

Anand K Kanjarla

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,490
citations

706676

14
h-index

620720

26
g-index

27
all docs

27
docs citations

27
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	An atomistic study of the influence of carbon on the core structure of screw dislocation in BCC Fe and its consequences on non-Schmid behavior. <i>Materials Today Communications</i> , 2022, 31, 103285.	0.9	1
2	A crystal plasticity investigation on the influence of orientation relationships on texture evolution during rolling in fcc/bcc two phase materials. <i>Materials Today Communications</i> , 2022, 31, 103300.	0.9	4
3	Crystal plasticity modelling of stability of residual stresses induced by shot peening. <i>International Journal of Mechanical Sciences</i> , 2022, 230, 107526.	3.6	14
4	Hot deformation characteristics and microstructure evolution of Ti-5Al-3Mo-1.5V alloy. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2021, 13, 49-62.	0.7	3
5	Intrinsic Dimensionality of Microstructure Data. <i>Integrating Materials and Manufacturing Innovation</i> , 2021, 10, 44-57.	1.2	5
6	Hot Deformation Studies on β 20 Stabilized TiAl Alloy Made Through Ingot Metallurgy Route. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 2977-2989.	0.7	2
7	Estimation of Local Strain Fields in Two-Phase Elastic Composite Materials Using UNet-Based Deep Learning. <i>Integrating Materials and Manufacturing Innovation</i> , 2021, 10, 444-460.	1.2	15
8	Understanding the strain-dependent structure of Cu nanocrystals in Ag-Cu nanoalloys. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26165-26177.	1.3	5
9	Effect of the structure and morphology of carbon nanotubes on the vibration damping characteristics of polymer-based composites. <i>Nanoscale Advances</i> , 2020, 2, 1228-1235.	2.2	9
10	Role of core-shell energetics on anti-Mackay, chiral stacking in AgCu nanoalloys and thermally induced transition to chiral stacking. <i>Scientific Reports</i> , 2020, 10, 3296.	1.6	6
11	Role of deformation twinning and second phase on the texture evolution in a duplex stainless steel during cold rolling: Experimental and modelling study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 780, 139155.	2.6	14
12	Role of microstructure on the tension/compression asymmetry in a two-phase Ti-5Al-3Mo-1.5V titanium alloy. <i>Journal of Alloys and Compounds</i> , 2019, 795, 151-162.	2.8	19
13	Evolution of microstructure in niobium rich (β 20) based titanium aluminide alloy during hot compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 708-718.	2.6	17
14	A crystal plasticity FFT based study of deformation twinning, anisotropy and micromechanics in HCP materials: Application to AZ31 alloy. <i>International Journal of Plasticity</i> , 2019, 113, 269-290.	4.1	36
15	Crystal Plasticity Study of Heterogeneous Deformation Behavior in β 3 Matrix Channels during High Temperature Low Stress Creep of Single Crystal Superalloys. <i>Materials Performance and Characterization</i> , 2019, 8, 20190008.	0.2	0
16	Hot deformation characteristics and microstructure evolution of Hastelloy C-276. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 240-254.	2.6	57
17	Effect of temperature on the selection of deformation modes in Zircaloy-4. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 734, 210-223.	2.6	25
18	Numerical study of the stress state of a deformation twin in magnesium. <i>Acta Materialia</i> , 2015, 84, 349-358.	3.8	191

#	ARTICLE	IF	CITATIONS
19	Polycrystal Plasticity: Comparison Between Grain - Scale Observations of Deformation and Simulations. Annual Review of Condensed Matter Physics, 2014, 5, 317-346.	5.2	130
20	Stochastic modeling of twin nucleation in polycrystals: An application in hexagonal close-packed metals. International Journal of Plasticity, 2014, 56, 119-138.	4.1	134
21	Introducing Grain Boundary Influenced Stochastic Effects into Constitutive Models. Jom, 2013, 65, 419-430.	0.9	16
22	Novel microstructure quantification framework for databasing, visualization, and analysis of microstructure data. Integrating Materials and Manufacturing Innovation, 2013, 2, 54-80.	1.2	98
23	Spatially resolved in situ strain measurements from an interior twinned grain in bulk polycrystalline AZ31 alloy. Acta Materialia, 2013, 61, 3612-3620.	3.8	61
24	Study of internal lattice strain distributions in stainless steel using a full-field elasto-viscoplastic formulation based on fast Fourier transforms. Acta Materialia, 2012, 60, 3094-3106.	3.8	89
25	An elasto-viscoplastic formulation based on fast Fourier transforms for the prediction of micromechanical fields in polycrystalline materials. International Journal of Plasticity, 2012, 32-33, 59-69.	4.1	438
26	On the Role of Local Grain Interactions on Twin Nucleation and Texture Evolution in Hexagonal Materials. Materials Science Forum, 2011, 702-703, 265-268.	0.3	5
27	Assessment of plastic heterogeneity in grain interaction models using crystal plasticity finite element method. International Journal of Plasticity, 2010, 26, 1220-1233.	4.1	96