Cihan Tekoglu

List of Publications by Year in Descending Order

23 papers	954 citations	12 h-index	27 g-index
27 ext. papers	1,086 ext. citations	5.4 avg, IF	4.58 L-index

#	Paper	IF	Citations
23	Ductile failure predictions using micromechanically-based computational models. *Journal of the Mechanics and Physics of Solids*, **2022**, 164, 104873	5	1
22	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	2.2	4
21	On the dependence of crack surface morphology and energy dissipation on microstructure in ductile plate tearing. *International Journal of Fracture*, **2021**, 230, 115	2.3	0
20	The role of intermetallic particles on mode I crack propagation mechanisms in metal plates. *Engineering Fracture Mechanics*, **2021**, 253, 107901	4.2	1
19	Cohesive traction–separation relations for tearing of ductile plates with randomly distributed void nucleation sites. *International Journal of Fracture*, **2020**, 224, 187-198	2.3	4
18	Effect of damage-related microstructural parameters on plate tearing at steady state. *European Journal of Mechanics, A/Solids*, **2019**, 77, 103818	3.7	6
17	Experimental Investigation of Crack Propagation Mechanisms in Commercially Pure Aluminium Plates. *Procedia Structural Integrity*, **2019**, 21, 2-11	1	0
16	A Micromechanics Based Numerical Investigation of Dual Phase Steels. *Procedia Structural Integrity*, **2019**, 21, 61-72	1	2
15	2D lattice material architectures for actuation. *Journal of the Mechanics and Physics of Solids*, **2019**, 124, 83-101	5	5
14	Theoretical and numerical analysis of void coalescence in porous ductile solids under arbitrary loadings. *International Journal of Plasticity*, **2017**, 91, 160-181	7.6	27
13	A quest for 2D lattice materials for actuation. *Journal of the Mechanics and Physics of Solids*, **2017**, 105, 199-216	5	7
12	Void coalescence in ductile solids containing two populations of voids. *Engineering Fracture Mechanics*, **2015**, 147, 418-430	4.2	12
11	On localization and void coalescence as a precursor to ductile fracture. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	86
10	Representative volume element calculations under constant stress triaxiality, Lode parameter, and shear ratio. *International Journal of Solids and Structures*, **2014**, 51, 4544-4553	3.1	35
9	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	5	70
8	Size effects in foams: Experiments and modeling. *Progress in Materials Science*, **2011**, 56, 109-138	42.2	141
7	Void growth and coalescence in ductile solids with stage III and stage IV strain hardening. *International Journal of Plasticity*, **2011**, 27, 1203-1223	7.6	94

6	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	5	107
5	A micromechanics based damage model for composite materials. *International Journal of Plasticity*, **2010**, 26, 549-569	7.6	52
4	Multiscale modeling of ductile failure in metallic alloys. *Comptes Rendus Physique*, **2010**, 11, 326-345	1.4	44
3	Void growth and coalescence in single crystals. *International Journal of Solids and Structures*, **2010**, 47, 1016-1029	3.1	100
2	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	5	107
1	Size effects in the mechanical behavior of cellular materials. *Journal of Materials Science*, **2005**, 40, 5911-5917	4.3	49