Chi King Lee

List of Publications by Year
in descending order

138 papers	3,022 citations	186209 28 h-index	223716 46 g-index
140 all docs	140 docs citations	140 times ranked	1306 citing authors

#	Article	IF	Citations
1	Mechanical behaviour of a polyvinyl alcohol fibre reinforced engineered cementitious composite (PVA-ECC) using local ingredients. Construction and Building Materials, 2017, 141, 259-270.	3.2	188
2	Mechanical properties of heat-treated high strength steel under fire/post-fire conditions. Journal of Constructional Steel Research, 2014, 98, 12-19.	1.7	187
3	Local multiquadric approximation for solving boundary value problems. Computational Mechanics, 2003, 30, 396-409.	2.2	164
4	A new scheme for the generation of a graded quadrilateral mesh. Computers and Structures, 1994, 52, 847-857.	2.4	114
5	Experimental studies of 3D RC substructures under exterior and corner column removal scenarios. Engineering Structures, 2017, 150, 409-427.	2.6	65
6	Tensile behavior of high performance structural steel T-stub joints. Journal of Constructional Steel Research, 2016, 122, 316-325.	1.7	63
7	Flexural and shear behaviours of plain and reinforced polyvinyl alcohol-engineered cementitious composite beams. Engineering Structures, 2017, 151, 261-272.	2.6	58
8	Fatigue Performance of Cracked Tubular T Joints under Combined Loads. I: Experimental. Journal of Structural Engineering, 2004, 130, 562-571.	1.7	51
9	Post weld heat treatment for high strength steel welded connections. Journal of Constructional Steel Research, 2016, 122, 167-177.	1.7	50
10	On error estimation and adaptive refinement for element free Galerkin method. Computers and Structures, 2004, 82, 413-428.	2.4	49
11	Modelling and mesh generation of weld profile in tubular Y-joint. Journal of Constructional Steel Research, 2001, 57, 547-567.	1.7	47
12	Finite element solution for the continuum traffic equilibrium problems. , 1998, 43, 1253-1273.		45
13	Effects of rotational capacity and horizontal restraint on development of catenary action in 2-D RC frames. Engineering Structures, 2017, 153, 613-627.	2.6	45
14	Residual stress study of welded high strength steel thin-walled plate-to-plate joints, Part 1: Experimental study. Thin-Walled Structures, 2012, 56, 103-112.	2.7	44
15	Flexural behaviour of steel composite beams encased by engineered cementitious composites. Journal of Constructional Steel Research, 2018, 143, 279-290.	1.7	42
16	An automatic adaptive refinement finite element procedure for 2D elastostatic analysis. International Journal for Numerical Methods in Engineering, 1992, 35, 1967-1989.	1.5	41
17	Bond failure of steel beams strengthened with FRP laminates â€" Part 2: Verification. Composites Part B: Engineering, 2011, 42, 1122-1134.	5.9	39
18	On error estimation and adaptive refinement for element free Galerkin method. Computers and Structures, 2004, 82, 429-443.	2.4	38

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19	Flexural and bond-slip behaviours of engineered cementitious composites encased steel composite beams. Journal of Constructional Steel Research, 2019, 157, 229-244.	1.7	38
20	Generation of quadrilateral mesh over analytical curved surfaces. Finite Elements in Analysis and Design, 1997, 27, 251-272.	1.7	35
21	Fatigue behaviors of square-to-square hollow section T-joint with corner crack. I: Experimental studies. Engineering Fracture Mechanics, 2007, 74, 703-720.	2.0	35
22	Residual stress study of welded high strength steel thin-walled plate-to-plate joints part 2: Numerical modeling. Thin-Walled Structures, 2012, 59, 120-131.	2.7	35
23	Numerical models verification of cracked tubular T, Y and K-joints under combined loads. Engineering Fracture Mechanics, 2005, 72, 983-1009.	2.0	34
24	Bond failure of steel beams strengthened with FRP laminates â€" Part 1: Model development. Composites Part B: Engineering, 2011, 42, 1114-1121.	5.9	34
25	Damage assessment for reinforced concrete frames subject to progressive collapse. Engineering Structures, 2017, 149, 147-160.	2.6	34
26	Automatic Adaptive Finite Element Mesh Generation Over Rational B-spline Surfaces. Computers and Structures, 1998, 69, 577-608.	2.4	33
27	On using meshes of mixed element types in adaptive finite element analysis. Finite Elements in Analysis and Design, 1992, 11, 307-336.	1.7	31
28	Automatic metric advancing front triangulation over curved surfaces. Engineering Computations, 2000, 17, 48-74.	0.7	31
29	Automatic adaptive finite element mesh generation over arbitrary two-dimensional domain using advancing front technique. Computers and Structures, 1999, 71, 9-34.	2.4	30
30	Numerical modelling of engineered cementitious composites-concrete encased steel composite columns. Journal of Constructional Steel Research, 2020, 170, 106082.	1.7	30
31	Model and mesh generation of cracked tubular Y-joints. Engineering Fracture Mechanics, 2003, 70, 161-184.	2.0	29
32	Compressive performance of ECC-concrete encased high strength steel composite columns. Engineering Structures, 2020, 213, 110567.	2.6	27
33	Impact of welding on the strength of high performance steel T-stub joints. Journal of Constructional Steel Research, 2017, 131, 110-121.	1.7	26
34	Effect of welding and heat treatment on strength of high-strength steel columns. Journal of Constructional Steel Research, 2018, 151, 238-252.	1.7	26
35	Performance of fibre-reinforced cementitious composites at elevated temperatures: A review. Construction and Building Materials, 2021, 292, 123382.	3.2	26
36	Automatic adaptive mesh generation using metric advancing front approach. Engineering Computations, 1999, 16, 230-263.	0.7	25

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37	Enriched partition-of-unity finite element method for stress intensity factors at crack tips. Computers and Structures, 2004, 82, 445-461.	2.4	25
38	Mesh modelling and analysis of cracked uni-planar tubular K-joints. Journal of Constructional Steel Research, 2005, 61, 235-264.	1.7	25
39	A numerical study on residual stress of high strength steel box column. Journal of Constructional Steel Research, 2017, 128, 440-450.	1.7	25
40	Compressive behaviour of engineered cementitious composites and concrete encased steel composite columns. Journal of Constructional Steel Research, 2020, 167, 105967.	1.7	25
41	Solving crack problems by an adaptive refinement procedure. Engineering Fracture Mechanics, 1992, 43, 147-163.	2.0	24
42	Stress intensity factors for a surface crack in a tubular T-joint. International Journal of Pressure Vessels and Piping, 2001, 78, 677-685.	1.2	24
43	Effects of Welding on the Tensile Performance of High Strength Steel T-stub Joints. Structures, 2017, 9, 70-78.	1.7	24
44	Residual stress of high strength steel box T-joints. Journal of Constructional Steel Research, 2014, 93, 20-31.	1.7	23
45	An experimental study on residual stresses of high strength steel box columns. Journal of Constructional Steel Research, 2017, 130, 12-21.	1.7	23
46	Automatic adaptive refinement finite element procedure for 3D stress analysis. Finite Elements in Analysis and Design, 1997, 25, 135-166.	1.7	22
47	Automatic metric 3D surface mesh generation using subdivision surface geometrical model. Part 2: Mesh generation algorithm and examples. International Journal for Numerical Methods in Engineering, 2003, 56, 1615-1646.	1.5	21
48	Static Strength of Cracked Square Hollow Section T Joints under Axial Loads. I: Experimental. Journal of Structural Engineering, 2006, 132, 368-377.	1.7	21
49	Residual stress and stress concentration effect of high strength steel built-up box T-joints. Journal of Constructional Steel Research, 2015, 105, 164-173.	1.7	21
50	Flexural behaviour of ECC-LWC encased slender high strength steel composite beams. Journal of Constructional Steel Research, 2020, 173, 106253.	1.7	21
51	Automatic adaptive refinement for plate bending problems using Reissner-Mindlin plate bending elements. International Journal for Numerical Methods in Engineering, 1998, 41, 1-63.	1.5	20
52	Shear lag analysis by the adaptive finite element method. Thin-Walled Structures, 2000, 38, 285-309.	2.7	20
53	Automatic metric 3D surface mesh generation using subdivision surface geometrical model. Part 1: Construction of underlying geometrical model. International Journal for Numerical Methods in Engineering, 2003, 56, 1593-1614.	1.5	20
54	A new generalized Drucker–Prager flow rule for concrete under compression. Engineering Structures, 2013, 56, 2076-2082.	2.6	20

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55	Generation of gradation meshes by the background grid technique. Computers and Structures, 1994, 50, 21-32.	2.4	19
56	Automatic adaptive refinement for shell analysis using nine-node assumed strain element. International Journal for Numerical Methods in Engineering, 1997, 40, 3601-3638.	1.5	19
57	A new indirect anisotropic quadrilateral mesh generation scheme with enhanced local mesh smoothing procedures. International Journal for Numerical Methods in Engineering, 2003, 58, 277-300.	1.5	19
58	Experimental study on crack bridging in engineered cementitious composites under fatigue tensile loading. Construction and Building Materials, 2017, 154, 167-175.	3.2	19
59	Engineered cementitious composites (ECC) encased concrete-steel composite stub columns under concentric compression. Structures, 2020, 24, 386-399.	1.7	19
60	Modelling of Two Dimensional Reinforced Concrete Beam-Column Joints Subjected to Monotonic Loading. Advances in Structural Engineering, 2015, 18, 1461-1474.	1.2	18
61	Modeling progressive collapse of 2D reinforced concrete frames subject to column removal scenario. Engineering Structures, 2017, 141, 126-143.	2.6	18
62	Modeling of Combined Impact and Blast Loading on Reinforced Concrete Slabs. Latin American Journal of Solids and Structures, 2016, 13, 2266-2282.	0.6	17
63	Residual stress distribution of roller bending of steel rectangular structural hollow sections. Journal of Constructional Steel Research, 2016, 119, 85-97.	1.7	17
64	A simplified model for alternate load path assessment in RC structures. Engineering Structures, 2018, 171, 696-711.	2.6	17
65	Automatic generation of anisotropic quadrilateral meshes on three-dimensional surfaces using metric specifications. International Journal for Numerical Methods in Engineering, 2002, 53, 2673-2700.	1.5	16
66	Fatigue Performance of Cracked Tubular T Joints under Combined Loads. II: Numerical. Journal of Structural Engineering, 2004, 130, 572-581.	1.7	16
67	Fatigue behaviors of square-to-square hollow section T-joint with corner crack. II: Numerical modeling. Engineering Fracture Mechanics, 2007, 74, 721-738.	2.0	16
68	Residual stress of high strength steel box T-joints Part 2: Numerical study. Journal of Constructional Steel Research, 2014, 98, 73-87.	1.7	16
69	Comparison of fatigue performances of gapped and partially overlapped CHS -joints. Engineering Structures, 2011, 33, 44-52.	2.6	15
70	On using different recovery procedures for the construction of smoothed stress in finite element method. International Journal for Numerical Methods in Engineering, 1998, 43, 1223-1252.	1.5	14
71	Validation of surface crack stress intensity factors of a tubular K-joint. International Journal of Pressure Vessels and Piping, 2005, 82, 610-617.	1.2	14
72	Static Strength of Cracked Square Hollow Section T Joints under Axial Loads. II: Numerical. Journal of Structural Engineering, 2006, 132, 378-386.	1.7	14

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73	An automatic adaptive refinement procedure for the reproducing kernel particle method. Part II: Adaptive refinement. Computational Mechanics, 2007, 40, 415-427.	2.2	14
74	Compressive behaviour of ECC confined concrete partially encased steel composite columns using high strength steel. Construction and Building Materials, 2020, 265, 120783.	3.2	14
75	A full 3D finite element analysis using adaptive refinement and PCG solver with back interpolation. Computer Methods in Applied Mechanics and Engineering, 1999, 170, 39-64.	3.4	13
76	3D residual stress modelling of welded high strength steel plate-to-plate joints. Journal of Constructional Steel Research, 2013, 84, 94-104.	1.7	13
77	Adaptive mesh generation procedures for thin-walled tubular structures. Finite Elements in Analysis and Design, 2010, 46, 114-131.	1.7	12
78	A study on the ricochet of concrete debris on sand. International Journal of Impact Engineering, 2014, 65, 56-68.	2.4	12
79	Fatigue performance of high strength steel built-up box T-joints. Journal of Constructional Steel Research, 2015, 106, 296-310.	1.7	12
80	Flexural fatigue behaviour of steel reinforced PVA-ECC beams. Construction and Building Materials, 2019, 221, 384-398.	3.2	12
81	Behaviour of engineered cementitious composite-encased stub concrete columns under axial compression. Magazine of Concrete Research, 2020, 72, 984-1005.	0.9	12
82	Multi-response optimization of hybrid fibre engineered cementitious composite using Grey-Taguchi method and utility concept. Construction and Building Materials, 2022, 319, 126040.	3.2	12
83	On using degenerated solid shell elements in adaptive refinement analysis. International Journal for Numerical Methods in Engineering, 1999, 45, 627-659.	1.5	11
84	A new automatic adaptive 3D solid mesh generation scheme for thin-walled structures. International Journal for Numerical Methods in Engineering, 2005, 62, 1519-1558.	1.5	11
85	A two-dimensional co-rotational Timoshenko beam element with XFEM formulation. Computational Mechanics, 2012, 49, 667-683.	2.2	11
86	Strength enhancement of high strength steel beams by engineered cementitious composites encasement. Engineering Structures, 2020, 207, 110288.	2.6	11
87	Closed form stiffness matrix solutions for some commonly used hybrid finite elements. Computers and Structures, 1998, 67, 463-482.	2.4	10
88	An automatic adaptive refinement procedure for the reproducing kernel particle method. Part I: Stress recovery and a posteriori error estimation. Computational Mechanics, 2007, 40, 399-413.	2.2	10
89	Fatigue study of partially overlapped circular hollow section K-joints. Part 1: Geometrical models and mesh generation. Engineering Fracture Mechanics, 2009, 76, 2445-2463.	2.0	10
90	An automatic adaptive refinement procedure using triangular and quadrilateral meshes. Engineering Fracture Mechanics, 1995, 50, 671-686.	2.0	9

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91	On using enriched cover function in the Partition-of-unity method for singular boundary-value problems. Computational Mechanics, 2002, 29, 212-225.	2.2	9
92	Fatigue study of partially overlapped circular hollow section K-joints. Engineering Fracture Mechanics, 2009, 76, 2408-2428.	2.0	9
93	Adaptive superelement modeling for progressive collapse analysis of reinforced concrete frames. Engineering Structures, 2017, 151, 136-152.	2.6	9
94	Response mechanisms of reinforced concrete panels to the combined effect of close-in blast and fragments: An integrated experimental and numerical analysis. International Journal of Protective Structures, 2021, 12, 49-72.	1.4	9
95	Bond Stress-Slip Prediction under Pullout and Dowel Action in Reinforced Concrete Joints. ACI Structural Journal, 2014, 111, .	0.3	9
96	On using different finite elements with an automatic adaptive refinement procedure for the solution of 2-D stress analysis problems. International Journal for Numerical Methods in Engineering, 1997, 40, 4547-4576.	1.5	8
97	An XFEM plate element for high gradient zones resulted from yield lines. International Journal for Numerical Methods in Engineering, 2013, 93, 1314-1344.	1.5	8
98	A Study on the Ricochet of Concrete Debris Against Soil. International Journal of Computational Methods, 2015, 12, 1540009.	0.8	8
99	Numerical investigation of high-strength built-up box columns. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 653-663.	0.4	8
100	Use of maturity method to estimate early age compressive strength of slab in cold weather. Structural Concrete, 2022, 23, 1176-1190.	1.5	8
101	Experimental investigation of flexural behaviours of hybrid engineered cementitious composite beams under static and fatigue loading. Engineering Structures, 2022, 262, 114369.	2.6	8
102	Advanced Numerical Modeling of Cracked Tubular K Joints: BEM and FEM Comparison. Journal of Bridge Engineering, 2012, 17, 432-442.	1.4	7
103	Numerical simulation of reinforced concrete beam/column failure considering normal-shear stress interaction. Engineering Structures, 2014, 74, 32-43.	2.6	7
104	Validation of a flight model for predicting debris trajectory from the explosion of an ammunition storage magazine. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 136, 114-126.	1.7	7
105	On constructing accurate recovered stress fields for the finite element solution of Reissner-Mindlin plate bending problems. Computer Methods in Applied Mechanics and Engineering, 1998, 160, 175-191.	3.4	6
106	An XFEM frame for plate elements in yield line analyses. International Journal for Numerical Methods in Engineering, 2013, 96, 150-175.	1.5	6
107	Polyethylene-steel fibre engineered cementitious composites for bridge link slab application. Structures, 2021, 32, 1763-1776.	1.7	6
108	Selective regional refinement procedure for adaptive finite element analysis. Computers and Structures, 1998, 68, 325-341.	2.4	5

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109	Shear lag analysis by the adaptive finite element method. Thin-Walled Structures, 2000, 38, 311-336.	2.7	5
110	On increasing the order and density of 3D finite element meshes. Communications in Numerical Methods in Engineering, 2001, 17, 55-68.	1.3	5
111	Stress Intensity Factor Solutions for Semi-Elliptical Weld-Toe Cracks in Tubular K-Joints. Advances in Structural Engineering, 2006, 9, 129-139.	1.2	5
112	08.50: A study on the bond stress–slip behavior between engineered cementitious composites and structural steel sections. Ce/Papers, 2017, 1, 2247-2256.	0.1	5
113	Experimental Study of Welding Effect on S690Q High Strength Steel Butt Joints. Ce/Papers, 2019, 3, 701-706.	0.1	5
114	Improved strut-and-tie method for 2D RC beam-column joints under monotonic loading. Computers and Concrete, 2015, 15, 807-831.	0.7	5
115	On solving nearly incompressible 2D problems using an adaptive refinement procedure. Communications in Numerical Methods in Engineering, 1998, 14, 409-418.	1.3	4
116	On coupling of reproducing kernel particle method and boundary element method. Computational Mechanics, 2004, 34, 282.	2.2	4
117	A consistent crack modelling and analysis of rectangular hollow section joints. Finite Elements in Analysis and Design, 2006, 42, 639-649.	1.7	4
118	Automatic adaptive FE analysis of thin–walled structures using 3D solid elements. International Journal for Numerical Methods in Engineering, 2008, 76, 183-229.	1.5	4
119	An enriched 6-node MITC plate element for yield line analysis. Computers and Structures, 2013, 128, 64-76.	2.4	4
120	Stress concentration factor prediction by the multi-dimensional Lagrangian interpolation method. Engineering Fracture Mechanics, 2011, 78, 1008-1028.	2.0	3
121	A 3D co-rotational beam element for steel and RC framed structures. Structural Engineering and Mechanics, 2013, 48, 587-613.	1.0	3
122	Analytical Model on the Bond Stress-Slip Relationship between Steel Reinforcement and Concrete for RC Beam-Column Joints. Applied Mechanics and Materials, 2013, 275-277, 1212-1218.	0.2	2
123	Simulation of fracture/breakup of concrete magazine using cohesive element. Materialwissenschaft Und Werkstofftechnik, 2014, 45, .	0.5	2
124	Impact of Structural Eurocodes on steel and composite structures. IES Journal Part A: Civil and Structural Engineering, 2014, 7, 1-10.	0.4	2
125	Numerical and analytical investigations of flexural behaviours of ECC–LWC encased steel beams. Engineering Structures, 2021, 239, 112356.	2.6	2
126	A superelement formulation for efficient structural analysis in progressive collapse. Structural Engineering and Mechanics, 2013, 48, 309-331.	1.0	2

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127	EXPERIMENTAL STUDIES ON STRESS CONCENTRATION FACTORS FOR PARTIALLY OVERLAPPED CIRCULAR HOLLOW SECTION K-JOINTS. , 2009, , 481-499.		2
128	Development of analytical model for predicting compressive behavior of engineered cementitious composites<scp>â€concrete</scp> encased steel composite columns. Structural Concrete, 2022, 23, 2576-2599.	1.5	2
129	Structural behavior of reinforced polyvinyl alcohol engineered cementitious composite (PVA-ECC) beams under static and fatigue loadings. , 2022, , 161-208.		2
130	On solving singular interface problems using the enriched partitionâ€ofâ€unity finite element methods. Engineering Computations, 2003, 20, 998-1022.	0.7	1
131	An efficient modified flanges only method for plate girder bending resistance calculation. Journal of Constructional Steel Research, 2013, 89, 98-106.	1.7	1
132	Finite element analysis of engineered cementitious composite (ECC) slabs. , 2022, , 413-435.		1
133	A study on the locally high-gradient displacement field resulted from plastic hinges in steel beams. Advances in Structural Engineering, 2019, 22, 2345-2358.	1.2	0
134	THE ULTIMATE BEHAVIOUR OF CRACKED SQUARE HOLLOW SECTION T-JOINTS. , 2007, , 443-458.		0
135	STRESS ANALYSIS AND FATIGUE TEST ON PARTIALLY OVERLAPPED CHS K-JOINTS. , 2008, , 134-146.		0
136	Finite element analysis of engineered cementitious composite (ECC) encased steel composite beams subjected to bending. , 2022, , 471-500.		0
137	Enhancement on the flexural behavior of engineered cementitious composite (ECC) encased steel composite beams. , 2022, , 209-247.		0
138	A Co-Rotation Shell Element with Material Nonlinearities. , 0, , .		0