

Olga Barrera

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2431669/publications.pdf>

Version: 2024-02-01

18
papers

582
citations

933447

10
h-index

940533

16
g-index

19
all docs

19
docs citations

19
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and mitigating hydrogen embrittlement of steels: a review of experimental, modelling and design progress from atomistic to continuum. <i>Journal of Materials Science</i> , 2018, 53, 6251-6290.	3.7	249
2	Modelling the coupling between hydrogen diffusion and the mechanical behaviour of metals. <i>Computational Materials Science</i> , 2016, 122, 219-228.	3.0	102
3	On the behavior of a three-dimensional fractional viscoelastic constitutive model. <i>Meccanica</i> , 2017, 52, 2127-2142.	2.0	51
4	The finite element implementation of 3D fractional viscoelastic constitutive models. <i>Finite Elements in Analysis and Design</i> , 2018, 146, 28-41.	3.2	37
5	Advanced microscopy analysis of the micro-nanoscale architecture of human menisci. <i>Scientific Reports</i> , 2019, 9, 18732.	3.3	22
6	Computational modelling of hydrogen embrittlement in welded structures. <i>Philosophical Magazine</i> , 2013, 93, 2680-2700.	1.6	18
7	The Functionally Grading Elastic and Viscoelastic Properties of the Body Region of the Knee Meniscus. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2421-2429.	2.5	16
8	High Resolution Micro-Computed Tomography Reveals a Network of Collagen Channels in the Body Region of the Knee Meniscus. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2273-2281.	2.5	15
9	Viscoelastic material models for more accurate polyethylene wear estimation. <i>Journal of Strain Analysis for Engineering Design</i> , 2018, 53, 302-312.	1.8	14
10	A micromechanical image-based model for the featureless zone of a Fe-Ni dissimilar weld. <i>Philosophical Magazine</i> , 2014, 94, 1361-1377.	1.6	13
11	The Human Meniscus Behaves as a Functionally Graded Fractional Porous Medium under Confined Compression Conditions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9405.	2.5	11
12	A procedure for slicing and characterizing soft heterogeneous and irregular-shaped tissue. <i>Materials Today: Proceedings</i> , 2020, 33, 2020-2026.	1.8	6
13	Development and optimisation of micromechanical testing techniques to study the properties of meniscal tissue. <i>Materials Today: Proceedings</i> , 2020, 33, 1954-1958.	1.8	6
14	A unified modelling and simulation for coupled anomalous transport in porous media and its finite element implementation. <i>Computational Mechanics</i> , 2021, 68, 1267-1282.	4.0	6
15	Experimental Characterization of the Human Meniscal Tissue. , 2018, , .		4
16	Circumferential crack modeling of thin cylindrical shells in modal deformation. <i>European Journal of Mechanics, A/Solids</i> , 2021, 90, 104360.	3.7	3
17	Computational Modelling of Hydrogen Embrittlement in Weld Joints of Subsea Oil and Gas Components. , 2013, , .		1
18	Mesoscopic model of hydrogen embrittlement in particle strengthened materials. <i>Philosophical Magazine</i> , 2022, 102, 698-717.	1.6	0