

# Srinivasa Rao Bakshi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91 papers	4,174 citations	34 h-index	64 g-index
91 ext. papers	4,720 ext. citations	4.5 avg, IF	5.87 L-index

#	Paper	IF	Citations
91	Carbon nanotube reinforced metal matrix composites - a review. <i>International Materials Reviews</i> , <b>2010</b> , 55, 41-64	16.1	1043
90	An analysis of the factors affecting strengthening in carbon nanotube reinforced aluminum composites. <i>Carbon</i> , <b>2011</b> , 49, 533-544	10.4	352
89	Boron nitride nanotube reinforced polylactide-polycaprolactone copolymer composite: mechanical properties and cytocompatibility with osteoblasts and macrophages in vitro. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 3524-33	10.8	187
88	Carbon nanotube reinforced aluminum composite coating via cold spraying. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 5162-5169	4.4	175
87	Aluminum composite reinforced with multiwalled carbon nanotubes from plasma spraying of spray dried powders. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 1544-1554	4.4	146
86	Aluminum-Based Cast In Situ Composites: A Review. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 2185-2207	1.6	118
85	Role of powder treatment and carbon nanotube dispersion in the fracture toughening of plasma-sprayed aluminum oxide-carbon nanotube nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 3553-62	1.3	88
84	Synthesis and characterization of multiwalled carbon nanotube reinforced ultra high molecular weight polyethylene composite by electrostatic spraying technique. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2007</b> , 38, 2493-2499	8.4	87
83	Effect of different carbon nano-fillers on rheological properties and lap shear strength of epoxy adhesive joints. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 82, 53-64	8.4	81
82	Dual strengthening mechanisms induced by carbon nanotubes in roll bonded aluminum composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 523, 263-270	5.3	79
81	Interface in carbon nanotube reinforced aluminum silicon composites: Thermodynamic analysis and experimental verification. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 481, 207-213	5.7	76
80	Spark plasma sintered tantalum carbide: Effect of pressure and nano-boron carbide addition on microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 1287-1295	5.3	74
79	Spark plasma sintered tantalum carbide-carbon nanotube composite: Effect of pressure, carbon nanotube length and dispersion technique on microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 3375-3384	5.3	70
78	A comparison of mechanical and wear properties of plasma sprayed carbon nanotube reinforced aluminum composites at nano and macro scale. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 3375-3384	5.3	64
77	Quantification of carbon nanotube distribution and property correlation in nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 1311-1318	8.4	63
76	Nanoscratch behavior of carbon nanotube reinforced aluminum coatings. <i>Thin Solid Films</i> , <b>2010</b> , 518, 1703-1711	2.2	62
75	Reaction synthesis of Ti <sub>3</sub> SiC <sub>2</sub> phase in plasma sprayed coating. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 484, 113-117	5.7	61

74	Tensile properties of carbon nanotubes reinforced aluminum matrix composites: A review. <i>Carbon</i> , <b>2020</b> , 160, 14-44	10.4	60
73	Processing of copper/carbon nanotube composites by vacuum hot pressing technique. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 560, 365-371	5.3	58
72	Correlation between nanoindentation and nanoscratch properties of carbon nanotube reinforced aluminum composite coatings. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 2709-2715	4.4	56
71	Effect of Sc addition on the microstructure and wear properties of A356 alloy and A356/TiB <sub>2</sub> in situ composite. <i>Materials &amp; Design</i> , <b>2015</b> , 78, 85-94		49
70	Effect of carbon nano-filler addition on the degradation of epoxy adhesive joints subjected to hygrothermal aging. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 140, 84-94	4.7	47
69	Thermal Conductivity of Plasma-Sprayed Aluminum Oxide/Multiwalled Carbon Nanotube Composites. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 942-947	3.8	45
68	Thermal conductivity of carbon nanotube reinforced aluminum composites: A multi-scale study using object oriented finite element method. <i>Computational Materials Science</i> , <b>2010</b> , 50, 419-428	3.2	44
67	Microstructure and wear properties of aluminum/aluminum-silicon composite coatings prepared by cold spraying. <i>Surface and Coatings Technology</i> , <b>2009</b> , 204, 503-510	4.4	44
66	Formation of TiC <sub>x</sub> during reactive spark plasma sintering of mechanically milled Ti/carbon nanotube mixtures. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 709, 829-841	5.7	43
65	Effect of Sc addition and T6 aging treatment on the microstructure modification and mechanical properties of A356 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 674, 438-450	5.3	43
64	Graphene-induced strengthening in spark plasma sintered tantalum carbide/carbon nanotube composite. <i>Scripta Materialia</i> , <b>2013</b> , 68, 285-288	5.6	38
63	Processing and characterization of spark plasma sintered copper/carbon nanotube composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 229-237	5.3	37
62	Structural transformations in carbon nanotubes during thermal spray processing. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2193-2201	4.4	37
61	Deformation and damage mechanisms of multiwalled carbon nanotubes under high-velocity impact. <i>Scripta Materialia</i> , <b>2008</b> , 59, 499-502	5.6	37
60	In-situ formed graphene nanoribbon induced toughening and thermal shock resistance of spark plasma sintered carbon nanotube reinforced titanium carbide composite. <i>Composites Part B: Engineering</i> , <b>2017</b> , 123, 227-240	10	36
59	Processing copper/carbon nanotube composite powders by high energy milling. <i>Materials Characterization</i> , <b>2013</b> , 84, 58-66	3.9	35
58	Low temperature synthesis of dense TiB <sub>2</sub> compacts by reaction spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 48, 201-210	4.1	34
57	Effect of C/Ti ratio on densification, microstructure and mechanical properties of TiC <sub>x</sub> prepared by reactive spark plasma sintering. <i>Ceramics International</i> , <b>2018</b> , 44, 484-494	5.1	34

56	Ultrahigh-pressure consolidation and deformation of tantalum carbide at ambient and high temperatures. <i>Acta Materialia</i> , <b>2013</b> , 61, 4001-4009	8.4	31
55	Hardfacing of AISI H13 tool steel with Stellite 21 alloy using cold metal transfer welding process. <i>Surface and Coatings Technology</i> , <b>2017</b> , 326, 63-71	4.4	31
54	Effect of graphene nano-platelet reinforcement on the mechanical properties of hot pressed boron carbide based composite. <i>Ceramics International</i> , <b>2018</b> , 44, 9830-9838	5.1	29
53	Microstructure and tribological behavior of spark plasma sintered iron-based amorphous coatings. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 5000-5007	5.3	29
52	In-situ synthesis of TiC/SiC/Ti <sub>3</sub> SiC <sub>2</sub> composite coatings by spark plasma sintering. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 3840-3846	4.4	26
51	Carbon nanotube and in-situ titanium carbide reinforced titanium diboride matrix composites synthesized by reactive spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 663, 38-48	5.3	24
50	Al-Si-Mn Alloy Coating on Aluminum Substrate Using Cold Metal Transfer (CMT) Welding Technique. <i>Jom</i> , <b>2014</b> , 66, 1061-1067	2.1	23
49	Grain Growth Behavior of Aluminum Oxide Reinforced with Carbon Nanotube During Plasma Spraying and PostSpray Consolidation. <i>International Journal of Applied Ceramic Technology</i> , <b>2010</b> , 7, 846-855	2.3	23
48	Microstructure and mechanical properties of Ti-Al-Ni-Co-Fe based high entropy alloys prepared by powder metallurgy route. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 787, 123-132	5.7	21
47	Controlled 3D Carbon Nanotube Structures by Plasma Welding. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500755	4.6	21
46	Low temperature synthesis of dense and ultrafine grained zirconium diboride compacts by reactive spark plasma sintering. <i>Scripta Materialia</i> , <b>2016</b> , 110, 78-81	5.6	21
45	Microstructure and mechanical properties of as-cast and T6 treated Sc modified A356-5TiB <sub>2</sub> in-situ composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 739, 383-394	5.3	19
44	Synergistic effect of carbon nanotube as sintering aid and toughening agent in spark plasma sintered molybdenum disilicide-hafnium carbide composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 678, 299-307	5.3	17
43	Intersplat friction force and splat sliding in a plasma-sprayed aluminum alloy coating during nanoindentation and microindentation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 235-8	9.5	16
42	Microstructure and mechanical properties of keyhole plasma arc welded dual phase steel DP600. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 270, 28-36	5.3	15
41	In-situ synthesis and densification of boron carbide and boron carbide-graphene nanoplatelet composite by reactive spark plasma sintering. <i>Ceramics International</i> , <b>2018</b> , 44, 21132-21137	5.1	14
40	Effect of carrier gas on mechanical properties and fracture behaviour of cold sprayed aluminium coatings. <i>Surface Engineering</i> , <b>2007</b> , 23, 18-22	2.6	14
39	Fabrication of W-Cu functionally graded composites using high energy ball milling and spark plasma sintering for plasma facing components. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 3657-3666	4.6	14

38	Effect of correction parameters on deposition characteristics in cold metal transfer welding. <i>Materials and Manufacturing Processes</i> , <b>2019</b> , 34, 1205-1216	4.1	12
37	Nanomechanical behaviour of plasma sprayed PZT coatings. <i>Surface Engineering</i> , <b>2009</b> , 25, 270-275	2.6	12
36	Microstructure and mechanical properties of oxide dispersion strengthened 18Cr-ferritic steel consolidated by spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 736, 137-147	5.3	12
35	Densification mechanisms during reactive spark plasma sintering of Titanium diboride and Zirconium diboride. <i>Philosophical Magazine</i> , <b>2017</b> , 97, 1588-1609	1.6	10
34	Effect of Coiling Temperature on the Microstructure and Mechanical Properties of Hot-Rolled TiNb Microalloyed Ultra High Strength Steel. <i>Transactions of the Indian Institute of Metals</i> , <b>2017</b> , 70, 1773-1781	1.2	10
33	Synthesis and mechanical properties of TiCx and Ti(C,N) reinforced Titanium matrix in situ composites by reactive spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 759, 30-39	5.3	10
32	Graphene nanoplatelets induce crystallographic texturing during reactive spark plasma sintering of titanium diboride. <i>Carbon</i> , <b>2018</b> , 133, 323-334	10.4	10
31	Comparison of microstructure, dilution and wear behavior of Stellite 21 hardfacing on H13 steel using cold metal transfer and plasma transferred arc welding processes. <i>Surface and Coatings Technology</i> , <b>2019</b> , 375, 383-394	4.4	10
30	Effect of Carbon Nanotube Dispersion on Mechanical Properties of Aluminum-Silicon Alloy Matrix Composites. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1028-1037	1.6	10
29	Effect of different nano-carbon reinforcements on microstructure and properties of TiO <sub>2</sub> composites prepared by spark plasma sintering. <i>Ceramics International</i> , <b>2016</b> , 42, 14266-14277	5.1	10
28	Computational estimation of elastic properties of spark plasma sintered TaC by meshfree and finite element methods. <i>Computational Materials Science</i> , <b>2011</b> , 50, 2615-2620	3.2	9
27	Structural Evolution during Milling, Annealing, and Rapid Consolidation of Nanocrystalline Fe-10Cr-3Al Powder. <i>Materials</i> , <b>2017</b> , 10,	3.5	8
26	Fabrication of dense alumina layer on Ti alloy hybrid by cold metal transfer and micro-arc oxidation methods. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3415-3424	2.5	7
25	Effect of Pin Length and Rotation Speed on the Microstructure and Mechanical Properties of Friction Stir Welded Lap Joints of AZ31B-H24 Mg Alloy and AA6061-T6 Al Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 6269-6282	2.3	7
24	Ab-initio molecular modeling of interfaces in tantalum-carbon system. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 063521	2.5	7
23	Effect of graphene nano-platelet addition on the microstructure and spark plasma sintering kinetics of zirconium diboride. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 84, 104979	4.1	6
22	Microstructural and morphological changes during ball milling of Copper-Silver-Graphite flake mixtures. <i>Advanced Powder Technology</i> , <b>2019</b> , 30, 2759-2767	4.6	5
21	Reactive Spark Plasma Sintering and Mechanical Properties of Zirconium Diboride-Titanium Diboride Ultrahigh Temperature Ceramic Solid Solutions. <i>Technologies</i> , <b>2016</b> , 4, 30	2.4	5

20	Microstructure and high temperature mechanical properties of wire arc additively deposited Stellite 6 alloy. <i>Materialia</i> , <b>2020</b> , 12, 100724	3.2	4
19	Novel single phase (Ti <sub>0.2</sub> W <sub>0.2</sub> Ta <sub>0.2</sub> Mo <sub>0.2</sub> V <sub>0.2</sub> )C <sub>0.8</sub> high entropy carbide using ball milling followed by reactive spark plasma sintering. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 6756-6762	6	4
18	Reactive spark plasma sintering of B <sub>4</sub> C composite at low temperature using mechanically milled B <sub>4</sub> C/TiB mixtures. <i>Ceramics International</i> , <b>2021</b> , 47, 26134-26143	5.1	3
17	Surface integrity studies on ZrB <sub>2</sub> and graphene reinforced ZrB <sub>2</sub> ceramic matrix composite in EDM process. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2022</b> , 38, 401-413	3.4	3
16	Microstructural Evolution of TiAlNi (Cr,Co,Fe)-Based High-Entropy Alloys Processed Through Mechanical Alloying. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 1427-1430	1.2	2
15	Microstructural evolution and wear behavior of carbon added CoCrFeMnNi multi-component alloy fabricated by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 883, 160879	5.7	2
14	Solidification and Liquation Cracking Behavior of Dual-Phase Steel DP600. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 2029-2036	2.5	1
13	Microstructure and Mechanical Properties of TiAlNiCrCoFe-Based High-Entropy Alloys. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 1413-1416	1.2	1
12	Surface Engineering for Extreme Conditions. <i>Jom</i> , <b>2015</b> , 67, 1526-1527	2.1	1
11	Theoretical and experimental studies on thermal stability of nanocrystalline MgMo alloy. <i>Materialia</i> , <b>2020</b> , 14, 100933	3.2	1
10	Friction Stir Lap Welding of AZ31B and AA6061 Alloys Using Tin as an Inter-Layer. <i>Metals and Materials International</i> , 1	2.4	1
9	Densification and Mechanical Properties of ZrB <sub>2</sub> -TiB <sub>2</sub> Ultra High Temperature Ceramic Composites. <i>Ceramic Engineering and Science Proceedings</i> , <b>2015</b> , 275-285	0.1	0
8	Recent Developments in Surface Engineering of Materials. <i>Jom</i> , <b>2013</b> , 65, 739-740	2.1	0
7	Effect of Graphene nanoplatelets (GNP) reinforcement on grindability of zirconium diboride ceramics. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1-20	3.3	0
6	Nanocrystalline structure remarkably enhances oxidation resistance of Fe-20Cr-5Al alloy. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 900, 163568	5.7	0
5	Transmission Electron Microscopy Studies of Plasma Arc-Welded DP600 Dual-Phase Steel in Keyhole Mode. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 5689-5699	2.3	
4	Effect of Post-Weld Heat Treatment on the Microstructure of Plasma Arc Welded DP600 Steel. <i>Metallography, Microstructure, and Analysis</i> , <b>2019</b> , 8, 848-860	1.1	
3	Advances in Surface Engineering: Alloyed and Composite Coatings. <i>Jom</i> , <b>2012</b> , 64, 680-681	2.1	

- 2 Effect of Nanocrystalline Structure on the Oxidation Behavior of Fe<sub>2</sub>O<sub>3</sub>Cr<sub>3</sub>Al Alloy at High Temperatures. *Oxidation of Metals*, **2022**, 97, 307 1.6
- 1 Microstructure and Mechanical Properties of NiTiCuFe Multi-component Alloy. *Transactions of the Indian Institute of Metals*, **2018**, 71, 2789-2793 1.2