

# P Ajay Kumar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8890793/publications.pdf>

Version: 2024-02-01

19  
papers

566  
citations

758635

12  
h-index

839053

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization, and properties of graphene reinforced metal-matrix nanocomposites. Composites Part B: Engineering, 2020, 183, 107664.	5.9	124
2	50 Years of Foundry-Produced Metal Matrix Composites and Future Opportunities. International Journal of Metalcasting, 2020, 14, 291-317.	1.5	54
3	A novel in-situ polymer derived nano ceramic MMC by friction stir processing. Materials and Design, 2015, 85, 626-634.	3.3	47
4	Friction stir processing of squeeze cast A356 with surface compacted graphene nanoplatelets (GNPs) for the synthesis of metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 769, 138517.	2.6	47
5	Microstructure, mechanical properties and shape memory behaviour of friction stir welded nitinol. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 233-236.	2.6	44
6	Zn-matrix syntactic foams: Effect of heat treatment on microstructure and compressive properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 731, 413-422.	2.6	42
7	Influence of particulate reinforcement on microstructure evolution and tensile properties of in-situ polymer derived MMC by friction stir processing. Materials and Design, 2017, 113, 99-108.	3.3	38
8	Solidification Processing of Cast Metal Matrix Composites Over the Last 50 Years and Opportunities for the Future. Jom, 2020, 72, 2912-2926.	0.9	31
9	Shape memory effect, temperature distribution and mechanical properties of friction stir welded nitinol. Journal of Alloys and Compounds, 2019, 776, 334-345.	2.8	30
10	Microstructure and Mechanical Properties of Friction Stir Process Derived Al-TiO <sub>2</sub> Nanocomposite. Journal of Materials Engineering and Performance, 2018, 27, 1318-1326.	1.2	27
11	Effect of Microstructure on Contact Angle and Corrosion of Ductile Iron: Iron-Graphite Composite. Langmuir, 2019, 35, 16120-16129.	1.6	26
12	Exploring the functional and corrosion behavior of friction stir welded NiTi shape memory alloy. Journal of Manufacturing Processes, 2019, 47, 119-128.	2.8	21
13	Fabrication and applications of fullerene-based metal nanocomposites: A review. Journal of Materials Research, 2021, 36, 114-128.	1.2	11
14	Investigations on the influence of surface mechanical attrition treatment on the corrosion behaviour of friction stir welded NiTi shape memory alloy. Surface and Coatings Technology, 2020, 402, 126495.	2.2	8
15	A Model for Intermetallic Growth in Thin Sn Joints Between Cu Substrates: Application to Solder Microjoints. Journal of Electronic Materials, 2020, 49, 3367-3382.	1.0	6
16	Effect of Intermetallic Content on Shear Deformation of Thin Sn-3.0Ag-0.5Cu Solder Micro-joints Between Copper Substrates. Journal of Electronic Materials, 2018, 47, 5488-5497.	1.0	5
17	Wear Behavior of Friction Stir Processed NAB Alloys in Marine Environment. Tribology Online, 2018, 13, 75-80.	0.2	4
18	Synthesis of FeCrVNbMn High Entropy Alloy by Mechanical Alloying and Study of their Microstructure and Mechanical Properties. Minerals, Metals and Materials Series, 2018, , 669-675.	0.3	1

#	ARTICLE	IF	CITATIONS
19	Rolling Behaviour of Aluminum Alloy 2014-10Wt% SiCp Metal Matrix Composites. , 2018, , .		0