

# Cihan Tekoglu

## List of Publications by Citations

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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	Size effects in foams: Experiments and modeling. <i>Progress in Materials Science</i> , <b>2011</b> , 56, 109-138	42.2	141
22	The growth and coalescence of ellipsoidal voids in plane strain under combined shear and tension. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2011</b> , 59, 373-397	5	107
21	Size effects in two-dimensional Voronoi foams: A comparison between generalized continua and discrete models. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 3541-3564	5	107
20	Void growth and coalescence in single crystals. <i>International Journal of Solids and Structures</i> , <b>2010</b> , 47, 1016-1029	3.1	100
19	Void growth and coalescence in ductile solids with stage III and stage IV strain hardening. <i>International Journal of Plasticity</i> , <b>2011</b> , 27, 1203-1223	7.6	94
18	On localization and void coalescence as a precursor to ductile fracture. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	86
17	A criterion for the onset of void coalescence under combined tension and shear. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2012</b> , 60, 1363-1381	5	70
16	A micromechanics based damage model for composite materials. <i>International Journal of Plasticity</i> , <b>2010</b> , 26, 549-569	7.6	52
15	Size effects in the mechanical behavior of cellular materials. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 5911-5917	4.3	49
14	Multiscale modeling of ductile failure in metallic alloys. <i>Comptes Rendus Physique</i> , <b>2010</b> , 11, 326-345	1.4	44
13	Representative volume element calculations under constant stress triaxiality, Lode parameter, and shear ratio. <i>International Journal of Solids and Structures</i> , <b>2014</b> , 51, 4544-4553	3.1	35
12	Theoretical and numerical analysis of void coalescence in porous ductile solids under arbitrary loadings. <i>International Journal of Plasticity</i> , <b>2017</b> , 91, 160-181	7.6	27
11	Void coalescence in ductile solids containing two populations of voids. <i>Engineering Fracture Mechanics</i> , <b>2015</b> , 147, 418-430	4.2	12
10	A quest for 2D lattice materials for actuation. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 105, 199-216	5	7
9	Effect of damage-related microstructural parameters on plate tearing at steady state. <i>European Journal of Mechanics, A/Solids</i> , <b>2019</b> , 77, 103818	3.7	6
8	2D lattice material architectures for actuation. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 124, 83-101	5	5
7	Cohesive traction-separation relations for tearing of ductile plates with randomly distributed void nucleation sites. <i>International Journal of Fracture</i> , <b>2020</b> , 224, 187-198	2.3	4

6	A crystal plasticity based finite element framework for RVE calculations of two-phase materials: Void nucleation in dual-phase steels. <i>Finite Elements in Analysis and Design</i> , <b>2021</b> , 187, 103510	2.2	4
5	A Micromechanics Based Numerical Investigation of Dual Phase Steels. <i>Procedia Structural Integrity</i> , <b>2019</b> , 21, 61-72	1	2
4	The role of intermetallic particles on mode I crack propagation mechanisms in metal plates. <i>Engineering Fracture Mechanics</i> , <b>2021</b> , 253, 107901	4.2	1
3	Ductile failure predictions using micromechanically-based computational models. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2022</b> , 164, 104873	5	1
2	Experimental Investigation of Crack Propagation Mechanisms in Commercially Pure Aluminium Plates. <i>Procedia Structural Integrity</i> , <b>2019</b> , 21, 2-11	1	0
1	On the dependence of crack surface morphology and energy dissipation on microstructure in ductile plate tearing. <i>International Journal of Fracture</i> , <b>2021</b> , 230, 115	2.3	0