

Nikolaos Baimpas

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

341
citations

759233

12
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

446
citing authors

#	ARTICLE	IF	CITATIONS
1	A state-of-the-art review of micron-scale spatially resolved residual stress analysis by FIB-DIC ring-core milling and other techniques. <i>Journal of Strain Analysis for Engineering Design</i> , 2015, 50, 426-444.	1.8	46
2	Strain tomography of polycrystalline zirconia dental prostheses by synchrotron X-ray diffraction. <i>Acta Materialia</i> , 2011, 59, 2501-2513.	7.9	42
3	Multiple-length-scale deformation analysis in a thermoplastic polyurethane. <i>Nature Communications</i> , 2015, 6, 6583.	12.8	40
4	<i>In situ</i> X-ray scattering evaluation of heat-induced ultrastructural changes in dental tissues and synthetic hydroxyapatite. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130928.	3.4	24
5	Understanding nature's residual strain engineering at the human dentine-enamel junction interface. <i>Acta Biomaterialia</i> , 2016, 32, 256-263.	8.3	23
6	Multiscale modelling and diffraction-based characterization of elastic behaviour of human dentine. <i>Acta Biomaterialia</i> , 2013, 9, 7937-7947.	8.3	22
7	Imaging of grain-level orientation and strain in thicker metallic polycrystals by high energy transmission micro-beam Laue (HETL) diffraction techniques. <i>International Journal of Materials Research</i> , 2012, 103, 192-199.	0.3	22
8	Structure-mechanical function relations at nano-scale in heat-affected human dental tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 32, 113-124.	3.1	20
9	Nano-scale mapping of lattice strain and orientation inside carbon core SiC fibres by synchrotron X-ray diffraction. <i>Carbon</i> , 2014, 79, 85-92.	10.3	17
10	Hierarchical modelling of in situ elastic deformation of human enamel based on photoelastic and diffraction analysis of stresses and strains. <i>Acta Biomaterialia</i> , 2014, 10, 343-354.	8.3	16
11	Hierarchical modelling of elastic behaviour of human enamel based on synchrotron diffraction characterisation. <i>Journal of Structural Biology</i> , 2013, 184, 136-146.	2.8	15
12	A feasibility study of dynamic stress analysis inside a running internal combustion engine using synchrotron X-ray beams. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 316-323.	2.4	14
13	RICH TOMOGRAPHY TECHNIQUES FOR THE ANALYSIS OF MICROSTRUCTURE AND DEFORMATION. <i>International Journal of Computational Methods</i> , 2014, 11, 1343006.	1.3	10
14	Investigations into the interface failure of yttria partially stabilised zirconia - porcelain dental prostheses through microscale residual stress and phase quantification. <i>Dental Materials</i> , 2019, 35, 1576-1593.	3.5	10
15	Stress evaluation in thin films: Micro-focus synchrotron X-ray diffraction combined with focused ion beam patterning for do evaluation. <i>Thin Solid Films</i> , 2013, 549, 245-250.	1.8	6
16	Residual strain mapping through pair distribution function analysis of the porcelain veneer within a yttria partially stabilised zirconia dental prosthesis. <i>Dental Materials</i> , 2019, 35, 257-269.	3.5	6
17	Characterisation of nanovoiding in dental porcelain using small angle neutron scattering and transmission electron microscopy. <i>Dental Materials</i> , 2017, 33, 486-497.	3.5	5
18	The application of geometry corrections for Diffraction Strain Tomography (DST) analysis of a Ni-base superalloy blade. <i>Powder Diffraction</i> , 2013, 28, S436-S447.	0.2	1

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19	<i>In </i> <i>Si</i><i>tu</i> X-Ray Diffraction Measurements of the Apparent Modulus of Human Dental Tissue in the Vicinity of the Dentine-Enamel Junction (DEJ). Applied Mechanics and Materials, 0, 798, 339-343.	0.2	0