Ashok Misra

List of Publications by Year
in descending order

17 papers	446 citations	687363 13 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	148 citing authors

#	Article	IF	Citations
1	Electromagnetic effects at metallic fracture. Nature, 1975, 254, 133-134.	27.8	69
2	A physical model for the stress-induced electromagnetic effect in metals. Applied Physics Berlin, 1978, 16, 195-199.	1.4	52
3	A theoretical model for the electromagnetic radiation emission during plastic deformation and crack propagation in metallic materials. International Journal of Fracture, 2007, 145, 99-121.	2.2	47
4	Some basic aspects of electromagnetic radiation emission during plastic deformation and crack propagation in Cuâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 203-210.	5.6	35
5	Some basic aspects of electromagnetic radiation during crack propagation in metals. International Journal of Fracture, 2004, 127, 387-401.	2.2	33
6	Parametric Optimization and Performance Analysis of a Regenerative Organic Rankine Cycle Using Lowâ€“Grade Waste Heat for Power Generation. International Journal of Green Energy, 2011, 8, 173-196.	3.8	31
7	Effects of strain rate and elevated temperature on electromagnetic radiation emission during plastic deformation and crack propagation in ASTM B 265 grade 2 titanium sheets. Journal of Materials Science, 2008, 43, 5634-5643.	3.7	29
8	Electromagnetic radiation during plastic deformation under unrestricted quasi-static compression in metals and alloys. International Journal of Materials Research, 2010, 101, 857-864.	0.3	26
9	Can a stress alone applied to a demagnetized ferromagnetic specimen produce any magnetization?. Journal of Magnetism and Magnetic Materials, 1990, 89, 159-166.	2.3	22
10	Effect of Peierlsâ€™ stress on the electromagnetic radiation during yielding of metals. Mechanics of Materials, 2010, 42, 505-521.	3.2	22
11	Electromagnetic radiation during opening and shearing modes of fracture in commercially pure aluminium at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 404, 99-107.	5.6	21
12	Shape anisotropy of magnetic field generation during tensile fracture in steel. Journal of Magnetism and Magnetic Materials, 2005, 285, 71-78.	2.3	18
13	Effect of processing parameters on the electromagnetic radiation emission during plastic deformation and crack propagation in copper-zinc alloys. Journal of Zhejiang University: Science A, 2006, 7, 1800-1809.	2.4	18
14	Effect of rate of deformation on electromagnetic radiation during quasi-static compression of sintered aluminium preforms. International Journal of Materials Research, 2014, 105, 265-271.	0.3	14
15	Analysis of Laminates using Multiquadric Radial Basis Function. International Journal for Computational Methods in Engineering Science and Mechanics, 2007, 8, 303-312.	2.1	4
16	Comparative performance study of different configurations of organic Rankine cycle using low-grade waste heat for power generation. International Journal of Green Energy, 2017, 14, 212-228.	3.8	3
17	Effect of shape geometry on electromagnetic radiation under quasi-static compression in sintered aluminium preforms. International Journal of Energy Technology, 2020, , 12-25.	0.3	2