



P Murali

Assistant Professor, Department of Mechanical Engineering, BITS Pilani
[Mechanical behavior of materials](#),
[Atomistic Simulations](#), [Metallic glasses](#),
[Biocomposites](#)

Google Scholar

Citation indices	All	Since 2010
Citations	412	295
h-index	8	7
i10-index	6	5

Title 1–13	Cited by	Year
Embrittlement of a bulk metallic glass due to sub-T_g annealing P Murali, U Ramamurty Acta Materialia 53 (5), 1467-1478	211	2005
Atomic scale fluctuations govern brittle fracture and cavitation behavior in metallic glasses P Murali, TF Guo, YW Zhang, R Narasimhan, Y Li, HJ Gao Physical review letters 107 (21), 215501	52	2011
On factors influencing the ductile-to-brittle transition in a bulk metallic glass R Raghavan, P Murali, U Ramamurty Acta Materialia 57 (11), 3332-3340	52	2009
Ductile to brittle transition in the Zr 41.2 Ti 13.75 Cu 12.5 Ni 10 Be 22.5 bulk metallic glass R Raghavan, P Murali, U Ramamurty Intermetallics 14 (8), 1051-1054	44	2006
Influence of cooling rate on the enthalpy relaxation and fragility of a metallic glass R Raghavan, P Murali, U Ramamurty Metallurgical and Materials Transactions A 39 (7), 1573-1577	11	2008
Strain accommodation in inelastic deformation of glasses P Murali, U Ramamurty, VB Shenoy Physical Review B 75 (2), 024203	10	2007
Shear bands mediate cavitation in brittle metallic glasses P Murali, R Narasimhan, TF Guo, YW Zhang, HJ Gao Scripta Materialia 68 (8), 567-570	9	2013
On the characteristic length scales associated with plastic deformation in metallic glasses P Murali, YW Zhang, HJ Gao Applied Physics Letters 100 (20), 201901	8	2012

Title	1–13	Cited by	Year
Cavitation in materials with distributed weak zones: Implications on the origin of brittle fracture in metallic glasses	I Singh, TF Guo, P Murali, R Narasimhan, YW Zhang, HJ Gao Journal of the Mechanics and Physics of Solids 61 (4), 1047-1064	6	2013
Role of modulus mismatch on crack propagation and toughness enhancement in bioinspired composites	P Murali, TK Bhandakkar, WL Cheah, MH Jhon, H Gao, R Ahluwalia Physical Review E 84 (1), 015102	6	2011
Factors influencing deformation stability of binary glasses	P Murali, U Ramamurty, VB Shenoy The Journal of chemical physics 128 (10), 104508	3	2008
Failure and toughness of bio-inspired composites: Insights from phase field modelling	SN Khaderi, P Murali, R Ahluwalia Computational Materials Science 95, 1-7		2014
Multi-Scale Approaches For Understanding Deformation And Fracture Mechanisms In Amorphous Alloys	P Murali G21647		2010

Dates and citation counts are estimated and are determined automatically by a computer program.