

# Matteo Ciccotti

## List of Publications by Year in descending order

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57  
papers

2,241  
citations

236925

25  
h-index

214800

47  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2151  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture and adhesion of soft materials: a review. Reports on Progress in Physics, 2016, 79, 046601.	20.1	539
2	Design principles for superamphiphobic surfaces. Soft Matter, 2013, 9, 418-428.	2.7	196
3	Stress-corrosion mechanisms in silicate glasses. Journal Physics D: Applied Physics, 2009, 42, 214006.	2.8	159
4	Differences between static and dynamic elastic moduli of a typical seismogenic rock. Geophysical Journal International, 2004, 157, 474-477.	2.4	109
5	Rate-dependent elastic hysteresis during the peeling of pressure sensitive adhesives. Soft Matter, 2015, 11, 3480-3491.	2.7	73
6	Measuring nanoscale stress intensity factors with an atomic force microscope. Europhysics Letters, 2010, 89, 66003.	2.0	50
7	On the kinetics of peeling of an adhesive tape under a constant imposed load. International Journal of Adhesion and Adhesives, 1997, 17, 65-68.	2.9	46
8	Complex dynamics in the peeling of an adhesive tape. International Journal of Adhesion and Adhesives, 2004, 24, 143-151.	2.9	43
9	Stress-enhanced ion diffusion at the vicinity of a crack tip as evidenced by atomic force microscopy in silicate glasses. Journal of Non-Crystalline Solids, 2007, 353, 51-68.	3.1	43
10	The double torsion loading configuration for fracture propagation: an improved methodology for the load-relaxation at constant displacement. International Journal of Rock Mechanics and Minings Sciences, 2000, 37, 1103-1113.	5.8	42
11	Effects of Finite Probe Size on Self-Affine Roughness Measurements. Physical Review Letters, 2010, 104, 025502.	7.8	41
12	Griffith Cracks at the Nanoscale. International Journal of Applied Glass Science, 2013, 4, 76-86.	2.0	38
13	Measuring the fractal dimensions of ideal and actual objects: implications for application in geology and geophysics. Geophysical Journal International, 2000, 142, 108-116.	2.4	36
14	Capillary Force between Wetted Nanometric Contacts and Its Application to Atomic Force Microscopy. Langmuir, 2011, 27, 3468-3473.	3.5	36
15	Propagation of a brittle fracture in a viscoelastic fluid. Soft Matter, 2011, 7, 9474.	2.7	36
16	Nonlinear Viscoelastic Modeling of Adhesive Failure for Polyacrylate Pressure-Sensitive Adhesives. Macromolecules, 2018, 51, 8605-8610.	4.8	36
17	Crack opening profile in DCDC specimen. International Journal of Fracture, 2009, 156, 11-20.	2.2	34
18	Ultra-long range correlations of the dynamics of jammed soft matter. Soft Matter, 2010, 6, 5514.	2.7	34

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19	Real-Time Observation of a Non-Equilibrium Liquid Condensate Confined at Tensile Crack Tips in Oxide Glasses. <i>Journal of the American Ceramic Society</i> , 2006, 89, 746-749.	3.8	33
20	Dynamic condensation of water at crack tips in fused silica glass. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 564-568.	3.1	32
21	In-situ measurement of the large strain response of the fibrillar debonding region during the steady peeling of pressure sensitive adhesives. <i>International Journal of Fracture</i> , 2017, 204, 175-190.	2.2	32
22	Realistic Finite Element Model for the Double Torsion Loading Configuration. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2737-2744.	3.8	30
23	The Crack Tip: A Nanolab for Studying Confined Liquids. <i>Physical Review Letters</i> , 2008, 100, 165505.	7.8	29
24	Practical application of an improved methodology for the double torsion load relaxation method. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 569-576.	5.8	28
25	Stick-slip in the peeling of an adhesive tape: evolution of theoretical model. <i>International Journal of Adhesion and Adhesives</i> , 1998, 18, 35-40.	2.9	26
26	Linking peel and tack performances of pressure sensitive adhesives. <i>Soft Matter</i> , 2020, 16, 3267-3275.	2.7	26
27	Why is mechanical fatigue different from toughness in elastomers? The role of damage by polymer chain scission. <i>Science Advances</i> , 2021, 7, eabg9410.	10.3	26
28	Elastic and fracture parameters of Etna, Stromboli, and Vulcano lava rocks. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 98, 209-217.	2.1	23
29	Cyclic fatigue failure of TPU using a crack propagation approach. <i>Polymer Testing</i> , 2021, 97, 107140.	4.8	23
30	Static and Dynamic Moduli of the Seismogenic Layer in Italy. <i>Rock Mechanics and Rock Engineering</i> , 2004, 37, 229.	5.4	21
31	Large strain viscoelastic dissipation during interfacial rupture in laminated glass. <i>Soft Matter</i> , 2017, 13, 1624-1633.	2.7	21
32	Mechanics of an adhesive tape in a zero degree peel test: effect of large deformation and material nonlinearity. <i>Soft Matter</i> , 2018, 14, 9681-9692.	2.7	21
33	Imaging the stick-slip peeling of an adhesive tape under a constant load. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P03005-P03005.	2.3	20
34	Quantitative Analysis of Crack Closure Driven by Laplace Pressure in Silica Glass. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2613-2618.	3.8	20
35	Intermittent stick-slip dynamics during the peeling of an adhesive tape from a roller. <i>Physical Review E</i> , 2013, 87, 022601.	2.1	20
36	Supramolecular Structure for Large Strain Dissipation and Outstanding Impact Resistance in Polyvinylbutyral. <i>Macromolecules</i> , 2019, 52, 7821-7830.	4.8	18

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37	Pernicious effect of physical cutoffs in fractal analysis. <i>Physical Review E</i> , 2002, 65, 037201.	2.1	17
38	Multiscale Stick-Slip Dynamics of Adhesive Tape Peeling. <i>Physical Review Letters</i> , 2015, 115, 128301.	7.8	17
39	Crack propagation at the interface between soft adhesives and model surfaces studied with a sticky wedge test. <i>Soft Matter</i> , 2013, 9, 6515.	2.7	16
40	Mechanics of zero degree peel test on a tape – effects of large deformation, material nonlinearity, and finite bond length. <i>Extreme Mechanics Letters</i> , 2019, 32, 100518.	4.1	16
41	Strain induced strengthening of soft thermoplastic polyurethanes under cyclic deformation. <i>Journal of Polymer Science</i> , 2021, 59, 685-696.	3.8	15
42	Self-Organization at the Crack Tip of Fatigue-Resistant Thermoplastic Polyurethane Elastomers. <i>Macromolecules</i> , 2021, 54, 8726-8737.	4.8	15
43	Earthquakes as three stage processes. <i>Geophysical Journal International</i> , 2004, 158, 98-108.	2.4	14
44	In situ AFM investigation of slow crack propagation mechanisms in a glassy polymer. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 112, 109-125.	4.8	14
45	Hidden order in crackling noise during peeling of an adhesive tape. <i>Physical Review E</i> , 2008, 77, 045202.	2.1	12
46	Picometer-scale surface roughness measurements inside hollow glass fibres. <i>Optics Express</i> , 2014, 22, 29554.	3.4	11
47	Anisotropic Superattenuation of Capillary Waves on Driven Glass Interfaces. <i>Physical Review Letters</i> , 2017, 119, 235501.	7.8	10
48	Adhesion rupture in laminated glass: influence of adhesion on the energy dissipation mechanisms. <i>Glass Structures and Engineering</i> , 2020, 5, 397-410.	1.7	10
49	Inertial and stick-slip regimes of unstable adhesive tape peeling. <i>Soft Matter</i> , 2016, 12, 4537-4548.	2.7	9
50	Multiscale investigation of stress-corrosion crack propagation mechanisms in oxide glasses. <i>Corrosion Reviews</i> , 2015, 33, 501-514.	2.0	7
51	Electrical noise properties in aging materials. , 2004, , .		6
52	Roughness of oxide glass subcritical fracture surfaces. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1279-1288.	3.8	6
53	Bridging steady-state and stick-slip fracture propagation in glassy polymers. <i>Soft Matter</i> , 2022, 18, 793-806.	2.7	2
54	In Situ AFM Investigations and Fracture Mechanics Modeling of Slow Fracture Propagation in Oxide and Polymer Glasses. , 2018, , 1-37.		1

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55	In Situ AFM Investigations and Fracture Mechanics Modeling of Slow Fracture Propagation in Oxide and Polymer Glasses. , 2020, , 199-236.		1
56	Roughness measurements inside hollow glass fibers. , 2016, , .		0
57	Thermal Noise Properties of Two Aging Materials. , 2006, , 23-52.		0