

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	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
2	Mechanical and wear performance of Al/SiC surface composite prepared through friction stir processing. Materials Research Express, 2021, 8, 016520.	1.6	35
3	Additive Manufacturing Enabled Supply Chain in Combating COVID-19. Journal of Industrial Integration and Management, 2020, 05, 495-505.	4.8	32
4	Entropy Stable Numerical Schemes for Two-Fluid Plasma Equations. Journal of Scientific Computing, 2012, 52, 401-425.	2.3	31
5	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
6	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
7	Bio-Medical applications of Additive Manufacturing: A Review. Procedia Manufacturing, 2020, 51, 663-670.	1.9	30
8	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
9	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
10	Robust Finite Volume Schemes for Two-Fluid Plasma Equations. Journal of Scientific Computing, 2014, 60, 584-611.	2.3	22
11	The development and characterization of a square ring shaped force transducer. Measurement Science and Technology, 2013, 24, 095007.	2.6	21
12	Application of additive manufacturing in challenges posed by COVID-19. Materials Today: Proceedings, 2021, 38, 466-468.	1.8	20
13	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
14	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
15	Development of novel finishing tool into Magnetic Abrasive Finishing process of Aluminum 6061. Materials and Manufacturing Processes, 2020, 35, 1129-1134.	4.7	17
16	A Contemporary Review of Aluminium MMC Developed through Stir-Casting Route. Materials, 2021, 14, 6386.	2.9	17
17	A Review of Additive Manufacturing in Aerospace Application. Revue Des Composites Et Des Materiaux Avances, 2021, 31, 109-115.	0.6	15
18	A Review on Additive Manufactured Sensors. Mapan - Journal of Metrology Society of India, 2021, 36, 405-422.	1.5	12

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19	An investigation on wear characteristics of additive manufacturing materials. Materials Today: Proceedings, 2021, 47, 3654-3660.	1.8	12
20	EDM Parametric Study of Composite Materials: A Review. Evergreen, 2020, 7, 519-529.	0.5	12
21	Numerical Approximation of a Compressible Multiphase System. Communications in Computational Physics, 2014, 15, 1237-1265.	1.7	11
22	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
23	Entropy-stable schemes for relativistic hydrodynamics equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	11
24	Entropy Stable Schemes For Ten-Moment Gaussian Closure Equations. Journal of Scientific Computing, 2018, 75, 1128-1155.	2.3	10
25	Investigation on the materials used in additive manufacturing: A study. Materials Today: Proceedings, 2021, 43, 154-157.	1.8	10
26	Long Term Uncertainty Investigations of 1 MN Force Calibration Machine at NPL, India (NPLI). Measurement Science Review, 2012, 12, .	1.0	9
27	Design, development and metrological characterization of a low capacity precision industrial force transducer. ISA Transactions, 2015, 58, 659-666.	5.7	9
28	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
29	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
30	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
31	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
32	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
33	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
34	Design of a Production System Using Genetic Algorithm. Procedia Technology, 2014, 14, 390-396.	1.1	7
35	Development and Characterization of a Modified Ring Shaped Force Transducer. Mapan - Journal of Metrology Society of India, 2015, 30, 37-47.	1.5	7
36	Positivity-preserving high-order discontinuous Galerkin schemes for Ten-Moment Gaussian closure equations. Journal of Computational Physics, 2017, 339, 370-395.	3.8	7

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37	Optimising Process Parameters of Fused Filament Fabrication to Achieve Optimum Tensile Strength. <i>Procedia Manufacturing</i> , 2020, 51, 704-709.	1.9	7
38	A contemporary investigation of metal additive manufacturing techniques. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2022, 47, 1.	1.3	7
39	Comparative Analysis of Different Air Density Equations. <i>Mapan - Journal of Metrology Society of India</i> , 2013, 28, 51-62.	1.5	6
40	Measurement Uncertainty Evaluation Using Monte Carlo Simulation for Newly Established Line Scale Calibration Facility at CSIR-NPLI. <i>Mapan - Journal of Metrology Society of India</i> , 2019, 34, 325-331.	1.5	6
41	Latest trends in Additive manufacturing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1104, 012020.	0.6	6
42	Entropy stable discontinuous Galerkin methods for ten-moment Gaussian closure equations. <i>Journal of Computational Physics</i> , 2021, 431, 110148.	3.8	6
43	Measurement uncertainty assessment of articulated arm coordinate measuring machine for length measurement errors using Monte Carlo simulation. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 5903-5916.	3.0	6
44	Improved Performance of 50 kN Dead Weight Force Machine using Automation as a Tool. <i>Measurement Science Review</i> , 2011, 11, .	1.0	5
45	Investigations on metrological characterization of elliptical shaped force transducers for precision force measurement. <i>Engineering Solid Mechanics</i> , 2015, 3, 263-273.	1.2	5
46	Determination of crack growth direction for multiple offset edge cracks of a finite plate. <i>Engineering Solid Mechanics</i> , 2017, , 185-198.	1.2	5
47	Recent Advances in Mechanical Engineering. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , .	0.4	5
48	Optimising Parameters of Fused Filament Fabrication Process to Achieve Optimum Tensile Strength Using Artificial Neural Network. <i>Evergreen</i> , 2020, 7, 373-381.	0.5	5
49	Optimization of Cellular Manufacturing Systems Using Genetic Algorithm: A Review. <i>Advanced Materials Research</i> , 0, 622-623, 60-63.	0.3	4
50	A well-balanced scheme for Ten-Moment Gaussian closure equations with source term. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2018, 69, 1.	1.4	4
51	Recent Advances in Mechanical Engineering. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , .	0.4	4
52	Effect of 3D Printing on SCM. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 157-164.	0.4	4
53	Axial Deflection Analysis of a Force Transducer. <i>Sensor Letters</i> , 2012, 10, 742-747.	0.4	4
54	Redefinition of SI Units and Its Implications. <i>Mapan - Journal of Metrology Society of India</i> , 2020, 35, 471-474.	1.5	4

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55	Additive Manufacturing in Wind Energy Systems: A Review. Smart Innovation, Systems and Technologies, 2020, , 757-766.	0.6	4
56	Investigations on Measurement Uncertainty and Stability of Dial Gauged Force Proving Instruments. NCSL International Measure, 2011, 6, 64-68.	0.1	3
57	A Study of the Long Term Stability of Force Transducers. NCSL International Measure, 2013, 8, 40-44.	0.1	3
58	Retrospective Investigations of Force Measurement. Mapan - Journal of Metrology Society of India, 2015, 30, 291-302.	1.5	3
59	Additive Manufacturing in Supply Chain Management: A Systematic Review. Lecture Notes in Mechanical Engineering, 2021, , 455-464.	0.4	3
60	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
61	A Review on 3D printed force sensors. IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012013.	0.6	3
62	Machine learning and its impact on control systems: A review. Materials Today: Proceedings, 2021, 47, 3744-3749.	1.8	3
63	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
64	Optimization of EDM Process Parameters: A Review of Technique, Process, and Outcome. Lecture Notes in Mechanical Engineering, 2021, , 981-996.	0.4	3
65	Stability Studies of Torque Transducers. Measurement Science Review, 2011, 11, .	1.0	3
66	Biomedical Applications of Additive Manufacturing. Lecture Notes in Mechanical Engineering, 2021, , 553-566.	0.4	3
67	3D Printer Nozzle Design and Its Parameters: A Systematic Review. Smart Innovation, Systems and Technologies, 2020, , 777-785.	0.6	3
68	Implications of Additive Manufacturing on Supply Chain Management. Journal of Industrial Integration and Management, 0, , 1-14.	4.8	3
69	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
70	Proposed Model for Optimizing Production System Using CMS. Applied Mechanics and Materials, 2013, 281, 673-676.	0.2	2
71	Design Investigations of Axis-Symmetrical Force Transducers. Mapan - Journal of Metrology Society of India, 2019, 34, 511-519.	1.5	2
72	Robust numerical schemes for Two-Fluid Ten-Moment plasma flow equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, 1.	1.4	2

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73	Effect of magnetic field on electromagnetic soliton evolution by different pulses. Journal of Theoretical and Applied Physics, 2019, 13, 31-37.	1.4	2
74	Optimization of CNC Lathe Turning: A Review of Technique, Parameter and Outcome. Lecture Notes in Mechanical Engineering, 2021, , 963-973.	0.4	2
75	Advances in Manufacturing and Industrial Engineering. Lecture Notes in Mechanical Engineering, 2021, , .	0.4	2
76	Challenges and Opportunities in Energy Transformation during COVID-19. Evergreen, 2021, 8, 255-261.	0.5	2
77	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
78	Optimization of Process Parameters of Pin on Disc Wear Set up for 3D Printed Specimens. Journal of Engineering Research, 2021, , .	0.7	2
79	Advances in Mechanical and Materials Technology. Lecture Notes in Mechanical Engineering, 2022, , .	0.4	2
80	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
81	Optimal Design of a Production System. Lecture Notes in Mechanical Engineering, 2016, , 697-703.	0.4	1
82	Determination of Fracture Parameters for Multiple Cracks of Laminated Composite Finite Plate. Applied Composite Materials, 2018, 25, 381-398.	2.5	1
83	Study of electromagnetic solitons excited by different profile pulses. Journal of Theoretical and Applied Physics, 2018, 12, 65-70.	1.4	1
84	Numerical Investigation of Square Ring Shape Force Transducer. IOP Conference Series: Materials Science and Engineering, 2019, 561, 012068.	0.6	1
85	Development and Metrological Evaluation of an Industrial Force Transducer. Mapan - Journal of Metrology Society of India, 2020, 35, 165-176.	1.5	1
86	Development and Metrological Evaluation of a Force Transducer for Industrial Application. IEEE Access, 2021, 9, 33299-33312.	4.2	1
87	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
88	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
89	Review of Recent Advancements Made In Flexible Energy Storage Devices. IOP Conference Series: Materials Science and Engineering, 2021, 1104, 012040.	0.6	1
90	Finite element analysis of a force transducer. Indian Journal of Science and Technology, 2011, 4, 1246-1247.	0.7	1

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91	Recent Development in Virtual Cellular Manufacturing System. Lecture Notes in Mechanical Engineering, 2020, , 1-7.	0.4	1
92	Numerical Simulation of Compressible Magnetohydrodynamic Plasma Flow in a Curcuit Breaker. , 2008, , .		0
93	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
94	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
95	New Design of Ignition System of Gas Turbine. Applied Mechanics and Materials, 0, 592-594, 1662-1666.	0.2	0
96	Finite Element Analysis of Ring Force Transducer. IOP Conference Series: Materials Science and Engineering, 2019, 691, 012039.	0.6	0
97	Design and Fabrication of low capacity Torque Transducer. IOP Conference Series: Materials Science and Engineering, 2020, 748, 012032.	0.6	0
98	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
99	Uncertainty Evaluation of 1 MN Force Calibration Machine. Advanced Science, Engineering and Medicine, 2014, 6, 591-594.	0.3	0
100	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