

# Mattia Bacca

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

406  
citations

1163117

8  
h-index

888059

17  
g-index

18  
all docs

18  
docs citations

18  
times ranked

448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of boundary conditions in determining cell alignment in response to stretch. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 986-991.	7.1	91
2	A study of energy dissipating mechanisms in orthogonal cutting of UD-CFRP composites. Composite Structures, 2019, 220, 460-472.	5.8	73
3	Continuous dynamic recrystallization during severe plastic deformation. Mechanics of Materials, 2015, 90, 148-156.	3.2	58
4	Load sharing in bioinspired fibrillar adhesives with backing layer interactions and interfacial misalignment. Journal of the Mechanics and Physics of Solids, 2016, 96, 428-444.	4.8	43
5	A Model for the Mullins Effect in Multinetwork Elastomers. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	33
6	Engineered nasal dry powder for the encapsulation of bioactive compounds. Drug Discovery Today, 2022, 27, 2300-2308.	6.4	24
7	Benefit of Backing Layer Compliance in Fibrillar Adhesive Patches Resistance to Peel Propagation in the Presence of Interfacial Misalignment. Advanced Materials Interfaces, 2018, 5, 1800272.	3.7	22
8	Contraction of polymer gels created by the activity of molecular motors. Soft Matter, 2019, 15, 4467-4475.	2.7	10
9	Piercing soft solids: A mechanical theory for needle insertion. Journal of the Mechanics and Physics of Solids, 2021, 154, 104497.	4.8	10
10	Theoretical Limits in Detachment Strength for Axisymmetric Bi-Material Adhesives. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	8
11	Optimal Load Sharing in Bioinspired Fibrillar Adhesives: Asymptotic Solution. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	8
12	Latent heat saturation in microstructural evolution by severe plastic deformation. International Journal of Plasticity, 2016, 83, 74-89.	8.8	6
13	Quasi-Linear Viscoelastic Characterization of Soft Tissue-Mimicking Materials. Journal of Biomechanical Engineering, 2021, 143, .	1.3	6
14	A swell toughening strategy for elastomers having surface cracks. Extreme Mechanics Letters, 2017, 10, 32-40.	4.1	4
15	The role of interfacial curvature in controlling the detachment strength of bioinspired fibrillar adhesives. Mechanics of Materials, 2021, 160, 103914.	3.2	3
16	Space applications for gecko-inspired adhesives. , 2022, , 423-458.		3
17	The morphological role of ligand inhibitors in blocking receptor- and clathrin-mediated endocytosis. Soft Matter, 2022, 18, 3531-3545.	2.7	2
18	A self-adhesion criterion for slanted micropillars. Extreme Mechanics Letters, 2022, 52, 101663.	4.1	2