

Koushik Viswanathan

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

307
citations

933447

10
h-index

888059

17
g-index

23
all docs

23
docs citations

23
times ranked

214
citing authors

#	ARTICLE	IF	CITATIONS
1	An Analytical Method for Predicting Temperature Rise Due to Multi-body Thermal Interaction in Deformation Processing. <i>Jom</i> , 2022, 74, 513-525.	1.9	5
2	Microbial induced calcite precipitation can consolidate martian and lunar regolith simulants. <i>PLoS ONE</i> , 2022, 17, e0266415.	2.5	7
3	Propagating Schallamach-type waves resemble interface cracks. <i>Physical Review E</i> , 2022, 105, 045002.	2.1	1
4	Mechanical Behavior and High Formability of Palm Leaf Materials. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000080.	5.8	6
5	Surface-Stress Induced Embrittlement of Metals. <i>Nano Letters</i> , 2021, 21, 9502-9508.	9.1	6
6	Diffusion of water in palm leaf materials. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210483.	3.4	2
7	Organic monolayers disrupt plastic flow in metals. <i>Science Advances</i> , 2020, 6, .	10.3	12
8	On the Cutting of Metals: A Mechanics Viewpoint. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020, 142, .	2.2	20
9	Shear Bands in Materials Processing: Understanding the Mechanics of Flow Localization From Zener's Time to the Present. <i>Applied Mechanics Reviews</i> , 2020, 72, .	10.1	6
10	A Plastic Boundary Layer in Wedge Indentation of Aluminum. <i>Materials Transactions</i> , 2019, 60, 1436-1441.	1.2	5
11	A Mechanochemical Route to Cutting Highly Strain-Hardening Metals. <i>Tribology Letters</i> , 2019, 67, 1.	2.6	11
12	A common mechanism for evolution of single shear bands in large-strain deformation of metals. <i>Philosophical Magazine</i> , 2018, 98, 3267-3299.	1.6	12
13	Viscous Shear Banding in Cutting of Metals. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	8
14	Surface phenomena revealed by <i>in situ</i> imaging: studies from adhesion, wear and cutting. <i>Surface Topography: Metrology and Properties</i> , 2017, 5, 014002.	1.6	9
15	Distinct stick-slip modes in adhesive polymer interfaces. <i>Wear</i> , 2017, 376-377, 1271-1278.	3.1	35
16	On the extraordinary strength of Prince Rupert's drops. <i>Applied Physics Letters</i> , 2016, 109, 231903.	3.3	17
17	Stick-slip at soft adhesive interfaces mediated by slow frictional waves. <i>Soft Matter</i> , 2016, 12, 5265-5275.	2.7	35
18	Slow wave propagation in soft adhesive interfaces. <i>Soft Matter</i> , 2016, 12, 9185-9201.	2.7	12

#	ARTICLE	IF	CITATIONS
19	Sinuous flow in metals. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9828-9832.	7.1	66
20	Nucleation and propagation of solitary Schallamach waves. Physical Review E, 2015, 91, 012408.	2.1	14
21	Kinematic flow patterns in slow deformation of a dense granular material. Granular Matter, 2015, 17, 553-565.	2.2	6
22	Geometric treatment of conduction electron scattering by crystal lattice strains and dislocations. Journal of Applied Physics, 2014, 116, .	2.5	10