

Sachin Singh Gautam

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

201
citations

1163117

8
h-index

1125743

13
g-index

29
all docs

29
docs citations

29
times ranked

105
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Bayesian regularization-backpropagation neural network model for peeling computations. Journal of Adhesion, 2023, 99, 92-115. | 3.0 | 25 |
| 2 | IGA: A Simplified Introduction and Implementation Details for Finite Element Users. Journal of the Institution of Engineers (India): Series C, 2019, 100, 561-585. | 1.2 | 24 |
| 3 | GPU-based matrix-free finite element solver exploiting symmetry of elemental matrices. Computing (Vienna/New York), 2020, 102, 1941-1965. | 4.8 | 18 |
| 4 | A COMPOSITE TIME INTEGRATION SCHEME FOR DYNAMIC ADHESION AND ITS APPLICATION TO GECKO SPATULA PEELING. International Journal of Computational Methods, 2014, 11, 1350104. | 1.3 | 14 |
| 5 | An energy&momentum&conserving temporal discretization scheme for adhesive contact problems. International Journal for Numerical Methods in Engineering, 2013, 93, 1057-1081. | 2.8 | 13 |
| 6 | GPU-warp based finite element matrices generation and assembly using coloring method. Journal of Computational Design and Engineering, 2019, 6, 705-718. | 3.1 | 13 |
| 7 | Varying-order NURBS discretization: An accurate and efficient method for isogeometric analysis of large deformation contact problems. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113125. | 6.6 | 13 |
| 8 | DUCTILE FAILURE SIMULATION IN SPHERODIZED STEEL USING A CONTINUUM DAMAGE MECHANICS COUPLED FINITE ELEMENT FORMULATION. International Journal of Computational Methods, 2010, 07, 319-348. | 1.3 | 9 |
| 9 | Ductile Fracture Simulation in the Taylor Rod Impact Test Using Continuum Damage Mechanics. International Journal of Damage Mechanics, 2011, 20, 347-369. | 4.2 | 9 |
| 10 | Numerical Simulation of Ductile Fracture in Cylindrical Tube Impacted Against a Rigid Surface. International Journal of Damage Mechanics, 2012, 21, 341-371. | 4.2 | 9 |
| 11 | Investigating the normal and tangential peeling behaviour of gecko spatulae using a coupled adhesion-friction model. Journal of Adhesion, 2021, 97, 952-983. | 3.0 | 9 |
| 12 | Hellinger&Reissner principle based stress&displacement formulation for three-dimensional isogeometric analysis in linear elasticity. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114920. | 6.6 | 9 |
| 13 | On the presence of a critical detachment angle in gecko spatula peeling - a numerical investigation using an adhesive friction model. Journal of Adhesion, 2021, 97, 1234-1254. | 3.0 | 7 |
| 14 | A Two-Field Formulation in Isogeometric Analysis to Alleviate Locking. Lecture Notes in Mechanical Engineering, 2021, , 191-199. | 0.4 | 5 |
| 15 | Numerical simulation of fracture in cup drawing. International Journal of Material Forming, 2010, 3, 117-120. | 2.0 | 4 |
| 16 | Higher order Hermite enriched contact finite elements for adhesive contact problems. International Journal of Materials and Structural Integrity, 2019, 13, 16. | 0.1 | 4 |
| 17 | NURBS-based isogeometric analysis for stable and accurate peeling computations. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1. | 1.3 | 4 |
| 18 | Ductile fracture in tube impact problem using a Lode angle dependent failure criterion. Procedia Structural Integrity, 2019, 14, 537-543. | 0.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Investigation of Contact Pressure Oscillations with Different Segment-to-Segment Based Isogeometric Contact Formulations. Lecture Notes in Mechanical Engineering, 2019, , 90-103. | 0.4 | 2 |
| 20 | Investigating the Influence of Higher-Order NURBS Discretization on Contact Force Oscillation for Large Deformation Contact Using Isogeometric Analysis. Lecture Notes in Mechanical Engineering, 2020, , 343-350. | 0.4 | 2 |
| 21 | Comparison of the bending fatigue performances of selective laser sintered and injection moulded nylon spur gears. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072110473. | 1.1 | 2 |
| 22 | Effect of layer orientation on the single tooth bending fatigue strength of polymer gears manufactured by selective laser sintering. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1557-1573. | 1.1 | 2 |
| 23 | A locking-free formulation for three-dimensional isogeometric analysis. Materials Today: Proceedings, 2022, 66, 1710-1715. | 1.8 | 1 |
| 24 | A non-linear ductile damage growth law at elevated temperature. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1. | 1.3 | 0 |
| 25 | An Isogeometric-Based Study of Mortar Contact Algorithm for Frictionless Sliding. Lecture Notes in Mechanical Engineering, 2019, , 655-662. | 0.4 | 0 |
| 26 | Higher order Hermite enriched contact finite elements for adhesive contact problems. International Journal of Materials and Structural Integrity, 2019, 13, 16. | 0.1 | 0 |
| 27 | Investigating the Influence of Geometrical and Material Parameters on Peeling Behaviour of a Gecko Spatula. Lecture Notes in Mechanical Engineering, 2020, , 373-379. | 0.4 | 0 |
| 28 | Evaluating the performance of enriched finite elements for Hertzian contact problem. Materials Today: Proceedings, 2022, , . | 1.8 | 0 |