

# Mahesh Kumar Talari

## List of Publications by Year in descending order

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49  
papers

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759233

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all docs

51  
docs citations

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times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emission properties of Mn doped ZnO nanoparticles prepared by mechanochemical processing. Journal of Luminescence, 2012, 132, 1735-1739.	3.1	67
2	Effect of Mn Doping on Structural and Optical Properties of SnO <sub>2</sub> Nanoparticles Prepared by Mechanochemical Processing. Physics Procedia, 2012, 25, 233-239.	1.2	53
3	Double metal-insulator peaks and effect of Sm <sup>3+</sup> substitution on magnetic and transport properties of hole-doped La <sub>0.85</sub> Ag <sub>0.15</sub> MnO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2011, 323, 2179-2185.	2.3	38
4	Effect of (Ba <sub>0.6</sub> Sr <sub>0.4</sub> )TiO <sub>3</sub> (BST) Doping on Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> (CCTO). Journal of Materials Science and Technology, 2012, 28, 1137-1144.	10.7	38
5	Microstructural and wear investigation of high chromium white cast iron hardfacing alloys deposited on carbon steel. Journal of Alloys and Compounds, 2021, 857, 157472.	5.5	33
6	Anomalous elastic behaviour of xSrO-10PbO-(90-x)B <sub>2</sub> O <sub>3</sub> glass system. Journal of Non-Crystalline Solids, 2016, 444, 55-63.	3.1	32
7	Synthesis, Characterization and Antimicrobial Investigation of Mechanochemically Processed Silver Doped ZnO Nanoparticles. Chemical and Pharmaceutical Bulletin, 2012, 60, 818-824.	1.3	29
8	Microstructural characterization and grain refinement of AA6082 gas tungsten arc welds by scandium modified fillers. Materials Chemistry and Physics, 2012, 137, 543-551.	4.0	28
9	Characterization of microstructure and mechanical properties of friction stir welded AlMg <sub>5</sub> -Al <sub>2</sub> O <sub>3</sub> nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 658, 109-122.	5.6	21
10	Influence of titanium-boron additions on grain refinement of AA6082 gas tungsten arc welds. Materials & Design, 2012, 40, 467-475.	5.1	20
11	Grain refinement of Ti-15V-3Cr-3Sn-3Al metastable $\beta^2$ titanium alloy welds using boron-modified fillers. Journal of Alloys and Compounds, 2018, 749, 320-328.	5.5	19
12	Effect of titanium-boron additions on grain refinement of AA 2219 gas tungsten arc welds. Science and Technology of Welding and Joining, 2012, 17, 386-393.	3.1	16
13	Microstructure and Hardness Properties Investigation of Ti and Nb Added FeNiAlCuCrTi <sub>x</sub> Nb <sub>y</sub> High Entropy Alloys. Transactions of the Indian Institute of Metals, 2013, 66, 309-312.	1.5	12
14	Microstructure and Mechanical Properties of Dissimilar Friction Welding Ti-6Al-4V Alloy to Nitinol. Metals, 2021, 11, 109.	2.3	12
15	Anomalous Optical Properties of xSrO-10PbO-(90-x)B <sub>2</sub> O <sub>3</sub> Glass System. Transactions of the Indian Institute of Metals, 2017, 70, 557-565.	1.5	11
16	Effect of Zr Addition on Microstructure and Properties of FeCrNiMnCoZr <sub>x</sub> and Al <sub>0.5</sub> FeCrNiMnCoZr <sub>x</sub> High Entropy Alloys. Transactions of the Indian Institute of Metals, 2013, 66, 305-308.	1.5	10
17	Microstructural and Mechanical Properties Investigation of TiC Reinforced Hardface Alloy Deposited on Mild Steel Substrate. Transactions of the Indian Institute of Metals, 2013, 66, 433-436.	1.5	8
18	Microstructure, Mechanical, and Impression Creep Properties of AlMg <sub>5</sub> -0.5 vol% Al <sub>2</sub> O <sub>3</sub> Nanocomposites. Advanced Engineering Materials, 2016, 18, 1958-1966.	3.5	8

#	ARTICLE	IF	CITATIONS
19	Effect of Ta Addition on Microstructure and Hardness of FeCrNiMnCoTa <sub>x</sub> and Al <sub>0.5</sub> FeCrNiMnCoTa <sub>x</sub> ; High-Entropy Alloys. Materials Science Forum, 0, 846, 13-19.	0.3	8
20	Conductometric Study of Nimesulide in Aqueous Solutions of Hydrotropic Agents at Different Temperatures. E-Journal of Chemistry, 2012, 9, 21-26.	0.5	7
21	Effect of Mo on the High-Temperature Creep Resistance and Machinability of a Recycled Al-Alloy with High Iron Impurity. Journal of Materials Engineering and Performance, 2016, 25, 4310-4316.	2.5	7
22	Microstructure and Mechanical Properties of Ti-15-3 Alloy Gas Tungsten Arc Welds Prepared Using CP-Titanium Filler. Transactions of the Indian Institute of Metals, 2017, 70, 685-690.	1.5	6
23	Microstructure and mechanical properties of Al-Si cast alloy grain refined with Ti-B-Sr-Sc-Mg. , 2011, , .		5
24	High-temperature mechanical properties investigation of Al-6.5% Cu gas tungsten arc welds made with scandium modified 2319 filler. International Journal of Advanced Manufacturing Technology, 2013, 65, 1757-1767.	3.0	5
25	An Evaluation of Microstructure and Hardness Properties of Zr Added FeNiAlCoCr High Entropy Alloys. Materials Science Forum, 2016, 846, 20-26.	0.3	5
26	Grain Refinement, Microstructural and Hardness Investigation of C Added Ti-15-3 Alloys Prepared by Argon Arc Melting. Transactions of the Indian Institute of Metals, 2017, 70, 861-865.	1.5	5
27	Structural and Optical Properties: Mn Doped Nano ZnO Synthesized by Mechanochemical Synthesis. , 2010, , .		4
28	Study of Sintering Temperature for Nano-Hydroxyapatite with Addition of Titanium. Advanced Materials Research, 0, 538-541, 2392-2395.	0.3	4
29	Effect of V <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> Glass Addition on Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics Prepared by Solid State Method. Transactions of the Indian Institute of Metals, 2013, 66, 325-328.	1.5	4
30	Structural and optical properties of Zn <sub>1-x</sub> Mn <sub>x</sub> O nanoparticles prepared by mechanochemical synthesis. Materials Research Innovations, 2011, 15, s123-s126.	2.3	3
31	Characterization of Thermal Sprayed Titanium/Hydroxyapatite Composite Coating on Stainless Steel. Advanced Materials Research, 0, 974, 152-156.	0.3	3
32	Microstructure and High Temperature Impression Creep Properties of Mg-3Ca-xZr (x=0.3, 0.6, 0.9wt%) Alloys. Transactions of the Indian Institute of Metals, 2017, 70, 649-654.	1.5	3
33	Effect of Milling Time on Properties of Mechanochemically Synthesized Nano ZnO. , 2010, , .		2
34	Studies on structural and magnetic properties of ball milled Nd <sub>2</sub> Fe <sub>14</sub> B intermetallic powders. Materials Research Innovations, 2011, 15, s26-s29.	2.3	2
35	Effect of Aluminium Doping on Structural and Optical Properties of ZnO Nanoparticles Prepared by Mechanochemical Synthesis. , 2011, , .		2
36	Synthesis and structural characterization of nano-hydroxyapatite biomaterials prepared by microwave processing. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
37	Wear Properties of Metal Matrix Composite Al-Cu and Al-Cu-TiB <sub>2</sub> . Materials Science Forum, 2015, 819, 268-273.	0.3	2
38	Microstructure and mechanical properties investigation of in situ TiB <sub>2</sub> and ZrB <sub>2</sub> reinforced Al-4Cu composites. IOP Conference Series: Materials Science and Engineering, 2016, 114, 012120.	0.6	2
39	Microstructure Evolution and Mechanical Properties Investigation of Al-6 %Cu Alloy Laser and GTA Welds. Praktische Metallographie/Practical Metallography, 2013, 50, 656-676.	0.3	2
40	Characterisation of Microstructure and Mechanical Properties of Linear Friction Welded $\pm$ Titanium Alloy to Nitinol. Applied Sciences (Switzerland), 2021, 11, 10680.	2.5	2
41	Effect of titanium addition on mechanical properties of hydroxyapatite - Titanium nanocomposite. , 2011, , .		1
42	Effect of Diluents on Crystallite Size and Electronic Band Gap of ZnO Nanoparticles Synthesized by Mechanochemical Processing. Advanced Materials Research, 2012, 626, 786-790.	0.3	1
43	Characterization of Microstructure, Weld Heat Input, and Mechanical Properties of Mg-Al-Zn Alloy GTA Weldments. Applied Sciences (Switzerland), 2022, 12, 4417.	2.5	1
44	Optical properties of xSrO-(90-x)B <sub>2</sub> O <sub>3</sub> -2CeO <sub>2</sub> -8Al <sub>2</sub> O <sub>3</sub> glasses. Materials Today: Proceedings, 2022, 66, 4045-4050.	1.8	1
45	Magnetic Force Microscopy Investigation of Magnetic Domains in Nd <sub>2</sub> Fe <sub>14</sub> B. , 2010, , .		0
46	Optical properties of Zinc doped tin oxide synthesized by mechanochemical processing. , 2012, , .		0
47	Effect of Sintering Temperature on Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics Prepared by Mechanochemical Process. Advanced Materials Research, 0, 974, 157-161.	0.3	0
48	Bioactivity evaluation of titanium/hydroxyapatite composite coating on stainless steel prepared by thermal spraying. AIP Conference Proceedings, 2015, , .	0.4	0
49	Arc Welding. , 2015, , 593-615.		0