

Samer Adeeb

List of Publications by Year in descending order

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87
papers

1,196
citations

393982

19
h-index

476904

29
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87
all docs

87
docs citations

87
times ranked

1144
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical analysis of proximal humeral fixation using locking plate fixation with an intramedullary fibular allograft. <i>Clinical Biomechanics</i> , 2010, 25, 642-646.	0.5	93
2	Proximal humeral fracture fixation: locking plate construct ± intramedullary fibular allograft. <i>Journal of Shoulder and Elbow Surgery</i> , 2012, 21, 894-901.	1.2	68
3	Evaluation of mining-induced energy and rockburst prediction at a diamond mine in Canada using a full 3D elastoplastic finite element model. <i>Engineering Geology</i> , 2020, 266, 105457.	2.9	54
4	On the load-sharing along the ligamentous lumbosacral spine in flexed and extended postures: Finite element study. <i>Journal of Biomechanics</i> , 2016, 49, 974-982.	0.9	52
5	Surface topography asymmetry maps categorizing external deformity in scoliosis. <i>Spine Journal</i> , 2014, 14, 973-983.e2.	0.6	47
6	An in vitro study on the dimensional stability of a vinyl polyether silicone impression material over a prolonged storage period. <i>Journal of Prosthetic Dentistry</i> , 2013, 109, 172-178.	1.1	45
7	Monitoring for idiopathic scoliosis curve progression using surface topography asymmetry analysis of the torso in adolescents. <i>Spine Journal</i> , 2015, 15, 743-751.	0.6	45
8	Using Micro-CT Derived Bone Microarchitecture to Analyze Bone Stiffness – A Case Study on Osteoporosis Rat Bone. <i>Frontiers in Endocrinology</i> , 2015, 6, 80.	1.5	29
9	Impact of bisphosphonate drug burden in alveolar bone during orthodontic tooth movement in a rat model: A pilot study. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2013, 144, 557-567.	0.8	27
10	The use of finite element analysis in dentistry and orthodontics: Critical points for model development and interpreting results. <i>Seminars in Orthodontics</i> , 2020, 26, 162-173.	0.8	27
11	Injury mechanisms of the ligamentous cervical C2–C3 Functional Spinal Unit to complex loading modes: Finite Element study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 53, 384-396.	1.5	26
12	Modelling the Behaviour of Ligaments: A Technical Note. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2004, 7, 33-42.	0.9	25
13	Correlation Between a Novel Surface Topography Asymmetry Analysis and Radiographic Data in Scoliosis. <i>Spine Deformity</i> , 2015, 3, 303-311.	0.7	24
14	Crack propagation and burst pressure of longitudinally cracked pipelines using extended finite element method. <i>International Journal of Pressure Vessels and Piping</i> , 2020, 184, 104115.	1.2	24
15	Biomechanical evaluation of the Nice knot. <i>International Journal of Shoulder Surgery</i> , 2016, 10, 15.	1.5	24
16	Locking plate fixation of proximal humeral fractures with impaction of the fracture site to restore medial column support: a biomechanical study. <i>Journal of Shoulder and Elbow Surgery</i> , 2013, 22, 1552-1557.	1.2	22
17	3-D Volumetric Evaluation of Human Mandibular Growth. <i>Open Biomedical Engineering Journal</i> , 2011, 5, 83-89.	0.7	22
18	A stability-based model of a growing spine with adolescent idiopathic scoliosis: A combination of musculoskeletal and finite element approaches. <i>Medical Engineering and Physics</i> , 2019, 64, 46-55.	0.8	21

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19	Systematic literature review of the application of extended finite element method in failure prediction of pipelines. <i>Journal of Pipeline Science and Engineering</i> , 2021, 1, 241-251.	2.4	21
20	Assessing asymmetry using reflection and rotoinversion in biomedical engineering applications. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 523-529.	1.0	19
21	Geometric analysis of the talus and development of a generic talar prosthetic. <i>Foot and Ankle Surgery</i> , 2017, 23, 89-94.	0.8	19
22	Effects of lumbo-pelvic rhythm on trunk muscle forces and disc loads during forward flexion: A combined musculoskeletal and finite element simulation study. <i>Journal of Biomechanics</i> , 2019, 82, 116-123.	0.9	18
23	3D Markerless asymmetry analysis in the management of adolescent idiopathic scoliosis. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 385.	0.8	17
24	Is suture comparable to wire for cerclage fixation? A biomechanical analysis. <i>Shoulder and Elbow</i> , 2019, 11, 225-232.	0.7	17
25	Customized k-nearest neighbourhood analysis in the management of adolescent idiopathic scoliosis using 3D markerless asymmetry analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 696-705.	0.9	15
26	A refined analytical strain analysis method for offshore pipeline under strike-slip fault movement considering strain hardening effect of steel. <i>Ships and Offshore Structures</i> , 2020, 15, 215-226.	0.9	15
27	Simulation of Crack Propagation in API 5L X52 Pressurized Pipes Using XFEM-Based Cohesive Segment Approach. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, .	0.9	15
28	FEM Simulation of Non-Progressive Growth from Asymmetric Loading and Vicious Cycle Theory: Scoliosis Study Proof of Concept. <i>Open Biomedical Engineering Journal</i> , 2010, 4, 162-169.	0.7	15
29	Modeling the Deformation Response of High Strength Steel Pipelines—Part I: Material Characterization to Model the Plastic Anisotropy. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	1.1	14
30	Characterizing asymmetry across the whole sit to stand movement in healthy participants. <i>Journal of Biomechanics</i> , 2013, 46, 2730-2735.	0.9	14
31	Numerical Investigation of Intra-abdominal Pressure Effects on Spinal Loads and Load-Sharing in Forward Flexion. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 428.	2.0	14
32	Investigation of the Average Shape and Principal Variations of the Human Talus Bone Using Statistic Shape Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 656.	2.0	13
33	Effect of location of crack in dent on burst pressure of pipeline with combined dent and crack defects. <i>Journal of Pipeline Science and Engineering</i> , 2021, 1, 252-263.	2.4	13
34	Surface Topography Classification Trees for Assessing Severity and Monitoring Progression in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2017, 42, E781-E787.	1.0	12
35	The Effect of Internal Pressure on the Tensile Strain Capacity of X52 Pipelines With Circumferential Flaws. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2016, 138, .	0.4	11
36	The effect of material stress-strain characteristics on the ultimate stress and critical buckling strain of flat plates subjected to uniform axial compression. <i>Construction and Building Materials</i> , 2018, 182, 346-359.	3.2	11

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37	Experimental evaluation of the effect of the internal pressure and flaw size on the tensile strain capacity of welded X42 vintage pipelines. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 173, 55-67.	1.2	11
38	A Deep Learning and Computer Vision Based Multi-Player Tracker for Squash. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8793.	1.3	11
39	Strain-based reliability analysis of dented pipelines using a response surface method. <i>Journal of Pipeline Science and Engineering</i> , 2022, 2, 29-38.	2.4	11
40	Surface reconstruction of torsos with and without scoliosis. <i>Journal of Biomechanics</i> , 2009, 42, 2200-2204.	0.9	9
41	Impact of selective alveolar decortication on bisphosphonate burdened alveolar bone during orthodontic tooth movement. <i>Archives of Oral Biology</i> , 2015, 60, 1681-1689.	0.8	9
42	Development and Implantation of a Universal Talar Prosthesis. <i>Frontiers in Surgery</i> , 2019, 6, 63.	0.6	9
43	Estimation of the CTOD-crack growth curves in SENT specimens using the eXtended finite element method. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 169, 16-25.	1.2	9
44	Cortical and trabecular morphometric properties of the human calvarium. <i>Bone</i> , 2021, 148, 115931.	1.4	9
45	Modeling the Deformation Response of High Strength Steel Pipelines—Part II: Effects of Material Characterization on the Deformation Response of Pipes. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	1.1	8
46	A Novel Rat Model of Orthodontic Tooth Movement Using Temporary Skeletal Anchorage Devices: 3D Finite Element Analysis and <i>In Vivo</i> Validation. <i>International Journal of Dentistry</i> , 2014, 2014, 1-11.	0.5	8
47	Determination of CMOD-force curves and R-curves in side-grooved single edge notched tensile (SENT) specimens in welded X42 pipeline steel. <i>International Journal of Pressure Vessels and Piping</i> , 2018, 163, 68-74.	1.2	8
48	Crack Propagation and Burst Pressure of Pipeline with Restrained and Unrestrained Concentric Dent-Crack Defects Using Extended Finite Element Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7554.	1.3	8
49	Leg Dominance May Not Be a Predictor of Asymmetry in Peak Joint Moments and Ground Reaction Forces During Sit-to-Stand Movements. <i>Journal of Applied Biomechanics</i> , 2014, 30, 179-183.	0.3	7
50	Asymmetry Assessment Using Surface Topography in Healthy Adolescents. <i>Symmetry</i> , 2015, 7, 1436-1454.	1.1	7
51	Development of a Tensile Strain Capacity Predictive Model for American Petroleum Institute 5L X42 Welded Vintage Pipelines. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2020, 142, .	0.4	7
52	The evaluation of artificial talus implant on ankle joint contact characteristics: a finite element study based on four subjects. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 1139-1158.	1.6	7
53	Analysis of a generic talar prosthetic with a biological talus: A cadaver study. <i>Journal of Orthopaedics</i> , 2018, 15, 230-235.	0.6	6
54	Improvements to the ASME B31.8 Dent Strain Equations. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2018, 140, .	0.4	6

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55	Hip Joint Contact Pressure Distribution During Pavlik Harness Treatment of an Infant Hip: A Patient-Specific Finite Element Model. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	6
56	Investigation of the geometries of the coronoid process and the fibular allograft as a potential surgical replacement. <i>Clinical Biomechanics</i> , 2013, 28, 626-634.	0.5	5
57	Measurement and Characterization of the Initial Geometric Imperfections in High Strength U-ing, O-ing and Expanding Manufactured Steel Pipes. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2016, 138, .	0.4	5
58	Integrating the Shape Constants of a Novel Material Stress-Strain Characterization Model for Parametric Numerical Analysis of the Deformational Capacity of High-Strength X80-Grade Steel Pipelines. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 322.	1.3	5
59	An Equivalent Constitutive Model of Cancellous Bone With Fracture Prediction. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	5
60	Development of enhanced fiber beam element with multi-axial material constitutive models for reinforced/prestressed concrete beams. <i>Engineering Structures</i> , 2021, 248, 113289.	2.6	5
61	Effects of Loading Sequences on Remaining Life of Plain Dents in Buried Liquid Pipelines. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2019, 10, .	0.9	4
62	Prediction of mechanical behavior of cartilaginous infant hips in pavlik harness: A subject-specific simulation study on normal and dysplastic hips. <i>Journal of Orthopaedic Research</i> , 2019, 37, 655-664.	1.2	4
63	Prediction of Tensile Strain Capacity for X52 Steel Pipeline Materials Using the Extended Finite Element Method. <i>Applied Mechanics</i> , 2021, 2, 209-225.	0.7	4
64	Reliability analysis of intact and defected pipes for internal pressure related limit states specified in CSA Z622:19. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 192, 104411.	1.2	4
65	Fractal elements. <i>Journal of Mechanics of Materials and Structures</i> , 2009, 4, 781-797.	0.4	4
66	Integrity Analysis of Dented Pipelines using Artificial Neural Networks. <i>Pipeline Science and Technology</i> , 2019, 3, 92-104.	0.4	4
67	Shell finite element formulation for geometrically nonlinear analysis of curved thin-walled pipes. <i>Thin-Walled Structures</i> , 2022, 173, 108971.	2.7	4
68	Simulation of biological growth. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 617-626.	0.9	3
69	Simulation of Low-Intensity Ultrasound Propagating in a Beagle Dog Dentoalveolar Structure to Investigate the Relations between Ultrasonic Parameters and Cementum Regeneration. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 2173-2190.	0.7	3
70	A semi-empirical modeling approach for predicting the deformational capacity of axially-compressed cylindrical shells based on a novel material stress-strain characterization method. <i>Thin-Walled Structures</i> , 2019, 143, 106216.	2.7	3
71	Categorizing Three-Dimensional Symmetry Using Reflection, Rotoinversion, and Translation Symmetry. <i>Symmetry</i> , 2019, 11, 1132.	1.1	3
72	Reliability evaluation method for pipes buried in fault areas based on the probabilistic fault displacement hazard analysis. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 85, 103698.	2.1	3

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73	Computational modelling of hip resurfacing arthroplasty investigating the effect of femoral version on hip biomechanics. PLoS ONE, 2021, 16, e0252435.	1.1	3
74	Prediction of fracture initiation and propagation in pelvic bones. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 808-820.	0.9	3
75	A feature-based statistical shape model for geometric analysis of the human talus and development of universal talar prostheses. Journal of Anatomy, 2021, , .	0.9	3
76	Shell finite element formulation for geometrically nonlinear analysis of straight thin-walled pipes. International Journal of Non-Linear Mechanics, 2021, 137, 103829.	1.4	3
77	Polycarbonate-urethane coating can significantly improve talus implant contact characteristics. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104936.	1.5	3
78	A parametric study on the effect of uniformly-induced curvature on the deformational capacity of steel onshore pipelines based on a novel material characterization procedure. Engineering Structures, 2021, 234, 111992.	2.6	2
79	Characterization of the shear behavior of Z-shaped steel plate connectors used in insulated concrete panels. PCI Journal, 2016, 61, 23-37.	0.4	2
80	Assessing Torso Deformity in Scoliosis Using Self-Organizing Neural Networks (SNN). , 2008, , .		1
81	Variations in the Postbuckling Behavior of Straight Pipes Due to Steel Grade and Internal Pressure. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.4	1
82	Prediction of failure in cancellous bone using extended finite element method. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 988-999.	1.0	1
83	Experimental and Numerical Investigation on Ductile Fracture of Steel Pipelines. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, .	0.4	1
84	Effects of Asymmetrical Vertical Soil Stiffness on Strain Demand of Steel Pipelines Subjected to Transverse Vertical Permanent Ground Deformation. , 2022, , .		1
85	Intra-operator and inter-operator reliability, and CT scan repeatability in 3D modelling of talus bone using CT imaging. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, , 1-8.	1.3	0
86	Analysis of congruence for talar dome geometry among tali of different sizes. Foot, 2019, 41, 51-58.	0.4	0
87	Key Design Variables Responsible for the Rupture of Buckled Pipes. International Journal of Offshore and Polar Engineering, 2019, 29, 78-84.	0.3	0