## Loic Vanel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1982303/publications.pdf Version: 2024-02-01



| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Immersed cantilever apparatus for mechanics and microscopy. Measurement Science and Technology, 2021, 32, 125603.   | 2.6 | 1         |
| 2  | Dilation as a precursor in a continuous granular fault. EPJ Web of Conferences, 2021, 249, 15006.   | 0.3 | 1         |
| 3  | How heat controls fracture: the thermodynamics of creeping and avalanching cracks. Soft Matter, 2020, 16, 9590-9602.  | 2.7 | 14        |
| 4  | Continuously Sheared Granular Matter Reproduces in Detail Seismicity Laws. Physical Review Letters,<br>2019, 122, 218501.   | 7.8 | 44        |
| 5  | Brittle-to-quasibrittle transition in creep rupture of 2D disordered elastic materials. Journal of<br>Statistical Mechanics: Theory and Experiment, 2019, 2019, 053301. | 2.3 | 1         |
| 6  | Bending to Kinetic Energy Transfer in Adhesive Peel Front Microinstability. Physical Review Letters,<br>2019, 122, 068005.  | 7.8 | 11        |
| 7  | A new test method to simulate low-severity wear conditions experienced by rubber tire materials.<br>Wear, 2018, 410-411, 72-82.   | 3.1 | 14        |
| 8  | Interacting Cracks Obey a Multiscale Attractive to Repulsive Transition. Physical Review Letters, 2018, 120, 255501.  | 7.8 | 22        |
| 9  | The sound of avalanches: from a global to a local perspective EPJ Web of Conferences, 2017, 140, 03015.   | 0.3 | 1         |
| 10 | Inertial and stick-slip regimes of unstable adhesive tape peeling. Soft Matter, 2016, 12, 4537-4548.  | 2.7 | 9         |
| 11 | Dielectric Spectroscopy of a Stretched Polymer Glass: Heterogeneous Dynamics and Plasticity.<br>Macromolecules, 2016, 49, 3889-3898.                                    | 4.8 | 20        |
| 12 | A multi-channel setup to study fractures in scintillators. Measurement Science and Technology, 2016, 27, 125601.  | 2.6 | 0         |
| 13 | From Dark Matter to Brittle Fracture. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 183-186.  | 0.5 | 0         |
| 14 | Multiscale Stick-Slip Dynamics of Adhesive Tape Peeling. Physical Review Letters, 2015, 115, 128301.  | 7.8 | 17        |
| 15 | Rate-dependent elastic hysteresis during the peeling of pressure sensitive adhesives. Soft Matter, 2015,<br>11, 3480-3491.  | 2.7 | 73        |
| 16 | Repulsion and Attraction between a Pair of Cracks in a Plastic Sheet. Physical Review Letters, 2015, 114, 205501.   | 7.8 | 15        |
| 17 | Peeling-angle dependence of the stick-slip instability during adhesive tape peeling. Soft Matter, 2014, 10, 9637-9643.  | 2.7 | 17        |
| 18 | High Frequency Monitoring Reveals Aftershocks in Subcritical Crack Growth. Physical Review Letters, 2014, 112, 115502.  | 7.8 | 43        |

LOIC VANEL

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Strong dynamical effects during stick-slip adhesive peeling. Soft Matter, 2014, 10, 132-138.   | 2.7 | 22        |
| 20 | Revealing the Structure of a Granular Medium through Ballistic Sound Propagation. Physical Review<br>Letters, 2014, 113, 098001.   | 7.8 | 23        |
| 21 | Physical Mechanisms of Fatigue in Neat Polyamide 6,6. Macromolecules, 2014, 47, 3880-3894.   | 4.8 | 23        |
| 22 | Sound and Light from Fractures in Scintillators. Physical Review Letters, 2013, 111, 154301.   | 7.8 | 22        |
| 23 | Long-time damage under creep experiments in disordered materials: Transition from exponential to<br>logarithmic fracture dynamics. European Physical Journal E, 2013, 36, 9847.  | 1.6 | 3         |
| 24 | A new rotary tribometer to study the wear of reinforced rubber materials. Wear, 2013, 306, 149-160.  | 3.1 | 21        |
| 25 | Intermittent stick-slip dynamics during the peeling of an adhesive tape from a roller. Physical Review E, 2013, 87, 022601.  | 2.1 | 20        |
| 26 | Reinforcement in Natural Rubber Elastomer Nanocomposites: Breakdown of Entropic Elasticity.<br>Macromolecules, 2013, 46, 8964-8972.  | 4.8 | 53        |
| 27 | Experimental Study of the Effect of Disorder on Subcritical Crack Growth Dynamics. Physical Review Letters, 2013, 110, 165506.   | 7.8 | 22        |
| 28 | Characterization of heat sources due to deformation in unfilled natural rubber. , 2013, , 549-556.   |     | 0         |
| 29 | Fatigue crack growth dynamics in filled natural rubber. Plastics, Rubber and Composites, 2012, 41, 273-276.  | 2.0 | 12        |
| 30 | Effect of Tear Rotation on Ultimate Strength in Reinforced Natural Rubber. Macromolecules, 2011, 44,<br>7006-7015.   | 4.8 | 21        |
| 31 | Softening Induced Instability of a Stretched Cohesive Granular Layer. Physical Review Letters, 2010, 105, 208001.  | 7.8 | 12        |
| 32 | Mechanical response and fracture dynamics of polymeric foams. Journal Physics D: Applied Physics, 2009, 42, 214001.  | 2.8 | 20        |
| 33 | Time-dependent rupture and slow crack growth: elastic and viscoplastic dynamics. Journal Physics D:<br>Applied Physics, 2009, 42, 214007.  | 2.8 | 43        |
| 34 | Experimental study of crackling noise: conditions on power law scaling correlated with fracture precursors. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01018.   | 2.3 | 21        |
| 35 | Evaluation of the strain-induced martensitic transformation by acoustic emission monitoring in 304L austenitic stainless steel: Identification of the AE signature of the martensitic transformation and power-law statistics. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing 2008, 492, 392, 399 | 5.6 | 43        |
| 36 | Surface oscillations and slow crack growth controlled by creep dynamics of necking instability in a glassy film. European Physical Journal E, 2008, 27, 185-95.  | 1.6 | 4         |

LOIC VANEL

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | The motion of a freely falling chain tip: Force measurements. American Journal of Physics, 2008, 76, 541-545.  | 0.7 | 10        |
| 38 | Attractive and repulsive cracks in a heterogeneous material. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P10022.  | 2.3 | 14        |
| 39 | Dynamical Law for Slow Crack Growth in Polycarbonate Films. Physical Review Letters, 2007, 99, 205502.   | 7.8 | 9         |
| 40 | Discrepancy between Subcritical and Fast Rupture Roughness: A Cumulant Analysis. Physical Review<br>Letters, 2007, 98, 255502.   | 7.8 | 21        |
| 41 | Statistics of fracture surfaces. Physical Review E, 2007, 75, 016104.  | 2.1 | 87        |
| 42 | Imaging the stick–slip peeling of an adhesive tape under a constant load. Journal of Statistical<br>Mechanics: Theory and Experiment, 2007, 2007, P03005-P03005.   | 2.3 | 20        |
| 43 | Slow crack growth: Models and experiments. European Physical Journal: Special Topics, 2007, 146, 341-356.  | 2.6 | 18        |
| 44 | Super-Arrhenius dynamics for sub-critical crack growth in two-dimensional disordered brittle media.<br>Europhysics Letters, 2006, 74, 602-608.   | 2.0 | 11        |
| 45 | Statistical properties of microcracking in polyurethane foams under tensile test, influence of temperature and density. International Journal of Fracture, 2006, 140, 87-98.                             | 2.2 | 36        |
| 46 | Subcritical crack growth in fibrous materials. Europhysics Letters, 2006, 74, 595-601.   | 2.0 | 22        |
| 47 | The cooperative effect of load and disorder in thermally activated rupture of a two-dimensional random fuse network. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P06020-P06020. | 2.3 | 20        |
| 48 | Fracture Surfaces as Multiscaling Graphs. Physical Review Letters, 2006, 96, 055509.   | 7.8 | 48        |
| 49 | Slow crack growth in polycarbonate films. Europhysics Letters, 2005, 71, 242-248.  | 2.0 | 11        |
| 50 | Subcritical Statistics in Rupture of Fibrous Materials: Experiments and Model. Physical Review Letters, 2004, 93, 095505.  | 7.8 | 75        |
| 51 | Thermal activation of rupture and slow crack growth in a model of homogeneous brittle materials.<br>Europhysics Letters, 2003, 62, 320-326.  | 2.0 | 33        |
| 52 | Footprints in Sand: The Response of a Granular Material to Local Perturbations. Physical Review<br>Letters, 2001, 87, 035506.  | 7.8 | 211       |
| 53 | Diffusing-wave spectroscopy for arbitrary geometries: numerical analysis by a boundary-element method. Applied Optics, 2001, 40, 4179.   | 2.1 | 4         |
| 54 | Science in the Sandbox: Fluctuations, Friction and Instabilities. Lecture Notes in Physics, 2001, , 351-391.   | 0.7 | 3         |

LOIC VANEL

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Mechanical response of a static granular piling. Materials Research Society Symposia Proceedings, 2000, 627, 1.                                    | 0.1 | 0         |
| 56 | Stresses in Silos: Comparison Between Theoretical Models and New Experiments. Physical Review Letters, 2000, 84, 1439-1442.                        | 7.8 | 119       |
| 57 | Pressure screening and fluctuations at the bottom of a granular column. European Physical Journal B, 1999, 11, 525-533.                            | 1.5 | 90        |
| 58 | Memories in sand: Experimental tests of construction history on stress distributions under sandpiles.<br>Physical Review E, 1999, 60, R5040-R5043. | 2.1 | 237       |
| 59 | Static friction and arch formation in granular materials. Physical Review E, 1998, 58, 805-812.  | 2.1 | 20        |
| 60 | Rise-Time Regimes of a Large Sphere in Vibrated Bulk Solids. Physical Review Letters, 1997, 78, 1255-1258.   | 7.8 | 79        |
| 61 | Pattern formation in a vibrated two-dimensional granular layer. Physical Review E, 1996, 53, 2972-2975.  | 2.1 | 117       |
| 62 | Fatigue Behavior in Filled Natural Rubber: Study of the Mechanical Damage Dynamics. Key Engineering<br>Materials, 0, 488-489, 666-669.             | 0.4 | 3         |