

# Yumin Cheng

## List of Publications by Year in descending order

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83  
papers

4,120  
citations

61857

43  
h-index

123241

61  
g-index

83  
all docs

83  
docs citations

83  
times ranked

562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boundary element-free method (BEFM) and its application to two-dimensional elasticity problems. <i>International Journal for Numerical Methods in Engineering</i> , 2006, 65, 1310-1332.	1.5	157
2	A boundary element-free method (BEFM) for two-dimensional potential problems. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 77-82.	2.0	119
3	The complex variable element-free Galerkin (CVEFG) method for elasto-plasticity problems. <i>Engineering Structures</i> , 2011, 33, 127-135.	2.6	115
4	Boundary element-free method for elastodynamics. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2005, 48, 641.	0.2	111
5	Analyzing 2D fracture problems with the improved element-free Galerkin method. <i>Engineering Analysis With Boundary Elements</i> , 2008, 32, 241-250.	2.0	111
6	The interpolating element-free Galerkin (IEFG) method for two-dimensional potential problems. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 873-880.	2.0	110
7	Enriched meshless manifold method for two-dimensional crack modeling. <i>Theoretical and Applied Fracture Mechanics</i> , 2005, 44, 234-248.	2.1	98
8	The improved element-free Galerkin method for two-dimensional elastodynamics problems. <i>Engineering Analysis With Boundary Elements</i> , 2013, 37, 1576-1584.	2.0	98
9	The improved element-free Galerkin method for three-dimensional wave equation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 808-818.	1.5	97
10	Boundary element-free method (BEFM) for two-dimensional elastodynamic analysis using Laplace transform. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 64, 1610-1627.	1.5	93
11	A Meshless Method Based on the Nonsingular Weight Functions for Elastoplastic Large Deformation Problems. <i>International Journal of Applied Mechanics</i> , 2019, 11, 1950006.	1.3	87
12	A complex variable meshless method for fracture problems. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2006, 49, 46-59.	0.2	86
13	Error estimates for the finite point method. <i>Applied Numerical Mathematics</i> , 2008, 58, 884-898.	1.2	84
14	The improved element-free Galerkin method for three-dimensional transient heat conduction problems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 1568-1580.	2.0	84
15	THE INTERPOLATING ELEMENT-FREE GALERKIN (IEFG) METHOD FOR TWO-DIMENSIONAL ELASTICITY PROBLEMS. <i>International Journal of Applied Mechanics</i> , 2011, 03, 735-758.	1.3	81
16	The Improved Element-Free Galerkin Method Based on the Nonsingular Weight Functions for Inhomogeneous Swelling of Polymer Gels. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850047.	1.3	81
17	Complex variable moving least-squares method: a meshless approximation technique. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 70, 46-70.	1.5	79
18	THE COMPLEX VARIABLE ELEMENT-FREE GALERKIN (CVEFG) METHOD FOR TWO-DIMENSIONAL ELASTICITY PROBLEMS. <i>International Journal of Applied Mechanics</i> , 2009, 01, 367-385.	1.3	79

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19	A novel interpolating element-free Galerkin (IEFG) method for two-dimensional elastoplasticity. Applied Mathematical Modelling, 2014, 38, 5187-5197.	2.2	76
20	The dimension splitting and improved complex variable element-free Galerkin method for three-dimensional transient heat conduction problems. International Journal for Numerical Methods in Engineering, 2018, 114, 321-345.	1.5	75
21	THE COMPLEX VARIABLE ELEMENT-FREE GALERKIN (CVEFG) METHOD FOR TWO-DIMENSIONAL ELASTODYNAMICS PROBLEMS. International Journal of Applied Mechanics, 2012, 04, 1250042.	1.3	69
22	Analyzing three-dimensional viscoelasticity problems via the improved element-free Galerkin (IEFG) method. Engineering Analysis With Boundary Elements, 2014, 40, 104-113.	2.0	69
23	An interpolating boundary element-free method (IBEFM) for elasticity problems. Science China: Physics, Mechanics and Astronomy, 2010, 53, 758-766.	2.0	68
24	A COMPLEX VARIABLE MESHLESS MANIFOLD METHOD FOR FRACTURE PROBLEMS. International Journal of Computational Methods, 2010, 07, 55-81.	0.8	66
25	The Interpolating Complex Variable Element-Free Galerkin Method for Temperature Field Problems. International Journal of Applied Mechanics, 2015, 07, 1550017.	1.3	66
26	Complex variable boundary element-free method for two-dimensional elastodynamic problems. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3925-3933.	3.4	65
27	AN INTERPOLATING BOUNDARY ELEMENT-FREE METHOD WITH NONSINGULAR WEIGHT FUNCTION FOR TWO-DIMENSIONAL POTENTIAL PROBLEMS. International Journal of Computational Methods, 2013, 10, 1350043.	0.8	64
28	Coupling of the improved element-free Galerkin and boundary element methods for two-dimensional elasticity problems. Engineering Analysis With Boundary Elements, 2008, 32, 100-107.	2.0	63
29	Error estimates for the interpolating moving least-squares method in n -dimensional space. Applied Numerical Mathematics, 2015, 98, 79-105.	1.2	61
30	The improved element-free Galerkin method for three-dimensional elastoplasticity problems. Engineering Analysis With Boundary Elements, 2019, 104, 215-224.	2.0	58
31	The hybrid element-free Galerkin method for three-dimensional wave propagation problems. International Journal for Numerical Methods in Engineering, 2019, 117, 15-37.	1.5	55
32	A boundary element-free method (BEFM) for three-dimensional elasticity problems. Computational Mechanics, 2005, 36, 13-20.	2.2	54
33	Analyzing the 2D fracture problems via the enriched boundary element-free method. International Journal of Solids and Structures, 2007, 44, 4220-4233.	1.3	54
34	AN IMPROVED LOCAL BOUNDARY INTEGRAL EQUATION METHOD FOR TWO-DIMENSIONAL POTENTIAL PROBLEMS. International Journal of Applied Mechanics, 2010, 02, 421-436.	1.3	54
35	A hybrid improved complex variable element-free Galerkin method for three-dimensional advection-diffusion problems. Engineering Analysis With Boundary Elements, 2018, 97, 39-54.	2.0	54
36	Error estimates for the interpolating moving least-squares method. Applied Mathematics and Computation, 2014, 245, 321-342.	1.4	53

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37	An improved complex variable element-free Galerkin method for two-dimensional large deformation elastoplasticity problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 269, 72-86.	3.4	52
38	An Improved Interpolating Element-Free Galerkin Method for Elastoplasticity via Nonsingular Weight Functions. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650096.	1.3	49
39	A Fast Complex Variable Element-Free Galerkin Method for Three-Dimensional Wave Propagation Problems. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750090.	1.3	49
40	A hybrid improved complex variable element-free Galerkin method for three-dimensional potential problems. <i>Engineering Analysis With Boundary Elements</i> , 2017, 84, 52-62.	2.0	49
41	The hybrid complex variable element-free Galerkin method for 3D elasticity problems. <i>Engineering Structures</i> , 2020, 219, 110835.	2.6	49
42	The dimension splitting element-free Galerkin method for 3D transient heat conduction problems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	46
43	The complex variable reproducing kernel particle method for elasto-plasticity problems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 954-965.	2.0	45
44	The improved complex variable element-free Galerkin method for two-dimensional Schrödinger equation. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1093-1106.	1.4	45
45	The complex variable reproducing kernel particle method for the analysis of Kirchhoff plates. <i>Computational Mechanics</i> , 2015, 55, 591-602.	2.2	45
46	The dimension split element-free Galerkin method for three-dimensional potential problems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 462-474.	1.5	43
47	Analyzing elastoplastic large deformation problems with the complex variable element-free Galerkin method. <i>Computational Mechanics</i> , 2014, 53, 1149-1162.	2.2	41
48	The interpolating element-free Galerkin method for elastic large deformation problems. <i>Science China Technological Sciences</i> , 2021, 64, 364-374.	2.0	41
49	The interpolating element-free Galerkin method for three-dimensional elastoplasticity problems. <i>Engineering Analysis With Boundary Elements</i> , 2020, 115, 156-167.	2.0	39
50	The complex variable reproducing kernel particle method for bending problems of thin plates on elastic foundations. <i>Computational Mechanics</i> , 2018, 62, 67-80.	2.2	38
51	The dimension splitting reproducing kernel particle method for three-dimensional potential problems. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 146-164.	1.5	36
52	Reply to "Comments on "Boundary element-free method (BEFM) and its application to two-dimensional elasticity problems" by Zhigang Chen, <i>International Journal for Numerical Methods in Engineering</i> 2008; 74:347-348. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 78, 1258-1260.	1.5	33
53	A novel complex variable element-free Galerkin method for two-dimensional large deformation problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 233-236, 1-10.	3.4	33
54	The interpolating element-free Galerkin (IEFG) method for three-dimensional potential problems. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 115-123.	2.0	33

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55	The Improved Element-Free Galerkin Method for Diffusional Drug Release Problems. International Journal of Applied Mechanics, 2020, 12, 2050096.	1.3	31
56	The complex variable reproducing kernel particle method for two-dimensional inverse heat conduction problems. Engineering Analysis With Boundary Elements, 2014, 44, 36-44.	2.0	28
57	The Improved Complex Variable Element-Free Galerkin Method for Bending Problem of Thin Plate on Elastic Foundations. International Journal of Applied Mechanics, 2019, 11, 1950105.	1.3	28
58	The interpolating element-free Galerkin method for three-dimensional transient heat conduction problems. Results in Physics, 2020, 19, 103477.	2.0	28
59	Analyzing wave propagation problems with the improved complex variable element-free Galerkin method. Engineering Analysis With Boundary Elements, 2019, 100, 80-87.	2.0	27
60	Identifying Tmem59 related gene regulatory network of mouse neural stem cell from a compendium of expression profiles. BMC Systems Biology, 2011, 5, 152.	3.0	26
61	Analyzing nonlinear large deformation with an improved element-free Galerkin method via the interpolating moving least-squares method. International Journal of Computational Materials Science and Engineering, 2016, 05, 1650023.	0.5	25
62	Analyzing 3D advection-diffusion problems by using the dimension splitting element-free Galerkin method. Engineering Analysis With Boundary Elements, 2020, 111, 167-177.	2.0	24
63	The dimension splitting interpolating element-free Galerkin method for solving three-dimensional transient heat conduction problems. Engineering Analysis With Boundary Elements, 2021, 128, 326-341.	2.0	24
64	A Hybrid Reproducing Kernel Particle Method for Three-Dimensional Advection-Diffusion Problems. International Journal of Applied Mechanics, 2021, 13, .	1.3	22
65	AN INTERPOLATING LOCAL PETROV-GALERKIN METHOD FOR POTENTIAL PROBLEMS. International Journal of Applied Mechanics, 2014, 06, 1450009.	1.3	21
66	Analyzing three-dimensional transient heat conduction problems with the dimension splitting reproducing kernel particle method. Engineering Analysis With Boundary Elements, 2020, 121, 180-191.	2.0	21
67	The interpolating dimension splitting element-free Galerkin method for 3D potential problems. Engineering With Computers, 2022, 38, 2703-2717.	3.5	20
68	The improved element-free Galerkin method based on the nonsingular weight functions for elastic large deformation problems. International Journal of Computational Materials Science and Engineering, 2018, 07, 1850023.	0.5	19
69	A NEW ELEMENT-FREE GALERKIN METHOD BASED ON IMPROVED COMPLEX VARIABLE MOVING LEAST-SQUARES APPROXIMATION FOR ELASTICITY. International Journal of Computational Materials Science and Engineering, 2012, 01, 1250011.	0.5	17
70	Analyzing three-dimensional wave propagation with the hybrid reproducing kernel particle method based on the dimension splitting method. Engineering With Computers, 2022, 38, 1131-1147.	3.5	17
71	An Improved Interpolating Element-Free Galerkin Method Based on Nonsingular Weight Functions. Mathematical Problems in Engineering, 2014, 2014, 1-13.	0.6	14
72	Diffusion mechanism of platinum nanoclusters on well-aligned carbon nanotubes. RSC Advances, 2014, 4, 60711-60719.	1.7	14

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73	The complex variable element-free Galerkin (CVEFG) method for elastic large deformation problems. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2011, 41, 1003-1014.	0.2	13
74	A mathematical analysis of DNA damage induced G2 phase transition. <i>Applied Mathematics and Computation</i> , 2013, 225, 765-774.	1.4	11
75	Mathematical Aspects of Meshless Methods. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-4.	0.6	6
76	The coupling of complex variable-reproducing kernel particle method and finite element method for two-dimensional potential problems. <i>Interaction and Multiscale Mechanics</i> , 2010, 3, 277-298.	0.4	6
77	Mathematical modeling of p53 pulses in G2 phase with DNA damage. <i>Applied Mathematics and Computation</i> , 2014, 232, 1000-1010.	1.4	5
78	A mathematical study of the robustness of G2/M regulatory network in response to DNA damage with parameters sensitivity. <i>Applied Mathematics and Computation</i> , 2014, 232, 365-374.	1.4	5
79	The improved element-free Galerkin method for elastoplasticity large deformation problems. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2018, 48, 024701.	0.2	4
80	The Error Estimates of the Interpolating Element-Free Galerkin Method for Two-Point Boundary Value Problems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-12.	0.6	3
81	The improved complex variable element-free Galerkin method for the analysis of Kirchhoff plates. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2017, 47, 094601.	0.2	1
82	THE COMPLEX VARIABLE ELEMENT-FREE GALERKIN METHOD FOR NONLINEAR PROBLEMS. , 2015, , 9-10.		0
83	Preface to the Special Issue on "Numerical Computation, Data Analysis and Software in Mathematics and Engineering". <i>Mathematics</i> , 2022, 10, 2267.	1.1	0