

Harish Kumar

List of Publications by Year in descending order

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100
papers

904
citations

567281

15
h-index

580821

25
g-index

107
all docs

107
docs citations

107
times ranked

635
citing authors

#	ARTICLE	IF	CITATIONS
1	Tribological investigations into pin-on-disc tribometer under dry sliding conditions at various temperature ranges. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 178-186.	2.5	0
2	Optimization of process variables for additive manufactured PLA based tensile specimen using taguchi design and artificial neural network (ANN) technique. Materials Today: Proceedings, 2022, 56, 3426-3432.	1.8	8
3	Measurement uncertainty assessment of articulated arm coordinate measuring machine for length measurement errors using Monte Carlo simulation. International Journal of Advanced Manufacturing Technology, 2022, 119, 5903-5916.	3.0	6
4	Advances in Mechanical and Materials Technology. Lecture Notes in Mechanical Engineering, 2022, , .	0.4	2
5	A contemporary investigation of metal additive manufacturing techniques. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, 1.	1.3	7
6	A brief review on various effects of surface texturing using lasers on the tool inserts. Materials Today: Proceedings, 2022, 56, 3803-3812.	1.8	9
7	A Review on Additive Manufactured Sensors. Mapan - Journal of Metrology Society of India, 2021, 36, 405-422.	1.5	12
8	Application of additive manufacturing in challenges posed by COVID-19. Materials Today: Proceedings, 2021, 38, 466-468.	1.8	20
9	Optimization of CNC Lathe Turning: A Review of Technique, Parameter and Outcome. Lecture Notes in Mechanical Engineering, 2021, , 963-973.	0.4	2
10	Advances in Manufacturing and Industrial Engineering. Lecture Notes in Mechanical Engineering, 2021, , .	0.4	2
11	Additive Manufacturing in Supply Chain Management: A Systematic Review. Lecture Notes in Mechanical Engineering, 2021, , 455-464.	0.4	3
12	Recent Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering, 2021, , .	0.4	5
13	Mechanical and wear performance of Al/SiC surface composite prepared through friction stir processing. Materials Research Express, 2021, 8, 016520.	1.6	35
14	Investigation on the materials used in additive manufacturing: A study. Materials Today: Proceedings, 2021, 43, 154-157.	1.8	10
15	Development and Metrological Evaluation of a Force Transducer for Industrial Application. IEEE Access, 2021, 9, 33299-33312.	4.2	1
16	Effect of 3D Printing on SCM. Lecture Notes in Mechanical Engineering, 2021, , 157-164.	0.4	4
17	Assessment of health infrastructure in tackling COVID-19: A case study of European and American scenario. Materials Today: Proceedings, 2021, 47, 3716-3719.	1.8	3
18	A simple mathematical model to predict and validate the spread of Covid-19 in India. Materials Today: Proceedings, 2021, 47, 3859-3864.	1.8	1

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19	Simulation Driven Approach For Deriving The PID Parameters For The Control Of An Electric Resistance Furnace (ERF). IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012016.	0.6	1
20	An investigation on wear characteristics of additive manufacturing materials. Materials Today: Proceedings, 2021, 47, 3654-3660.	1.8	12
21	A Review on 3D printed force sensors. IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012013.	0.6	3
22	Machine learning and its impact on control systems: A review. Materials Today: Proceedings, 2021, 47, 3744-3749.	1.8	3
23	Review of Recent Advancements Made In Flexible Energy Storage Devices. IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012040.	0.6	1
24	Latest trends in Additive manufacturing. IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012020.	0.6	6
25	Entropy stable discontinuous Galerkin methods for ten-moment Gaussian closure equations. Journal of Computational Physics, 2021, 431, 110148.	3.8	6
26	A Review of Additive Manufacturing in Aerospace Application. Revue Des Composites Et Des Materiaux Avances, 2021, 31, 109-115.	0.6	15
27	Challenges and Opportunities in Energy Transformation during COVID-19. Evergreen, 2021, 8, 255-261.	0.5	2
28	Impact of Integrating Artificial Intelligence with IoT-Enabled Supply Chain – A Systematic Literature Review. Lecture Notes in Mechanical Engineering, 2021, , 1183-1188.	0.4	3
29	Optimization of EDM Process Parameters: A Review of Technique, Process, and Outcome. Lecture Notes in Mechanical Engineering, 2021, , 981-996.	0.4	3
30	Effect of nation-wide lock-down due to Covid-19 over industrial pollution in Delhi, India. Materials Today: Proceedings, 2021, 47, 3661-3675.	1.8	2
31	A Contemporary Review of Aluminium MMC Developed through Stir-Casting Route. Materials, 2021, 14, 6386.	2.9	17
32	Biomedical Applications of Additive Manufacturing. Lecture Notes in Mechanical Engineering, 2021, , 553-566.	0.4	3
33	Optimization of Process Parameters of Pin on Disc Wear Set up for 3D Printed Specimens. Journal of Engineering Research, 2021, , .	0.7	2
34	Development and Metrological Evaluation of an Industrial Force Transducer. Mapan - Journal of Metrology Society of India, 2020, 35, 165-176.	1.5	1
35	Fabrication of aluminium carbon nano tube silicon carbide particles based hybrid nano-composite by spark plasma sintering. Materials Today: Proceedings, 2020, 21, 1637-1642.	1.8	28
36	Fused Deposition modeling process parameters optimization and effect on mechanical properties and part quality: Review and reflection on present research. Materials Today: Proceedings, 2020, 21, 1659-1672.	1.8	166

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37	Additive manufacturing: A review on 3 D printing of metals and study of residual stress, buckling load capacity of strut members. Materials Today: Proceedings, 2020, 21, 1689-1694.	1.8	23
38	Additive Manufacturing Enabled Supply Chain in Combating COVID-19. Journal of Industrial Integration and Management, 2020, 05, 495-505.	4.8	32
39	Optimising Process Parameters of Fused Filament Fabrication to Achieve Optimum Tensile Strength. Procedia Manufacturing, 2020, 51, 704-709.	1.9	7
40	Bio-Medical applications of Additive Manufacturing: A Review. Procedia Manufacturing, 2020, 51, 663-670.	1.9	30
41	Design and Fabrication of low capacity Torque Transducer. IOP Conference Series: Materials Science and Engineering, 2020, 748, 012032.	0.6	0
42	Utilization of rapid prototyping technology for the fabrication of an orthopedic shoe inserts for foot pain relieve using thermo-softening viscoelastic polymers: A novel experimental approach. Measurement and Control, 2020, 53, 519-530.	1.8	31
43	Recent Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering, 2020, , .	0.4	4
44	Fabrication of low elastic modulus Ti50Nb30HA20 alloy by rapid microwave sintering technique for biomedical applications. Materials Today: Proceedings, 2020, 21, 1713-1716.	1.8	17
45	Entropy-stable schemes for relativistic hydrodynamics equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	11
46	Development of novel finishing tool into Magnetic Abrasive Finishing process of Aluminum 6061. Materials and Manufacturing Processes, 2020, 35, 1129-1134.	4.7	17
47	Wear assessment of 3D printed parts of PLA (polylactic acid) using Taguchi design and Artificial Neural Network (ANN) technique. Materials Research Express, 2020, 7, 115307.	1.6	31
48	EDM Parametric Study of Composite Materials: A Review. Evergreen, 2020, 7, 519-529.	0.5	12
49	Effect of Intercritical Heat Treatment and Volume Fraction on the Morphological Properties, Mechanical Properties, and Work Hardening Behaviour of Dual-Phase Steel. Lecture Notes in Mechanical Engineering, 2020, , 393-405.	0.4	0
50	Redefinition of SI Units and Its Implications. Mapan - Journal of Metrology Society of India, 2020, 35, 471-474.	1.5	4
51	Additive Manufacturing in Wind Energy Systems: A Review. Smart Innovation, Systems and Technologies, 2020, , 757-766.	0.6	4
52	Recent Development in Virtual Cellular Manufacturing System. Lecture Notes in Mechanical Engineering, 2020, , 1-7.	0.4	1
53	3D Printer Nozzle Design and Its Parameters: A Systematic Review. Smart Innovation, Systems and Technologies, 2020, , 777-785.	0.6	3
54	Optimising Parameters of Fused Filament Fabrication Process to Achieve Optimum Tensile Strength Using Artificial Neural Network. Evergreen, 2020, 7, 373-381.	0.5	5

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55	Measurement Uncertainty Evaluation Using Monte Carlo Simulation for Newly Established Line Scale Calibration Facility at CSIR-NPLI. Mapan - Journal of Metrology Society of India, 2019, 34, 325-331.	1.5	6
56	Design Investigations of Axis-Symmetrical Force Transducers. Mapan - Journal of Metrology Society of India, 2019, 34, 511-519.	1.5	2
57	Finite Element Analysis of Ring Force Transducer. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012039.	0.6	0
58	Numerical Investigation of Square Ring Shape Force Transducer. IOP Conference Series: Materials Science and Engineering, 2019, 561, 012068.	0.6	1
59	Robust numerical schemes for Two-Fluid Ten-Moment plasma flow equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, 1.	1.4	2
60	Effect of magnetic field on electromagnetic soliton evolution by different pulses. Journal of Theoretical and Applied Physics, 2019, 13, 31-37.	1.4	2
61	A well-balanced scheme for Ten-Moment Gaussian closure equations with source term. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	1.4	4
62	Evaluation of uncertainty of measurement of shadow mask dot pitch using different approaches. Transactions of the Institute of Measurement and Control, 2018, 40, 2428-2435.	1.7	11
63	Entropy Stable Schemes For Ten-Moment Gaussian Closure Equations. Journal of Scientific Computing, 2018, 75, 1128-1155.	2.3	10
64	Determination of Fracture Parameters for Multiple Cracks of Laminated Composite Finite Plate. Applied Composite Materials, 2018, 25, 381-398.	2.5	1
65	Progressive damage response and crack growth direction for multiple through cracks of laminated composite finite plate. Engineering Solid Mechanics, 2018, , 371-389.	1.2	9
66	Study of electromagnetic solitons excited by different profile pulses. Journal of Theoretical and Applied Physics, 2018, 12, 65-70.	1.4	1
67	Positivity-preserving high-order discontinuous Galerkin schemes for Ten-Moment Gaussian closure equations. Journal of Computational Physics, 2017, 339, 370-395.	3.8	7
68	Determination of crack growth direction for multiple offset edge cracks of a finite plate. Engineering Solid Mechanics, 2017, , 185-198.	1.2	5
69	Restructuring of a plant production layout by using different array-based clustering techniques. International Journal of Advanced Operations Management, 2016, 8, 153.	0.3	1
70	Development and metrological characterization of a precision force transducer for static force measurement related applications. Measurement: Journal of the International Measurement Confederation, 2016, 88, 77-86.	5.0	9
71	Numerical and experiment fracture modeling for multiple cracks of a finite aluminum plate. International Journal of Mechanical Sciences, 2016, 110, 1-13.	6.7	17
72	Optimal Design of a Production System. Lecture Notes in Mechanical Engineering, 2016, , 697-703.	0.4	1

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73	Investigations on metrological characterization of elliptical shaped force transducers for precision force measurement. Engineering Solid Mechanics, 2015, 3, 263-273.	1.2	5
74	Development and Characterization of a Modified Ring Shaped Force Transducer. Mapan - Journal of Metrology Society of India, 2015, 30, 37-47.	1.5	7
75	Retrospective Investigations of Force Measurement. Mapan - Journal of Metrology Society of India, 2015, 30, 291-302.	1.5	3
76	Design, development and metrological characterization of a low capacity precision industrial force transducer. ISA Transactions, 2015, 58, 659-666.	5.7	9
77	Robust Finite Volume Schemes for Two-Fluid Plasma Equations. Journal of Scientific Computing, 2014, 60, 584-611.	2.3	22
78	Design of a Production System Using Genetic Algorithm. Procedia Technology, 2014, 14, 390-396.	1.1	7
79	Numerical Approximation of a Compressible Multiphase System. Communications in Computational Physics, 2014, 15, 1237-1265.	1.7	11
80	Uncertainty Evaluation of 1 MN Force Calibration Machine. Advanced Science, Engineering and Medicine, 2014, 6, 591-594.	0.3	0
81	Comparative Analysis of Different Air Density Equations. Mapan - Journal of Metrology Society of India, 2013, 28, 51-62.	1.5	6
82	Proposed Model for Optimizing Production System Using CMS. Applied Mechanics and Materials, 2013, 281, 673-676.	0.2	2
83	The development and characterization of a square ring shaped force transducer. Measurement Science and Technology, 2013, 24, 095007.	2.6	21
84	ESTABLISHMENT OF TRACEABILITY OF REFERENCE GRADE HYDROMETERS AT NATIONAL PHYSICAL LABORATORY, INDIA (NPLI). International Journal of Modern Physics Conference Series, 2013, 24, 1360006.	0.7	0
85	A CONTEMPORARY APPROACH FOR EVALUATION OF THE BEST MEASUREMENT CAPABILITY OF A FORCE CALIBRATION MACHINE. International Journal of Modern Physics Conference Series, 2013, 24, 1360013.	0.7	0
86	A Study of the Long Term Stability of Force Transducers. NCSL International Measure, 2013, 8, 40-44.	0.1	3
87	Long Term Uncertainty Investigations of 1 MN Force Calibration Machine at NPL, India (NPLI). Measurement Science Review, 2012, 12, .	1.0	9
88	Role of finite element analysis in improving hysteresis error of force transducers. Transactions of the Institute of Measurement and Control, 2012, 34, 1019-1024.	1.7	7
89	Entropy Stable Numerical Schemes for Two-Fluid Plasma Equations. Journal of Scientific Computing, 2012, 52, 401-425.	2.3	31
90	Metrological characterization of the new 1MN force standard machine of NPL India. Measurement: Journal of the International Measurement Confederation, 2012, 45, 590-596.	5.0	7

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91	Axial Deflection Analysis of a Force Transducer. Sensor Letters, 2012, 10, 742-747.	0.4	4
92	Investigations on Measurement Uncertainty and Stability of Dial Gauged Force Proving Instruments. NCSL International Measure, 2011, 6, 64-68.	0.1	3
93	Improved Performance of 50 kN Dead Weight Force Machine using Automation as a Tool. Measurement Science Review, 2011, 11, .	1.0	5
94	Stability Studies of Torque Transducers. Measurement Science Review, 2011, 11, .	1.0	3
95	Finite element analysis of a force transducer. Indian Journal of Science and Technology, 2011, 4, 1246-1247.	0.7	1
96	Numerical Simulation of Compressible Magnetohydrodynamic Plasma Flow in a Curcuit Breaker. , 2008, , .		0
97	Optimization of Cellular Manufacturing Systems Using Genetic Algorithm: A Review. Advanced Materials Research, 0, 622-623, 60-63.	0.3	4
98	New Design of Ignition System of Gas Turbine. Applied Mechanics and Materials, 0, 592-594, 1662-1666.	0.2	0
99	Implications of Additive Manufacturing on Supply Chain Management. Journal of Industrial Integration and Management, 0, , 1-14.	4.8	3
100	Tribological behavior investigation of 316L stainless steel samples processed by selective laser melting. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 0, , 135065012211017.	1.8	3