

Andrei Constantinescu

List of Publications by Year in descending order

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67
papers

1,708
citations

257450

24
h-index

302126

39
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69
all docs

69
docs citations

69
times ranked

1254
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of thin micro-architected panels with extensional bending coupling effects using topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114496.	6.6	7
2	Statistically equivalent surrogate material models: Impact of random imperfections on the elasto-plastic response. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, , 115278.	6.6	1
3	Systematic two-scale image analysis of extreme deformations in soft architected sheets. <i>International Journal of Mechanical Sciences</i> , 2021, 194, 106205.	6.7	4
4	Shape-shifting panel from 3D printed undulated ribbon lattice. <i>Extreme Mechanics Letters</i> , 2021, 42, 101089.	4.1	5
5	Tensile and ductile fracture properties of as-printed 316L stainless steel thin walls obtained by directed energy deposition. <i>Additive Manufacturing</i> , 2021, 37, 101664.	3.0	8
6	FIB manufactured microstructures with low coefficients of thermal expansion. <i>Mechanics Research Communications</i> , 2021, 114, 103667.	1.8	2
7	Crushing of additively manufactured thin-walled metallic lattices: Two-scale strain localization analysis. <i>Mechanics of Materials</i> , 2021, 160, 103915.	3.2	8
8	Design and testing of 3D-printed micro-architected polymer materials exhibiting a negative Poisson's ratio. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 433-449.	2.2	21
9	High resolution digital image correlation for microstructural strain analysis of a stainless steel repaired by Directed Energy Deposition. <i>Materials Letters</i> , 2020, 270, 127632.	2.6	21
10	A Statistical Framework for Generating Microstructures of Two-Phase Random Materials: Application to Fatigue Analysis. <i>Multiscale Modeling and Simulation</i> , 2020, 18, 21-43.	1.6	10
11	Influence of interlayer dwell time on the microstructure of Inconel 718 Laser Cladded components. <i>Optics and Laser Technology</i> , 2020, 128, 106218.	4.6	32
12	Self-heating behavior during cyclic loadings of 316L stainless steel specimens manufactured or repaired by Directed Energy Deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 786, 139476.	5.6	29
13	Identification of the material behavior of adhesive joints under dynamic multiaxial loadings. <i>International Journal of Impact Engineering</i> , 2019, 133, 103355.	5.0	4
14	Computational fatigue assessment of mooring chains under tension loading. <i>Engineering Failure Analysis</i> , 2019, 106, 104043.	4.0	7
15	Design of multi-layer materials using inverse homogenization and a level set method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 388-409.	6.6	20
16	A critical comparison of shear tests for adhesive joints. <i>International Journal of Adhesion and Adhesives</i> , 2018, 84, 63-79.	2.9	26
17	A New Multiaxial Specimen for Determining the Dynamic Properties of Adhesive Joints. <i>Experimental Mechanics</i> , 2018, 58, 1207-1219.	2.0	2
18	A computational approach based on a multiaxial fatigue criterion combining phase transformation and shakedown response for the fatigue life assessment of Nitinol stents. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 3710-3724.	2.5	8

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19	A modified dissipated energy fatigue criterion to consider the thermo-oxidative ageing of electrically conductive silicone adhesive joints. <i>International Journal of Fatigue</i> , 2018, 116, 68-79.	5.7	7
20	Stress relaxation in polymeric microlattice materials. <i>Materials and Design</i> , 2017, 130, 433-441.	7.0	19
21	Graphitization and amorphization of textured carbon using high-energy nanosecond laser pulses. <i>Carbon</i> , 2016, 105, 227-232.	10.3	6
22	Micromechanical modeling for the probabilistic failure prediction of stents in high-cycle fatigue. <i>International Journal of Fatigue</i> , 2016, 87, 405-417.	5.7	10
23	Microstructure and deformation mechanisms of a solid propellant using ¹ H NMR spectroscopy. <i>Fuel</i> , 2015, 148, 39-47.	6.4	28
24	Molecular Origin of the Influence of the Temperature on the Loss Factor of a Solid Propellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2015, 40, 469-478.	1.6	5
25	Influence of fillers and bonding agents on the viscoelasticity of highly filled elastomers. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	4
26	Effect of the sol fraction and hydrostatic deformation on the viscoelastic behavior of prestrained highly filled elastomers. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1772-1780.	2.6	17
27	TMFâ€“LCF life assessment of a Lost Foam Casting A319 aluminum alloy. <i>International Journal of Fatigue</i> , 2013, 53, 75-81.	5.7	48
28	Influence of orthogonal prestrain on the viscoelastic behaviour of highly-filled elastomers. <i>Polymer Testing</i> , 2013, 32, 375-384.	4.8	10
29	Fracture of a borosilicate glass under triaxial tension. <i>Mechanics of Materials</i> , 2013, 57, 15-29.	3.2	15
30	TMF criteria for Lost Foam Casting aluminum alloys. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 349-360.	3.4	19
31	A non-iterative sampling approach using noise subspace projection for EIT. <i>Inverse Problems</i> , 2012, 28, 075015.	2.0	3
32	The inverse problem of seismic fault determination using part time measurements. <i>Journal of Mechanics of Materials and Structures</i> , 2012, 7, 997-1007.	0.6	1
33	Fast time-scale average for a mesoscopic high cycle fatigue criterion. <i>International Journal of Fatigue</i> , 2012, 45, 39-47.	5.7	4
34	Influence of prestrain on mechanical properties of highly-filled elastomers: Measurements and modeling. <i>Polymer Testing</i> , 2012, 31, 978-986.	4.8	30
35	A computational approach for the fatigue design of threaded connections. <i>International Journal of Fatigue</i> , 2011, 33, 610-623.	5.7	25
36	Semianalytical solution for the stress distribution in notched tubes. <i>International Journal of Fatigue</i> , 2011, 33, 557-567.	5.7	6

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37	Behavior, damage and fatigue life assessment of lost foam casting aluminum alloys under thermo-mechanical fatigue conditions. <i>Procedia Engineering</i> , 2010, 2, 1145-1154.	1.2	30
38	Modeling of thermal shock-induced damage in a borosilicate glass. <i>Mechanics of Materials</i> , 2010, 42, 863-872.	3.2	31
39	Plasticity and asperity-induced fatigue crack closure under mixed-mode loading. <i>International Journal of Fatigue</i> , 2010, 32, 1612-1619.	5.7	11
40	A Modeling Approach to Predict Fretting Fatigue on Highly Loaded Blade Roots. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, .	1.1	9
41	Dissipative aspects in high cycle fatigue. <i>Mechanics of Materials</i> , 2009, 41, 483-494.	3.2	54
42	Crack initiation under thermal fatigue: An overview of CEA experience. Part I: Thermal fatigue appears to be more damaging than uniaxial isothermal fatigue. <i>International Journal of Fatigue</i> , 2009, 31, 587-600.	5.7	62
43	Crack initiation under thermal fatigue: An overview of CEA experience Part II (of II): Application of various criteria to biaxial thermal fatigue tests and a first proposal to improve the estimation of the thermal fatigue damage. <i>International Journal of Fatigue</i> , 2009, 31, 1196-1210.	5.7	36
44	The influence of indenter bluntness on the apparent contact stiffness of thin coatings. <i>Thin Solid Films</i> , 2009, 517, 4835-4844.	1.8	24
45	Numerical exploration of the Dang Van high cycle fatigue criterion: application to gradient effects. <i>Journal of Mechanics of Materials and Structures</i> , 2009, 4, 293-308.	0.6	20
46	On the reconstruction of residual stresses after matter removal in rods. <i>Comptes Rendus - Mecanique</i> , 2008, 336, 69-78.	2.1	1
47	A multiscale approach of fatigue and shakedown for notched structures. <i>Theoretical and Applied Fracture Mechanics</i> , 2007, 48, 140-151.	4.7	27
48	A computational lifetime prediction of a thermal shock experiment. Part I: thermomechanical modelling and lifetime prediction. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2006, 29, 175-182.	3.4	20
49	A computational lifetime prediction of a thermal shock experiment. Part II: discussion on difference fatigue criteria. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2006, 29, 219-227.	3.4	28
50	Estimation of the mesoscopic thermoplastic dissipation in High-Cycle Fatigue. <i>Comptes Rendus - Mecanique</i> , 2006, 334, 373-379.	2.1	9
51	A comparison of lifetime prediction methods for a thermal fatigue experiment. <i>International Journal of Fatigue</i> , 2006, 28, 692-706.	5.7	50
52	Identification of Poroelastic Constants of "Tight" Rocks from Laboratory Tests. <i>International Journal of Geomechanics</i> , 2006, 6, 201-208.	2.7	7
53	Sensitivity analysis for parameter identification in quasi-static poroelasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2005, 29, 163-185.	3.3	21
54	Inverse problems in elasticity. <i>Inverse Problems</i> , 2005, 21, R1-R50.	2.0	315

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55	A computational approach to thermomechanical fatigue. International Journal of Fatigue, 2004, 26, 805-818.	5.7	108
56	Critère de fatigue polycyclique pour des matériaux anisotropes: application aux monocristaux. Comptes Rendus - Mécanique, 2004, 332, 115-121.	2.1	12
57	Numerical identification of linear cracks in 2D elastodynamics using the instantaneous reciprocity gap. Inverse Problems, 2004, 20, 993-1001.	2.0	43
58	Dissipation and fatigue damage. Materialprüfung/Materials Testing, 2004, 46, 524-530.	2.2	7
59	A unified approach for high and low cycle fatigue based on shakedown concepts. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 561-568.	3.4	65
60	Numerical and experimental modal analysis of the reed and pipe of a clarinet. Journal of the Acoustical Society of America, 2003, 113, 2874-2883.	1.1	23
61	Fatigue design of structures under thermomechanical loadings. Fatigue and Fracture of Engineering Materials and Structures, 2002, 25, 1199-1206.	3.4	104
62	Mechanical model of the inspiratory pump. Journal of Biomechanics, 2002, 35, 139-145.	2.1	10
63	On the identification of elastoviscoplastic constitutive laws from indentation tests. Inverse Problems in Science and Engineering, 2001, 9, 19-44.	0.5	37
64	Diffraction acoustique inverse de fissure plane: Solution explicite pour un solide borné. Comptes Rendus De L'Académie De Sciences - Série IIb: Mécanique, Physique, Chimie, Astronomie, 1999, 327, 971-976.	0.1	5
65	On the identification of elastic moduli from displacement-force boundary measurements. Inverse Problems in Science and Engineering, 1995, 1, 293-313.	0.5	38
66	On the inversion of subsurface residual stresses from surface stress measurements. Journal of the Mechanics and Physics of Solids, 1994, 42, 1767-1787.	4.8	27
67	Viscoelastic behavior of filled silicone elastomers and influence of aging in inert and hermetic environment. Continuum Mechanics and Thermodynamics, 0, , .	2.2	1