# Samer Adeeb

List of Publications by Year
in descending order

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|---|---|---|---|
| 87 papers | 1,196 citations | 394421<br>19 h-index | 477307<br>29 g-index |
| 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. Clinical Biomechanics, 2010, 25, 642-646. | 1.2 | 93 |
| 2 | Proximal humeral fracture fixation: locking plate construct ± intramedullary fibular allograft. Journal of Shoulder and Elbow Surgery, 2012, 21, 894-901. | 2.6 | 68 |
| 3 | Evaluation of mining-induced energy and rockburst prediction at a diamond mine in Canada using a full 3D elastoplastic finite element model. Engineering Geology, 2020, 266, 105457. | 6.3 | 54 |
| 4 | On the load-sharing along the ligamentous lumbosacral spine in flexed and extended postures: Finite element study. Journal of Biomechanics, 2016, 49, 974-982. | 2.1 | 52 |
| 5 | Surface topography asymmetry maps categorizing external deformity inÂscoliosis. Spine Journal, 2014, 14, 973-983.e2. | 1.3 | 47 |
| 6 | An in vitro study on the dimensional stability of a vinyl polyether silicone impression material over a prolonged storage period. Journal of Prosthetic Dentistry, 2013, 109, 172-178. | 2.8 | 45 |
| 7 | Monitoring for idiopathic scoliosis curve progression using surface topography asymmetry analysis of the torso in adolescents. Spine Journal, 2015, 15, 743-751. | 1.3 | 45 |
| 8 | Using Micro-CT Derived Bone Microarchitecture to Analyze Bone Stiffness Ã¢â‚¬â€œ A Case Study on Osteoporosis Rat Bone. Frontiers in Endocrinology, 2015, 6, 80. | 3.5 | 29 |
| 9 | Impact of bisphosphonate drug burden in alveolar bone during orthodontic tooth movement in a rat model: A pilot study. American Journal of Orthodontics and Dentofacial Orthopedics, 2013, 144, 557-567. | 1.7 | 27 |
| 10 | The use of finite element analysis in dentistry and orthodontics: Critical points for model development and interpreting results. Seminars in Orthodontics, 2020, 26, 162-173. | 1.4 | 27 |
| 11 | Injury mechanisms of the ligamentous cervical C2â€"C3 Functional Spinal Unit to complex loading modes: Finite Element study. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 53, 384-396. | 3.1 | 26 |
| 12 | Modelling the Behaviour of Ligaments: A Technical Note. Computer Methods in Biomechanics and Biomedical Engineering, 2004, 7, 33-42. | 1.6 | 25 |
| 13 | Correlation Between a Novel Surface Topography Asymmetry Analysis and Radiographic Data in Scoliosis. Spine Deformity, 2015, 3, 303-311. | 1.5 | 24 |
| 14 | Crack propagation and burst pressure of longitudinally cracked pipelines using extended finite element method. International Journal of Pressure Vessels and Piping, 2020, 184, 104115. | 2.6 | 24 |
| 15 | Biomechanical evaluation of the Nice knot. International Journal of Shoulder Surgery, 2016, 10, 15. | 1.5 | 24 |
| 16 | Locking plate fixation of proximal humeral fractures withÂimpaction of the fracture site to restore medial column support: a biomechanical study. Journal of Shoulder and Elbow Surgery, 2013, 22, 1552-1557. | 2.6 | 22 |
| 17 | 3-D Volumetric Evaluation of Human Mandibular Growth. Open Biomedical Engineering Journal, 2011, 5, 83-89. | 0.5 | 22 |
| 18 | A stability-based model of a growing spine with adolescent idiopathic scoliosis: A combination of musculoskeletal and finite element approaches. Medical Engineering and Physics, 2019, 64, 46-55. | 1.7 | 21 |

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|---|---------|-----|-----------|
| 19 | Systematic literature review of the application of extended finite element method in failure prediction of pipelines. Journal of Pipeline Science and Engineering, 2021, 1, 241-251. | 4.8 | 21 |
| 20 | Assessing asymmetry using reflection and rotoinversion in biomedical engineering applications. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 523-529. | 1.8 | 19 |
| 21 | Geometric analysis of the talus and development of a generic talar prosthetic. Foot and Ankle Surgery, 2017, 23, 89-94. | 1.7 | 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. Journal of Biomechanics, 2019, 82, 116-123. | 2.1 | 18 |
| 23 | 3D Markerless asymmetry analysis in the management of adolescent idiopathic scoliosis. BMC Musculoskeletal Disorders, 2018, 19, 385. | 1.9 | 17 |
| 24 | Is suture comparable to wire for cerclage fixation? A biomechanical analysis. Shoulder and Elbow, 2019, 11, 225-232. | 1.5 | 17 |
| 25 | Customized k-nearest neighbourhood analysis in the management of adolescent idiopathic scoliosis using 3D markerless asymmetry analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 696-705. | 1.6 | 15 |
| 26 | A refined analytical strain analysis method for offshore pipeline under strike-slip fault movement considering strain hardening effect of steel. Ships and Offshore Structures, 2020, 15, 215-226. | 1.9 | 15 |
| 27 | Simulation of Crack Propagation in API 5L X52 Pressurized Pipes Using XFEM-Based Cohesive Segment Approach. Journal of Pipeline Systems Engineering and Practice, 2020, 11, . | 1.6 | 15 |
| 28 | FEM Simulation of Non-Progressive Growth from Asymmetric Loading and Vicious Cycle Theory: Scoliosis Study Proof of Concept. Open Biomedical Engineering Journal, 2010, 4, 162-169. | 0.5 | 15 |
| 29 | Modeling the Deformation Response of High Strength Steel Pipelines—Part I: Material Characterization to Model the Plastic Anisotropy. Journal of Applied Mechanics, Transactions ASME, 2012, 79, . | 2.2 | 14 |
| 30 | Characterizing asymmetry across the whole sit to stand movement in healthy participants. Journal of Biomechanics, 2013, 46, 2730-2735. | 2.1 | 14 |
| 31 | Numerical Investigation of Intra-abdominal Pressure Effects on Spinal Loads and Load-Sharing in Forward Flexion. Frontiers in Bioengineering and Biotechnology, 2019, 7, 428. | 4.1 | 14 |
| 32 | Investigation of the Average Shape and Principal Variations of the Human Talus Bone Using Statistic Shape Model. Frontiers in Bioengineering and Biotechnology, 2020, 8, 656. | 4.1 | 13 |
| 33 | Effect of location of crack in dent on burst pressure of pipeline with combined dent and crack defects. Journal of Pipeline Science and Engineering, 2021, 1, 252-263. | 4.8 | 13 |
| 34 | Surface Topography Classification Trees for Assessing Severity and Monitoring Progression in Adolescent Idiopathic Scoliosis. Spine, 2017, 42, E781-E787. | 2.0 | 12 |
| 35 | The Effect of Internal Pressure on the Tensile Strain Capacity of X52 Pipelines With Circumferential Flaws. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, . | 0.6 | 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. Construction and Building Materials, 2018, 182, 346-359. | 7.2 | 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. International Journal of Pressure Vessels and Piping, 2019, 173, 55-67. | 2.6 | 11 |
| 38 | A Deep Learning and Computer Vision Based Multi-Player Tracker for Squash. Applied Sciences (Switzerland), 2020, 10, 8793. | 2.5 | 11 |
| 39 | Strain-based reliability analysis of dented pipelines using a response surface method. Journal of Pipeline Science and Engineering, 2022, 2, 29-38. | 4.8 | 11 |
| 40 | Surface reconstruction of torsos with and without scoliosis. Journal of Biomechanics, 2009, 42, 2200-2204. | 2.1 | 9 |
| 41 | Impact of selective alveolar decortication on bisphosphonate burdened alveolar bone during orthodontic tooth movement. Archives of Oral Biology, 2015, 60, 1681-1689. | 1.8 | 9 |
| 42 | Development and Implantation of a Universal Talar Prosthesis. Frontiers in Surgery, 2019, 6, 63. | 1.4 | 9 |
| 43 | Estimation of the CTOD-crack growth curves in SENT specimens using the eXtended finite element method. International Journal of Pressure Vessels and Piping, 2019, 169, 16-25. | 2.6 | 9 |
| 44 | Cortical and trabecular morphometric properties of the human calvarium. Bone, 2021, 148, 115931. | 2.9 | 9 |
| 45 | Modeling the Deformation Response of High Strength Steel Pipelinesâ€"Part II: Effects of Material Characterization on the Deformation Response of Pipes. Journal of Applied Mechanics, Transactions ASME, 2012, 79, . | 2.2 | 8 |
| 46 | A Novel Rat Model of Orthodontic Tooth Movement Using Temporary Skeletal Anchorage Devices: 3D Finite Element Analysis and *In Vivo* Validation. International Journal of Dentistry, 2014, 2014, 1-11. | 1.5 | 8 |
| 47 | Determination of CMOD-force curves and R-curves in side-grooved single edge notched tensile (SENT) specimens in welded X42 pipeline steel. International Journal of Pressure Vessels and Piping, 2018, 163, 68-74. | 2.6 | 8 |
| 48 | Crack Propagation and Burst Pressure of Pipeline with Restrained and Unrestrained Concentric Dent-Crack Defects Using Extended Finite Element Method. Applied Sciences (Switzerland), 2020, 10, 7554. | 2.5 | 8 |
| 49 | Leg Dominance May Not Be a Predictor of Asymmetry in Peak Joint Moments and Ground Reaction Forces During Sit-to-Stand Movements. Journal of Applied Biomechanics, 2014, 30, 179-183. | 0.8 | 7 |
| 50 | Asymmetry Assessment Using Surface Topography in Healthy Adolescents. Symmetry, 2015, 7, 1436-1454. | 2.2 | 7 |
| 51 | Development of a Tensile Strain Capacity Predictive Model for American Petroleum Institute 5L X42 Welded Vintage Pipelines. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, . | 0.6 | 7 |
| 52 | The evaluation of artificial talus implant on ankle joint contact characteristics: a finite element study based on four subjects. Medical and Biological Engineering and Computing, 2022, 60, 1139-1158. | 2.8 | 7 |
| 53 | Analysis of a generic talar prosthetic with a biological talus: A cadaver study. Journal of Orthopaedics, 2018, 15, 230-235. | 1.3 | 6 |
| 54 | Improvements to the ASME B31.8 Dent Strain Equations. Journal of Pressure Vessel Technology, Transactions of the ASME, 2018, 140, . | 0.6 | 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. Journal of Biomechanical Engineering, 2018, 140, . | 1.3 | 6 |
| 56 | Investigation of the geometries of the coronoid process and the fibular allograft as a potential surgical replacement. Clinical Biomechanics, 2013, 28, 626-634. | 1.2 | 5 |
| 57 | Measurement and Characterization of the Initial Geometric Imperfections in High Strength U-ing, O-ing and Expanding Manufactured Steel Pipes. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, . | 0.6 | 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. Applied Sciences (Switzerland), 2019, 9, 322. | 2.5 | 5 |
| 59 | An Equivalent Constitutive Model of Cancellous Bone With Fracture Prediction. Journal of Biomechanical Engineering, 2020, 142, . | 1.3 | 5 |
| 60 | Development of enhanced fiber beam element with multi-axial material constitutive models for reinforced/prestressed concrete beams. Engineering Structures, 2021, 248, 113289. | 5.3 | 5 |
| 61 | Effects of Loading Sequences on Remaining Life of Plain Dents in Buried Liquid Pipelines. Journal of Pipeline Systems Engineering and Practice, 2019, 10, . | 1.6 | 4 |
| 62 | Prediction of mechanical behavior of cartilaginous infant hips in pavlik harness: A subject€specific simulation study on normal and dysplastic hips. Journal of Orthopaedic Research, 2019, 37, 655-664. | 2.3 | 4 |
| 63 | Prediction of Tensile Strain Capacity for X52 Steel Pipeline Materials Using the Extended Finite Element Method. Applied Mechanics, 2021, 2, 209-225. | 1.5 | 4 |
| 64 | Reliability analysis of intact and defected pipes for internal pressure related limit states specified in CSA Z622:19. International Journal of Pressure Vessels and Piping, 2021, 192, 104411. | 2.6 | 4 |
| 65 | Fractal elements. Journal of Mechanics of Materials and Structures, 2009, 4, 781-797. | 0.6 | 4 |
| 66 | Integrity Analysis of Dented Pipelines using Artificial Neural Networks. Pipeline Science and Technology, 2019, 3, 92-104. | 0.4 | 4 |
| 67 | Shell finite element formulation for geometrically nonlinear analysis of curved thin-walled pipes. Thin-Walled Structures, 2022, 173, 108971. | 5.3 | 4 |
| 68 | Simulation of biological growth. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 617-626. | 1.6 | 3 |
| 69 | Simulation of Low-Intensity Ultrasound Propagating in a Beagle Dog Dentoalveolar Structure to Investigate the Relations between Ultrasonic Parameters and Cementum Regeneration. Ultrasound in Medicine and Biology, 2015, 41, 2173-2190. | 1.5 | 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. Thin-Walled Structures, 2019, 143, 106216. | 5.3 | 3 |
| 71 | Categorizing Three-Dimensional Symmetry Using Reflection, Rotoinversion, and Translation Symmetry. Symmetry, 2019, 11, 1132. | 2.2 | 3 |
| 72 | Reliability evaluation method for pipes buried in fault areas based on the probabilistic fault displacement hazard analysis. Journal of Natural Gas Science and Engineering, 2021, 85, 103698. | 4.4 | 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. | 2.5 | 3 |
| 74 | Prediction of fracture initiation and propagation in pelvic bones. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 808-820. | 1.6 | 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, , . | 1.5 | 3 |
| 76 | Shell finite element formulation for geometrically nonlinear analysis of straight thin-walled pipes. International Journal of Non-Linear Mechanics, 2021, 137, 103829. | 2.6 | 3 |
| 77 | Polycarbonate-urethane coating can significantly improve talus implant contact characteristics. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104936. | 3.1 | 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. | 5.3 | 2 |
| 79 | Characterization of the shear behavior of Z-shaped steel plate connectors used in insulated concrete panels. PCI Journal, 2016, 61, 23-37. | 0.6 | 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, . | 0.6 | 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. | 1.8 | 1 |
| 83 | Experimental and Numerical Investigation on Ductile Fracture of Steel Pipelines. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, . | 0.6 | 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. | 1.9 | 0 |
| 86 | Analysis of congruence for talar dome geometry among tali of different sizes. Foot, 2019, 41, 51-58. | 1.1 | 0 |
| 87 | Key Design Variables Responsible for the Rupture of Buckled Pipes. International Journal of Offshore and Polar Engineering, 2019, 29, 78-84. | 0.8 | 0 |