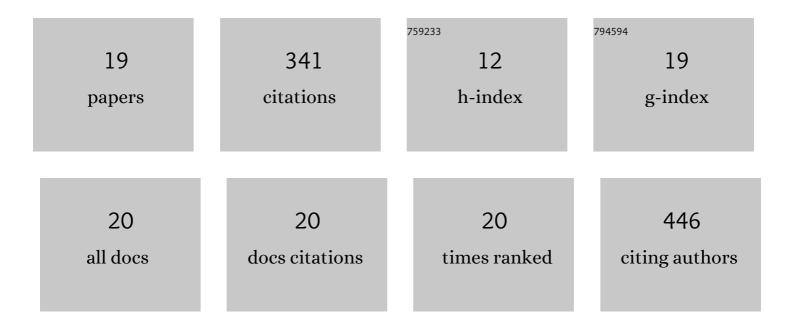
Nikolaos Baimpas

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/10701878/publications.pdf Version: 2024-02-01



#	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. Journal of Strain Analysis for Engineering Design, 2015, 50, 426-444.	1.8	46
2	Strain tomography of polycrystalline zirconia dental prostheses by synchrotron X-ray diffraction. Acta Materialia, 2011, 59, 2501-2513.	7.9	42
3	Multiple-length-scale deformation analysis in a thermoplastic polyurethane. Nature Communications, 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. Journal of the Royal Society Interface, 2014, 11, 20130928.	3.4	24
5	Understanding nature's residual strain engineering at the human dentine–enamel junction interface. Acta Biomaterialia, 2016, 32, 256-263.	8.3	23
6	Multiscale modelling and diffraction-based characterization of elastic behaviour of human dentine. Acta Biomaterialia, 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. International Journal of Materials Research, 2012, 103, 192-199.	0.3	22
8	Structure-mechanical function relations at nano-scale in heat-affected human dental tissue. Journal of the Mechanical Behavior of Biomedical Materials, 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. Carbon, 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. Acta Biomaterialia, 2014, 10, 343-354.	8.3	16
11	Hierarchical modelling of elastic behaviour of human enamel based on synchrotron diffraction characterisation. Journal of Structural Biology, 2013, 184, 136-146.	2.8	15
12	A feasibility study of dynamic stress analysis insideÂaÂrunning internal combustion engine usingÂsynchrotron X-ray beams. Journal of Synchrotron Radiation, 2013, 20, 316-323.	2.4	14
13	RICH TOMOGRAPHY TECHNIQUES FOR THE ANALYSIS OF MICROSTRUCTURE AND DEFORMATION. International Journal of Computational Methods, 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. Dental Materials, 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. Thin Solid Films, 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. Dental Materials, 2019, 35, 257-269.	3.5	6
17	Characterisation of nanovoiding in dental porcelain using small angle neutron scattering and transmission electron microscopy. Dental Materials, 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. Powder Diffraction, 2013, 28, S436-S447.	0.2	1

#	Article	IF	CITATIONS
19	<i>In Situ</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