

Mikko Hokka

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,333
citations

361413

20
h-index

377865

34
g-index

73
all docs

73
docs citations

73
times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous full-field strain and temperature measurements in high strain rate testing. , 2022, , 255-285.		2
2	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
3	Effects of strain rate on strain-induced martensite nucleation and growth in 301LN metastable austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142218.	5.6	10
4	Failure prediction for high-strain rate and out-of-plane compression of fibrous composites. Composites Science and Technology, 2022, 218, 109141.	7.8	2
5	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
6	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
7	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
8	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
9	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
10	On the effect of the microstructure on the dynamic behaviour of Ti-6Al-4V. EPJ Web of Conferences, 2021, 250, 02013.	0.3	0
11	Some aspects of the behavior of metastable austenitic steels at high strain rates. EPJ Web of Conferences, 2021, 250, 03011.	0.3	0
12	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
13	Thermomechanical Behavior of Steels in Tension Studied with Synchronized Full-Field Deformation and Temperature Measurements. Experimental Techniques, 2021, 45, 627-643.	1.5	18
14	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
15	Experimental study of adhesively bonded natural fibre composite “ steel hybrid laminates. Composites Part C: Open Access, 2021, 5, 100157.	3.2	8
16	Dynamic Mode “j 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
17	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
18	Dynamic flexural failure of rocks under hydrostatic pressure: Laboratory test and theoretical modeling. International Journal of Impact Engineering, 2021, 156, 103946.	5.0	5

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19	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
20	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
21	Skin-conformable printed supercapacitors and their performance in wear. Scientific Reports, 2020, 10, 15194.	3.3	9
22	Phosphate/oxyfluorophosphate glass crystallization and its impact on dissolution and cytotoxicity. Materials Science and Engineering C, 2020, 117, 111269.	7.3	8
23	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
24	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
25	Highly ductile amorphous oxide at room temperature and high strain rate. Science, 2019, 366, 864-869.	12.6	107
26	Temperature Dependence of Material Behaviour at High Strain-Rate. Journal of Dynamic Behavior of Materials, 2019, 5, 197-197.	1.7	0
27	Adiabatic Heating of Austenitic Stainless Steels at Different Strain Rates. Journal of Dynamic Behavior of Materials, 2019, 5, 221-229.	1.7	41
28	Fluorine losses in Er ³⁺ oxyfluoride phosphate glasses and glass-ceramics. Journal of Alloys and Compounds, 2019, 797, 797-803.	5.5	11
29	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
30	Optical, structural and luminescence properties of oxyfluoride phosphate glasses and glass-ceramics doped with Yb ³⁺ . Journal of Non-Crystalline Solids: X, 2019, 1, 100003.	1.2	5
31	Luminescence of Er ³⁺ doped oxyfluoride phosphate glasses and glass-ceramics. Journal of Alloys and Compounds, 2018, 751, 224-230.	5.5	35
32	An Optical Method for the In-Vivo Characterization of the Biomechanical Response of the Right Ventricle. Scientific Reports, 2018, 8, 6831.	3.3	10
33	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
34	Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial. ACS Applied Materials & Interfaces, 2018, 10, 11950-11960.	8.0	43
35	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
36	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

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37	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
38	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
39	Experimental investigation of the impact response of novel steelbiocomposite hybrid materials. EPJ Web of Conferences, 2018, 183, 02040.	0.3	3
40	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
41	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
42	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
43	Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. Journal of Materials Chemistry B, 2017, 5, 4514-4525.	5.8	48
44	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
45	High Temperature Dynamic Tension Behavior of Titanium Tested with Two Different Methods. Procedia Engineering, 2017, 197, 130-139.	1.2	10
46	Wear of cemented tungsten carbide percussive drillâ€“bit inserts: Laboratory and field study. Wear, 2017, 386-387, 106-117.	3.1	25
47	Effects of Heat Shock on the Dynamic Tensile Behavior of Granitic Rocks. Rock Mechanics and Rock Engineering, 2017, 50, 1171-1182.	5.4	24
48	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
49	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
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	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
52	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
53	In-vivo deformation measurements of the human heart by 3D Digital Image Correlation. Journal of Biomechanics, 2015, 48, 2217-2220.	2.1	25
54	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

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55	Application of DIC Technique for Studies of Kuru Granite Rock under Static and Dynamic Loading. , 2014, 3, 691-697.		25
56	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
57	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
58	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
59	Numerical modeling and experimentation of dynamic indentation with single and triple indenters on Kuru granite. , 2013, , 415-421.		2
60	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
61	Dynamic Compression Behavior and Numerical Modeling of Ti-6246 Alloy at Different Temperatures. Key Engineering Materials, 2012, 527, 159-164.	0.4	1
62	Modelling of the dynamic behaviour of hard-to-machine alloys. EPJ Web of Conferences, 2012, 26, 04009.	0.3	3
63	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
64	High Strain Rate Torsion Properties of Ultrafine-Grained Aluminum. Experimental Mechanics, 2012, 52, 195-203.	2.0	7
65	Characterization of the mechanical behavior of ultrafinegrained metals using digital image correlation. EPJ Web of Conferences, 2010, 6, 05005.	0.3	1
66	Deformation behavior of TRIP and DP steels in tension at different temperatures over a wide range of strain rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 507, 124-131.	5.6	169
67	Microstructure and texture evolution in high manganese TWIP steels. , 2009, , .		1
68	Characterization of strain rate and temperature dependent mechanical behavior of TWIP steels. European Physical Journal Special Topics, 2006, 134, 1301-1306.	0.2	10
69	Finite-Element Simulations of Split Hopkinson Test of Ti-Based Alloy. Advanced Materials Research, 0, 223, 296-303.	0.3	6
70	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