

# 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	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
3	Hellinger's 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
4	A locking-free formulation for three-dimensional isogeometric analysis. Materials Today: Proceedings, 2022, 66, 1710-1715.	1.8	1
5	Evaluating the performance of enriched finite elements for Hertzian contact problem. Materials Today: Proceedings, 2022, , .	1.8	0
6	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
7	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
8	A Two-Field Formulation in Isogeometric Analysis to Alleviate Locking. Lecture Notes in Mechanical Engineering, 2021, , 191-199.	0.4	5
9	NURBS-based isogeometric analysis for stable and accurate peeling computations. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	1.3	4
10	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
11	GPU-based matrix-free finite element solver exploiting symmetry of elemental matrices. Computing (Vienna/New York), 2020, 102, 1941-1965.	4.8	18
12	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
13	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
14	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
15	Higher order Hermite enriched contact finite elements for adhesive contact problems. International Journal of Materials and Structural Integrity, 2019, 13, 16.	0.1	4
16	Ductile fracture in tube impact problem using a Lode angle dependent failure criterion. Procedia Structural Integrity, 2019, 14, 537-543.	0.8	2
17	A non-linear ductile damage growth law at elevated temperature. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	0
18	An Isogeometric-Based Study of Mortar Contact Algorithm for Frictionless Sliding. Lecture Notes in Mechanical Engineering, 2019, , 655-662.	0.4	0

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Higher order Hermite enriched contact finite elements for adhesive contact problems. International Journal of Materials and Structural Integrity, 2019, 13, 16.	0.1	0
22	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
23	An energy&#x2013;momentum&#x2013;conserving temporal discretization scheme for adhesive contact problems. International Journal for Numerical Methods in Engineering, 2013, 93, 1057-1081.	2.8	13
24	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
25	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
26	Numerical simulation of fracture in cup drawing. International Journal of Material Forming, 2010, 3, 117-120.	2.0	4
27	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
28	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