

Shankar Subramaniam

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.

113
papers

1,594
citations

20
h-index

37
g-index

124
ext. papers

1,992
ext. citations

1.8
avg, IF

5.37
L-index

#	Paper	IF	Citations
113	Understanding the Micro-Mechanical Behaviour of Recast Layer Formed during WEDM of Titanium Alloy. <i>Metals</i> , 2022 , 12, 188	2.3	0
112	Impact of digital boards on hand and neck muscle activity during online teaching process.. <i>Education and Information Technologies</i> , 2022 , 1-14	3.6	
111	Sustainability in drilling of aluminum alloy. <i>Cleaner Materials</i> , 2022 , 3, 100048		1
110	Tribological behavior of zirconia-toughened alumina (ZTA) against Ti6Al4V under different bio-lubricants in hip prosthesis using experimental and finite element concepts. <i>Materials Letters</i> , 2022 , 307, 131107	3.3	1
109	Studies on diesel engine exhaust gas for retrieving the waste heat through Triple Tube Heat Exchanger (TTHE) through different tubes. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 4149-4164	1.6	0
108	Application of coolants during tool-based machining [A review. <i>Ain Shams Engineering Journal</i> , 2022 , 101830	4.4	1
107	In-vitro tribological study and submodeling finite element technique in analyzing wear of zirconia toughened alumina against alumina with bio-lubricants for hip implants. <i>Medical Engineering and Physics</i> , 2021 , 98, 83-90	2.4	0
106	Strength and durability performance of modified cement-based concrete incorporated immobilized bacteria. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	
105	Use of Smart Technologies on Textile Industry Workers to Evaluate the Effect of Work Posture on Lower Extremity Distress in Southern Region of India 2021 , 1-17		
104	Occupational physical risk factors and prevalence of musculoskeletal disorders among the traditional lacquerware toy makers of South India. <i>Work</i> , 2021 , 70, 405-418	1.6	2
103	Tribological Study on Titanium Based Composite Materials in Biomedical Applications. <i>Composites Science and Technology</i> , 2021 , 215-241		
102	EXAMINATION OF B4C/AlCrC COMPOSITE LAYER DURING DRY SLIDING USING STATISTICAL METHOD. <i>Surface Review and Letters</i> , 2021 , 28, 2150034	1.1	1
101	Investigating the Efficacy of Adhesive Tape for Drilling Carbon Fibre Reinforced Polymers. <i>Materials</i> , 2021 , 14,	3.5	2
100	Short term tribological behavior of ceramic and polyethylene biomaterials for hip prosthesis. <i>Materialpruefung/Materials Testing</i> , 2021 , 63, 470-473	1.9	1
99	Experimental and Finite Element Wear Study of Silicon Nitride Against Alumina for Hip Implants with Bio-Lubricant for Various Gait Activities. <i>Silicon</i> , 2021 , 13, 633-644	2.4	8
98	Analysis of motor cycle helmet under static and dynamic conditions considering different materials. <i>Materials Today: Proceedings</i> , 2021 , 43, 1098-1102	1.4	
97	Experimental studies on viscosity, thermal and tribological properties of vegetable oil (kapok oil) with boric acid as an additive. <i>Micro and Nano Letters</i> , 2021 , 16, 290-298	0.9	4

96	Significance of Bracing Accessories for Improved Workability: An EMG Assessment 2021 , 1-15		
95	Design and fabrication of fresh juice vending machine for commercial applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1055, 012010	0.4	
94	Ergonomic evaluation of ergonomically designed chalkboard erasers on shoulder and hand-arm muscle activity among college professors. <i>International Journal of Industrial Ergonomics</i> , 2021 , 84, 103170-9	2.9	5
93	Investigating the Impact of the Hoe handle Length and Angle on the Shoulder and Arm Muscle Activity during Manual Farming Activities. <i>Journal of the Institution of Engineers (India): Series A</i> , 2021 , 102, 1053	1	0
92	Use of duck feather waste as a reinforcement medium in polymer composites. <i>Cleaner Materials</i> , 2021 , 1, 100014		1
91	Prevalence of work related musculoskeletal disorders among occupational bus drivers of Karnataka, South India. <i>Work</i> , 2020 , 66, 73-84	1.6	5
90	Substantial reduction of carbon black and balancing the technical properties of styrene butadiene rubber compounds using nanoclay. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2020 , 23, 79-87	0.9	4
89	Burr formation and its treatments – a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 2189-2210	3.2	21
88	Experimental and numerical analysis of impact strength of Al6082 for automotive structural applications. <i>Materials Today: Proceedings</i> , 2020 , 33, 2863-2867	1.4	
87	Experimental and submodeling technique to investigate the wear of silicon nitride against Ti6Al4V alloy with bio-lubricants for various gait activities. <i>Tribology International</i> , 2020 , 151, 106529	4.9	6
86	Finite element submodeling technique to analyze the contact pressure and wear of hard bearing couples in hip prosthesis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 422-431	2.1	9
85	Design, development, calibration, and testing of indigenously developed strain gauge based dynamometer for cutting force measurement in the milling process. <i>Journal of Mechanical Engineering and Sciences</i> , 2020 , 14, 6594-6609	2	4
84	Long-term wear prediction of zirconia on alumina ceramic for hip prosthesis. <i>International Journal of Surface Science and Engineering</i> , 2020 , 14, 192	1	2
83	FEA of SAW penetration of Ramor 500 steel. <i>Materialpruefung/Materials Testing</i> , 2020 , 62, 1192-1198	1.9	
82	Tool condition monitoring techniques in milling process – a review. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1032-1042	5.5	90
81	Contact Stress and Wear Analysis of Zirconia Against Alumina for Normal and Physically Demanding Loads in Hip Prosthesis. <i>Journal of Bionic Engineering</i> , 2020 , 17, 1045-1058	2.7	5
80	Experimental investigations of vibration and acoustics signals in milling process using kapok oil as cutting fluid. <i>Mechanics and Industry</i> , 2020 , 21, 521	0.8	6
79	Tool wear prediction in hard turning of EN8 steel using cutting force and surface roughness with artificial neural network. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 234, 329-342	1.3	23

78	Tool Condition Monitoring While Using Vegetable Based Cutting Fluids During Milling of Inconel 625. <i>Journal of Advanced Manufacturing Systems</i> , 2019 , 18, 563-581	1.8	27
77	Burr formation during drilling of mild steel at different machining conditions. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 726-735	4.1	13
76	Management of musculoskeletal shoulder and neck pain through ergonomic intervention: a pre-post design analysis in hand screen printing industry. <i>International Journal of Business Innovation and Research</i> , 2019 , 18, 392	0.7	8
75	Optimization of turning parameters for AlSi10Mg/SCBA/SiC hybrid metal matrix composite using response surface methodology. <i>Materials Research Express</i> , 2019 , 6, 106553	1.7	4
74	Investigations on tribo-mechanical behaviour of Al-Si10-Mg/sugarcane bagasse ash/SiC hybrid composites. <i>China Foundry</i> , 2019 , 16, 277-284	0.8	11
73	Tool condition monitoring in the milling process with vegetable based cutting fluids using vibration signatures. <i>Materialpruefung/Materials Testing</i> , 2019 , 61, 282-288	1.9	20
72	Experimental study and optimisation in turning process of EN8 steel using RSM with hybrid algorithm approach. <i>International Journal of Bio-Inspired Computation</i> , 2019 , 13, 242	2.9	3
71	Prediction of cutting tool wear during milling process using artificial intelligence techniques. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 32, 174-182	4.3	51
70	Evaluation of tribological properties of Ceiba pentandra (kapok) seed oil as an alternative lubricant. <i>Industrial Lubrication and Tribology</i> , 2018 , 70, 506-511	1.3	6
69	Evaluation of vibrant muscles over the shoulder region among workers of the hand screen printing industry. <i>International Journal of Occupational Safety and Ergonomics</i> , 2018 , 24, 278-285	2.1	6
68	Investigations on mechanical and tribological properties of Al-Si10-Mg alloy/sugarcane bagasse ash particulate composites. <i>Particulate Science and Technology</i> , 2018 , 36, 762-770	2	24
67	Computational wear assessment of hard on hard hip implants subject to physically demanding tasks. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 899-910	3.1	12
66	Association of Job and Demographical Risk Factor with Occurrence of Neck Pain Among Hand Screen Printing Workers 2018 , 131-137		4
65	Prevalence of Upper Limb Disorders and Investigation of Risk Factors Among Commercial Kitchen Male Workers in South India 2018 , 27-33		1
64	Prediction of Cutting Force in Turning Process-an Experimental Approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 310, 012119	0.4	10
63	Milling of Nanoparticles Reinforced Al-Based Metal Matrix Composites. <i>Journal of Composites Science</i> , 2018 , 2, 13	3	8
62	Assessment of shoulder and low back muscle activity of male kitchen workers using surface electromyography. <i>International Journal of Occupational Medicine and Environmental Health</i> , 2018 , 31, 81-90	1.5	2
61	Ergonomics for Hand Screen Printing Workers: Cognitive Perception. <i>Managing the Asian Century</i> , 2018 , 155-162		2

60	Low back pain assessment using surface electromyography among industry workers during the repetitive bending tasks. <i>International Journal of Human Factors and Ergonomics</i> , 2018 , 5, 277	0.4	5
59	Wear prediction of hard carbon coated hard-on-hard hip implants using finite element method. <i>International Journal of Computer Aided Engineering and Technology</i> , 2018 , 10, 440	0.5	2
58	Mechanical loading characteristics of total hip prosthetics subjected to dynamic loading cycles. <i>Bio-Medical Materials and Engineering</i> , 2018 , 29, 723-737	1	3
57	Dry Sliding Wear Behavior of Palmyra Shell Ash Reinforced Aluminum Matrix (AlSi10Mg) Composites. <i>Tribology Transactions</i> , 2017 , 60, 469-478	1.8	13
56	Prevalence of work-related musculoskeletal injuries among South Indian hand screen-printing workers. <i>Work</i> , 2017 , 58, 163-172	1.6	14
55	Experimental and numerical investigations on plasma sprayed ceramic coatings with varying coating thickness. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2017 , 7, 26	0.4	
54	Quasi-Static Crushing and Energy Absorption Characteristics of Thin-Walled Cylinders with Geometric Discontinuities of Various Aspect Ratios. <i>Latin American Journal of Solids and Structures</i> , 2017 , 14, 1767-1787	1.4	8
53	Influence of surface texture shape, geometry and orientation on hydrodynamic lubrication performance of plane-to-plane slider surfaces. <i>Lubrication Science</i> , 2017 , 29, 153-181	1.3	46
52	New Star-Like Surface texture for Enhanced Hydrodynamic Lubrication Performance. <i>Archives of Metallurgy and Materials</i> , 2017 , 62, 1863-1869		
51	Frictional characteristics of diamond like carbon and tungsten carbide/carbon coated high carbon high chromium steel against carbon in dry sliding conformal contact for mechanical seals. <i>Mechanics and Industry</i> , 2017 , 18, 115	0.8	3
50	Combined effect of cup abduction and anteversion angles on long-term wear evolution of PCD-on-PCD hip bearing couple. <i>International Journal of Biomedical Engineering and Technology</i> , 2017 , 24, 169	1.3	0
49	Partial replacement of carbon black by nanoclay in butyl rubber compounds for tubeless tires. <i>Materialprüfung/Materials Testing</i> , 2017 , 59, 1054-1060	1.9	4
48	Experimental study on frictional characteristics of tungsten carbide versus carbon as mechanical seals under dry and eco-friendly lubrications. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 54, 39-45	4.1	12
47	WEAR PREDICTION OF THE LUMBAR TOTAL DISC REPLACEMENT USING FINITE ELEMENT METHOD. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1650004	0.7	3
46	Study of citation networks in tribology research. <i>Collnet Journal of Scientometrics and Information Management</i> , 2016 , 10, 71-96	0.5	1
45	Frictional characteristics of PVD coated mechanical seals against carbon under various classes of liquid lubricants. <i>Industrial Lubrication and Tribology</i> , 2016 , 68, 597-602	1.3	6
44	Predicting long-term wear performance of hard-on-hard bearing couples: effect of cup orientation. <i>Medical and Biological Engineering and Computing</i> , 2016 , 54, 1541-52	3.1	7
43	PREDICTING THE WEAR OF SOFT-ON-HARD BEARING COUPLES FOR HUMAN HIP PROSTHESIS USING FINITE ELEMENT CONCEPTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1650020	0.7	7

42	Multi-response milling process optimization using the Taguchi method coupled to grey relational analysis. <i>Materialpruefung/Materials Testing</i> , 2016 , 58, 462-470	1.9	20
41	Effect of Pretreatment Methods on Properties of Natural Fiber Composites: A Review. <i>Polymers and Polymer Composites</i> , 2016 , 24, 555-566	0.8	40
40	Frictional study of alumina, 316 stainless steel, phosphor bronze versus carbon as mechanical seals under dry sliding conformal contact. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2015 , 229, 1292-1299	1.4	3
39	Prediction of cutting force in turning process: An experimental and fuzzy approach. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 28, 1785-1793	1.6	9
38	Dry sliding wear and friction behavior of aluminum rice husk ash composite using Taguchi technique. <i>Journal of Composite Materials</i> , 2015 , 49, 2241-2250	2.7	23
37	Workplace factors and prevalence of low back pain among male commercial kitchen workers. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2015 , 28, 481-8	1.4	10
36	Wear in ceramic on ceramic type lumbar total disc replacement: effect of radial clearance. <i>Bio-Medical Materials and Engineering</i> , 2015 , 26, 89-96	1	1
35	Experimental and CFD investigations of carbon/SS316 mechanical face seals under different lubricating conditions. <i>Industrial Lubrication and Tribology</i> , 2015 , 67, 124-132	1.3	5
34	Investigation of work-related musculoskeletal disorders among male kitchen workers in South India. <i>International Journal of Occupational Safety and Ergonomics</i> , 2015 , 21, 524-31	2.1	22
33	Analysis of pile-up/sink-in during spherical indentation for various strain hardening levels. <i>Structural Engineering and Mechanics</i> , 2015 , 53, 429-442		3
32	Effect of Strain Hardening during Unloading for an Elastic-Plastic Hemisphere in Contact with a Rigid Flat. <i>Mechanics of Advanced Materials and Structures</i> , 2014 , 21, 139-144	1.8	6
31	Mechanical properties and water absorption of short snake grass fiber reinforced isophthallic polyester composites. <i>Fibers and Polymers</i> , 2014 , 15, 1927-1934	2	31
30	Investigation of chemically treated randomly oriented sansevieria ehrenbergii fiber reinforced isophthallic polyester composites. <i>Journal of Composite Materials</i> , 2014 , 48, 2961-2975	2.7	11
29	DYNAMIC CONTACT ANALYSIS OF TOTAL HIP PROSTHESIS DURING STUMBLING CYCLE. <i>Journal of Mechanics in Medicine and Biology</i> , 2014 , 14, 1450041	0.7	7
28	Wear prediction on silicon nitride bearing couple in human hip prosthesis using finite element concepts. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014 , 228, 717-724	1.4	13
27	Dynamic contact analysis of total hip prosthesis during normal active walking cycle. <i>International Journal of Biomedical Engineering and Technology</i> , 2014 , 15, 114	1.3	5
26	Effect of Radial Clearance on Wear and Contact Pressure of Hard-on-Hard Hip Prostheses Using Finite Element Concepts. <i>Tribology Transactions</i> , 2014 , 57, 814-820	1.8	16
25	Predicting wear of ceramic-ceramic hip prosthesis using finite element method for different radial clearances. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2014 , 8, 194-200	1.4	0

24	Hand arm vibration measurement using micro-accelerometer in different brick structures. <i>Smart Structures and Systems</i> , 2014 , 13, 959-974		1
23	Characterization of natural fiber and composites [A review]. <i>Journal of Reinforced Plastics and Composites</i> , 2013 , 32, 1457-1476	2.9	186
22	Investigation of chemically treated longitudinally oriented snake grass fiber-reinforced isophthallic polyester composites. <i>Journal of Reinforced Plastics and Composites</i> , 2013 , 32, 1698-1714	2.9	16
21	Mechanical properties and water absorption of snake grass longitudinal fiber reinforced isophthallic polyester composites. <i>Journal of Reinforced Plastics and Composites</i> , 2013 , 32, 1211-1223	2.9	20
20	Experimental Investigation of Friction Drilling on Brass, Aluminium and Stainless Steel. <i>Procedia Engineering</i> , 2013 , 64, 1219-1226		34
19	Experimental and CFD Investigations of Mechanical Seals under Dry/Compressed Air/Liquid Lubricating Conditions. <i>Procedia Engineering</i> , 2013 , 64, 419-425		5
18	Mechanical properties of randomly oriented snake grass fiber with banana and coir fiber-reinforced hybrid composites. <i>Journal of Composite Materials</i> , 2013 , 47, 2181-2191	2.7	52
17	Characterization of new cellulose sansevieria ehrenbergii fibers for polymer composites. <i>Composite Interfaces</i> , 2013 , 20, 575-593	2.3	141
16	Material selection of acetabular component in human hip prosthesis using finite element concepts. <i>International Journal of Experimental and Computational Biomechanics</i> , 2013 , 2, 118		9
15	Finite element analysis of different contact bearing couples for human hip prosthesis. <i>International Journal of Biomedical Engineering and Technology</i> , 2013 , 11, 66	1.3	21
14	Effect of Particle Size on Tribological Behavior of Rice Husk Ash Reinforced Aluminum Alloy (AlSi10Mg) Matrix Composites. <i>Tribology Transactions</i> , 2013 , 56, 1156-1167	1.8	49
13	Tensile and flexural properties of snake grass natural fiber reinforced isophthallic polyester composites. <i>Composites Science and Technology</i> , 2012 , 72, 1183-1190	8.6	194
12	Effect of temperature on an elastic-plastic hemispherical asperity in contact with a rigid flat. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2011 , 4, 292	0.4	
11	A Finite Element Based Study on the Elastic-Plastic Transition Behavior in a Hemisphere in Contact With a Rigid Flat. <i>Journal of Tribology</i> , 2008 , 130,	1.8	31
10	Sliding interaction and wear studies between two hemispherical asperities based on finite element approach. <i>International Journal of Surface Science and Engineering</i> , 2008 , 2, 71	1	5
9	Effect of strain hardening in elastic-plastic transition behavior in a hemisphere in contact with a rigid flat. <i>International Journal of Solids and Structures</i> , 2008 , 45, 3009-3020	3.1	42
8	Evaluation of Contact Parameters Using Single Asperity Contact Model for the Normal Contact of Rough Surfaces 2006 , 1507		
7	A Finite Element Study of Elastic-Plastic Contact Between Multiple Hemispherical Asperities 2005 , 395		

6	Investigations on the tribological behaviour, toxicity, and biodegradability of kapok oil bio-lubricant blended with (SAE20W40) mineral oil. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	4
5	Drilling of titanium alloy (Ti6Al4V) \bar{L} review. <i>Machining Science and Technology</i> ,1-66	2	5
4	Recast Layer Formation during Wire Electrical Discharge Machining of Titanium (Ti-Al6-V4) Alloy. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	4
3	EFFECT OF LOADS AND BIO-LUBRICANTS ON TRIBOLOGICAL STUDY OF ZIRCONIA AND ZIRCONIA TOUGHENED ALUMINA AGAINST Ti6Al4V FOR HIP PROSTHESIS. <i>Surface Review and Letters</i> ,2141006	1.1	
2	Experimental investigation on material removal rate, kerf width, surface roughness and the dimensional accuracy the accuracy of hole in Inconel 718 using wire electric discharge. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> ,095440892210960	1.5	0
1	Augmentation of crashworthiness design of circular tubular structures by engraving grooves of varying depths. <i>Mechanics of Advanced Materials and Structures</i> ,1-14	1.8	1