Mikko Hokka

List of Publications by Year in descending order

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Version: 2024-02-01

361413 377865 1,333 70 20 34 citations h-index g-index papers 73 73 73 1312 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| 1 | Deformation behavior of TRIP and DP steels in tension at different temperatures over a wide range of strain rates. Materials Science & Degineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 507, 124-131. | 5 . 6 | 169 |
| 2 | Effects of strain rate and confining pressure on the compressive behavior of Kuru granite. International Journal of Impact Engineering, 2016, 91, 183-193. | 5.0 | 135 |
| 3 | Highly ductile amorphous oxide at room temperature and high strain rate. Science, 2019, 366, 864-869. | 12.6 | 107 |
| 4 | Numerical and experimental study of percussive drilling with a triple-button bit on Kuru granite. International Journal of Impact Engineering, 2014, 72, 56-66. | 5.0 | 69 |
| 5 | Numerical modeling and experimentation of dynamic Brazilian disc test on Kuru granite. International Journal of Rock Mechanics and Minings Sciences, 2013, 59, 128-138. | 5.8 | 68 |
| 6 | Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. Journal of Materials Chemistry B, 2017, 5, 4514-4525. | 5.8 | 48 |
| 7 | Uncoupling the effects of strain rate and adiabatic heating on strain induced martensitic phase transformations in a metastable austenitic steel. Acta Materialia, 2019, 176, 134-144. | 7.9 | 47 |
| 8 | Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial. ACS Applied Materials & Enture Injectable Biomaterial. ACS Applied Materials & Enture Injectable Biomaterial. | 8.0 | 43 |
| 9 | Adiabatic Heating of Austenitic Stainless Steels at Different Strain Rates. Journal of Dynamic Behavior of Materials, 2019, 5, 221-229. | 1.7 | 41 |
| 10 | Effects of Adiabatic Heating and Strain Rate on the Dynamic Response of a CoCrFeMnNi High-Entropy Alloy. Journal of Dynamic Behavior of Materials, 2019, 5, 320-330. | 1.7 | 36 |
| 11 | Luminescence of Er 3+ doped oxyfluoride phosphate glasses and glass-ceramics. Journal of Alloys and Compounds, 2018, 751, 224-230. | 5.5 | 35 |
| 12 | 3D finite elements modelling of percussive rock drilling: Estimation of rate of penetration based on multiple impact simulations with a commercial drill bit. Computers and Geotechnics, 2018, 99, 55-63. | 4.7 | 35 |
| 13 | The Taylor–Quinney coefficients and strain hardening of commercially pure titanium, iron, copper, and tin in high rate compression. International Journal of Impact Engineering, 2021, 156, 103940. | 5.0 | 35 |
| 14 | Characterization and numerical modeling of high strain rate mechanical behavior of Ti-15-3 alloy for machining simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 350-357. | 5.6 | 33 |
| 15 | Dynamic Behavior and High Speed Machining of Ti-6246 and Alloy 625 Superalloys: Experimental and Modeling Approaches. Experimental Mechanics, 2014, 54, 199-210. | 2.0 | 27 |
| 16 | Application of DIC Technique for Studies of Kuru Granite Rock under Static and Dynamic Loading. , 2014, 3, 691-697. | | 25 |
| 17 | In-vivo deformation measurements of the human heart by 3D Digital Image Correlation. Journal of Biomechanics, 2015, 48, 2217-2220. | 2.1 | 25 |
| 18 | Wear of cemented tungsten carbide percussive drill–bit inserts: Laboratory and field study. Wear, 2017, 386-387, 106-117. | 3.1 | 25 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Effects of Heat Shock on the Dynamic Tensile Behavior of Granitic Rocks. Rock Mechanics and Rock Engineering, 2017, 50, 1171-1182. | 5.4 | 24 |
| 20 | Effects of Test Temperature and Low Temperature Thermal Cycling on the Dynamic Tensile Strength of Granitic Rocks. Rock Mechanics and Rock Engineering, 2021, 54, 443-454. | 5.4 | 23 |
| 21 | Numerical 3D modeling of the effects of strain rate and confining pressure on the compressive behavior of Kuru granite. Computers and Geotechnics, 2017, 88, 1-8. | 4.7 | 21 |
| 22 | Experimental and numerical study of drill bit drop tests on Kuru granite. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160176. | 3.4 | 21 |
| 23 | Dynamic Mode â; fracture behavior of rocks under hydrostatic pressure using the short core in compression (SCC) method. International Journal of Mining Science and Technology, 2021, 31, 927-937. | 10.3 | 21 |
| 24 | Thermomechanical Behavior of Steels in Tension Studied with Synchronized Full-Field Deformation and Temperature Measurements. Experimental Techniques, 2021, 45, 627-643. | 1.5 | 18 |
| 25 | Persistent luminescent particles containing bioactive glasses: Prospect toward tracking in-vivo implant mineralization using biophotonic ceramics. Journal of the European Ceramic Society, 2018, 38, 287-295. | 5.7 | 12 |
| 26 | Adiabatic heating and damage onset in a pultruded glass fiber reinforced composite under compressive loading at different strain rates International Journal of Impact Engineering, 2021, 147, 103728. | 5.0 | 12 |
| 27 | Fluorine losses in Er3+ oxyfluoride phosphate glasses and glass-ceramics. Journal of Alloys and Compounds, 2019, 797, 797-803. | 5.5 | 11 |
| 28 | Characterization of strain rate and temperature dependent mechanical behavior of TWIP steels. European Physical Journal Special Topics, 2006, 134, 1301-1306. | 0.2 | 10 |
| 29 | Investigation of the effect of different cutting parameters on chip formation of low-lead brass with experiments and simulations. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 1620-1634. | 2.4 | 10 |
| 30 | High Temperature Dynamic Tension Behavior of Titanium Tested with Two Different Methods. Procedia Engineering, 2017, 197, 130-139. | 1.2 | 10 |
| 31 | An Optical Method for the In-Vivo Characterization of the Biomechanical Response of the Right Ventricle. Scientific Reports, 2018, 8, 6831. | 3.3 | 10 |
| 32 | Effects of strain rate on strain-induced martensite nucleation and growth in 301LN metastable austenitic steel. Materials Science & Description (2014) Microstructure and Processing, 2022, 831, 142218. | 5.6 | 10 |
| 33 | Skin-conformable printed supercapacitors and their performance in wear. Scientific Reports, 2020, 10, 15194. | 3.3 | 9 |
| 34 | Successful preparation of fluorine containing glasses with persistent luminescence using the direct doping method. Journal of Alloys and Compounds, 2019, 787, 1260-1264. | 5.5 | 8 |
| 35 | Phosphate/oxyfluorophosphate glass crystallization and its impact on dissolution and cytotoxicity. Materials Science and Engineering C, 2020, 117, 111269. | 7.3 | 8 |
| 36 | Experimental study of adhesively bonded natural fibre composite â€" steel hybrid laminates. Composites Part C: Open Access, 2021, 5, 100157. | 3.2 | 8 |

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| 37 | High Strain Rate Torsion Properties of Ultrafine-Grained Aluminum. Experimental Mechanics, 2012, 52, 195-203. | 2.0 | 7 |
| 38 | A numerical and experimental study on the tensile behavior of plasma shocked granite under dynamic loading. Rakenteiden Mekaniikka, 2017, 50, 41-62. | 0.2 | 7 |
| 39 | Finite-Element Simulations of Split Hopkinson Test of Ti-Based Alloy. Advanced Materials Research, 0, 223, 296-303. | 0.3 | 6 |
| 40 | Effects of strain rate and surface cracks on the mechanical behaviour of Balmoral Red granite. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160179. | 3.4 | 5 |
| 41 | Optical, structural and luminescence properties of oxyfluoride phosphate glasses and glass-ceramics doped with Yb3+. Journal of Non-Crystalline Solids: X, 2019, 1, 100003. | 1.2 | 5 |
| 42 | Thermal jet drilling of granite rock: a numerical 3D finite-element study. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200128. | 3.4 | 5 |
| 43 | Dynamic flexural failure of rocks under hydrostatic pressure: Laboratory test and theoretical modeling. International Journal of Impact Engineering, 2021, 156, 103946. | 5.0 | 5 |
| 44 | Effects of Microstructure on the Dynamic Strain Aging in Ferritic-Pearlitic Steels. Journal of Dynamic Behavior of Materials, 2018, 4, 452-463. | 1.7 | 4 |
| 45 | Synchronized Full-Field Strain and Temperature Measurements of Commercially Pure Titanium under Tension at Elevated Temperatures and High Strain Rates. Metals, 2022, 12, 25. | 2.3 | 4 |
| 46 | Modelling of the dynamic behaviour of hard-to-machine alloys. EPJ Web of Conferences, 2012, 26, 04009. | 0.3 | 3 |
| 47 | Experimental investigation of the impact response of novel steelbiocomposite hybrid materials. EPJ Web of Conferences, 2018, 183, 02040. | 0.3 | 3 |
| 48 | Characterization of the anisotropic deformation of the right ventricle during open heart surgery. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 103-113. | 1.6 | 3 |
| 49 | Strain Hardening and Adiabatic Heating of Stainless Steels After a Sudden Increase of Strain Rate. Journal of Dynamic Behavior of Materials, 0, , 1. | 1.7 | 3 |
| 50 | DIC Measurements of the Human Heart During Cardiopulmonary Bypass Surgery. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 51-59. | 0.5 | 2 |
| 51 | Numerical modeling of the dynamic strain aging in steels at high strain rates and high temperatures. EPJ Web of Conferences, 2021, 250, 02023. | 0.3 | 2 |
| 52 | Simultaneous full-field strain and temperature measurements in high strain rate testing. , 2022, , 255-285. | | 2 |
| 53 | Numerical modeling and experimentation of dynamic indentation with single and triple indenters on Kuru granite., 2013,, 415-421. | | 2 |
| 54 | Failure prediction for high-strain rate and out-of-plane compression of fibrous composites. Composites Science and Technology, 2022, 218, 109141. | 7.8 | 2 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Characterization of the mechanical behavior of ultrafinegrained metals using digital image correlation. EPJ Web of Conferences, 2010, 6, 05005. | 0.3 | 1 |
| 56 | Dynamic Compression Behavior and Numerical Modeling of Ti-6246 Alloy at Different Temperatures. Key Engineering Materials, 2012, 527, 159-164. | 0.4 | 1 |
| 57 | A method for stereoscopic strain analysis of the right ventricle by digital image correlation during coronary bypass surgery: short communication. Biomedizinische Technik, 2015, 60, 257-61. | 0.8 | 1 |
| 58 | Digital Image Correlation Study of the Deformation and Functioning of the Human Heart during Open-Heart Surgery. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 19-27. | 0.5 | 1 |
| 59 | Strain rate jump tests on an austenitic stainless steel with a modified tensile Hopkinson split bar. EPJ Web of Conferences, 2018, 183, 02026. | 0.3 | 1 |
| 60 | Simultaneous Full-Field Strain and Temperature Measurements in Tensile Hopkinson Bar Experiments at Extreme Temperatures. EPJ Web of Conferences, 2021, 250, 01015. | 0.3 | 1 |
| 61 | Impact damage resistance of novel adhesively bonded natural fibre composite – Steel hybrid laminates. International Journal of Lightweight Materials and Manufacture, 2022, 5, 29-43. | 2.1 | 1 |
| 62 | Microstructure and texture evolution in high manganese TWIP steels. , 2009, , . | | 1 |
| 63 | Effects of surface cracks and strain rate on the tensile behavior of Balmoral Red granite. EPJ Web of Conferences, 2015, 94, 02007. | 0.3 | 0 |
| 64 | Effects of microstructure on the dynamic strain aging of ferriticpearlitic steels at high strain rates. EPJ Web of Conferences, 2018, 183, 03009. | 0.3 | 0 |
| 65 | Temperature Dependence of Material Behaviour at High Strain-Rate. Journal of Dynamic Behavior of Materials, 2019, 5, 197-197. | 1.7 | О |
| 66 | Quantitative assessment of full field deformation of right ventricle during open heart surgery. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 157-165. | 1.9 | 0 |
| 67 | On the effect of the microstructure on the dynamic behaviour of Ti-6Al-4V. EPJ Web of Conferences, 2021, 250, 02013. | 0.3 | 0 |
| 68 | Some aspects of the behavior of metastable austenitic steels at high strain rates. EPJ Web of Conferences, 2021, 250, 03011. | 0.3 | 0 |
| 69 | Homogenization effects on simulated pultruded glass fibre reinforced laminate under compression – from static to dynamic models. EPJ Web of Conferences, 2021, 250, 02034. | 0.3 | 0 |
| 70 | Dynamic Behavior and Numerical Modeling of Titanium 15-3-3-3 Alloy. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 235-242. | 0.5 | 0 |