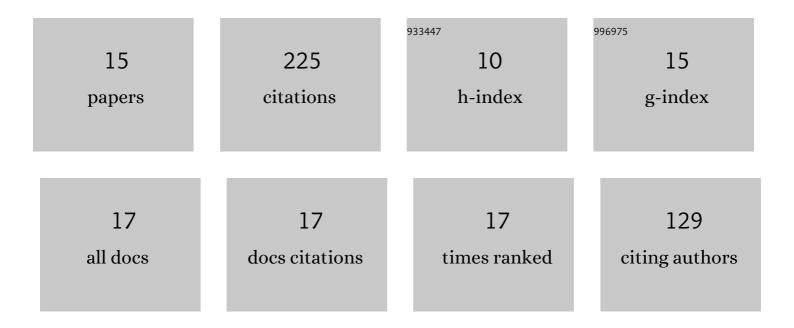
## Prabhat Kumar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Studies on transport phenomena during directional solidification of a noneutectic binary solution cooled from the top. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 899-909.	2.1	26
2	Topology optimization of fluidic pressure-loaded structures and compliant mechanisms using the Darcy method. Structural and Multidisciplinary Optimization, 2020, 61, 1637-1655.	3.5	25
3	Rayleigh-benard convection during solidification of an eutectic solution cooled from the top. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 605-612.	2.1	23
4	Synthesis of C0 Path-Generating Contact-Aided Compliant Mechanisms Using the Material Mask Overlay Method. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	23
5	Computational Synthesis of Large Deformation Compliant Mechanisms Undergoing Self and Mutual Contact. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	22
6	Topology optimization and 3D printing of large deformation compliant mechanisms for straining biological tissues. Structural and Multidisciplinary Optimization, 2021, 63, 1351-1366.	3.5	19
7	On topology optimization of large deformation contact-aided shape morphing compliant mechanisms. Mechanism and Machine Theory, 2021, 156, 104135.	4.5	16
8	On topology optimization of designâ€dependent pressureâ€loaded threeâ€dimensional structures and compliant mechanisms. International Journal for Numerical Methods in Engineering, 2021, 122, 2205-2220.	2.8	16
9	On topology optimization with embedded boundary resolution and smoothing. Structural and Multidisciplinary Optimization, 2015, 52, 1135-1159.	3.5	13
10	Topology optimization of stiff structures under self-weight for given volume using a smooth Heaviside function. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	12
11	Compliant Fluidic Control Structures: Concept and synthesis approach. Computers and Structures, 2019, 216, 26-39.	4.4	8
12	HoneyTop90: A 90-line MATLAB code for topology optimization using honeycomb tessellation. Optimization and Engineering, 2023, 24, 1433-1460.	2.4	8
13	On topology optimization with elliptical masks and honeycomb tessellation with explicit length scale constraints. Structural and Multidisciplinary Optimization, 2020, 62, 1227-1251.	3.5	5
14	Topological synthesis of fluidic pressure-actuated robust compliant mechanisms. Mechanism and Machine Theory, 2022, 174, 104871.	4.5	5
15	On Synthesis of Contact Aided Compliant Mechanisms Using the Material Mask Overlay Method. , 2015, , .		2