Chi King Lee

List of Publications by Year
in descending order

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138	3,022	186209	223716
papers	citations	28 h-index	46 g-index

140	140	140	1306
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Use of maturity method to estimate early age compressive strength of slab in cold weather. Structural Concrete, 2022, 23, 1176-1190.	1.5	8
2	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
3	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
4	Finite element analysis of engineered cementitious composite (ECC) encased steel composite beams subjected to bending. , 2022, , 471-500.		0
5	Enhancement on the flexural behavior of engineered cementitious composite (ECC) encased steel composite beams. , 2022, , 209-247.		0
6	Finite element analysis of engineered cementitious composite (ECC) slabs. , 2022, , 413-435.		1
7	Structural behavior of reinforced polyvinyl alcohol engineered cementitious composite (PVA-ECC) beams under static and fatigue loadings. , 2022, , 161-208.		2
8	Experimental investigation of flexural behaviours of hybrid engineered cementitious composite beams under static and fatigue loading. Engineering Structures, 2022, 262, 114369.	2.6	8
9	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
10	Numerical and analytical investigations of flexural behaviours of ECCâ€“LWC encased steel beams. Engineering Structures, 2021, 239, 112356.	2.6	2
11	Performance of fibre-reinforced cementitious composites at elevated temperatures: A review. Construction and Building Materials, 2021, 292, 123382.	3.2	26
12	Polyethylene-steel fibre engineered cementitious composites for bridge link slab application. Structures, 2021, 32, 1763-1776.	1.7	6
13	Behaviour of engineered cementitious composite-encased stub concrete columns under axial compression. Magazine of Concrete Research, 2020, 72, 984-1005.	0.9	12
14	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
15	Flexural behaviour of ECC-LWC encased slender high strength steel composite beams. Journal of Constructional Steel Research, 2020, 173, 106253.	1.7	21
16	Strength enhancement of high strength steel beams by engineered cementitious composites encasement. Engineering Structures, 2020, 207, 110288.	2.6	11
17	Compressive behaviour of engineered cementitious composites and concrete encased steel composite columns. Journal of Constructional Steel Research, 2020, 167, 105967.	1.7	25
18	Numerical modelling of engineered cementitious composites-concrete encased steel composite columns. Journal of Constructional Steel Research, 2020, 170, 106082.	1.7	30

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19	Compressive performance of ECC-concrete encased high strength steel composite columns. Engineering Structures, 2020, 213, 110567.	2.6	27
20	Engineered cementitious composites (ECC) encased concrete-steel composite stub columns under concentric compression. Structures, 2020, 24, 386-399.	1.7	19
21	Flexural fatigue behaviour of steel reinforced PVA-ECC beams. Construction and Building Materials, 2019, 221, 384-398.	3.2	12
22	Experimental Study of Welding Effect on S690Q High Strength Steel Butt Joints. Ce/Papers, 2019, 3, 701-706.	0.1	5
23	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
24	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
25	Flexural behaviour of steel composite beams encased by engineered cementitious composites. Journal of Constructional Steel Research, 2018, 143, 279-290.	1.7	42
26	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
27	A simplified model for alternate load path assessment in RC structures. Engineering Structures, 2018, 171, 696-711.	2.6	17
28	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
29	Modeling progressive collapse of 2D reinforced concrete frames subject to column removal scenario. Engineering Structures, 2017, 141, 126-143.	2.6	18
30	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
31	An experimental study on residual stresses of high strength steel box columns. Journal of Constructional Steel Research, 2017, 130, 12-21.	1.7	23
32	08.50: A study on the bond stressâ€slip behavior between engineered cementitious composites and structural steel sections. Ce/Papers, 2017, 1, 2247-2256.	0.1	5
33	Adaptive superelement modeling for progressive collapse analysis of reinforced concrete frames. Engineering Structures, 2017, 151, 136-152.	2.6	9
34	Flexural and shear behaviours of plain and reinforced polyvinyl alcohol-engineered cementitious composite beams. Engineering Structures, 2017, 151, 261-272.	2.6	58
35	Experimental studies of 3D RC substructures under exterior and corner column removal scenarios. Engineering Structures, 2017, 150, 409-427.	2.6	65
36	Experimental study on crack bridging in engineered cementitious composites under fatigue tensile loading. Construction and Building Materials, 2017, 154, 167-175.	3.2	19

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37	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
38	Damage assessment for reinforced concrete frames subject to progressive collapse. Engineering Structures, 2017, 149, 147-160.	2.6	34
39	Effects of Welding on the Tensile Performance of High Strength Steel T-stub Joints. Structures, 2017, 9, 70-78.	1.7	24
40	A numerical study on residual stress of high strength steel box column. Journal of Constructional Steel Research, 2017, 128, 440-450.	1.7	25
41	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
42	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
43	Tensile behavior of high performance structural steel T-stub joints. Journal of Constructional Steel Research, 2016, 122, 316-325.	1.7	63
44	Residual stress distribution of roller bending of steel rectangular structural hollow sections. Journal of Constructional Steel Research, 2016, 119, 85-97.	1.7	17
45	Post weld heat treatment for high strength steel welded connections. Journal of Constructional Steel Research, 2016, 122, 167-177.	1.7	50
46	Modelling of Two Dimensional Reinforced Concrete Beam-Column Joints Subjected to Monotonic Loading. Advances in Structural Engineering, 2015, 18, 1461-1474.	1.2	18
47	A Study on the Ricochet of Concrete Debris Against Soil. International Journal of Computational Methods, 2015, 12, 1540009.	0.8	8
48	Fatigue performance of high strength steel built-up box T-joints. Journal of Constructional Steel Research, 2015, 106, 296-310.	1.7	12
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	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
51	Improved strut-and-tie method for 2D RC beam-column joints under monotonic loading. Computers and Concrete, 2015, 15, 807-831.	0.7	5
52	Simulation of fracture/breakup of concrete magazine using cohesive element. Materialwissenschaft Und Werkstofftechnik, 2014, 45, .	0.5	2
53	Impact of Structural Eurocodes on steel and composite structures. IES Journal Part A: Civil and Structural Engineering, 2014, 7, 1-10.	0.4	2
54	A study on the ricochet of concrete debris on sand. International Journal of Impact Engineering, 2014, 65, 56-68.	2.4	12

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55	Residual stress of high strength steel box T-joints. Journal of Constructional Steel Research, 2014, 93, 20-31.	1.7	23
56	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
57	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
58	Numerical simulation of reinforced concrete beam/column failure considering normal-shear stress interaction. Engineering Structures, 2014, 74, 32-43.	2.6	7
59	Bond Stress-Slip Prediction under Pullout and Dowel Action in Reinforced Concrete Joints. ACI Structural Journal, 2014, 111, .	0.3	9
60	A new generalized Druckerâ€“Prager flow rule for concrete under compression. Engineering Structures, 2013, 56, 2076-2082.	2.6	20
61	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
62	An XFEM frame for plate elements in yield line analyses. International Journal for Numerical Methods in Engineering, 2013, 96, 150-175.	1.5	6
63	An enriched 6-node MITC plate element for yield line analysis. Computers and Structures, 2013, 128, 64-76.	2.4	4
64	An efficient modified flanges only method for plate girder bending resistance calculation. Journal of Constructional Steel Research, 2013, 89, 98-106.	1.7	1
65	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
66	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
67	A superelement formulation for efficient structural analysis in progressive collapse. Structural Engineering and Mechanics, 2013, 48, 309-331.	1.0	2
68	A 3D co-rotational beam element for steel and RC framed structures. Structural Engineering and Mechanics, 2013, 48, 587-613.	1.0	3
69	Advanced Numerical Modeling of Cracked Tubular K Joints: BEM and FEM Comparison. Journal of Bridge Engineering, 2012, 17, 432-442.	1.4	7
70	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
71	A two-dimensional co-rotational Timoshenko beam element with XFEM formulation. Computational Mechanics, 2012, 49, 667-683.	2.2	11
72	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

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73	Comparison of fatigue performances of gapped and partially overlapped CHS -joints. Engineering Structures, 2011, 33, 44-52.	2.6	15
74	Stress concentration factor prediction by the multi-dimensional Lagrangian interpolation method. Engineering Fracture Mechanics, 2011, 78, 1008-1028.	2.0	3
75	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
76	Bond failure of steel beams strengthened with FRP laminates â€“ Part 2: Verification. Composites Part B: Engineering, 2011, 42, 1122-1134.	5.9	39
77	Adaptive mesh generation procedures for thin-walled tubular structures. Finite Elements in Analysis and Design, 2010, 46, 114-131.	1.7	12
78	Fatigue study of partially overlapped circular hollow section K-joints. Engineering Fracture Mechanics, 2009, 76, 2408-2428.	2.0	9
79	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
80	EXPERIMENTAL STUDIES ON STRESS CONCENTRATION FACTORS FOR PARTIALLY OVERLAPPED CIRCULAR HOLLOW SECTION K-JOINTS. , 2009, , 481-499.		2
81	Automatic adaptive FE analysis of thinâ€walled structures using 3D solid elements. International Journal for Numerical Methods in Engineering, 2008, 76, 183-229.	1.5	4
82	STRESS ANALYSIS AND FATIGUE TEST ON PARTIALLY OVERLAPPED CHS K-JOINTS. , 2008, , 134-146.		0
83	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
84	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
85	An automatic adaptive refinement procedure for the reproducing kernel particle method. Part II: Adaptive refinement. Computational Mechanics, 2007, 40, 415-427.	2.2	14
86	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
87	THE ULTIMATE BEHAVIOUR OF CRACKED SQUARE HOLLOW SECTION T-JOINTS. , 2007, , 443-458.		0
88	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
89	A consistent crack modelling and analysis of rectangular hollow section joints. Finite Elements in Analysis and Design, 2006, 42, 639-649.	1.7	4
90	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

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91	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
92	Mesh modelling and analysis of cracked uni-planar tubular K-joints. Journal of Constructional Steel Research, 2005, 61, 235-264.	1.7	25
93	Numerical models verification of cracked tubular T, Y and K-joints under combined loads. Engineering Fracture Mechanics, 2005, 72, 983-1009.	2.0	34
94	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
95	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
96	Fatigue Performance of Cracked Tubular T Joints under Combined Loads. II: Numerical. Journal of Structural Engineering, 2004, 130, 572-581.	1.7	16
97	On coupling of reproducing kernel particle method and boundary element method. Computational Mechanics, 2004, 34, 282.	2.2	4
98	Enriched partition-of-unity finite element method for stress intensity factors at crack tips. Computers and Structures, 2004, 82, 445-461.	2.4	25
99	On error estimation and adaptive refinement for element free Galerkin method. Computers and Structures, 2004, 82, 429-443.	2.4	38
100	On error estimation and adaptive refinement for element free Galerkin method. Computers and Structures, 2004, 82, 413-428.	2.4	49
101	Fatigue Performance of Cracked Tubular T Joints under Combined Loads. I: Experimental. Journal of Structural Engineering, 2004, 130, 562-571.	1.7	51
102	Local multiquadric approximation for solving boundary value problems. Computational Mechanics, 2003, 30, 396-409.	2.2	164
103	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
104	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
105	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
106	Model and mesh generation of cracked tubular Y-joints. Engineering Fracture Mechanics, 2003, 70, 161-184.	2.0	29
107	On solving singular interface problems using the enriched partitionâ€ofâ€unity finite element methods. Engineering Computations, 2003, 20, 998-1022.	0.7	1
108	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

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109	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
110	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
111	On increasing the order and density of 3D finite element meshes. Communications in Numerical Methods in Engineering, 2001, 17, 55-68.	1.3	5
112	Modelling and mesh generation of weld profile in tubular Y-joint. Journal of Constructional Steel Research, 2001, 57, 547-567.	1.7	47
113	Automatic metric advancing front triangulation over curved surfaces. Engineering Computations, 2000, 17, 48-74.	0.7	31
114	Shear lag analysis by the adaptive finite element method. Thin-Walled Structures, 2000, 38, 285-309.	2.7	20
115	Shear lag analysis by the adaptive finite element method. Thin-Walled Structures, 2000, 38, 311-336.	2.7	5
116	Automatic adaptive mesh generation using metric advancing front approach. Engineering Computations, 1999, 16, 230-263.	0.7	25
117	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
118	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
119	On using degenerated solid shell elements in adaptive refinement analysis. International Journal for Numerical Methods in Engineering, 1999, 45, 627-659.	1.5	11
120	Closed form stiffness matrix solutions for some commonly used hybrid finite elements. Computers and Structures, 1998, 67, 463-482.	2.4	10
121	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
122	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
123	Finite element solution for the continuum traffic equilibrium problems. , 1998, 43, 1253-1273.		45
124	On solving nearly incompressible 2D problems using an adaptive refinement procedure. Communications in Numerical Methods in Engineering, 1998, 14, 409-418.	1.3	4
125	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
126	Selective regional refinement procedure for adaptive finite element analysis. Computers and Structures, 1998, 68, 325-341.	2.4	5

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127	Automatic Adaptive Finite Element Mesh Generation Over Rational B-spline Surfaces. Computers and Structures, 1998, 69, 577-608.	2.4	33
128	Automatic adaptive refinement finite element procedure for 3D stress analysis. Finite Elements in Analysis and Design, 1997, 25, 135-166.	1.7	22
129	Generation of quadrilateral mesh over analytical curved surfaces. Finite Elements in Analysis and Design, 1997, 27, 251-272.	1.7	35
130	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
131	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
132	An automatic adaptive refinement procedure using triangular and quadrilateral meshes. Engineering Fracture Mechanics, 1995, 50, 671-686.	2.0	9
133	A new scheme for the generation of a graded quadrilateral mesh. Computers and Structures, 1994, 52, 847-857.	2.4	114
134	Generation of gradation meshes by the background grid technique. Computers and Structures, 1994, 50, 21-32.	2.4	19
135	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
136	Solving crack problems by an adaptive refinement procedure. Engineering Fracture Mechanics, 1992, 43, 147-163.	2.0	24
137	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
138	A Co-Rotation Shell Element with Material Nonlinearities. , 0, , .		0