

# Oguz Umut Salman

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

413  
citations

840585

11  
h-index

794469

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

427  
citing authors

#	ARTICLE	IF	CITATIONS
1	Taming intermittent plasticity at small scales. Acta Materialia, 2017, 128, 351-364.	3.8	58
2	Mean Green operators of deformable fiber networks embedded in a compliant matrix and property estimates. Continuum Mechanics and Thermodynamics, 2019, 31, 101-132.	1.4	56
3	Martensitic phase transformations in Ni-Ti-based shape memory alloys: The Landau theory. Acta Materialia, 2012, 60, 6784-6792.	3.8	48
4	Minimal Integer Automaton behind Crystal Plasticity. Physical Review Letters, 2011, 106, 175503.	2.9	41
5	A Cosserat crystal plasticity and phase field theory for grain boundary migration. Journal of the Mechanics and Physics of Solids, 2018, 115, 167-194.	2.3	40
6	On the critical nature of plastic flow: One and two dimensional models. International Journal of Engineering Science, 2012, 59, 219-254.	2.7	37
7	Volume Changes During Active Shape Fluctuations in Cells. Physical Review Letters, 2015, 114, 208101.	2.9	34
8	Landau-Type Theory of Planar Crystal Plasticity. Physical Review Letters, 2019, 123, 205501.	2.9	22
9	The role of phase compatibility in martensite. Journal of Applied Physics, 2012, 111, 103517.	1.1	20
10	Overdamped langevin dynamics simulations of grain boundary motion. Materials Theory, 2019, 3, .	2.2	12
11	Variety of scaling behaviors in nanocrystalline plasticity. Physical Review E, 2020, 102, 023006.	0.8	12
12	Fluctuations in crystalline plasticity. Comptes Rendus Physique, 2021, 22, 163-199.	0.3	7
13	Atomistic simulation of martensite microstructural evolution during temperature driven transition in pure titanium. Computational Materials Science, 2022, 203, 111057.	1.4	6
14	Investigation of SIBM driven recrystallization in alpha Zirconium based on EBSD data and Monte Carlo modeling. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012029.	0.3	5
15	Discontinuous yielding of pristine micro-crystals. Comptes Rendus Physique, 2021, 22, 201-248.	0.3	4
16	De-localizing brittle fracture. Journal of the Mechanics and Physics of Solids, 2021, 154, 104517.	2.3	4
17	Fluorescence study on Al <sub>2</sub> O <sub>3</sub> -polystyrene latex composite film formation. Polymer Composites, 2005, 26, 352-360.	2.3	3
18	Tempering the mechanical response of FCC micro-pillars: An Eulerian plasticity approach. Mechanics Research Communications, 2021, 114, 103665.	1.0	2

#	ARTICLE	IF	CITATIONS
19	Continuum theory of bending-to-stretching transition. Physical Review E, 2019, 100, 051001.	0.8	1