

# K V Gangadharan

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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         |
| 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.                     | 1.3 | 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, .   | 0.8 | 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.   | 1.0 | 6         |
| 5  | Material modeling of frequency, magnetic field and strain dependent response of magnetorheological elastomer. Journal of Materials Science, 2021, 56, 15752-15766.   | 1.7 | 4         |
| 6  | Dynamic response of a MRE sandwich structure under a non-homogenous magnetic field. Journal of the Korean Physical Society, 2021, 79, 864.   | 0.3 | 1         |
| 7  | Conceptualization and Design of Remotely-Accessible Hardware Interface (RAHI) Laboratory. Advances in Intelligent Systems and Computing, 2021, , 125-134.  | 0.5 | 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. | 1.0 | 11        |
| 9  | Application of vibration analysis and data mining techniques for bearing fault diagnosis in two stroke IC engine gearbox. AIP Conference Proceedings, 2020, , .  | 0.3 | 3         |
| 10 | Vibration control of beam with magnetic rotating unbalance. AIP Conference Proceedings, 2020, , .  | 0.3 | 0         |
| 11 | The effect of inclination angle of shock absorber on ride comfort and road holding of two-wheeled vehicle. AIP Conference Proceedings, 2020, , .   | 0.3 | 1         |
| 12 | Modelling of frictional damper with equivalent viscous damper. AIP Conference Proceedings, 2020, , .   | 0.3 | 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.                                       | 0.8 | 7         |
| 14 | Remotely operated marine rescue vehicle. AIP Conference Proceedings, 2020, , .   | 0.3 | 1         |
| 15 | 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         |
| 16 | Preparation and dynamic characterization of polymer based magnetorheological elastomer for vibration isolator. AIP Conference Proceedings, 2019, , .   | 0.3 | 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.      | 1.8 | 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.                                  | 1.8 | 7         |

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|----|--|-----|-----------|
| 19 | Multi objective optimization of quarter car parameters for better ride comfort and road holding. AIP Conference Proceedings, 2019, , .   | 0.3 | 2         |
| 20 | Design of magneto-rheological brake for optimum dimension. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.   | 0.8 | 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, . | 1.0 | 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.   | 2.5 | 50        |
| 23 | Experimental investigation of torsional vibration isolation using Magneto Rheological Elastomer. MATEC Web of Conferences, 2018, 144, 01007.   | 0.1 | 2         |
| 24 | 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        |
| 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.  | 1.7 | 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.  | 0.7 | 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.  | 0.3 | 0         |
| 29 | Sensor Fusion for Operational Mode Shape Analysis of Multi DoF Systems. Materials Today: Proceedings, 2018, 5, 24871-24879.  | 0.9 | 0         |
| 30 | Parametric Modeling and Real Time Remote Experimentation of a Reconfigurable Coupled Pendulum. Materials Today: Proceedings, 2018, 5, 24157-24166.   | 0.9 | 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.  | 0.8 | 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.  | 0.8 | 2         |
| 33 | Parametric studies on bending stiffness and damping ratio of Sandwich structures. Additive Manufacturing, 2018, 22, 583-591.   | 1.7 | 16        |
| 34 | Experimental investigation of torsional vibration isolation using Magneto Rheological Elastomer. MATEC Web of Conferences, 2018, 144, 01007.   | 0.1 | 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.   | 0.8 | 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.   | 2.0 | 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.            | 0.7 | 20        |
| 38 | Aileron endurance test rig design based on high fidelity mathematical modeling. CEAS Aeronautical Journal, 2017, 8, 653-671.  | 0.9 | 2         |
| 39 | Engine gearbox fault diagnosis using empirical mode decomposition method and Naïve Bayes algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1143-1153.   | 0.8 | 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.                 | 1.4 | 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.   | 0.3 | 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.                              | 0.8 | 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.                          | 2.1 | 68        |
| 45 | Influence of nature of core on vibro acoustic behavior of sandwich aerospace structures. Aerospace Science and Technology, 2016, 56, 155-167.   | 2.5 | 52        |
| 46 | An adoption model describing clinicianâ€™s acceptance of automated diagnostic system for tuberculosis. Health and Technology, 2016, 6, 247-257.   | 2.1 | 11        |
| 47 | 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        |
| 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.     | 0.1 | 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.  | 2.1 | 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. | 1.2 | 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.                                      | 2.1 | 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.  | 1.5 | 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.  | 0.5 | 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.  | 0.3 | 4         |
| 61 | Fabrication and Investigation of Damping Properties of Nano Particulate Composites. Journal of Minerals and Materials Characterization and Engineering, 2010, 09, 819-830.  | 0.1 | 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. | 0.3 | 0         |
| 63 | Dynamic response of railroad vehicles: a frequency domain approach. International Journal of Heavy Vehicle Systems, 2008, 15, 65.   | 0.1 | 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.  | 0.1 | 4         |
| 65 | 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        |
| 66 | Preparation of high-T <sub>c</sub> 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 La <sub>2</sub> CuO <sub>4</sub> at 35 K: Microwave investigations. Pramana - Journal of Physics, 1996, 46, 277-281.  | 0.9 | 0         |
| 68 | Positive role of potassium in neutralising the non-stoichiometry effects in Tl-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.   | 0.8 | 15        |
| 70 | 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         |
| 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.   | 0.6 | 24        |
| 72 | On the preparation and structure of the 81 K single phase superconductor in the Bi <sup>1-</sup> ,Ca <sup>1-</sup> ,Sr <sup>1-</sup> ,Cu <sup>1-</sup> ,O system. Physica C: Superconductivity and Its Applications, 1988, 156, 230-234.              | 0.6 | 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.   | 0.6 | 8         |
| 74 | High temperature superconductivity in bismuth-alkaline earth-copper-oxygen system. Pramana - Journal of Physics, 1988, 30, L469-L471.  | 0.9 | 2         |
| 75 | On the synthesis of high-temperature superconducting compounds in the Bi <sup>1-</sup> , Sr <sup>1-</sup> , Ca <sup>1-</sup> , Cu <sup>1-</sup> , O system. Materials Letters, 1988, 6, 274-276. | 1.3 | 4         |
| 76 | Synthesis and properties of a 125 K superconductor in the Tl <sup>1-</sup> Ca <sup>1-</sup> Ba <sup>1-</sup> Cu <sup>1-</sup> O system. Applied Physics Letters, 1988, 53, 414-416.              | 1.5 | 21        |
| 77 | Superconductivity and localization in (La,Y) <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . Solid State Communications, 1987, 63, 905-906.  | 0.9 | 3         |
| 78 | Analysis of MR Damper Based on Finite Element Approach. Applied Mechanics and Materials, 0, 592-594, 2006-2010.  | 0.2 | 6         |