

Sri Lathabai

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,616
citations

394421

19
h-index

454955

30
g-index

37
all docs

37
docs citations

37
times ranked

1127
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of scandium on the microstructure, mechanical properties and weldability of a cast Al-Mg alloy. <i>Acta Materialia</i> , 2002, 50, 4275-4292.	7.9	218
2	Cyclic Fatigue from Frictional Degradation at Bridging Grains in Alumina. <i>Journal of the American Ceramic Society</i> , 1991, 74, 1340-1348.	3.8	194
3	Comparison of keyhole and conventional gas tungsten arc welds in commercially pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 299, 81-93.	5.6	167
4	Friction spot joining of an extruded Al-Mg-Si alloy. <i>Scripta Materialia</i> , 2006, 55, 899-902.	5.2	117
5	Crack velocity functions and thresholds in brittle solids. <i>Journal of the European Ceramic Society</i> , 1990, 6, 259-268.	5.7	93
6	Solid particle erosion behaviour of thermal sprayed ceramic, metallic and polymer coatings. <i>Wear</i> , 1998, 221, 93-108.	3.1	89
7	Erosion of alumina ceramics by air- and water-suspended garnet particles. <i>Wear</i> , 2000, 240, 40-51.	3.1	62
8	Interfacial energy states of moisture-exposed cracks in mica. <i>Journal of Materials Research</i> , 1990, 5, 172-182.	2.6	57
9	Cyclic Fatigue Behavior of an Alumina Ceramic with Crack-Resistance Characteristics. <i>Journal of the American Ceramic Society</i> , 1989, 72, 1760-1763.	3.8	53
10	Fracture mechanics model for subthreshold indentation flaws. <i>Journal of Materials Science</i> , 1991, 26, 2157-2168.	3.7	51
11	Microstructural influence in slurry erosion of ceramics. <i>Wear</i> , 1995, 189, 122-135.	3.1	51
12	Reaction-Bonded Mullite/Zirconia Composites. <i>Journal of the American Ceramic Society</i> , 1996, 79, 248-256.	3.8	49
13	Interfacial Layers in Brittle Cracks. <i>Journal of the American Ceramic Society</i> , 1988, 71, 97-105.	3.8	45
14	Keyhole gas tungsten arc welding of commercially pure zirconium. <i>Science and Technology of Welding and Joining</i> , 2008, 13, 573-581.	3.1	44
15	Effect of Grain Size and Test Configuration on the Wear Behavior of Alumina. <i>Journal of the American Ceramic Society</i> , 1997, 80, 1310-1312.	3.8	39
16	Hertzian Contact Damage in Magnesia-Partially-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 1995, 78, 1083-1086.	3.8	33
17	Friction Stir Blind Riveting: A Novel Joining Process for Automotive Light Alloys. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 4, 589-601.	0.3	33
18	Microstructure, crystallographic texture and mechanical behaviour of friction stir processed Mg-Zn-Ca-Zr alloy ZKX50. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 685, 253-264.	5.6	27

#	ARTICLE	IF	CITATIONS
19	Fatigue limits in noncyclic loading of ceramics with crack-resistance curves. Journal of Materials Science, 1989, 24, 4298-4306.	3.7	26
20	Additive Manufacturing of Aluminium-Based Alloys and Composites. , 2018, , 47-92.		22
21	Influence of microstructure on the erosive wear behaviour of Ca $\hat{\pm}$ -sialon materials. Journal of the European Ceramic Society, 2001, 21, 2435-2445.	5.7	21
22	Fracture mechanics model for subthreshold indentation flaws. Journal of Materials Science, 1991, 26, 2313-2321.	3.7	18
23	Erosion Response of Highly Anisotropic Silicon Nitride. Journal of the American Ceramic Society, 2005, 88, 114-120.	3.8	17
24	Quantification of microstructure refinement in aluminium deformed by equal channel angular extrusion: Route A vs. route Bc in a 90 $\hat{\text{A}}$ die. Scripta Materialia, 2010, 63, 20-23.	5.2	17
25	Joining of aluminium and its alloys. , 2011, , 607-654.		11
26	Compliance analysis of a bridged crack under monotonic and cyclic loading. Journal of the European Ceramic Society, 1992, 9, 213-217.	5.7	10
27	An SEM Study of Mild-to-Severe Wear Transition in Grey Cast Iron During Dry Sliding. Scripta Materialia, 1998, 38, 1557-1562.	5.2	10
28	The effect of grain size on the slurry erosive wear of Ce-TZP ceramics. Scripta Materialia, 2000, 43, 465-470.	5.2	10
29	Implementing the Direct Powder Route for Titanium Mill Product: Continuous Production of CP Sheet. Materials Science Forum, 0, 618-619, 139-142.	0.3	10
30	Friction Stir Processing: A Technique for Microstructural Refinement in Metallic Materials. Materials Science Forum, 2009, 618-619, 63-67.	0.3	8
31	Improving the Microstructure and Mechanical Properties of a Cast Mg-9Al-1Zn Alloy Using Friction Stir Processing. Materials Science Forum, 2016, 838-839, 214-219.	0.3	8
32	Microstructure and Mechanical Properties of a Friction Stir Processed Al-Zn-Mg-Cu Alloy. Materials Science Forum, 2010, 654-656, 1428-1431.	0.3	3
33	The Influence of Processing Conditions on Hardness Homogeneity Evolution in Commercially Pure Cast Aluminium Processed by ECAP. Materials Science Forum, 2010, 654-656, 1211-1214.	0.3	2
34	Additive manufacturing, the path to industrialisation at CSIRO. Australian Journal of Mechanical Engineering, 2021, 19, 618-629.	2.1	1
35	Effect of tool design on the microstructure and microhardness of friction stir processed 5005-H34 aluminium alloy. Proceedings of SPIE, 2013, , .	0.8	0