

# Gautam Dasgupta

## List of Publications by Year in descending order

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19  
papers

811  
citations

1039406

9  
h-index

887659

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

527  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neumann Expansion for Stochastic Finite Element Analysis. Journal of Engineering Mechanics - ASCE, 1988, 114, 1335-1354.	1.6	432
2	Integration within Polygonal Finite Elements. Journal of Aerospace Engineering, 2003, 16, 9-18.	0.8	82
3	Interpolants within Convex Polygons: Wachspress's™ Shape Functions. Journal of Aerospace Engineering, 2003, 16, 1-8.	0.8	81
4	Pushover analysis of underground structures: Method and application. Science China Technological Sciences, 2014, 57, 423-437.	2.0	50
5	Interpolations for temperature distributions: a method for all non-concave polygons. International Journal of Solids and Structures, 2004, 41, 2165-2188.	1.3	33
6	Smooth Two-Dimensional Interpolations: A Recipe for All Polygons. Journal of Graphics Tools, 2005, 10, 27-39.	0.5	33
7	Shape functions for polygonal domains with interior nodes. International Journal for Numerical Methods in Engineering, 2004, 61, 1153-1172.	1.5	30
8	Basis functions for concave polygons. Computers and Mathematics With Applications, 2008, 56, 459-468.	1.4	18
9	Surface Characterization and Frictional Energy Dissipation Characteristics of Deep Granite Under High Stress Conditions. Rock Mechanics and Rock Engineering, 2019, 52, 1577-1589.	2.6	11
10	Locking-free compressible quadrilateral finite elements: Poisson's ratio-dependent vector interpolants. Acta Mechanica, 2014, 225, 309-330.	1.1	9
11	Incompressible and locking-free finite elements from Rayleigh mode vectors: quadratic polynomial displacement fields. Acta Mechanica, 2012, 223, 1645-1656.	1.1	8
12	Stochastic shape functions and stochastic strain's displacement matrix for a stochastic finite element stiffness matrix. Acta Mechanica, 2008, 195, 379-395.	1.1	7
13	Closed-Form Isoparametric Shape Functions of Four-Node Convex Finite Elements. Journal of Aerospace Engineering, 2008, 21, 10-18.	0.8	5
14	Stiffness Matrices of Isoparametric Four-Node Finite Elements by Exact Analytical Integration. Journal of Aerospace Engineering, 2008, 21, 45-50.	0.8	5
15	Evaluation of added mass by a cloning algorithm. International Journal for Numerical Methods in Engineering, 1985, 21, 1157-1164.	1.5	1
16	Green's function for random media. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2000, 23, 377-384.	0.6	1
17	Analytical Integration within Polyhedra. Journal of Aerospace Engineering, 2015, 28, 04014141.	0.8	1
18	Analysis of Localized Dynamic Contact on Structures Using Matched Asymptotic Expansions. Journal of Structural Mechanics, 1978, 6, 29-44.	0.7	0

#	ARTICLE	IF	CITATIONS
19	Taigâ€™s Quadrilateral Elements. , 2018, , 103-120.		0