

Srinivasa Rao Bakshi

List of Publications by Year in Descending Order

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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	Effect of Nanocrystalline Structure on the Oxidation Behavior of Fe ₂₀ Cr ₃₀ Al Alloy at High Temperatures. <i>Oxidation of Metals</i> , 2022 , 97, 307	1.6	0
90	Nanocrystalline structure remarkably enhances oxidation resistance of Fe-20Cr-5Al alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163568	5.7	0
89	Surface integrity studies on ZrB ₂ and graphene reinforced ZrB ₂ ceramic matrix composite in EDM process. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022 , 38, 401-413	3.4	3
88	Reactive spark plasma sintering of B ₄ C composite at low temperature using mechanically milled B ₄ C/TiB mixtures. <i>Ceramics International</i> , 2021 , 47, 26134-26143	5.1	3
87	Novel single phase (Ti _{0.2} W _{0.2} Ta _{0.2} Mo _{0.2} V _{0.2})C _{0.8} high entropy carbide using ball milling followed by reactive spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 6756-6762	6	4
86	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> , 2021 , 883, 160879	5.7	2
85	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> , 2020 , 51, 6269-6282	2.3	7
84	Microstructure and high temperature mechanical properties of wire arc additively deposited Stellite 6 alloy. <i>Materialia</i> , 2020 , 12, 100724	3.2	4
83	Tensile properties of carbon nanotubes reinforced aluminum matrix composites: A review. <i>Carbon</i> , 2020 , 160, 14-44	10.4	60
82	Theoretical and experimental studies on thermal stability of nanocrystalline MgMo alloy. <i>Materialia</i> , 2020 , 14, 100933	3.2	1
81	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> , 2020 , 31, 3657-3666	4.6	14
80	Microstructural and morphological changes during ball milling of Copper-Silver-Graphite flake mixtures. <i>Advanced Powder Technology</i> , 2019 , 30, 2759-2767	4.6	5
79	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> , 2019 , 84, 104979	4.1	6
78	Solidification and Liquation Cracking Behavior of Dual-Phase Steel DP600. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 2029-2036	2.5	1
77	Effect of correction parameters on deposition characteristics in cold metal transfer welding. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 1205-1216	4.1	12
76	Microstructure and Mechanical Properties of Ti ₄₀ Al ₄₀ Ni ₁₀ Cr ₁₀ Co ₁₀ Be-Based High-Entropy Alloys. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 1413-1416	1.2	1
75	Synthesis and mechanical properties of TiC _x and Ti(C,N) reinforced Titanium matrix in situ composites by reactive spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 30-39	5.3	10

74	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> , 2019 , 787, 123-132	5.7	21
73	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> , 2019 , 375, 383-394	4.4	10
72	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> , 2019 , 50, 5689-5699	2.3	
71	Effect of Post-Weld Heat Treatment on the Microstructure of Plasma Arc Welded DP600 Steel. <i>Metallography, Microstructure, and Analysis</i> , 2019 , 8, 848-860	1.1	
70	Microstructure and mechanical properties of keyhole plasma arc welded dual phase steel DP600. <i>Journal of Materials Processing Technology</i> , 2019 , 270, 28-36	5.3	15
69	Microstructural Evolution of TiAlNi (Cr,Co,Fe)-Based High-Entropy Alloys Processed Through Mechanical Alloying. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 1427-1430	1.2	2
68	Microstructure and mechanical properties of as-cast and T6 treated Sc modified A356-5TiB2 in-situ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 739, 383-394	5.3	19
67	Effect of graphene nano-platelet reinforcement on the mechanical properties of hot pressed boron carbide based composite. <i>Ceramics International</i> , 2018 , 44, 9830-9838	5.1	29
66	Graphene nanoplatelets induce crystallographic texturing during reactive spark plasma sintering of titanium diboride. <i>Carbon</i> , 2018 , 133, 323-334	10.4	10
65	Effect of C/Ti ratio on densification, microstructure and mechanical properties of TiCx prepared by reactive spark plasma sintering. <i>Ceramics International</i> , 2018 , 44, 484-494	5.1	34
64	In-situ synthesis and densification of boron carbide and boron carbide-graphene nanoplatelet composite by reactive spark plasma sintering. <i>Ceramics International</i> , 2018 , 44, 21132-21137	5.1	14
63	Microstructure and Mechanical Properties of NiTiCuFe Multi-component Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2018 , 71, 2789-2793	1.2	
62	Microstructure and mechanical properties of oxide dispersion strengthened 18Cr-ferritic steel consolidated by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 736, 137-147	5.3	12
61	Fabrication of dense alumina layer on Ti alloy hybrid by cold metal transfer and micro-arc oxidation methods. <i>Journal of Materials Research</i> , 2017 , 32, 3415-3424	2.5	7
60	Densification mechanisms during reactive spark plasma sintering of Titanium diboride and Zirconium diboride. <i>Philosophical Magazine</i> , 2017 , 97, 1588-1609	1.6	10
59	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> , 2017 , 123, 227-240	10	36
58	Effect of carbon nano-filler addition on the degradation of epoxy adhesive joints subjected to hygrothermal aging. <i>Polymer Degradation and Stability</i> , 2017 , 140, 84-94	4.7	47
57	Formation of TiCx during reactive spark plasma sintering of mechanically milled Ti/carbon nanotube mixtures. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 829-841	5.7	43

56	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> , 2017 , 70, 1773-1781	1.2	10
55	Hardfacing of AISI H13 tool steel with Stellite 21 alloy using cold metal transfer welding process. <i>Surface and Coatings Technology</i> , 2017 , 326, 63-71	4.4	31
54	Processing and characterization of spark plasma sintered copper/carbon nanotube composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 229-237	5.3	37
53	Structural Evolution during Milling, Annealing, and Rapid Consolidation of Nanocrystalline Fe-10Cr-3Al Powder. <i>Materials</i> , 2017 , 10,	3.5	8
52	Controlled 3D Carbon Nanotube Structures by Plasma Welding. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500755	4.6	21
51	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> , 2016 , 82, 53-64	8.4	81
50	Carbon nanotube and in-situ titanium carbide reinforced titanium diboride matrix composites synthesized by reactive spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 663, 38-48	5.3	24
49	Low temperature synthesis of dense and ultrafine grained zirconium diboride compacts by reactive spark plasma sintering. <i>Scripta Materialia</i> , 2016 , 110, 78-81	5.6	21
48	Reactive Spark Plasma Sintering and Mechanical Properties of Zirconium Diboride-Titanium Diboride Ultrahigh Temperature Ceramic Solid Solutions. <i>Technologies</i> , 2016 , 4, 30	2.4	5
47	Effect of different nano-carbon reinforcements on microstructure and properties of TiO ₂ composites prepared by spark plasma sintering. <i>Ceramics International</i> , 2016 , 42, 14266-14277	5.1	10
46	Synergistic effect of carbon nanotube as sintering aid and toughening agent in spark plasma sintered molybdenum disilicide-hafnium carbide composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 678, 299-307	5.3	17
45	Effect of Sc addition and T6 aging treatment on the microstructure modification and mechanical properties of A356 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 438-450	5.3	43
44	Aluminum-Based Cast In Situ Composites: A Review. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 2185-2207	1.6	118
43	Effect of Sc addition on the microstructure and wear properties of A356 alloy and A356-TiB ₂ in situ composite. <i>Materials & Design</i> , 2015 , 78, 85-94		49
42	Low temperature synthesis of dense TiB ₂ compacts by reaction spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015 , 48, 201-210	4.1	34
41	Densification and Mechanical Properties of ZrB ₂ -TiB ₂ Ultra High Temperature Ceramic Composites. <i>Ceramic Engineering and Science Proceedings</i> , 2015 , 275-285	0.1	0
40	Surface Engineering for Extreme Conditions. <i>Jom</i> , 2015 , 67, 1526-1527	2.1	1
39	Effect of Carbon Nanotube Dispersion on Mechanical Properties of Aluminum-Silicon Alloy Matrix Composites. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 1028-1037	1.6	10

38	Al-Si-Mn Alloy Coating on Aluminum Substrate Using Cold Metal Transfer (CMT) Welding Technique. <i>Jom</i> , 2014 , 66, 1061-1067	2.1	23
37	Ultrahigh-pressure consolidation and deformation of tantalum carbide at ambient and high temperatures. <i>Acta Materialia</i> , 2013 , 61, 4001-4009	8.4	31
36	Processing copper-carbon nanotube composite powders by high energy milling. <i>Materials Characterization</i> , 2013 , 84, 58-66	3.9	35
35	Recent Developments in Surface Engineering of Materials. <i>Jom</i> , 2013 , 65, 739-740	2.1	0
34	Processing of copper-carbon nanotube composites by vacuum hot pressing technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 365-371	5.3	58
33	Graphene-induced strengthening in spark plasma sintered tantalum carbide-carbon nanotube composite. <i>Scripta Materialia</i> , 2013 , 68, 285-288	5.6	38
32	Advances in Surface Engineering: Alloyed and Composite Coatings. <i>Jom</i> , 2012 , 64, 680-681	2.1	
31	Ab-initio molecular modeling of interfaces in tantalum-carbon system. <i>Journal of Applied Physics</i> , 2012 , 111, 063521	2.5	7
30	Computational estimation of elastic properties of spark plasma sintered TaC by meshfree and finite element methods. <i>Computational Materials Science</i> , 2011 , 50, 2615-2620	3.2	9
29	In-situ synthesis of TiC/SiC/Ti ₃ SiC ₂ composite coatings by spark plasma sintering. <i>Surface and Coatings Technology</i> , 2011 , 205, 3840-3846	4.4	26
28	An analysis of the factors affecting strengthening in carbon nanotube reinforced aluminum composites. <i>Carbon</i> , 2011 , 49, 533-544	10.4	352
27	Spark plasma sintered tantalum carbide: Effect of pressure and nano-boron carbide addition on microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1287-1295	5.3	74
26	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2538-2547	5.3	70
25	A comparison of mechanical and wear properties of plasma sprayed carbon nanotube reinforced aluminum composites at nano and macro scale. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3375-3384	5.3	64
24	Grain Growth Behavior of Aluminum Oxide Reinforced with Carbon Nanotube During Plasma Spraying and PostSpray Consolidation. <i>International Journal of Applied Ceramic Technology</i> , 2010 , 7, 846-855	3.5	23
23	Carbon nanotube reinforced metal matrix composites - a review. <i>International Materials Reviews</i> , 2010 , 55, 41-64	16.1	1043
22	Thermal conductivity of carbon nanotube reinforced aluminum composites: A multi-scale study using object oriented finite element method. <i>Computational Materials Science</i> , 2010 , 50, 419-428	3.2	44
21	Microstructure and tribological behavior of spark plasma sintered iron-based amorphous coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5000-5007	5.3	29

20	Nanoscratch behavior of carbon nanotube reinforced aluminum coatings. <i>Thin Solid Films</i> , 2010 , 518, 1703-1711	2.2	62
19	Correlation between nanoindentation and nanoscratch properties of carbon nanotube reinforced aluminum composite coatings. <i>Surface and Coatings Technology</i> , 2010 , 204, 2709-2715	4.4	56
18	Boron nitride nanotube reinforced polylactide-polycaprolactone copolymer composite: mechanical properties and cytocompatibility with osteoblasts and macrophages in vitro. <i>Acta Biomaterialia</i> , 2010 , 6, 3524-33	10.8	187
17	Nanomechanical behaviour of plasma sprayed PZT coatings. <i>Surface Engineering</i> , 2009 , 25, 270-275	2.6	12
16	Microstructure and wear properties of aluminum/aluminumSilicon composite coatings prepared by cold spraying. <i>Surface and Coatings Technology</i> , 2009 , 204, 503-510	4.4	44
15	Aluminum composite reinforced with multiwalled carbon nanotubes from plasma spraying of spray dried powders. <i>Surface and Coatings Technology</i> , 2009 , 203, 1544-1554	4.4	146
14	Structural transformations in carbon nanotubes during thermal spray processing. <i>Surface and Coatings Technology</i> , 2009 , 203, 2193-2201	4.4	37
13	Dual strengthening mechanisms induced by carbon nanotubes in roll bonded aluminum composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 263-270	5.3	79
12	Intersplat friction force and splat sliding in a plasma-sprayed aluminum alloy coating during nanoindentation and microindentation. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 235-8	9.5	16
11	Interface in carbon nanotube reinforced aluminum silicon composites: Thermodynamic analysis and experimental verification. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 207-213	5.7	76
10	Reaction synthesis of Ti ₃ SiC ₂ phase in plasma sprayed coating. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 113-117	5.7	61
9	Quantification of carbon nanotube distribution and property correlation in nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 1311-1318	8.4	63
8	Deformation and damage mechanisms of multiwalled carbon nanotubes under high-velocity impact. <i>Scripta Materialia</i> , 2008 , 59, 499-502	5.6	37
7	Carbon nanotube reinforced aluminum composite coating via cold spraying. <i>Surface and Coatings Technology</i> , 2008 , 202, 5162-5169	4.4	175
6	Thermal Conductivity of Plasma-Sprayed Aluminum Oxide/Multiwalled Carbon Nanotube Composites. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 942-947	3.8	45
5	Effect of carrier gas on mechanical properties and fracture behaviour of cold sprayed aluminium coatings. <i>Surface Engineering</i> , 2007 , 23, 18-22	2.6	14
4	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> , 2007 , 7, 3553-62	1.3	88
3	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> , 2007 , 38, 2493-2499	8.4	87

2	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
1	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