Cihan TekoÄlu

List of Publications by Year
in descending order

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	Size effects in foams: Experiments and modeling. Progress in Materials Science, 2011, 56, 109-138.	16.0	176
2	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
3	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
4	Void growth and coalescence in single crystals. International Journal of Solids and Structures, 2010, 47, 1016-1029.	1.3	120
5	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
6	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
7	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
8	A micromechanics based damage model for composite materials. International Journal of Plasticity, 2010, 26, 549-569.	4.1	59
9	Size effects in the mechanical behavior of cellular materials. Journal of Materials Science, 2005, 40, 5911-5917.	1.7	58
10	Multiscale modeling of ductile failure in metallic alloys. Comptes Rendus Physique, 2010, 11, 326-345.	0.3	52
11	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
12	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
13	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
14	Void coalescence in ductile solids containing two populations of voids. Engineering Fracture Mechanics, 2015, 147, 418-430.	2.0	21
15	A quest for 2D lattice materials for actuation. Journal of the Mechanics and Physics of Solids, 2017, 105, 199-216.	2.3	12
16	Ductile failure predictions using micromechanically-based computational models. Journal of the Mechanics and Physics of Solids, 2022, 164, 104873.	2.3	12
17	Unit cell calculations under fully characterized stress states. International Journal of Plasticity, 2022, 156, 103358.	4.1	12
18	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

#	Article	IF	Citations
19	Effect of damage-related microstructural parameters on plate tearing at steady state. European Journal of Mechanics, A/Solids, 2019, 77, 103818.	2.1	10
20	2D lattice material architectures for actuation. Journal of the Mechanics and Physics of Solids, 2019, 124, 83-101.	2.3	10
21	A Micromechanics Based Numerical Investigation of Dual Phase Steels. Procedia Structural Integrity, 2019, 21, 61-72.	0.3	7
22	The role of intermetallic particles on mode I crack propagation mechanisms in metal plates. Engineering Fracture Mechanics, 2021, 253, 107901.	2.0	5
23	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
24	Experimental Investigation of Crack Propagation Mechanisms in Commercially Pure Aluminium Plates. Procedia Structural Integrity, 2019, 21, 2-11.	0.3	3
25	On the Sufficient Symmetry Conditions for Isotropy of Elastic Moduli. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	1.1	2
26	Effect of imperfections on the actuation performance of lattice materials. International Journal of Solids and Structures, 2022, 252, 111779.	1.3	1