

Guillaume Couñat

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

386
citations

933447

10
h-index

752698

20
g-index

25
all docs

25
docs citations

25
times ranked

360
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage investigation and modeling of 3D woven ceramic matrix composites from X-ray tomography in-situ tensile tests. <i>Acta Materialia</i> , 2017, 140, 130-139.	7.9	99
2	Structural optimization of dental restorations using the principle of adaptive growth. <i>Dental Materials</i> , 2006, 22, 3-12.	3.5	46
3	Damage analysis of thin 3D-woven SiC/SiC composite under low velocity impact loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 247-253.	7.6	40
4	Damage assessment of thin SiC/SiC composite plates subjected to quasi-static indentation loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1677-1685.	7.6	34
5	Scaling strength distributions in quasi-brittle materials from micro- to macro-scales: A computational approach to modeling Nature-inspired structural ceramics. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 68, 93-106.	4.8	26
6	Variational segmentation of textile composite preforms from X-ray computed tomography. <i>Composite Structures</i> , 2019, 230, 111496.	5.8	26
7	Virtual testing applied to transverse multiple cracking of tows in woven ceramic composites. <i>Mechanics Research Communications</i> , 2011, 38, 579-585.	1.8	16
8	Modeling of the non-linear mechanical and thermomechanical behavior of 3D carbon/carbon composites based on internal interfaces. <i>Carbon</i> , 2019, 154, 178-191.	10.3	16
9	Synthesis and optimization of low-pressure chemical vapor deposition-silicon nitride coatings deposited from SiHCl ₃ and NH ₃ . <i>Thin Solid Films</i> , 2019, 681, 47-57.	1.8	13
10	Image-Based Numerical Modeling of Self-Healing in a Ceramic-Matrix Minicomposite. <i>Ceramics</i> , 2019, 2, 308-326.	2.6	10
11	Digitization and image-based structure-properties relationship evaluation of a porous gold micro-electrode. <i>Materials and Design</i> , 2020, 193, 108812.	7.0	10
12	Synthesis and characterization of monolithic CVD-SiC tubes. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1873-1883.	5.7	9
13	Stereochemistry of nitrogen lone pair in NH ₃ E, NOFE, N ₂ O ₃ E ₂ , AgNO ₂ E, and NCl ₃ E. <i>Comptes Rendus Chimie</i> , 2017, 20, 446-459.	0.5	8
14	Finite element modelling of traction-free cracks: Benchmarking the augmented finite element method (AFEM). <i>Engineering Fracture Mechanics</i> , 2021, 253, 107873.	4.3	7
15	A quantitative, space-resolved method for optical anisotropy estimation in bulk carbons. <i>Carbon</i> , 2015, 91, 423-435.	10.3	6
16	Performance assessment of the augmented finite element method for the modeling of weak discontinuities. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 172-189.	2.8	4
17	Stereochemistry and ab initio topology analyses of electron lone pair triplets and twins in interhalogen compounds and halogen suboxides. <i>Progress in Solid State Chemistry</i> , 2017, 47-48, 1-18.	7.2	3
18	Structural Optimization of Dental Restorations Using the Principle of Adaptive Growth. , 2004, , 495.		0

#	ARTICLE	IF	CITATIONS
19	Feasibility of a weakly intrusive Generalized Finite Element Method implementation in a commercial code: Application to Ceramic Matrix Composite micro-structures. Computers and Structures, 2021, 242, 106374.	4.4	0