Cihan TekoÄlu

List of Publications by Year
in descending order

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26	1,232	623188	552369
papers	citations	14	26
		h-index	g-index

27	27	27	856
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ductile failure predictions using micromechanically-based computational models. Journal of the Mechanics and Physics of Solids, 2022, 164, 104873.	2.3	12
2	Unit cell calculations under fully characterized stress states. International Journal of Plasticity, 2022, 156, 103358.	4.1	12
3	Effect of imperfections on the actuation performance of lattice materials. International Journal of Solids and Structures, 2022, 252, 111779.	1.3	1
4	On the dependence of crack surface morphology and energy dissipation on microstructure in ductile plate tearing. International Journal of Fracture, 2021, 230, 115.	1.1	3
5	A crystal plasticity based finite element framework for RVE calculations of two-phase materials: Void nucleation in dual-phase steels. Finite Elements in Analysis and Design, 2021, 187, 103510.	1.7	24
6	The role of intermetallic particles on mode I crack propagation mechanisms in metal plates. Engineering Fracture Mechanics, 2021, 253, 107901.	2.0	5
7	Cohesive tractionâ€“separation relations for tearing of ductile plates with randomly distributed void nucleation sites. International Journal of Fracture, 2020, 224, 187-198.	1.1	11
8	Effect of damage-related microstructural parameters on plate tearing at steady state. European Journal of Mechanics, A/Solids, 2019, 77, 103818.	2.1	10
9	A Micromechanics Based Numerical Investigation of Dual Phase Steels. Procedia Structural Integrity, 2019, 21, 61-72.	0.3	7
10	2D lattice material architectures for actuation. Journal of the Mechanics and Physics of Solids, 2019, 124, 83-101.	2.3	10
11	Experimental Investigation of Crack Propagation Mechanisms in Commercially Pure Aluminium Plates. Procedia Structural Integrity, 2019, 21, 2-11.	0.3	3
12	On the Sufficient Symmetry Conditions for Isotropy of Elastic Moduli. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	1.1	2
13	Theoretical and numerical analysis of void coalescence in porous ductile solids under arbitrary loadings. International Journal of Plasticity, 2017, 91, 160-181.	4.1	38
14	A quest for 2D lattice materials for actuation. Journal of the Mechanics and Physics of Solids, 2017, 105, 199-216.	2.3	12
15	Void coalescence in ductile solids containing two populations of voids. Engineering Fracture Mechanics, 2015, 147, 418-430.	2.0	21
16	On localization and void coalescence as a precursor to ductile fracture. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140121.	1.6	112
17	Representative volume element calculations under constant stress triaxiality, Lode parameter, and shear ratio. International Journal of Solids and Structures, 2014, 51, 4544-4553.	1.3	40
18	A criterion for the onset of void coalescence under combined tension and shear. Journal of the Mechanics and Physics of Solids, 2012, 60, 1363-1381.	2.3	91

#	Article	IF	Citations
19	Size effects in foams: Experiments and modeling. Progress in Materials Science, 2011, 56, 109-138.	16.0	176
20	Void growth and coalescence in ductile solids with stage III and stage IV strain hardening. International Journal of Plasticity, 2011, 27, 1203-1223.	4.1	106
21	The growth and coalescence of ellipsoidal voids in plane strain under combined shear and tension. Journal of the Mechanics and Physics of Solids, 2011, 59, 373-397.	2.3	124
22	A micromechanics based damage model for composite materials. International Journal of Plasticity, 2010, 26, 549-569.	4.1	59
23	Multiscale modeling of ductile failure in metallic alloys. Comptes Rendus Physique, 2010, 11, 326-345.	0.3	52
24	Void growth and coalescence in single crystals. International Journal of Solids and Structures, 2010, 47, 1016-1029.	1.3	120
25	Size effects in two-dimensional Voronoi foams: A comparison between generalized continua and discrete models. Journal of the Mechanics and Physics of Solids, 2008, 56, 3541-3564.	2.3	123
26	Size effects in the mechanical behavior of cellular materials. Journal of Materials Science, 2005, 40, 5911-5917.	1.7	58