James B Mann

List of Publications by Year
in descending order

17	313	1163117 8	1199594 12
papers	citations	h-index	g-index

17	17	17	250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancing surface quality in cutting of gummy metals using nanoscale organic films. CIRP Annals - Manufacturing Technology, 2022, 71, 93-96.	3.6	4
2	Control of Chip Formation and Improved Chip Ejection in Drilling With Modulation-Assisted Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	4
3	On the Cutting of Metals: A Mechanics Viewpoint. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	20
4	Glues Make Gummy Metals Easy To Cut. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	2
5	Inhomogeneity of Strain in Metal Particulates Produced by Modulation-Assisted Machining. Minerals, Metals and Materials Series, 2019, , 1499-1506.	0.4	0
6	A Mechanochemical Route to Cutting Highly Strain-Hardening Metals. Tribology Letters, 2019, 67, 1.	2.6	11
7	What Do Chip Morphologies Tell Us About the Cutting Process?. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 349-359.	0.6	0
8	Effect of textured surfaces created by modulation-assisted machining on the Stribeck curve and wear properties of steel-aluminum contact. International Journal of Advanced Manufacturing Technology, 2018, 99, 399-409.	3.0	7
9	Material-Independent Mechanochemical Effect in the Deformation of Highly-Strain-Hardening Metals. Physical Review Applied, 2018, 10, .	3.8	24
10	Modelling of Tool Temperature in Modulation-assisted Machining. Procedia CIRP, 2017, 58, 204-209.	1.9	11
11	On the stability of plastic flow in cutting of metals. CIRP Annals - Manufacturing Technology, 2017, 66, 69-72.	3.6	27
12	Effect of Low-Frequency Modulation on Deformation and Material Flow in Cutting of Metals. Journal of Tribology, 2016, 138, .	1.9	9
13	A Comparative Study of Energy and Material Flow in Modulation-Assisted Machining and Conventional Machining. , 2014, , .		2
14	Energy dissipation in modulation assisted machining. International Journal of Machine Tools and Manufacture, 2013, 74, 41-49.	13.4	26
15	A study of the interactive effects of strain, strain rate and temperature in severe plastic deformation of copper. Acta Materialia, 2009, 57, 5491-5500.	7.9	147
16	Deformation and Microstructure in Machining. Advanced Materials Research, 0, 223, 325-331.	0.3	8
17	Modulation-Assisted Machining: A New Paradigm in Material Removal Processes. Advanced Materials Research, 0, 223, 514-522.	0.3	11