

# Mattia Bacca

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6443556/publications.pdf>

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