

Ercan GÃ¼rsoy

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

670
citations

759233

12
h-index

552781

26
g-index

41
all docs

41
docs citations

41
times ranked

568
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust algorithm for configurational-force-driven brittle crack propagation with R-adaptive mesh alignment. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 72, 127-155.	2.8	128
2	Experimental and computational study of the damage process in CFRP composite beams under low-velocity impact. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 167-182.	7.6	99
3	A computational framework of three-dimensional configurational-force-driven brittle crack propagation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 1413-1428.	6.6	87
4	Analysis of material instabilities in inelastic solids by incremental energy minimization and relaxation methods: evolving deformation microstructures in finite plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 2725-2769.	4.8	79
5	A computational framework of configurational-force-driven brittle fracture based on incremental energy minimization. <i>International Journal of Fracture</i> , 2007, 145, 245-259.	2.2	54
6	Shock-induced subgrain microstructures as possible homogenous sources of hot spots and initiation sites in energetic polycrystals. <i>Physical Review B</i> , 2010, 81, .	3.2	34
7	On evolving deformation microstructures in non-convex partially damaged solids. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1268-1290.	4.8	29
8	A phenomenological two-phase constitutive model for porous shape memory alloys. <i>Computational Materials Science</i> , 2012, 60, 44-52.	3.0	25
9	A variational multiscale constitutive model for nanocrystalline materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 732-749.	4.8	18
10	Modeling of spherulite microstructures in semicrystalline polymers. <i>Mechanics of Materials</i> , 2015, 90, 83-101.	3.2	18
11	On tension–compression asymmetry in ultrafine-grained and nanocrystalline metals. <i>Computational Materials Science</i> , 2010, 50, 639-644.	3.0	13
12	Modeling and simulation of coupled phase transformation and stress evolution in thermal barrier coatings. <i>International Journal of Plasticity</i> , 2020, 134, 102790.	8.8	13
13	A constitutive model of nanocrystalline metals based on competing grain boundary and grain interior deformation mechanisms. <i>Materials Letters</i> , 2011, 65, 3391-3395.	2.6	11
14	Constitutive modeling of strain rate effects in nanocrystalline and ultrafine grained polycrystals. <i>International Journal of Solids and Structures</i> , 2011, 48, 1610-1616.	2.7	10
15	Decamber Morphing Concepts by Using a Hybrid Trailing Edge Control Surface. <i>Aerospace</i> , 2015, 2, 482-504.	2.2	8
16	Finite Element Modelling of TBC Failure Mechanisms by Using XFEM and CZM. <i>Procedia Structural Integrity</i> , 2019, 21, 91-100.	0.8	8
17	Micromechanical modelling of carbon nanotube reinforced composite materials with a functionally graded interphase. <i>Journal of Composite Materials</i> , 2019, 53, 4337-4348.	2.4	7
18	Polymer interfaces with carbon nanostructures: First principles density functional theory and molecular dynamics study of polyetheretherketone adsorption on graphene and nanotubes. <i>Computational Materials Science</i> , 2021, 191, 110320.	3.0	5

#	ARTICLE	IF	CITATIONS
19	Structural and aerodynamic analyses of a hybrid trailing edge control surface of a fully morphing wing. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 979-991.	2.5	4
20	Analytical and Numerical Methods for Finite-Strain Elastoplasticity. , 2006, , 491-529.		4
21	Application of Relaxation Techniques to Nonconvex Isotropic Damage Model. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2003, 3, 222-223.	0.2	2
22	Numerical Computation of Anisotropically Evolving Yield Surfaces Based on Micro-to-Macro Transitions. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2004, 4, 219-220.	0.2	2
23	Development of Bolted Flange Design Tool Based on Finite Element Analysis and Artificial Neural Network. , 2015, , .		2
24	Development of Artificial Neural Network Based Design Tool for Aircraft Engine Bolted Flange Connection Subject to Combined Axial and Moment Load. , 2017, , .		2
25	Development of a procedure to model the mechanical behavior of composites with embedded element method by considering the matrix non-linearity. <i>Composite Structures</i> , 2021, 259, 113400.	5.8	2
26	Constitutive modeling of stress-driven grain growth in nanocrystalline metals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 025011.	2.0	1
27	Experimental Study and Finite Element Analysis of Dovetail Attachments. , 2017, , .		1
28	A modulus gradient model for an axially loaded inhomogeneous elastic rod. <i>Meccanica</i> , 2018, 53, 2573-2584.	2.0	1
29	Development of Bolted Flange Design Tool Based on Artificial Neural Network. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2019, 141, .	0.6	1
30	A Two-Level Homogenization Approach for Polymer Nanocomposites with Coated Inclusions. <i>Procedia Structural Integrity</i> , 2022, 35, 34-41.	0.8	1
31	A computational framework of three dimensional configurational-force-driven crack propagation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 4030019-4030020.	0.2	0
32	Softening in Nanocrystalline Metals: Modeling of Grain Growth Induced Creep and Relaxation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 377-378.	0.2	0
33	Multiscale Modeling of Nanocrystalline Materials: A Variational Approach. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011, 11, 511-512.	0.2	0
34	Experimental and Computational Investigation of Out-of-Plane Low Velocity Impact Behavior of CFRP Composite Plates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 9-16.	0.5	0
35	Development of Structural Neural Network Design Tool for Buckling Behaviour of Skin-Stringer Structures Under Combined Compression and Shear Loading. , 2018, , .		0
36	Finite Element Modelling of TBC Failure Mechanisms by Using XFEM. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	A modulus gradient model for inhomogeneous materials with isotropic linear elastic constituents. European Journal of Mechanics, A/Solids, 2019, 78, 103846.	3.7	0
38	Modeling of a Three-Dimensional Spherulite Microstructure in Semicrystalline Polymers. Lecture Notes in Computational Science and Engineering, 2016, , 567-575.	0.3	0