

Chi-seung Lee

List of Publications by Year in descending order

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64
docs citations

64
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1018
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Mechanical Characteristics of Adjacent Segment after PLIF by Lordosis Angle of Lumbar Fusion Using Finite Element Method. Transactions of the Korean Society of Mechanical Engineers, B, 2022, 46, 1-9.	0.0	1
2	Fabrication of a Sagittal X-ray-based Spinal Finite Element Simplified Model and Validation of Its Reliability. Transactions of the Korean Society of Mechanical Engineers, B, 2022, 46, 195-203.	0.0	0
3	Evaluation for Strain Rate-Dependent Material Behavior of Cardiac Surgical Suture under Uniaxial Tension. Transactions of the Korean Society of Mechanical Engineers, B, 2021, 45, 91-98.	0.0	0
4	Postoperative Clinical Outcomes of Thoracoscopic Surgery under Local Anesthesia in Patients with Primary Spontaneous Pneumothorax. Applied Sciences (Switzerland), 2021, 11, 1468.	1.3	0
5	Comparative Study of Aortic Wall Stress According to Geometric Parameters in Abdominal Aortic Aneurysms. Applied Sciences (Switzerland), 2021, 11, 3195.	1.3	1
6	Numerical Evaluation of Spinal Stability after Posterior Spinal Fusion with Various Fixation Segments and Screw Types in Patients with Osteoporotic Thoracolumbar Burst Fracture Using Finite Element Analysis. Applied Sciences (Switzerland), 2021, 11, 3243.	1.3	5
7	Computational Investigation for Biomechanical Characteristics of Lumbar Spine with Various Porous Ti-6Al-4V Implant Systems. Applied Sciences (Switzerland), 2021, 11, 8023.	1.3	3
8	Simulation of Inferior Rectus Muscle Behavior in Patients with Hypertrophic Thyroid Eye Disease Using Computational Biomechanics. Transactions of the Korean Society of Mechanical Engineers, B, 2021, 45, 409-417.	0.0	0
9	Constitutive modeling, computational implementation and material parameter identification for polymeric foams considering density and foaming direction. Mechanics of Materials, 2021, 162, 104029.	1.7	5
10	Investigation of Biomechanical Behavior of Cervical Spine according to Types of Ossification of Posterior Longitudinal Ligament based on Finite Element Method. Transactions of the Korean Society of Mechanical Engineers, B, 2021, 45, 587-595.	0.0	1
11	Respiratory Simulation of Human Lungs based on Hyperelastic Constitutive Model and Its Clinical Validation. Transactions of the Korean Society of Mechanical Engineers, B, 2021, 45, 701-712.	0.0	0
12	Identification of Surgical Plan for Syndesmotic Fixation Procedure Based on Finite Element Method. Applied Sciences (Switzerland), 2020, 10, 4349.	1.3	9
13	Successful treatment of delayed esophageal perforation caused by air-blast trauma. Asian Journal of Surgery, 2020, 43, 1026-1028.	0.2	1
14	Constitutive-damage modeling and computational implementation for simulation of elasto-viscoplastic-damage behavior of polymeric foams over a wide range of strain rates and temperatures. International Journal of Plasticity, 2020, 130, 102712.	4.1	19
15	Numerical investigation of the sternoclavicular joint modeling technique for improving the surgical treatment of pectus excavatum. Scientific Reports, 2020, 10, 7357.	1.6	8
16	A User-Friendly, Web-Based Integrative Tool (ESurv) for Survival Analysis: Development and Validation Study. Journal of Medical Internet Research, 2020, 22, e16084.	2.1	46
17	Investigation of Density- and Strain Rate-dependent Strain Hardening-softening-coupled material Behavior of Polyurethane Foams using Elasto-viscoplastic Constitutive Model. Journal of Korean Institute of Metals and Materials, 2020, 58, 357-367.	0.4	3
18	Spinal Stability Evaluation According to the Change in the Spinal Fixation Segment Based on Finite Element Analysis. Journal of the Computational Structural Engineering Institute of Korea, 2020, 33, 145-152.	0.1	2

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19	Mechanical Behavior of Porcine Abdominal Organ Tissue with Resuscitative Endovascular Balloon Occlusion of the Aorta. Korean Journal of Materials Research, 2020, 30, 197-203.	0.1	0
20	Evaluation of Stress Characteristics and Rupture Risk of the Aortic Wall According to Abdominal Aortic Aneurysm Geometry and Age. Journal of the Computational Structural Engineering Institute of Korea, 2020, 33, 179-186.	0.1	0
21	An Experimental Study for Establishing an Optimal Pedicle Screw Design According to Bone Mineral Density. Transactions of the Korean Society of Mechanical Engineers, B, 2020, 44, 519-526.	0.0	0
22	Comparison of Biomechanical Characteristics of Chest Wall according to the Displacement Control Method of Metal Bar during Virtual Nuss Procedure. Transactions of the Korean Society of Mechanical Engineers, A, 2020, 44, 805-812.	0.1	0
23	Determination of the Material Parameters in the Holzapfel-Gasser-Ogden Constitutive Model for Simulation of Age-Dependent Material Nonlinear Behavior for Aortic Wall Tissue under Uniaxial Tension. Applied Sciences (Switzerland), 2019, 9, 2851.	1.3	14
24	Effects of Kevlar pulp on the enhancement of cryogenic mechanical properties of polyurethane foam. Polymer Testing, 2019, 80, 106093.	2.3	18
25	Computational Evaluation for Age-Dependent Material Nonlinear Behavior of Aortic Wall Tissue on Abdominal Aortic Aneurysms. Applied Sciences (Switzerland), 2019, 9, 101.	1.3	1
26	Evaluation of Structural and Mechanical Properties of Porous Artificial Bone Scaffolds Fabricated via Advanced TBA-Based Freeze-Gel Casting Technique. Applied Sciences (Switzerland), 2019, 9, 1965.	1.3	39
27	Evaluation of the prognostic significances of β -secretase genes in pancreatic cancer. Oncology Letters, 2019, 17, 4614-4620.	0.8	6
28	Computer-Aided Design and Manufacturing Technology for Identification of Optimal Nuss Procedure and Fabrication of Patient-Specific Nuss Bar for Minimally Invasive Surgery of Pectus Excavatum. Applied Sciences (Switzerland), 2019, 9, 42.	1.3	5
29	Experimental Evaluation of Screw Pullout Force and Adjacent Bone Damage According to Pedicle Screw Design Parameters in Normal and Osteoporotic Bones. Applied Sciences (Switzerland), 2019, 9, 586.	1.3	12
30	Experimental investigation of macroscopic material nonlinear behavior and microscopic void volume fraction change for porous materials under uniaxial compression. Composites Part B: Engineering, 2019, 163, 130-138.	5.9	14
31	Effect of the screw type (S2-alar-iliac and iliac), screw length, and screw head angle on the risk of screw and adjacent bone failures after a spinopelvic fixation technique: A finite element analysis. PLoS ONE, 2018, 13, e0201801.	1.1	31
32	mRNA Expression of SLC5A5 and SLC2A Family Genes in Papillary Thyroid Cancer: An Analysis of The Cancer Genome Atlas. Yonsei Medical Journal, 2018, 59, 746.	0.9	6
33	Modeling of elasto-viscoplastic behavior for polyurethane foam under various strain rates and temperatures. Composite Structures, 2017, 180, 686-695.	3.1	32
34	A new constitutive model for simulation of softening, plateau, and densification phenomena for trabecular bone under compression. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 213-223.	1.5	16
35	Human adipose tissue-derived mesenchymal stem cells alleviate atopic dermatitis via regulation of B lymphocyte maturation. Oncotarget, 2017, 8, 512-522.	0.8	61
36	Prognostic value of microRNAs in osteosarcoma: a meta-analysis. Oncotarget, 2017, 8, 8726-8737.	0.8	40

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37	Gene network inherent in genomic big data improves the accuracy of prognostic prediction for cancer patients. <i>Oncotarget</i> , 2017, 8, 77515-77526.	0.8	25
38	Material Nonlinear Behavior and Microstructural Transition of Porous Polyurethane Foam under Uniaxial Compressive Loads. <i>Korean Journal of Materials Research</i> , 2017, 27, 688-694.	0.1	1
39	Polymeric foams for cryogenic temperature application: Temperature range for non-recovery and brittle-fracture of microstructure. <i>Composite Structures</i> , 2016, 136, 258-269.	3.1	42
40	Comparison of computational and analytical methods for evaluation of failure pressure of subsea pipelines containing internal and external corrosions. <i>Journal of Marine Science and Technology</i> , 2016, 21, 369-384.	1.3	14
41	Lab-scale impact test to investigate the pipe-soil interaction and comparative study to evaluate structural responses. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2015, 7, 720-738.	1.0	6
42	Estimation of Fatigue Crack Growth Rate for 7% Nickel Steel under Room and Cryogenic Temperatures Using Damage-Coupled Finite Element Analysis. <i>Metals</i> , 2015, 5, 603-627.	1.0	7
43	A temperature- and strain-rate-dependent isotropic elasto-viscoplastic model for glass-fiber-reinforced polyurethane foam. <i>Materials and Design</i> , 2015, 84, 163-172.	3.3	22
44	Effects of cryogenic thermal cycle and immersion on the mechanical characteristics of phenol-resin bonded plywood. <i>Cryogenics</i> , 2015, 72, 90-102.	0.9	20
45	Initial and progressive failure analyses for composite laminates using Puck failure criterion and damage-coupled finite element method. <i>Composite Structures</i> , 2015, 121, 406-419.	3.1	128
46	Computational Analysis of Structural Behavior of Subsea Pipelines with Local Corrosion. <i>Journal of Ocean Engineering and Technology</i> , 2015, 29, 100-110.	0.5	0
47	Development of Progressive Failure Analysis Method for Composite Laminates based on Puck's Failure Criterion-Damage Mechanics Coupling Theories. <i>Journal of the Society of Naval Architects of Korea</i> , 2015, 52, 52-60.	0.2	1
48	A Study on the Evaluation of Fiber and Matrix Failures for Laminated Composites using Hashin-Puck Failure Criteria. <i>Journal of the Society of Naval Architects of Korea</i> , 2015, 52, 143-152.	0.2	3
49	Anisotropic elasto-viscoplastic damage model for glass-fiber-reinforced polyurethane foam. <i>Journal of Composite Materials</i> , 2014, 48, 3367-3380.	1.2	11
50	A constitutive equation for predicting the material nonlinear behavior of AISI 316L, 321, and 347 stainless steel under low-temperature conditions. <i>International Journal of Mechanical Sciences</i> , 2014, 87, 218-225.	3.6	21
51	Failure analysis of reinforced polyurethane foam-based LNG insulation structure using damage-coupled finite element analysis. <i>Composite Structures</i> , 2014, 107, 231-245.	3.1	37
52	Computational evaluation of resistance of fracture capacity for SUS304L of liquefied natural gas insulation system under cryogenic temperatures using ABAQUS user-defined material subroutine. <i>Materials & Design</i> , 2013, 50, 522-532.	5.1	26
53	Prestrain-dependent viscoplastic damage model for austenitic stainless steel and implementation to ABAQUS user-defined material subroutine. <i>Computational Materials Science</i> , 2013, 67, 273-281.	1.4	21
54	Viscoplastic damage model for austenitic stainless steel and its application to the crack propagation problem at cryogenic temperatures. <i>International Journal of Damage Mechanics</i> , 2013, 22, 95-115.	2.4	26

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55	Evaluation of sloshing resistance performance for LNG carrier insulation system based on fluid-structure interaction analysis. International Journal of Naval Architecture and Ocean Engineering, 2013, 5, 1-20.	1.0	22
56	Investigation of structural responses of breakwaters for green water based on fluid-structure interaction analysis. International Journal of Naval Architecture and Ocean Engineering, 2012, 4, 83-95.	1.0	2
57	Suggestion of a design load equation for ice-ship impacts. International Journal of Naval Architecture and Ocean Engineering, 2012, 4, 386-402.	1.0	1
58	Temperature and strain rate dependent constitutive model of TRIP steels for low-temperature applications. Computational Materials Science, 2011, 50, 2014-2027.	1.4	35
59	Numerical evaluation for debonding failure phenomenon of adhesively bonded joints at cryogenic temperatures. Composites Science and Technology, 2011, 71, 1921-1929.	3.8	15
60	Delamination failure of multilaminated adhesively bonded joints at low temperatures. Cryogenics, 2011, 51, 429-437.	0.9	5
61	Debonding failure characteristics of multi-laminated bonding system under cryogenic temperature. International Journal of Adhesion and Adhesives, 2011, 31, 226-237.	1.4	10
62	Comparative study on mechanical behavior of low temperature application materials for ships and offshore structures: Part II – Constitutive model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7560-7569.	2.6	9