

Khairul Salleh Basaruddin

List of Publications by Year in descending order

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68
papers

263
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1040056

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250
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#	ARTICLE	IF	CITATIONS
1	Effect of moisture exposure and elevated temperatures on impact response of Pennisetum purpureum/glass-reinforced epoxy (PGRE) hybrid composites. <i>Composites Part B: Engineering</i> , 2019, 160, 84-93.	12.0	32
2	In vitro degradation of a 3D porous Pennisetum purpureum/PLA biocomposite scaffold. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 74, 383-391.	3.1	30
3	Uncertainty Modeling in the Prediction of Effective Mechanical Properties Using Stochastic Homogenization Method with Application to Porous Trabecular Bone. <i>Materials Transactions</i> , 2013, 54, 1250-1256.	1.2	16
4	Stochastic multi-scale prediction on the apparent elastic moduli of trabecular bone considering uncertainties of biological apatite (BAp) crystallite orientation and image-based modelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 162-174.	1.6	15
5	Leg Length Discrepancy: Dynamic Balance Response during Gait. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-9.	1.9	15
6	Numerical Study on the Morphology and Mechanical Role of Healthy and Osteoporotic Vertebral Trabecular Bone. <i>Journal of Biomechanical Science and Engineering</i> , 2011, 6, 270-285.	0.3	13
7	Effect of nano-clay fillers on mechanical and morphological properties of Napier/epoxy Composites. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012010.	0.4	13
8	Morphology analysis of vertebral trabecular bone under dynamic loading based on multi-scale theory. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 1091-1103.	2.8	11
9	Stochastic multi-scale analysis of homogenised properties considering uncertainties in cellular solid microstructures using a first-order perturbation. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 755-769.	1.0	10
10	The Effects of Leg Length Discrepancy on Stability and Kinematics-Kinetics Deviations: A Systematic Review. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-22.	1.1	10
11	Finite element prediction on the chassis design of UniART4 racing car. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	9
12	Evaluating compressive properties and morphology of expandable polyurethane foam for use in a synthetic paediatric spine. <i>Journal of Materials Research and Technology</i> , 2020, 9, 2590-2597.	5.8	8
13	Performance analysis of entropy thresholding for successful image segmentation. <i>Multimedia Tools and Applications</i> , 2022, 81, 6433-6450.	3.9	8
14	Effects of fibre loading and moisture absorption on the tensile properties of hybrid Napier/glass/epoxy composites. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012014.	0.4	7
15	Fracture risk prediction on children with Osteogenesis Imperfecta subjected to loads under activity of daily living. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 429, 012004.	0.6	7
16	Effect of loading direction on fracture of bone with osteogenesis imperfecta (OI) during standing. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	7
17	Prediction on fracture risk of femur with Osteogenesis Imperfecta using finite element models: Preliminary study. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012022.	0.4	5
18	Review of biomechanical modelling of cortical bone stress fracture. , 2015, , .		4

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19	Mixed mode loading fracture toughness of Arcan adhesive joint: Effect of surface roughness. AIP Conference Proceedings, 2016, , .	0.4	4
20	Three Dimensional Finite Element Analysis on Railway Rail. IOP Conference Series: Materials Science and Engineering, 0, 429, 012010.	0.6	4
21	Estimation of Apparent Elastic Moduli of Trabecular Bone Considering Biological Apatite (BAp) Crystallite Orientation in Tissue Modulus. Advanced Materials Research, 0, 894, 167-171.	0.3	3
22	Finite Element Simulation on Railway Wheels under Various Loading. IOP Conference Series: Materials Science and Engineering, 0, 429, 012002.	0.6	3
23	Finite Element Prediction on Fracture Load of Femur with Osteogenesis Imperfecta under Various Loading Conditions. Applied Bionics and Biomechanics, 2022, 2022, 1-10.	1.1	3
24	Elastic interactions between single microcrack and single osteon microstructure of human femur cortical bone. AIP Conference Proceedings, 2017, , .	0.4	2
25	Effect of stress ratio on the fatigue behaviour of glass/epoxy composite. Journal of Physics: Conference Series, 2017, 908, 012030.	0.4	2
26	Segmentation of Cortical and Cancellous Bone with Osteogenesis Imperfecta using Thresholding-based Method. Journal of Physics: Conference Series, 2019, 1372, 012006.	0.4	2
27	Finite Element Analysis on Tibia with Osteogenesis Imperfecta: The Influence of Incomplete Bone in Model Reconstruction. , 2020, , .		2
28	Effects of Running Surface Stiffness on Three-Segment Foot Kinematics Responses with Different Shod Conditions. Applied Bionics and Biomechanics, 2021, 2021, 1-14.	1.1	2
29	Corrective Mechanism Aftermath Surgical Treatment of Spine Deformity due to Scoliosis: A Systematic Review of Finite Element Studies. BioMed Research International, 2022, 2022, 1-14.	1.9	2
30	THE INFLUENCE OF SURFACE TYPES ON FOOT KINEMATICS DURING RUNNING AND WALKING: A SYSTEMATIC REVIEW. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	1
31	Effective elastic constants of corrugated core sandwich plate microstructure considering imperfection in adhesive bonding. Journal of Physics: Conference Series, 2017, 908, 012031.	0.4	1
32	Homogenized Properties of Porous Microstructure: Effect of Void Shape and Arrangement. Journal of Physics: Conference Series, 2017, 908, 012032.	0.4	1
33	Experimental validation of finite element modelling on tibia with osteogenesis imperfecta. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012015.	0.6	1
34	Fracture toughness of railway for higher speed rail corridors in Malaysia. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012065.	0.6	1
35	Biomechanical analysis of patient-specific femur model of osteogenesis imperfecta with cortical and cancellous bone. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012045.	0.6	1
36	Design and Development of Artificial Spinal Ligaments for Paediatric Synthetic Spine. Journal of Physics: Conference Series, 2019, 1372, 012009.	0.4	1

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37	Determination of Fracture Risk on Patient-specific Model of Femur with Osteogenesis Imperfecta. Journal of Physics: Conference Series, 2019, 1372, 012042.	0.4	1
38	Effect of chewing and cutting condition for V-shape three-dimensional titanium miniplate for fixation of mandibular angle fractures (MAFs). International Journal of Structural Integrity, 2020, 11, 625-631.	3.3	1
39	Development and evaluation of a paediatric mid-thoracic spine finite element model. AIP Conference Proceedings, 2021, , .	0.4	1
40	Experimental Analysis of Fabricated Synthetic Midthoracic Paediatric Spine as Compared to the Porcine Spine Based on Range of Motion (ROM). Applied Bionics and Biomechanics, 2021, 2021, 1-10.	1.1	1
41	A Review on Edge Detection on Osteogenesis Imperfecta (OI) Image using Fuzzy Logic. Journal of Physics: Conference Series, 2021, 2071, 012040.	0.4	1
42	A Review on Deep Convolutional Neural Network Architectures for Medical Image Segmentation. Lecture Notes in Electrical Engineering, 2022, , 973-978.	0.4	1
43	The Effect of Trabecular Bone on the Mechanical Response of Human Mandible with Implant. Applied Mechanics and Materials, 0, 695, 588-591.	0.2	0
44	Stochastic Homogenized Properties for Honeycomb Microstructure Based on First Order Perturbation. Applied Mechanics and Materials, 0, 695, 516-520.	0.2	0
45	Variation of Stress Intensity Factor and Crack Distance Length for Double Edge Crack in Human Femur Bone. Applied Mechanics and Materials, 0, 695, 580-583.	0.2	0
46	Effect of mean stress and amplitude stress on mechanical stress-strain response of chopped strand mat (CSM) composite under cyclic load. AIP Conference Proceedings, 2017, , .	0.4	0
47	Biomechanical analysis on fracture risk associated with bone deformity. AIP Conference Proceedings, 2017, , .	0.4	0
48	Stress analysis of a single osteon. AIP Conference Proceedings, 2017, , .	0.4	0
49	Influence of local meshing size on stress intensity factor of orthopedic lag screw. AIP Conference Proceedings, 2017, , .	0.4	0
50	Effect of meshing element on J-integral value for homogenous crown fracture behavior. AIP Conference Proceedings, 2017, , .	0.4	0
51	Finite element modelling of Plantar Fascia response during running on different surface types. Journal of Physics: Conference Series, 2017, 908, 012035.	0.4	0
52	Effect of leg length inequality on body weight distribution during walking with load: A pilot study. AIP Conference Proceedings, 2017, , .	0.4	0
53	Clinical effects of leg length discrepancy through ground and joint reaction force responses: A review. AIP Conference Proceedings, 2017, , .	0.4	0
54	Influence of ceramic dental crown coating substrate thickness ratio on strain energy release rate. Journal of Physics: Conference Series, 2017, 908, 012018.	0.4	0

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55	Determination of effective elastic properties of metal matrix composites with damage particulates using homogenization method. Journal of Physics: Conference Series, 2017, 908, 012027.	0.4	0
56	Energy release rate analysis on the interface cracks of enamel-cement-bracket fracture using virtual crack closure technique. Journal of Physics: Conference Series, 2017, 908, 012016.	0.4	0
57	Convergence study of global meshing on enamel-cement-bracket finite element model. AIP Conference Proceedings, 2017, , .	0.4	0
58	Sound Transmission Loss Analysis for Laminated Glass and Perspex. IOP Conference Series: Materials Science and Engineering, 2018, 429, 012008.	0.6	0
59	Gait variability during load carriage in simulated leg length discrepancy. AIP Conference Proceedings, 2018, , .	0.4	0
60	Fracture prediction on patient-specific tibia model with Osteogenesis Imperfecta under various loading direction. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012073.	0.6	0
61	Influence of simulated leg length discrepancy on the spinal kinematics during stance phases. Journal of Physics: Conference Series, 2019, 1372, 012045.	0.4	0
62	Surface inclination effects on muscle and joint contact force during walking: A systematic review. Journal of Physics: Conference Series, 2019, 1372, 012051.	0.4	0
63	Displacement response of femur with various deformity angles under vertical load: FEA and experiment. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012072.	0.6	0
64	Analysis of insertion and removal torque loading for miniscrew and miniplate skeletal anchorage. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012039.	0.6	0
65	Alteration of Lower Extremity During Running on Different Surface Hardness: a Systematic Review. International Review of Mechanical Engineering, 2016, 10, 381.	0.2	0
66	Effect of synthetic fibres on tensile properties of Napier fibres reinforced epoxy composites. IOP Conference Series: Materials Science and Engineering, 0, 670, 012019.	0.6	0
67	Effect of Image Thresholding on the Homogenized Properties of Trabecular Bone Model. Lecture Notes in Electrical Engineering, 2022, , 979-984.	0.4	0
68	The effect of leg length inequality on joint contact forces of lower limbs during walking. Acta of Bioengineering and Biomechanics, 2019, 21, 55-62.	0.4	0