Luis Saucedo-Mora

List of Publications by Year
in descending order

19	280	1040056 9	1058476 14
papers	citations	h-index	g-index

19	19	19	251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In situ observation of mechanical damage within a SiC-SiC ceramic matrix composite. Journal of Nuclear Materials, 2016, 481, 13-23.	2.7	67
2	Synchrotron X-ray characterization of crack strain fields in polygranular graphite. Carbon, 2017, 124, 357-371.	10.3	45
3	Multi-scale modeling of damage development in a thermal barrier coating. Surface and Coatings Technology, 2015, 276, 399-407.	4.8	26
4	Observation and simulation of indentation damage in a SiCâ€“SiCfibre ceramic matrix composite. Finite Elements in Analysis and Design, 2016, 110, 11-19.	3.2	23
5	FEMME: A multi-scale Finite Element Microstructure MEshfree fracture model for quasi-brittle materials with complex microstructures. Engineering Fracture Mechanics, 2015, 147, 355-372.	4.3	18
6	3D Studies of Damage by Combined X-ray Tomography and Digital Volume Correlation. , 2014, 3, 1554-1559.		17
7	Multi-scale damage modelling in a ceramic matrix composite using a finite-element microstructure meshfree methodology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150276.	3.4	14
8	Method for the explicit insertion of microstructure in Cellular Automata Finite Element (CAFE) models based on an irregular tetrahedral Finite Element mesh: Application in a multi-scale Finite Element Microstructure MEshfree framework (FEMME). Finite Elements in Analysis and Design, 2015, 105, 56-62.	3.2	13
9	3D Cellular Automata Finite Element Method with Explicit Microstructure: Modeling Quasi-brittle Fracture using Meshfree Damage Propagation. , 2014, 3, 1143-1148.		12
10	Obtaining the J-integral by diffraction-based crack-field strain mapping. Procedia Structural Integrity, 2016, 2, 2519-2526.	0.8	12
11	Threeâ€dimensional measurement and cohesive element modelling of deformation and damage in a 2.5â€dimensional woven ceramic matrix composite. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 683-695.	3.4	9
12	Evaluation of a sealed layer on a porous thermal barrier coating against molten calciumâ€“magnesiumâ€“aluminaâ€“silicate corrosion. Materials and Design, 2021, 208, 109918.	7.0	9
13	Beneficial effects of magnetron-sputtered Alâ€“Y seal layers on porous thermal barrier coatings. Journal of Alloys and Compounds, 2019, 804, 147-154.	5.5	7
14	Contactless safety evaluation of damaged structures through energetic criteria. Structural Control and Health Monitoring, 2018, 25, e2060.	4.0	3
15	Application of DIC to monitor reinforced concrete structures. , 0, , .		2
16	A two-parameter strain energy function for brain matter: An extension of the Hencky model to incorporate locking. Brain Multiphysics, 2021, 2, 100036.	2.3	2
17	Correction of the Spurious Strains and Displacements Caused by Out of Plane Movements in Digital Image Correlation (DIC) with a Single Camera. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	1
18	Plasma-sprayed thermal barrier coatings: numerical study on damage localization and evolution. Frattura Ed Integrita Strutturale, 2016, 10, 322-329.	0.9	0

#	Article	IF	Citations
19	Fatigue Model for the Structural Integrity Evaluation Applied to a Wind Turbine Concrete Shaft, Considering Corrosion and Freeze and Thaw Degradation. , 2018, , 2144-2151.		0