters</i> , 2019, 98, 135-141.	2.7	53
18	Analysis of three-dimensional interior acoustic fields by using the localized method of fundamental solutions. <i>Applied Mathematical Modelling</i> , 2019, 76, 122-132.	4.2	36

#	ARTICLE	IF	CITATIONS
19	Localized method of fundamental solutions for three-dimensional inhomogeneous elliptic problems: theory and MATLAB code. <i>Computational Mechanics</i> , 2019, 64, 1567-1588.	4.0	33
20	Localized method of fundamental solutions for large-scale modelling of three-dimensional anisotropic heat conduction problems – Theory and MATLAB code. <i>Computers and Structures</i> , 2019, 220, 144-155.	4.4	38
21	The generalized finite difference method for long-time dynamic modeling of three-dimensional coupled thermoelasticity problems. <i>Journal of Computational Physics</i> , 2019, 384, 42-59.	3.8	60
22	A combined scheme of generalized finite difference method and Krylov deferred correction technique for highly accurate solution of transient heat conduction problems. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 63-83.	2.8	31
23	Numerical analysis of heat transfer in arbitrary plane domains using a novel Trefftz energy method. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 73, 146-154.	0.9	7
24	Numerically solving twofold ill-posed inverse problems of heat equation by the adjoint Trefftz method. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 73, 48-61.	0.9	11
25	Fast multipole singular boundary method for Stokes flow problems. <i>Mathematics and Computers in Simulation</i> , 2018, 146, 57-69.	4.4	10
26	A wideband fast multipole accelerated singular boundary method for three-dimensional acoustic problems. <i>Computers and Structures</i> , 2018, 206, 82-89.	4.4	11
27	Optimal sources in the MFS by minimizing a new merit function: Energy gap functional. <i>Applied Mathematics Letters</i> , 2018, 86, 229-235.	2.7	58
28	Regularized formulation of potential field gradients in singular boundary method. <i>Engineering Analysis With Boundary Elements</i> , 2018, 95, 167-174.	3.7	1
29	Boundary stress analysis using a new regularized boundary integral equation for three-dimensional elasticity problems. <i>Archive of Applied Mechanics</i> , 2017, 87, 1213-1226.	2.2	6
30	A meshless generalized finite difference method for inverse Cauchy problems associated with three-dimensional inhomogeneous Helmholtz-type equations. <i>Engineering Analysis With Boundary Elements</i> , 2017, 82, 162-171.	3.7	31
31	Diagonal form fast multipole singular boundary method applied to the solution of high-frequency acoustic radiation and scattering. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 111, 803-815.	2.8	39
32	A novel Trefftz method of the inverse Cauchy problem for 3D modified Helmholtz equation. <i>Inverse Problems in Science and Engineering</i> , 2017, 25, 1278-1298.	1.2	12
33	A Numerical Framework for Integrating Deferred Correction Methods to Solve High Order Collocation Formulations of ODEs. <i>Journal of Scientific Computing</i> , 2016, 68, 484-520.	2.3	12
34	A BEM formulation in conjunction with parametric equation approach for three-dimensional Cauchy problems of steady heat conduction. <i>Engineering Analysis With Boundary Elements</i> , 2016, 63, 1-14.	3.7	55
35	Fast multipole accelerated singular boundary method for the 3D Helmholtz equation in low frequency regime. <i>Computers and Mathematics With Applications</i> , 2015, 70, 679-690.	2.7	60
36	Solutions of 2D and 3D non-homogeneous potential problems by using a boundary element-collocation method. <i>Engineering Analysis With Boundary Elements</i> , 2015, 60, 2-9.	3.7	14

#	ARTICLE	IF	CITATIONS
37	Fast multipole singular boundary method for large-scale plane elasticity problems. Acta Mechanica Solida Sinica, 2015, 28, 626-638.	1.9	4
38	Solution of Two-Dimensional Stokes Flow Problems Using Improved Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2015, 7, 13-30.	1.2	71
39	Two general algorithms for nearly singular integrals in two dimensional anisotropic boundary element method. Computational Mechanics, 2014, 53, 1223-1234.	4.0	19
40	A NONSINGULAR BOUNDARY ELEMENT METHOD FOR THE TORSION PROBLEM OF THE ANISOTROPIC UNIFORM BAR. International Journal of Computational Methods, 2012, 09, 1240020.	1.3	0