K V Gangadharan

List of Publications by Year
in descending order

78 papers	807 citations	516215 16 h-index	580395 25 g-index
79 all docs	79 docs citations	79 times ranked	616 citing authors

#	Article	IF	Citations
1	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.	2.1	68
2	Influence of nature of core on vibro acoustic behavior of sandwich aerospace structures. Aerospace Science and Technology, 2016, 56, 155-167.	2.5	52
3	Vibro-acoustic response and sound transmission loss characteristics of truss core sandwich panel filled with foam. Aerospace Science and Technology, 2018, 78, 1-11.	2.5	50
4	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.	0.6	45
5	Sound transmission loss characteristics of sandwich aircraft panels: Influence of nature of core. Journal of Sandwich Structures and Materials, 2017, 19, 26-48.	2.0	42
6	Bending and free vibration analysis of foam-filled truss core sandwich panel. Journal of Sandwich Structures and Materials, 2018, 20, 617-638.	2.0	40
7	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.	0.8	30
8	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.	1.7	30
9	Statistical modeling of a magneto-rheological fluid damper using the design of experiments approach. Smart Materials and Structures, 2007, 16, 1310-1314.	1.8	26
10	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.	0.6	24
11	Synthesis and properties of a 125 K superconductor in the Tlâ€Caâ€Baâ€Cuâ€O system. Applied Physics Letters, 1988, 53, 414-416.	1.5	21
12	Engine gearbox fault diagnosis using empirical mode decomposition method and NaÃ¯ve Bayes algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1143-1153.	0.8	21
13	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.	0.7	20
14	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, .	1.0	19
15	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.	1.2	16
16	Parametric studies on bending stiffness and damping ratio of Sandwich structures. Additive Manufacturing, 2018, 22, 583-591.	1.7	16
17	Active Vibration Control of a Smart Cantilever Beam on General Purpose Operating System. Defence Science Journal, 2013, 63, 413-417.	0.5	16
18	Luminescence properties of Ti-doped gem-grade zirconia powders. Bulletin of Materials Science, 1994, 17, 163-169.	0.8	15

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19	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
20	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.	1.5	13
21	Experimental investigation on the effect of magnetic field on strain dependent dynamic stiffness of magnetorheological elastomer. Rheologica Acta, 2016, 55, 993-1001.	1.1	12
22	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.	2.1	11
23	An adoption model describing clinician's acceptance of automated diagnostic system for tuberculosis. Health and Technology, 2016, 6, 247-257.	2.1	11
24	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.	1.0	11
25	Dynamic deformation–dependent magnetic field–induced force transmissibility characteristics of magnetorheological elastomer. Journal of Intelligent Material Systems and Structures, 2017, 28, 1491-1500.	1.4	10
26	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.	2.1	9
27	Effect of Core Topology on Vibro-acoustic Characteristics of Truss Core Sandwich Panels. Procedia Engineering, 2016, 144, 1397-1402.	1.2	9
28	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.	0.8	9
29	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.	0.6	8
30	Dynamic response of railroad vehicles: a frequency domain approach. International Journal of Heavy Vehicle Systems, 2008, 15, 65.	0.1	8
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.	0.8	8
32	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.	1.8	7
33	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.	0.8	7
34	Fabrication and Investigation of Damping Properties of Nano Particulate Composites. Journal of Minerals and Materials Characterization and Engineering, 2010, 09, 819-830.	0.1	7
35	Active vibration control of a smart cantilever beam at resonance: A comparison between conventional and Real Time Control. , 2012, , .		6
36	Analysis of MR Damper Based on Finite Element Approach. Applied Mechanics and Materials, 0, 592-594, 2006-2010.	0.2	6

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37	IoT Based Joystick Controlled Pibot Using Socket Communication. , 2018, , .		6
38	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.	1.0	6
39	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
40	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.	1.8	5
41	On the synthesis of high-temperature superconducting compounds in the Biî—¸Srî—¸Caî—¸Cuî—¸O system. Materials Letters, 1988, 6, 274-276.	1.3	4
42	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.	0.1	4
43	Design of magneto-rheological brake for optimum dimension. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	4
44	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.	0.7	4
45	Performance of magnetorheological elastomer based torsional vibration isolation system for dynamic loading conditions. Journal of Central South University, 2020, 27, 144-154.	1.2	4
46	Material modeling of frequency, magnetic field and strain dependent response of magnetorheological elastomer. Journal of Materials Science, 2021, 56, 15752-15766.	1.7	4
47	Machining characteristics of nanocomposites. Advanced Materials Letters, 2011, 2, 222-226.	0.3	4
48	Superconductivity and localization in (La,Y)2-xSrxCuO4. Solid State Communications, 1987, 63, 905-906.	0.9	3
49	Synthesis of single phase Tl-2223 superconductors: How much thallium do we really need?. Bulletin of Materials Science, 1991, 14, 241-246.	0.8	3
50	Preparation of high-T c superconducting ceramic/polymer composites using gamma radiation. Journal of Materials Science Letters, 1997, 16, 218-220.	0.5	3
51	Application of vibration analysis and data mining techniques for bearing fault diagnosis in two stroke IC engine gearbox. AIP Conference Proceedings, 2020, , .	0.3	3
52	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.	1.3	3
53	High temperature superconductivity in bismuth-alkaline earth-copper-oxygen system. Pramana - Journal of Physics, 1988, 30, L469-L471.	0.9	2
54	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.	0.1	2

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55	Aileron endurance test rig design based on high fidelity mathematical modeling. CEAS Aeronautical Journal, 2017, 8, 653-671.	0.9	2
56	Experimental investigation of torsional vibration isolation using Magneto Rheological Elastomer. MATEC Web of Conferences, 2018, 144, 01007.	0.1	2
57	Parametric Modeling and Real Time Remote Experimentation of a Reconfigurable Coupled Pendulum. Materials Today: Proceedings, 2018, 5, 24157-24166.	0.9	2
58	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.	0.8	2
59	Multi objective optimization of quarter car parameters for better ride comfort and road holding. AIP Conference Proceedings, 2019, , .	0.3	2
60	Experimental investigation of torsional vibration isolation using Magneto Rheological Elastomer. MATEC Web of Conferences, 2018, 144, 01007.	0.1	2
61	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.	1.5	2
62	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
63	Design and development of magneto-rheological brake for optimum casing thickness. , 2017, , .		1
64	The effect of inclination angle of shock absorber on ride comfort and road holding of two-wheeled vehicle. AIP Conference Proceedings, 2020, , .	0.3	1
65	Remotely operated marine rescue vehicle. AIP Conference Proceedings, 2020, , .	0.3	1
66	Dynamic response of a MRE sandwich structure under a non-homogenous magnetic field. Journal of the Korean Physical Society, 2021, 79, 864.	0.3	1
67	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, .	0.8	1
68	Evidence for superconductivity in fluorinated La2CuO4 at 35 K: Microwave investigations. Pramana - Journal of Physics, 1996, 46, 277-281.	0.9	0
69	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.	0.3	0
70	Model based test equipment design and controller tuning for elevator endurance test rig. , 2015, , .		0
71	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.	0.3	0
72	Experimental study on the dynamic properties of magneto-rheological materials. IOP Conference Series: Materials Science and Engineering, 2018, 402, 012140.	0.3	0

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73	Sensor Fusion for Operational Mode Shape Analysis of Multi DoF Systems. Materials Today: Proceedings, 2018, 5, 24871-24879.	0.9	0
74	Preparation and dynamic characterization of polymer based magnetorheological elastomer for vibration isolator. AIP Conference Proceedings, 2019, , .	0.3	0
75	Vibration control of beam with magnetic rotating unbalance. AIP Conference Proceedings, 2020, , .	0.3	0
76	Modelling of frictional damper with equivalent viscous damper. AIP Conference Proceedings, 2020, , .	0.3	0
77	Computer Interface to Accurately Determine Fermi Energy and Fermi Temperature of Materials. International Journal of Computer Applications, 2012, 38, 44-49.	0.2	0
78	Conceptualization and Design ofÂRemotely-Accessible Hardware Interface (RAHI) Laboratory. Advances in Intelligent Systems and Computing, 2021, , 125-134.	0.5	0