K V Gangadharan

List of Publications by Year
in descending order

78 papers	807 citations	516710 16 h-index	580821 25 g-index
79 all docs	79 docs citations	79 times ranked	616 citing authors

#	Article	IF	Citations
1	Fault diagnosis of antifriction bearing in internal combustion engine gearbox using data mining techniques. International Journal of Systems Assurance Engineering and Management, 2022, 13, 1121-1134.	2.4	2
2	Performance Evaluation of Magneto-Rheological Damper Through Characterization Testing, Modeling and its Implementation in Quarter Car. Journal of Vibration Engineering and Technologies, 2022, 10, 967-983.	2.2	3
3	Developing the viscoelastic model and model-based fuzzy controller for the MRE isolator for the wide frequency range vibration isolation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	1
4	Fault diagnosis of internal combustion engine gearbox using vibration signals based on signal processing techniques. Journal of Quality in Maintenance Engineering, 2021, 27, 385-412.	1.7	6
5	Material modeling of frequency, magnetic field and strain dependent response of magnetorheological elastomer. Journal of Materials Science, 2021, 56, 15752-15766.	3.7	4
6	Dynamic response of a MRE sandwich structure under a non-homogenous magnetic field. Journal of the Korean Physical Society, 2021, 79, 864.	0.7	1
7	Conceptualization and Design ofÂRemotely-Accessible Hardware Interface (RAHI) Laboratory. Advances in Intelligent Systems and Computing, 2021, , 125-134.	0.6	0
8	A novel approach to characterize the magnetic field and frequency dependent dynamic properties of magnetorheological elastomer for torsional loading conditions. Journal of Magnetism and Magnetic Materials, 2020, 498, 166169.	2.3	11
9	Application of vibration analysis and data mining techniques for bearing fault diagnosis in two stroke IC engine gearbox. AIP Conference Proceedings, 2020, , .	0.4	3
10	Vibration control of beam with magnetic rotating unbalance. AIP Conference Proceedings, 2020, , .	0.4	0
11	The effect of inclination angle of shock absorber on ride comfort and road holding of two-wheeled vehicle. AIP Conference Proceedings, 2020, , .	0.4	1
12	Modelling of frictional damper with equivalent viscous damper. AIP Conference Proceedings, 2020, , .	0.4	0
13	Numerical and experimental study on dynamic characteristics of honeycomb core sandwich panel from equivalent 2D model. Sadhana - Academy Proceedings in Engineering Sciences, 2020, 45, 1.	1.3	7
14	Remotely operated marine rescue vehicle. AIP Conference Proceedings, 2020, , .	0.4	1
15	Performance of magnetorheological elastomer based torsional vibration isolation system for dynamic loading conditions. Journal of Central South University, 2020, 27, 144-154.	3.0	4
16	Preparation and dynamic characterization of polymer based magnetorheological elastomer for vibration isolator. AIP Conference Proceedings, 2019, , .	0.4	0
17	A novel method for dynamic characterization of angular displacement-dependent viscoelastic properties of magnetorheological elastomer under torsional loading conditions. Smart Materials and Structures, 2019, 28, 075034.	3.5	5
18	Theoretical and experimental investigation of model-free adaptive fuzzy sliding mode control for MRE based adaptive tuned vibration absorber. Smart Materials and Structures, 2019, 28, 045017.	3.5	7

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19	Multi objective optimization of quarter car parameters for better ride comfort and road holding. AIP Conference Proceedings, 2019, , .	0.4	2
20	Design of magneto-rheological brake for optimum dimension. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	4
21	Integer and Fractional Order-Based Viscoelastic Constitutive Modeling to Predict the Frequency and Magnetic Field-Induced Properties of Magnetorheological Elastomer. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.6	19
22	Vibro-acoustic response and sound transmission loss characteristics of truss core sandwich panel filled with foam. Aerospace Science and Technology, 2018, 78, 1-11.	4.8	50
23	Experimental investigation of torsional vibration isolation using Magneto Rheological Elastomer. MATEC Web of Conferences, 2018, 144, 01007.	0.2	2
24	Bending and free vibration analysis of foam-filled truss core sandwich panel. Journal of Sandwich Structures and Materials, 2018, 20, 617-638.	3.5	40
25	Experimental investigation on the effect of carbon nanotube additive on the field-induced viscoelastic properties of magnetorheological elastomer. Journal of Materials Science, 2018, 53, 4229-4241.	3.7	30
26	Analytical Studies on Ride Quality and Ride Comfort in Chennai Mass Rapid Transit System (MRTS) Railroad Vehicle. Journal of the Institution of Engineers (India): Series C, 2018, 99, 737-742.	1.2	4
27	IoT Based Joystick Controlled Pibot Using Socket Communication. , 2018, , .		6
28	Experimental study on the dynamic properties of magneto-rheological materials. IOP Conference Series: Materials Science and Engineering, 2018, 402, 012140.	0.6	0
29	Sensor Fusion for Operational Mode Shape Analysis of Multi DoF Systems. Materials Today: Proceedings, 2018, 5, 24871-24879.	1.8	0
30	Parametric Modeling and Real Time Remote Experimentation of a Reconfigurable Coupled Pendulum. Materials Today: Proceedings, 2018, 5, 24157-24166.	1.8	2
31	Experimental investigation of 3D-printed polymer-based MR sandwich beam under discretized magnetic field. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	8
32	A comparative study on the effectiveness of system parameters in monitoring pre-load loss in bolted joints. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	2
33	Parametric studies on bending stiffness and damping ratio of Sandwich structures. Additive Manufacturing, 2018, 22, 583-591.	3.0	16
34	Experimental investigation of torsional vibration isolation using Magneto Rheological Elastomer. MATEC Web of Conferences, 2018, 144, 01007.	0.2	2
35	Vertical dynamic analysis of a quarter car suspension system with MR damper. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 41-51.	1.6	30
36	Sound transmission loss characteristics of sandwich aircraft panels: Influence of nature of core. Journal of Sandwich Structures and Materials, 2017, 19, 26-48.	3.5	42

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37	Optimization of Magneto-Rheological Damper for Maximizing Magnetic Flux Density in the Fluid Flow Gap Through FEA and GA Approaches. Journal of the Institution of Engineers (India): Series C, 2017, 98, 533-539.	1.2	20
38	Aileron endurance test rig design based on high fidelity mathematical modeling. CEAS Aeronautical Journal, 2017, 8, 653-671.	1.7	2
39	Engine gearbox fault diagnosis using empirical mode decomposition method and NaÃ¯ve Bayes algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1143-1153.	1.3	21
40	Design and development of magneto-rheological brake for optimum casing thickness. , 2017, , .		1
41	Dynamic deformationâ€"dependent magnetic fieldâ€"induced force transmissibility characteristics of magnetorheological elastomer. Journal of Intelligent Material Systems and Structures, 2017, 28, 1491-1500.	2.5	10
42	Evaluation of Flow Properties of Air at the Exit of Holes on the Blow Pipe in a Pulse Jet Filter Bag House. Lecture Notes in Mechanical Engineering, 2017, , 375-383.	0.4	0
43	Magnetic field and frequency dependent LVE limit characterization of magnetorheological elastomer. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1365-1373.	1.6	9
44	Sound radiation and transmission loss characteristics of a honeycomb sandwich panel with composite facings: Effect of inherent material damping. Journal of Sound and Vibration, 2016, 383, 221-232.	3.9	68
45	Influence of nature of core on vibro acoustic behavior of sandwich aerospace structures. Aerospace Science and Technology, 2016, 56, 155-167.	4.8	52
46	An adoption model describing clinicianâ€™s acceptance of automated diagnostic system for tuberculosis. Health and Technology, 2016, 6, 247-257.	3.6	11
47	Experimental investigation on the effect of magnetic field on strain dependent dynamic stiffness of magnetorheological elastomer. Rheologica Acta, 2016, 55, 993-1001.	2.4	12
48	Effect of Core Topology on Vibro-acoustic Characteristics of Truss Core Sandwich Panels. Procedia Engineering, 2016, 144, 1397-1402.	1.2	9
49	Model based test equipment design and controller tuning for elevator endurance test rig. , 2015, , .		0
50	Fluoro deoxyglucose positron emission tomography-computerized tomography in primary staging and response assessment of a rare case of primary pleural synovial sarcoma. Indian Journal of Nuclear Medicine, 2015, 30, 62.	0.3	2
51	Fault diagnosis of gears through discrete wavelet features based on a decision tree and support vector machine. International Journal of Condition Monitoring, 2015, 5, 23-29.	0.1	5
52	Modeling and design of field programmable gate array based real time robust controller for active control of vibrating smart system. Journal of Sound and Vibration, 2015, 345, 18-33.	3.9	11
53	A novel approach to investigate effect of magnetic field on dynamic properties of natural rubber based isotropic thick magnetorheological elastomers in shear mode. Journal of Central South University, 2015, 22, 2612-2619.	3.0	16
54	Design and development of a model free robust controller for active control of dominant flexural modes of vibrations in a smart system. Journal of Sound and Vibration, 2015, 355, 1-18.	3.9	9

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55	Parametric modeling and FPGA based real time active vibration control of a piezoelectric laminate cantilever beam at resonance. JVC/Journal of Vibration and Control, 2015, 21, 2881-2895.	2.6	13
56	Design and Implementation of Remote Mechatronics Laboratory for e-Learning Using LabVIEW and Smartphone and Cross-platform Communication Toolkit (SCCT). Procedia Technology, 2014, 14, 108-115.	1.1	14
57	Active Vibration Control of a Smart Cantilever Beam on General Purpose Operating System. Defence Science Journal, 2013, 63, 413-417.	0.8	16
58	Active vibration control of a smart cantilever beam at resonance: A comparison between conventional and Real Time Control. , 2012, , .		6
59	Computer Interface to Accurately Determine Fermi Energy and Fermi Temperature of Materials. International Journal of Computer Applications, 2012, 38, 44-49.	0.2	0
60	Machining characteristics of nanocomposites. Advanced Materials Letters, 2011, 2, 222-226.	0.6	4
61	Fabrication and Investigation of Damping Properties of Nano Particulate Composites. Journal of Minerals and Materials Characterization and Engineering, 2010, 09, 819-830.	0.4	7
62	CNS relapse in a low risk acute promyelocytic leukemia patient treated with ATRA-based regimen: is there a role for prophylactic CNS therapy in acute promyelocytic leukemia?. Indian Journal of Hematology and Blood Transfusion, 2009, 25, 118-119.	0.6	0
63	Dynamic response of railroad vehicles: a frequency domain approach. International Journal of Heavy Vehicle Systems, 2008, 15, 65.	0.2	8
64	Dynamic response of railroad vehicle to rail joints and average vertical profile: a time domain approach. International Journal of Heavy Vehicle Systems, 2007, 14, 402.	0.2	4
65	Statistical modeling of a magneto-rheological fluid damper using the design of experiments approach. Smart Materials and Structures, 2007, 16, 1310-1314.	3.5	26
66	Preparation of high-T c superconducting ceramic/polymer composites using gamma radiation. Journal of Materials Science Letters, 1997, 16, 218-220.	0.5	3
67	Evidence for superconductivity in fluorinated La2CuO4 at 35 K: Microwave investigations. Pramana - Journal of Physics, 1996, 46, 277-281.	1.8	0
68	Positive role of potassium in neutralising the non-stoichiometry effects in T1-2212: Synthesis and microwave investigations. Applied Superconductivity, 1996, 4, 261-269.	0.5	1
69	Luminescence properties of Ti-doped gem-grade zirconia powders. Bulletin of Materials Science, 1994, 17, 163-169.	1.7	15
70	Synthesis of single phase Tl-2223 superconductors: How much thallium do we really need?. Bulletin of Materials Science, 1991, 14, 241-246.	1.7	3
71	Superconducting transition temperature of single-phase Tl-2223: Crucial role of Ca-vacancies and Tl-content. Physica C: Superconductivity and Its Applications, 1989, 160, 155-160.	1.2	24
72	On the preparation and structure of the 81 K single phase superconductir in the Biî—¸Caî—¸Srî—¸Cuî—¸O system. Physica C: Superconductivity and Its Applications, 1988, 156, 230-234.	1.2	45

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73	Insensitivity of Tc to high K substitution in the Tl-Ba-Ca-Cu-O system. Physica C: Superconductivity and Its Applications, 1988, 152, 505-507.	1.2	8
74	High temperature superconductivity in bismuth-alkaline earth-copper-oxygen system. Pramana - Journal of Physics, 1988, 30, L469-L471.	1.8	2
75	On the synthesis of high-temperature superconducting compounds in the Biî—¸Srî—¸Caî—¸Cuî—¸O system. Materials Letters, 1988, 6, 274-276.	2.6	4
76	Synthesis and properties of a 125 K superconductor in the Tlâ€Caâ€Baâ€Cuâ€O system. Applied Physics Letters, 1988, 53, 414-416.	3.3	21
77	Superconductivity and localization in (La,Y)2-xSrxCuO4. Solid State Communications, 1987, 63, 905-906.	1.9	3
78	Analysis of MR Damper Based on Finite Element Approach. Applied Mechanics and Materials, 0, 592-594, 2006-2010.	0.2	6