

# Vijay S J

## List of Publications by Year in descending order

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33  
papers

1,471  
citations

516561

16  
h-index

454834

30  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1065  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of in situ formed titanium diboride particulate reinforced AA7075 aluminum alloy cast composites. <i>Materials &amp; Design</i> , 2013, 44, 438-445.	5.1	191
2	Influence of tool pin profile on the metallurgical and mechanical properties of friction stir welded Al-10wt.% TiB <sub>2</sub> metal matrix composite. <i>Materials &amp; Design</i> , 2010, 31, 3585-3589.	5.1	153
3	Microstructure and sliding wear behavior of AA6360/(TiC+B <sub>4</sub> C) hybrid surface composite layer synthesized by friction stir processing on aluminum substrate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 336-344.	2.6	148
4	Characterization of boron carbide particulate reinforced in situ copper surface composites synthesized using friction stir processing. <i>Materials Characterization</i> , 2013, 84, 16-27.	1.9	133
5	Effect of TiB <sub>2</sub> content and temperature on sliding wear behavior of AA7075/TiB <sub>2</sub> in situ aluminum cast composites. <i>Archives of Civil and Mechanical Engineering</i> , 2014, 14, 72-79.	1.9	109
6	Microstructure and wear characterization of aluminum matrix composites reinforced with industrial waste fly ash particulates synthesized by friction stir processing. <i>Materials Characterization</i> , 2016, 118, 149-158.	1.9	103
7	Synthesis and characterization of titanium carbide particulate reinforced AA6082 aluminium alloy composites via friction stir processing. <i>Archives of Civil and Mechanical Engineering</i> , 2015, 15, 324-334.	1.9	101
8	Prediction of mechanical and wear properties of copper surface composites fabricated using friction stir processing. <i>Materials &amp; Design</i> , 2014, 55, 224-234.	5.1	66
9	Microstructure and mechanical properties characterization of AA6061/TiC aluminum matrix composites synthesized by in situ reaction of silicon carbide and potassium fluotitanate. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1791-1800.	1.7	57
10	Development of Al <sub>3</sub> Ti and Al <sub>3</sub> Zr intermetallic particulate reinforced aluminum alloy AA6061 in situ composites using friction stir processing. <i>Materials &amp; Design</i> , 2014, 63, 213-222.	5.1	47
11	Effect of material location and tool rotational speed on microstructure and tensile strength of dissimilar friction stir welded aluminum alloys. <i>Archives of Civil and Mechanical Engineering</i> , 2012, 12, 446-454.	1.9	38
12	Effect of nano TiO <sub>2</sub> particles on microhardness and microstructural behavior of AA7068 metal matrix composites. <i>Ceramics International</i> , 2018, 44, 20774-20781.	2.3	36
13	Influence of tool rotational speed on microstructure and sliding wear behavior of Cu/B <sub>4</sub> C surface composite synthesized by friction stir processing. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 95-102.	1.7	35
14	Microstructure and microhardness of AA1050/TiC surface composite fabricated using friction stir processing. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2012, 37, 579-586.	0.8	33
15	Role of friction stir processing parameters on microstructure and microhardness of boron carbide particulate reinforced copper surface composites. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2013, 38, 1433-1450.	0.8	30
16	Microstructural Characterization of Pure Copper Tubes Produced by a Novel Method Friction Stir Back Extrusion. , 2014, 5, 1502-1508.		29
17	Influence of Traverse Speed on Microstructure and Mechanical Properties of AA6082-TiC Surface Composite Fabricated by Friction Stir Processing. , 2014, 5, 2115-2121.		22
18	Fabrication and Characterization of CU/B <sub>4</sub> C Surface Dispersion Strengthened Composite using Friction Stir Processing. <i>Archives of Metallurgy and Materials</i> , 2014, 59, 83-87.	0.6	20

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19	Characterization of electromagnetic interference shielding composed of carbon fibers reinforced plastics and metal wire mesh based composites. <i>Journal of Materials Research and Technology</i> , 2019, 8, 167-172.	2.6	19
20	Effect of Traverse Speed on Microstructure and Microhardness of Cu/B4C Surface Composite Produced by Friction Stir Processing. <i>Transactions of the Indian Institute of Metals</i> , 2013, 66, 333-337.	0.7	15
21	Investigation of Mechanical and Electromagnetic Interference Shielding Properties of Nickel- CFRP Textile Composites. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 2255-2262.	1.2	13
22	Effect of tool material, profile and D/d ratio in friction stir welding of aluminium metal matrix composites. <i>Materials Research Express</i> , 2019, 6, 096590.	0.8	13
23	Numerical simulation and experimental validation of electromagnetic properties for Al-MWCNT-Fe2O3 hybrid nano-composites. <i>Journal of Alloys and Compounds</i> , 2018, 731, 465-470.	2.8	10
24	Friction Stir Processing Of Intermetallic-Particle Reinforced Aluminum Matrix Composite. <i>Advanced Materials Letters</i> , 2013, 4, 230-234.	0.3	9
25	The evaluation of electromagnetic shielding properties of CFRP/metal mesh hybrid woven laminated composites. <i>Journal of Composite Materials</i> , 2018, 52, 3819-3829.	1.2	8
26	Effect of Tool Rotational Speed on Microstructure and Microhardness of AA6082/TiC Surface Composites using Friction Stir Processing. <i>Applied Mechanics and Materials</i> , 0, 592-594, 234-239.	0.2	7
27	Optimization of coating thickness and coating width for friction surfaced Al6061-B4C over Al6061. <i>Materials Today: Proceedings</i> , 2020, 33, 939-945.	0.9	7
28	Comparative study of conventionally sintered Co-Ni-Al alloy with spark plasma sintered alloy. <i>Science of Sintering</i> , 2018, 50, 337-345.	0.5	5
29	Ergonomic evaluation of the risk factors causing pain in the upper part of the body among IT professionals in India. <i>Work</i> , 2020, 67, 993-1005.	0.6	4
30	Design and development of Fly ash reinforced aluminium matrix composite using friction stir process (FSP)., 2013, , .		2
31	Carbon fiber-reinforced polymer-metal wire mesh hybrid composite for EMI shielding. , 2020, , 237-256.		1
32	Microhardness and Microstructural Behavior of AA7068/SiC Metal Matrix Composites Synthesized by Powder Metallurgy. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 101-109.	0.3	1
33	Experimental Investigations on the Effect of Wheel Size on an Industrial Trolley. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 557-564.	0.3	1