

James B Mann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11140856/publications.pdf>

Version: 2024-02-01

17
papers

313
citations

1163117

8
h-index

1199594

12
g-index

17
all docs

17
docs citations

17
times ranked

250
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of the interactive effects of strain, strain rate and temperature in severe plastic deformation of copper. <i>Acta Materialia</i> , 2009, 57, 5491-5500.	7.9	147
2	On the stability of plastic flow in cutting of metals. <i>CIRP Annals - Manufacturing Technology</i> , 2017, 66, 69-72.	3.6	27
3	Energy dissipation in modulation assisted machining. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 74, 41-49.	13.4	26
4	Material-Independent Mechanochemical Effect in the Deformation of Highly-Strain-Hardening Metals. <i>Physical Review Applied</i> , 2018, 10, .	3.8	24
5	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
6	Modulation-Assisted Machining: A New Paradigm in Material Removal Processes. <i>Advanced Materials Research</i> , 0, 223, 514-522.	0.3	11
7	Modelling of Tool Temperature in Modulation-assisted Machining. <i>Procedia CIRP</i> , 2017, 58, 204-209.	1.9	11
8	A Mechanochemical Route to Cutting Highly Strain-Hardening Metals. <i>Tribology Letters</i> , 2019, 67, 1.	2.6	11
9	Effect of Low-Frequency Modulation on Deformation and Material Flow in Cutting of Metals. <i>Journal of Tribology</i> , 2016, 138, .	1.9	9
10	Deformation and Microstructure in Machining. <i>Advanced Materials Research</i> , 0, 223, 325-331.	0.3	8
11	Effect of textured surfaces created by modulation-assisted machining on the Stribeck curve and wear properties of steel-aluminum contact. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 399-409.	3.0	7
12	Control of Chip Formation and Improved Chip Ejection in Drilling With Modulation-Assisted Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020, 142, .	2.2	4
13	Enhancing surface quality in cutting of gummy metals using nanoscale organic films. <i>CIRP Annals - Manufacturing Technology</i> , 2022, 71, 93-96.	3.6	4
14	A Comparative Study of Energy and Material Flow in Modulation-Assisted Machining and Conventional Machining. , 2014, , .		2
15	Glues Make Gummy Metals Easy To Cut. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	2.2	2
16	Inhomogeneity of Strain in Metal Particulates Produced by Modulation-Assisted Machining. <i>Minerals, Metals and Materials Series</i> , 2019, , 1499-1506.	0.4	0
17	What Do Chip Morphologies Tell Us About the Cutting Process?. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2019, , 349-359.	0.6	0