

# Julie Diani

## List of Publications by Year in descending order

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19  
papers

1,333  
citations

759233

12  
h-index

794594

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1463  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the Mullins effect. <i>European Polymer Journal</i> , 2009, 45, 601-612.	5.4	884
2	Predicting thermal shape memory of crosslinked polymer networks from linear viscoelasticity. <i>International Journal of Solids and Structures</i> , 2012, 49, 793-799.	2.7	181
3	Physical interpretation of the Mullins softening in a carbon-black filled SBR. <i>Polymer</i> , 2014, 55, 4942-4947.	3.8	54
4	A Mullins softening criterion for general loading conditions. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1257-1264.	4.8	33
5	On the account of a cohesive interface for modeling the behavior until break of highly filled elastomers. <i>Mechanics of Materials</i> , 2016, 93, 124-133.	3.2	27
6	Use of a micromechanical approach to understand the mechanical behavior of solid propellants. <i>Mechanics of Materials</i> , 2021, 153, 103656.	3.2	22
7	Representative volume elements for the simulation of isotropic composites highly filled with monosized spheres. <i>International Journal of Solids and Structures</i> , 2019, 158, 277-286.	2.7	20
8	Stress-strain response and volume change of a highly filled rubbery composite: Experimental measurements and numerical simulations. <i>Mechanics of Materials</i> , 2017, 111, 57-65.	3.2	16
9	Experimental characterization and modelling of the cyclic softening of carbon-black filled rubbers. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8651-8659.	5.6	15
10	Relationship between local damage and macroscopic response of soft materials highly reinforced by monodispersed particles. <i>Mechanics of Materials</i> , 2020, 146, 103408.	3.2	15
11	On necessary precautions when measuring solid polymer linear viscoelasticity with dynamic analysis in torsion. <i>Polymer Testing</i> , 2017, 63, 275-280.	4.8	14
12	Critical strain energy release rate for rubbers: single edge notch tension versus pure shear tests. <i>International Journal of Fracture</i> , 2019, 216, 31-39.	2.2	14
13	Comparison of the finite strain macroscopic behavior and local damage of a soft matrix highly reinforced by spherical or polyhedral particles. <i>European Journal of Mechanics, A/Solids</i> , 2020, 84, 104070.	3.7	9
14	Effect of the Mullins softening on mode I fracture of carbon-black filled rubbers. <i>International Journal of Fracture</i> , 2015, 194, 11-18.	2.2	8
15	Roles of the Interphase Stiffness and Percolation on the Behavior of Solid Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 978-986.	1.6	7
16	Experimental investigation of elastomer mode I fracture: an attempt to estimate the critical strain energy release rate using SENT tests. <i>International Journal of Fracture</i> , 2018, 209, 163-170.	2.2	6
17	Experimental identification of fracture toughness of a carbon black-filled styrene butadiene rubber undergoing energy dissipation by Mullins softening. <i>Mechanics of Materials</i> , 2020, 151, 103645.	3.2	4
18	Linear viscoelasticity of an acrylate IPN, analysis and micromechanical modeling. <i>Soft Matter</i> , 2021, 17, 7341-7349.	2.7	3

#	ARTICLE	IF	CITATIONS
19	Variational upscaling for modeling state of strain-dependent behavior and stress-induced crystallization in rubber-like materials. <i>Continuum Mechanics and Thermodynamics</i> , 2021, 33, 749-766.	2.2	1