

Byung Chai Lee

List of Publications by Year in descending order

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23
papers

726
citations

687220

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642610

23
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23
all docs

23
docs citations

23
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface reconstruction from FE mesh model. Journal of Computational Design and Engineering, 2019, 6, 197-208.	1.5	8
2	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
3	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
4	Analysis and Simulation of the Failure Characteristic of a Single Leg Bending Joint with a Micro-Patterned Surface. Journal of Adhesion, 2011, 87, 826-841.	1.8	7
5	Simulation of adhesive joints using the superimposed finite element method and a cohesive zone model. International Journal of Adhesion and Adhesives, 2011, 31, 357-362.	1.4	14
6	Reliability-based design optimization using convex linearization and sequential optimization and reliability assessment method. Structural Safety, 2011, 33, 42-50.	2.8	116
7	Reliability-based design optimization using a family of methods of moving asymptotes. Structural and Multidisciplinary Optimization, 2010, 42, 255-268.	1.7	22
8	Reliability-based design optimization using convex approximations and sequential optimization and reliability assessment method. Journal of Mechanical Science and Technology, 2010, 24, 279-283.	0.7	12
9	A new hybrid-Trefftz triangular and quadrilateral plate elements. Applied Mathematical Modelling, 2010, 34, 14-23.	2.2	25
10	Determination of cohesive parameters for a mixed-mode cohesive zone model. International Journal of Adhesion and Adhesives, 2010, 30, 322-328.	1.4	117
11	Effect of Surface Roughness on the Adhesive Strength of the Heat-Resistant Adhesive RTV88. Journal of Adhesion Science and Technology, 2009, 23, 1875-1882.	1.4	13
12	Reliability-based design optimization using a moment method and a kriging metamodel. Engineering Optimization, 2008, 40, 421-438.	1.5	71
13	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
14	A hybrid Trefftz plane elasticity element with drilling degrees of freedom. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 4095-4105.	3.4	31
15	Quadrilateral and triangular plane elements with rotational degrees of freedom based on the hybrid Trefftz method. Finite Elements in Analysis and Design, 2006, 42, 1002-1008.	1.7	34
16	Efficient evaluation of probabilistic constraints using an envelope function. Engineering Optimization, 2005, 37, 185-200.	1.5	57
17	Development of an efficient algorithm for global optimization by simplex elimination. Engineering Optimization, 2003, 35, 607-625.	1.5	4
18	Development of a simple and efficient method for robust optimization. International Journal for Numerical Methods in Engineering, 2002, 53, 2201-2215.	1.5	116

#	ARTICLE	IF	CITATIONS
19	An effective finite rotation formulation for geometrical non-linear shell structures. Computational Mechanics, 2001, 27, 360-368.	2.2	3
20	Analysis of partly corrugated rectangular diaphragms using the Rayleigh-Ritz method. Journal of Microelectromechanical Systems, 2000, 9, 399-406.	1.7	17
21	A simple and efficient method of analyzing mechanical behaviors of multi-layered orthotropic plates in rectangular shape. Journal of Micromechanics and Microengineering, 1999, 9, 385-393.	1.5	12
22	An approximation technique for design sensitivity analysis of the critical load in non-linear structures. International Journal for Numerical Methods in Engineering, 1999, 45, 1727-1736.	1.5	10
23	New stress assumption for hybrid stress elements and refined four-node plane and eight-node brick elements. International Journal for Numerical Methods in Engineering, 1997, 40, 2933-2952.	1.5	27