

Sanjit Bhowmick

List of Publications by Year in descending order

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37
papers

1,075
citations

394421

19
h-index

395702

33
g-index

37
all docs

37
docs citations

37
times ranked

1285
citing authors

#	ARTICLE	IF	CITATIONS
19	Indentation Tests Reveal Geometry-Regulated Stiffening of Nanotube Junctions. Nano Letters, 2016, 16, 232-236.	9.1	18
20	In-situ study of microscale fracture of diffusion aluminide bond coats: Effect of platinum. Journal of Materials Research, 2015, 30, 3343-3353.	2.6	14
21	Optimization of clamped beam geometry for fracture toughness testing of micron-scale samples. Philosophical Magazine, 2015, 95, 1945-1966.	1.6	28
22	Influence of alumina impurities on microstructure of LSM-CeO ₂ composites. Solid State Ionics, 2011, 187, 68-77.	2.7	1
23	Hydrothermal Synthesis of Nanocrystalline Barium Cerate Using Hexamethylenetetramine. Journal of the American Ceramic Society, 2010, 93, 4041-4046.	3.8	12
24	Competition of fracture mechanisms in monolithic dental ceramics: Flat model systems. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 402-411.	3.4	67
25	Fatigue and debris generation at indentation-induced cracks in silicon. Acta Materialia, 2009, 57, 582-589.	7.9	14
26	Contact fatigue of silicon. Journal of Materials Research, 2008, 23, 1175-1184.	2.6	5
27	Bulk silicon is susceptible to fatigue. Applied Physics Letters, 2007, 91, 201902.	3.3	16
28	Role of substrate material in failure of crown-like layer structures. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 305-311.	3.4	30
29	Role of core support material in veneer failure of brittle layer structures. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 82B, 115-121.	3.4	22
30	Role of indenter material and size in veneer failure of brittle layer structures. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 82B, 253-259.	3.4	29
31	Design maps for failure of all-ceramic layer structures in concentrated cyclic loading. Acta Materialia, 2007, 55, 2479-2488.	7.9	25
32	Failure Modes in Ceramic-Based Layer Structures: A Basis for Materials Design of Dental Crowns. Journal of the American Ceramic Society, 2007, 90, 1671-1683.	3.8	69
33	Transverse fracture of brittle bilayers: Relevance to failure of all-ceramic dental crowns. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 79B, 58-65.	3.4	50
34	Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Trilayer structures. Journal of Materials Research, 2006, 21, 512-521.	2.6	39
35	Competing Fracture Modes in Brittle Materials Subject to Concentrated Cyclic Loading in Liquid Environments: Monoliths. Journal of Materials Research, 2005, 20, 2021-2029.	2.6	46
36	Competing fracture modes in brittle materials subject to concentrated cyclic loading in liquid environments: Bilayer structures. Journal of Materials Research, 2005, 20, 2792-2800.	2.6	45

#	ARTICLE	IF	CITATIONS
37	LCD Matrix product codes with an application. Discrete Mathematics, Algorithms and Applications, 0, , .	0.6	0