

Tom Å; Doktor

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

96
citations

1937685

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h-index

1474206

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23
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23
docs citations

23
times ranked

135
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Dynamic penetration of cellular solids: Experimental investigation using Hopkinson bar and computed tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140096. | 5.6 | 22 |
| 2 | X-ray and finite element analysis of deformation response of closed-cell metal foam subjected to compressive loading. <i>Journal of Instrumentation</i> , 2013, 8, C02012-C02012. | 1.2 | 20 |
| 3 | Compressive properties of auxetic structures produced with direct 3D printing. <i>Materiali in Tehnologije</i> , 2016, 50, 311-317. | 0.5 | 20 |
| 4 | Numerical modelling of the reinforcing effect of geosynthetic material used in ballasted railway tracks. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2010, 224, 259-267. | 2.0 | 5 |
| 5 | Real-time X-ray microradiographic imaging and image correlation for local strain mapping in single trabecula under mechanical load. <i>Journal of Instrumentation</i> , 2011, 6, C11007-C11007. | 1.2 | 5 |
| 6 | Micro-Mechanical Testing of Metal Foam Cell Walls Using Miniature Three-Point Bending. <i>Key Engineering Materials</i> , 0, 586, 120-124. | 0.4 | 4 |
| 7 | Radiographical investigation of fluid penetration processes in natural stones used in historical buildings. <i>Journal of Instrumentation</i> , 2014, 9, C05040-C05040. | 1.2 | 4 |
| 8 | Verification of Numerical Model for Trabecular Tissue Using Compression Test and Time-Lapse X-Ray Radiography Based on Material Model Determined from Three-Point Bending Test of Single Trabecula. <i>Key Engineering Materials</i> , 2013, 586, 265-269. | 0.4 | 3 |
| 9 | INFLUENCE OF PRINTING AND LOADING DIRECTION ON MECHANICAL RESPONSE IN 3D PRINTED MODELS OF HUMAN TRABECULAR BONE. <i>Acta Polytechnica CTU Proceedings</i> , 0, 18, 24. | 0.3 | 3 |
| 10 | Material Testing of Natural Stones Used in Historical Buildings Based on Scanning Electron Microscopy and Nanoindentation. <i>Key Engineering Materials</i> , 2013, 586, 186-189. | 0.4 | 2 |
| 11 | Displacement tracking in single human trabecula with metal-plated micro-spheres using X-ray radiography imaging. <i>Journal of Instrumentation</i> , 2013, 8, C02041-C02041. | 1.2 | 2 |
| 12 | Inspection of Post Impact Fatigue Damage in Carbon Fibre Composite Using Modulus Mapping Technique. <i>Key Engineering Materials</i> , 2014, 606, 245-248. | 0.4 | 2 |
| 13 | Micromechanical Properties of Biocompatible Materials for Bone Tissue Engineering Produced by Direct 3D Printing. <i>Key Engineering Materials</i> , 2015, 662, 138-141. | 0.4 | 2 |
| 14 | Evaluation of Local Plastic Flow in the Vicinity of Indentation by the Means of DIC Applied on SEM Micrographs. <i>Key Engineering Materials</i> , 0, 586, 257-260. | 0.4 | 1 |
| 15 | Determination of elastic-plastic properties of Alporas foam at the cell-wall level using microscale-cantilever bending tests. <i>Materiali in Tehnologije</i> , 2015, 49, 203-206. | 0.5 | 1 |
| 16 | Inspection of Local Influenced Zones in Micro-Scale Aluminium Specimens. <i>Key Engineering Materials</i> , 0, 606, 39-42. | 0.4 | 0 |
| 17 | High-resolution time-lapse tomography of rat vertebrae during compressive loading: deformation response analysis. <i>Journal of Instrumentation</i> , 2014, 9, C05054-C05054. | 1.2 | 0 |
| 18 | Mapping of Local Changes of Mechanical Properties in Trabecular Interconnections. <i>Key Engineering Materials</i> , 0, 662, 129-133. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Evaluation of Material Parameters of Multiphase Materials Using Drift Distortion Corrected SEM Imaging. Key Engineering Materials, 2015, 662, 253-256. | 0.4 | 0 |
| 20 | UTILIZATION OF IMAGE AND SIGNAL PROCESSING TECHNIQUES FOR ASSESSMENT OF BUILT HERITAGE CONDITION. Acta Polytechnica CTU Proceedings, 0, 18, 55. | 0.3 | 0 |
| 21 | Instrumentation for Micromechanics Research in Trabecular Bone. , 2013, , . | | 0 |
| 22 | Properties of polymer-filled aluminium foams under moderate strain-rate loading conditions. Materiali in Tehnologije, 2015, 49, 597-600. | 0.5 | 0 |
| 23 | About YSESM 2019. , 0, , . | | 0 |