

# Shabadi Rajashekara

## List of Publications by Year in descending order

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51  
papers

1,318  
citations

489802

18  
h-index

406436

35  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Processing Routes on the Microstructure and Thermoelectric Properties of Half-Heusler TiFe <sub>0.5</sub> Ni <sub>0.5</sub> Sb <sub>1-x</sub> Sn <sub>x</sub> (x=0, 0.05, 0.1, 0.2) Alloys. Journal of Materials Engineering and Performance, 2022, 31, 305-317.	1.2	7
2	Thermoelectric properties of a high entropy half-Heusler alloy processed by a fast powder metallurgy route. Journal of Alloys and Compounds, 2022, 924, 166108.	2.8	8
3	Microstructural Aspects of Metal-Matrix Composites. , 2021, , 274-297.		3
4	Corrosion Behavior, Microstructure and Mechanical Properties of Novel Mg-Zn-Ca-Er Alloy for Bio-Medical Applications. Metals, 2021, 11, 519.	1.0	5
5	Additively Manufactured Magnesium-Based Bio-Implants and their Challenges. , 2021, 6, 917-932.		9
6	Microstructure and Corrosion Behavior of Extruded Mg-Sn-Y Alloys. Metals, 2021, 11, 1095.	1.0	2
7	Utilizing Iron as Reinforcement to Enhance Ambient Mechanical Response and Impression Creep Response of Magnesium. Metals, 2021, 11, 1448.	1.0	3
8	Modification of Electrical and Mechanical Properties of Selective Laser-Melted CuCr <sub>0.3</sub> Alloy Using Carbon Nanoparticles. Advanced Engineering Materials, 2020, 22, 1900946.	1.6	21
9	Thermoelectric properties of half-Heusler high-entropy Ti <sub>2</sub> NiCoSn <sub>1-x</sub> Sb <sub>1+x</sub> (x=0.5, 1) alloys with VEC>18. Scripta Materialia, 2020, 186, 375-380.	2.6	19
10	Simultaneous increase in thermopower and electrical conductivity through Ta-doping and nanostructuring in half-Heusler TiNiSn alloys. Materialia, 2019, 7, 100410.	1.3	15
11	Ti <sub>2</sub> NiCoSnSb - a new half-Heusler type high-entropy alloy showing simultaneous increase in Seebeck coefficient and electrical conductivity for thermoelectric applications. Scientific Reports, 2019, 9, 5331.	1.6	58
12	Biocompatible silica-based magnesium composites. Journal of Alloys and Compounds, 2019, 772, 49-57.	2.8	14
13	Effect of fluoride coatings on the corrosion behavior of Mg-Zn-Er alloys. Surfaces and Interfaces, 2019, 14, 72-81.	1.5	22
14	Strength of Mg-3%Al alloy in presence of graphene nano-platelets as reinforcement. Materials Science and Technology, 2018, 34, 1086-1095.	0.8	14
15	A strong and deformable in-situ magnesium nanocomposite igniting above 1000°C. Scientific Reports, 2018, 8, 7038.	1.6	30
16	Evolution of texture and asymmetry and its impact on the fatigue behaviour of an in-situ magnesium nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 727, 61-69.	2.6	22
17	In situ age hardening and grain refinement in as-sprayed Al-Sc binary alloy deposits. Journal of Alloys and Compounds, 2018, 735, 1596-1602.	2.8	3
18	Structure-property correlation in magnesium nanocomposites synthesized by disintegrated melt deposition technique. Materials Today: Proceedings, 2018, 5, 16280-16285.	0.9	6

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19	Tribological characteristics of magnesium nanocomposites. <i>Materials Today: Proceedings</i> , 2018, 5, 16575-16579.	0.9	2
20	Influence of steam-based pre-treatment using acidic chemistries on the adhesion performance of powder coated aluminium alloy AA6060. <i>International Journal of Adhesion and Adhesives</i> , 2017, 74, 167-176.	1.4	5
21	Strengthening due to the in-situ evolution of $\gamma$ Mg-Zn rich phase in a ZnO nanoparticles introduced Mg-Y alloy. <i>Scripta Materialia</i> , 2017, 133, 29-32.	2.6	20
22	The dynamic compressive response of a high-strength magnesium alloy and its nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 65-72.	2.6	23
23	Star-shaped sucrose-capped CaO nanoparticles from <i>Azadirachta indica</i> : A novel green synthesis. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 708-712.	0.9	12
24	Powder metallurgy hollow fly ash cenospheres <sup>TM</sup> particles reinforced magnesium composites. <i>Powder Metallurgy</i> , 2016, 59, 188-196.	0.9	28
25	Enhancing overall static/dynamic/damping/ignition response of magnesium through the addition of lower amounts (<2%) of yttrium. <i>Journal of Alloys and Compounds</i> , 2016, 689, 350-358.	2.8	42
26	Influence of Cerium on the Deformation and Corrosion of Magnesium. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2016, 138, .	0.8	19
27	Structural, functional and mechanical properties of spark plasma sintered gadolinia (Gd <sub>2</sub> O <sub>3</sub> ). <i>Ceramics International</i> , 2016, 42, 1384-1391.	2.3	17
28	Microstructural observations and tensile fracture behavior of FSW twin roll cast AZ31 Mg sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 190-200.	2.6	44
29	Effect of interfacial oxide thickness on the photocatalytic activity of magnetron-sputtered TiO <sub>2</sub> coatings on aluminum substrate. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2805-2815.	0.8	0
30	Friction stir processed Al-TiO <sub>2</sub> surface composites: Anodising behaviour and optical appearance. <i>Applied Surface Science</i> , 2015, 324, 554-562.	3.1	26
31	Thermal conductivity in yttria dispersed copper. <i>Materials &amp; Design</i> , 2015, 65, 869-877.	5.1	17
32	Interfacial Structure and Photocatalytic Activity of Magnetron Sputtered TiO <sub>2</sub> on Conducting Metal Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22224-22234.	4.0	13
33	AZ91C magnesium alloy modified by Cd. <i>Materials &amp; Design</i> , 2014, 53, 445-451.	5.1	15
34	Triple ion beam cutting of diamond/Al composites for interface characterization. <i>Materials Characterization</i> , 2014, 89, 132-137.	1.9	15
35	Structure of anodized Al-Zr sputter deposited coatings and effect on optical appearance. <i>Applied Surface Science</i> , 2014, 317, 1113-1124.	3.1	19
36	Investigation of DC magnetron-sputtered TiO <sub>2</sub> coatings: Effect of coating thickness, structure, and morphology on photocatalytic activity. <i>Applied Surface Science</i> , 2014, 313, 677-686.	3.1	32

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37	Characterization of oxide dispersion strengthened copper based materials developed by friction stir processing. <i>Materials &amp; Design</i> , 2014, 60, 343-357.	5.1	82
38	Anodization and Optical Appearance of Sputter Deposited Al-Zr Coatings. , 2014, , 369-373.		0
39	Nanoscale surface potential imaging of the photocatalytic TiO <sub>2</sub> films on aluminum. <i>RSC Advances</i> , 2013, 3, 23296.	1.7	10
40	Characterization of Joints Between Aluminum and Galvanized Steel Sheets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 2672-2682.	1.1	12
41	Preparation and corrosion behavior of Ni and Ni-“graphene composite coatings. <i>Materials Research Bulletin</i> , 2013, 48, 1477-1483.	2.7	231
42	Characterization of Al/MWCNTs composites prepared by powder metallurgy routes. <i>MATEC Web of Conferences</i> , 2013, 7, 01002.	0.1	2
43	Effect of Aging at 700°C on Ferrite Transformation in a 316L/308L Weldment. <i>Materials and Manufacturing Processes</i> , 2012, 27, 1370-1375.	2.7	1
44	Texture and formability studies on AA7020 Al alloy sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 439-445.	2.6	29
45	Dissimilar material joining using laser (aluminum to steel using zinc-based filler wire). <i>Optics and Laser Technology</i> , 2007, 39, 652-661.	2.2	206
46	Studies on Cadmium and Silver Trace Element Modified AZ91C Magnesium Alloy. , 2006, , 65-72.		0
47	Characterisation of PLC band parameters using laser speckle technique. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 364, 140-150.	2.6	94
48	Effect of specimen condition, orientation and alloy composition on PLC band parameters. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 382, 203-208.	2.6	28
49	Influence of precipitation on serrated flow in Al-5Zn-1Mg alloy. <i>Materials Science and Technology</i> , 2003, 19, 1344-1348.	0.8	2
50	Assessing Formability of Sheet Metals through Advanced Tensile and Laser Speckle Analysis. <i>Materials Science Forum</i> , 2002, 396-402, 1623-1628.	0.3	2
51	Effect of Mn on the Nanoprecipitation in Binary Fe-Cu alloys. <i>Solid State Phenomena</i> , 0, 172-174, 297-302.	0.3	6