

Balkrishna C Rao

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

521
citations

933447

10
h-index

794594

19
g-index

25
all docs

25
docs citations

25
times ranked

369
citing authors

#	ARTICLE	IF	CITATIONS
1	How disruptive is frugal?. <i>Technology in Society</i> , 2013, 35, 65-73.	9.4	203
2	Large strain deformation and ultra-fine grained materials by machining. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 410-411, 358-363.	5.6	106
3	On the performance of modified Zerilli-Armstrong constitutive model in simulating the metal-cutting process. <i>Journal of Manufacturing Processes</i> , 2017, 28, 253-265.	5.9	40
4	Advances in science and technology through frugality. <i>IEEE Engineering Management Review</i> , 2017, 45, 32-38.	1.3	34
5	Revisiting classical design in engineering from a perspective of frugality. <i>Heliyon</i> , 2017, 3, e00299.	3.2	18
6	The science underlying frugal innovations should not be frugal. <i>Royal Society Open Science</i> , 2019, 6, 180421.	2.4	18
7	Influence of workpiece texture and strain hardening on chip formation during machining of Ti-6Al-4V alloy. <i>International Journal of Machine Tools and Manufacture</i> , 2022, 173, 103849.	13.4	17
8	Alleviating Poverty in the Twenty-First Century Through Frugal Innovations. <i>Challenge</i> , 2014, 57, 40-59.	0.4	14
9	A study of process parameters on workpiece anisotropy in the laser engineered net shaping (LENS) process. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 225303.	2.8	14
10	Production of fine-grained foils by large strain extrusion-machining of textured Ti-6Al-4V. <i>Journal of Materials Research</i> , 2018, 33, 108-120.	2.6	11
11	A Finite Element Study of Large Strain Extrusion Machining Using Modified Zerilli-Armstrong Constitutive Relation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2021, 143, .	2.2	8
12	Frugal manufacturing in smart factories for widespread sustainable development. <i>Royal Society Open Science</i> , 2021, 8, 210375.	2.4	8
13	ON THE METHODOLOGY FOR QUANTIFYING INNOVATIONS. <i>International Journal of Innovation Management</i> , 2010, 14, 823-839.	1.2	6
14	Tensile testing of Al6061-T6 microspecimens with ultrafine grained structure derived from machining-based SPD process. <i>Journal of Materials Research</i> , 2014, 29, 1278-1287.	2.6	6
15	Scale up advanced frugal design principles. <i>Nature Sustainability</i> , 2020, 3, 772-772.	23.7	6
16	Advanced Frugal Innovations [Leading Edge]. <i>IEEE Technology and Society Magazine</i> , 2017, 36, 53-54.	0.8	4
17	A new constitutive relation for simulating plastic flow involving continuous-shear or shear-localisation during metal cutting. <i>Philosophical Magazine</i> , 2020, 100, 486-511.	1.6	2
18	On complex systems of adaptive frugal products. <i>Royal Society Open Science</i> , 2020, 7, 192057.	2.4	2

#	ARTICLE	IF	CITATIONS
19	A modified Zerilli–Armstrong constitutive model for simulating severe plastic deformation of a steel alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2022, 236, 1022-1036.	2.4	2
20	Combustion synthesis of alumina with possible CO-GENERATION of power. International Journal of Hydrogen Energy, 2021, 46, 12682-12692.	7.1	0
21	Effect of Severe Plastic Deformation on the Mechanical Properties of Al6061 Alloy. Minerals, Metals and Materials Series, 2020, , 2113-2116.	0.4	0