

Oguz Umut Salman

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

413
citations

840585

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all docs

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427
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomistic simulation of martensite microstructural evolution during temperature driven $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1307" altimg="si1.svg" \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \hat{\rho}^2 \langle \text{mml:mi} \langle \text{mml:mo} \hat{\rho} \langle \text{mml:mo} \langle \text{mml:mi} \hat{\rho} \langle \text{mml:mi} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \rangle \rangle \rangle \rangle \rangle \rangle$ transition in pure titanium. Computational Materials Science, 2022, 203, 111057.	1.4	6
2	Fluctuations in crystalline plasticity. Comptes Rendus Physique, 2021, 22, 163-199.	0.3	7
3	Discontinuous yielding of pristine micro-crystals. Comptes Rendus Physique, 2021, 22, 201-248.	0.3	4
4	Tempering the mechanical response of FCC micro-pillars: An Eulerian plasticity approach. Mechanics Research Communications, 2021, 114, 103665.	1.0	2
5	De-localizing brittle fracture. Journal of the Mechanics and Physics of Solids, 2021, 154, 104517.	2.3	4
6	Variety of scaling behaviors in nanocrystalline plasticity. Physical Review E, 2020, 102, 023006.	0.8	12
7	Landau-Type Theory of Planar Crystal Plasticity. Physical Review Letters, 2019, 123, 205501.	2.9	22
8	Continuum theory of bending-to-stretching transition. Physical Review E, 2019, 100, 051001.	0.8	1
9	Overdamped langevin dynamics simulations of grain boundary motion. Materials Theory, 2019, 3, .	2.2	12
10	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
11	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
12	Taming intermittent plasticity at small scales. Acta Materialia, 2017, 128, 351-364.	3.8	58
13	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
14	Volume Changes During Active Shape Fluctuations in Cells. Physical Review Letters, 2015, 114, 208101.	2.9	34
15	The role of phase compatibility in martensite. Journal of Applied Physics, 2012, 111, 103517.	1.1	20
16	On the critical nature of plastic flow: One and two dimensional models. International Journal of Engineering Science, 2012, 59, 219-254.	2.7	37
17	Martensitic phase transformations in Ni-Ti-based shape memory alloys: The Landau theory. Acta Materialia, 2012, 60, 6784-6792.	3.8	48
18	Minimal Integer Automaton behind Crystal Plasticity. Physical Review Letters, 2011, 106, 175503.	2.9	41

#	ARTICLE	IF	CITATIONS
19	Fluorescence study on Al ₂ O ₃ -polystyrene latex composite film formation. Polymer Composites, 2005, 26, 352-360.	2.3	3