

# Byung Chai Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

726  
citations

687220

13  
h-index

642610

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of cohesive parameters for a mixed-mode cohesive zone model. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 322-328.	1.4	117
2	Development of a simple and efficient method for robust optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 53, 2201-2215.	1.5	116
3	Reliability-based design optimization using convex linearization and sequential optimization and reliability assessment method. <i>Structural Safety</i> , 2011, 33, 42-50.	2.8	116
4	Reliability-based design optimization using a moment method and a kriging metamodel. <i>Engineering Optimization</i> , 2008, 40, 421-438.	1.5	71
5	Efficient evaluation of probabilistic constraints using an envelope function. <i>Engineering Optimization</i> , 2005, 37, 185-200.	1.5	57
6	Quadrilateral and triangular plane elements with rotational degrees of freedom based on the hybrid Trefftz method. <i>Finite Elements in Analysis and Design</i> , 2006, 42, 1002-1008.	1.7	34
7	A hybrid Trefftz plane elasticity element with drilling degrees of freedom. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 4095-4105.	3.4	31
8	New stress assumption for hybrid stress elements and refined four-node plane and eight-node brick elements. <i>International Journal for Numerical Methods in Engineering</i> , 1997, 40, 2933-2952.	1.5	27
9	A new hybrid-Trefftz triangular and quadrilateral plate elements. <i>Applied Mathematical Modelling</i> , 2010, 34, 14-23.	2.2	25
10	Reliability-based design optimization using a family of methods of moving asymptotes. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 255-268.	1.7	22
11	Analysis of partly corrugated rectangular diaphragms using the Rayleigh-Ritz method. <i>Journal of Microelectromechanical Systems</i> , 2000, 9, 399-406.	1.7	17
12	Simulation of adhesive joints using the superimposed finite element method and a cohesive zone model. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 357-362.	1.4	14
13	Effect of Surface Roughness on the Adhesive Strength of the Heat-Resistant Adhesive RTV88. <i>Journal of Adhesion Science and Technology</i> , 2009, 23, 1875-1882.	1.4	13
14	A simple and efficient method of analyzing mechanical behaviors of multi-layered orthotropic plates in rectangular shape. <i>Journal of Micromechanics and Microengineering</i> , 1999, 9, 385-393.	1.5	12
15	Reliability-based design optimization using convex approximations and sequential optimization and reliability assessment method. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 279-283.	0.7	12
16	An approximation technique for design sensitivity analysis of the critical load in non-linear structures. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 45, 1727-1736.	1.5	10
17	Surface reconstruction from FE mesh model. <i>Journal of Computational Design and Engineering</i> , 2019, 6, 197-208.	1.5	8
18	Analysis and Simulation of the Failure Characteristic of a Single Leg Bending Joint with a Micro-Patterned Surface. <i>Journal of Adhesion</i> , 2011, 87, 826-841.	1.8	7

#	ARTICLE	IF	CITATIONS
19	Improved moment-based quadrature rule and its application to reliability-based design optimization. Journal of Mechanical Science and Technology, 2007, 21, 1162-1171.	0.7	6
20	Development of an efficient algorithm for global optimization by simplex elimination. Engineering Optimization, 2003, 35, 607-625.	1.5	4
21	An effective finite rotation formulation for geometrical non-linear shell structures. Computational Mechanics, 2001, 27, 360-368.	2.2	3
22	hp-adaptive finite element method for linear elasticity using higher-order virtual node method. Journal of Mechanical Science and Technology, 2015, 29, 4299-4312.	0.7	3
23	Improvement of the performance of a tetrahedral element with rotational DOFs using strain smoothing techniques. Journal of Mechanical Science and Technology, 2012, 26, 1107-1114.	0.7	1