# Francesco Greco

List of Publications by Year
in descending order

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|---|---|---|---|
| 66<br>papers | 2,182<br>citations | 218677<br>26<br>h-index | 223800<br>46<br>g-index |
| 67<br>all docs | 67<br>docs citations | 67<br>times ranked | 1221<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A model-system of Fickian yet non-Gaussian diffusion: light patterns in place of complex matter. Soft Matter, 2022, 18, 351-364. | 2.7 | 13 |
| 2 | Comparing Microscopic and Macroscopic Dynamics in a Paradigmatic Model of Glass-Forming Molecular Liquid. International Journal of Molecular Sciences, 2022, 23, 3556. | 4.1 | 4 |
| 3 | Multiscale heterogeneous dynamics in two-dimensional glassy colloids. Journal of Chemical Physics, 2022, 156, 164906. | 3.0 | 2 |
| 4 | Glasses and gels: a crossroad of molecular liquids, polymers and colloids. Journal of Physics Condensed Matter, 2022, 34, 090401. | 1.8 | 0 |
| 5 | Fickian Non-Gaussian Diffusion in Glass-Forming Liquids. Physical Review Letters, 2022, 128, 168001. | 7.8 | 23 |
| 6 | Rheo-Engineered Microfluidics @ UNINA. , 2022, 3, 100024. | | 0 |
| 7 | Rapid Fickian Yet Non-Gaussian Diffusion after Subdiffusion. Physical Review Letters, 2021, 126, 158003. | 7.8 | 37 |
| 8 | Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. International Journal of Molecular Sciences, 2021, 22, 5535. | 4.1 | 10 |
| 9 | On the inverse quenching technique applied to gelatin solutions. Journal of Rheology, 2021, 65, 1081-1088. | 2.6 | 5 |
| 10 | Breakdown of the Stokesâ€“Einstein relation in supercooled liquids: A cage-jump perspective. Journal of Chemical Physics, 2021, 155, 114503. | 3.0 | 5 |
| 11 | Anomalous Aging and Stress Relaxation in Macromolecular Physical Gels: The Case of Strontium Alginate. Macromolecules, 2020, 53, 649-657. | 4.8 | 7 |
| 12 | Concentrated suspensions of Brownian beads in water: dynamic heterogeneities through a simple experimental technique. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1. | 5.1 | 6 |
| 13 | Influence of wall heterogeneity on nanoscopically confined polymers. Physical Chemistry Chemical Physics, 2019, 21, 772-779. | 2.8 | 15 |
| 14 | Fluid Viscoelasticity Drives Self-Assembly of Particle Trains in a Straight Microfluidic Channel. Physical Review Applied, 2018, 10, . | 3.8 | 38 |
| 15 | Is microrheometry affected by channel deformation?. Biomicrofluidics, 2016, 10, 043501. | 2.4 | 15 |
| 16 | Analysis of the aging effects on the viscoelasticity of alginate gels. Soft Matter, 2016, 12, 8726-8735. | 2.7 | 7 |
| 17 | Numerical simulations of the dynamics of a slippery particle in Newtonian and viscoelastic fluids subjected to shear and Poiseuille flows. Journal of Non-Newtonian Fluid Mechanics, 2016, 228, 46-54. | 2.4 | 13 |
| 18 | Rheology of a dilute viscoelastic suspension of spheroids in unconfined shear flow. Rheologica Acta, 2015, 54, 915-928. | 2.4 | 11 |

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|---|---|---|---|
| 19 | Effect of fluid rheology on particle migration in a square-shaped microchannel. Microfluidics and Nanofluidics, 2015, 19, 95-104. | 2.2 | 57 |
| 20 | Analysis of linear viscoelastic behaviour of alginate gels: effects of inner relaxation, water diffusion, and syneresis. Soft Matter, 2015, 11, 6045-6054. | 2.7 | 10 |
| 21 | Microrheology with Optical Tweezers: Measuring the relative viscosity of solutions â€˜at a glanceâ€™. Scientific Reports, 2015, 5, 8831. | 3.3 | 71 |
| 22 | Rheometry-on-a-chip: measuring the relaxation time of a viscoelastic liquid through particle migration in microchannel flows. Lab on A Chip, 2015, 15, 783-792. | 6.0 | 64 |
| 23 | Numerical simulations of the competition between the effects of inertia and viscoelasticity on particle migration in Poiseuille flow. Computers and Fluids, 2015, 107, 214-223. | 2.5 | 26 |
| 24 | Particle alignment in a viscoelastic liquid flowing in a square-shaped microchannel. Lab on A Chip, 2013, 13, 4263. | 6.0 | 98 |
| 25 | Viscoelastic flow-focusing in microchannels: scaling properties of the particle radial distributions. Lab on A Chip, 2013, 13, 2802. | 6.0 | 88 |
| 26 | Stress-relaxation behavior of a physical gel: Evidence of co-occurrence of structural relaxation and water diffusion in ionic alginate gels. European Polymer Journal, 2013, 49, 3929-3936. | 5.4 | 18 |
| 27 | Prediction of the effects of constitutive viscoelasticity on stress-diffusion coupling in gels. Journal of Chemical Physics, 2012, 136, 134904. | 3.0 | 6 |
| 28 | Single line particle focusing induced by viscoelasticity of the suspending liquid: theory, experiments and simulations to design a micropipe flow-focuser. Lab on A Chip, 2012, 12, 1638. | 6.0 | 182 |
| 29 | Rheology of a Dilute Suspension of Spheres in a Viscoelastic Fluid Under Large Amplitude Oscillations. Journal of Computational and Theoretical Nanoscience, 2010, 7, 780-786. | 0.4 | 2 |
| 30 | Structure of entangled polymer network from primitive chain network simulations. Journal of Chemical Physics, 2010, 132, 134902. | 3.0 | 33 |
| 31 | Primitive Chain Network Simulations of Conformational Relaxation for Individual Molecules in the Entangled State. II. Retraction from Stretched States.. Nihon Reoroji Gakkaishi, 2009, 37, 65-68. | 1.0 | 3 |
| 32 | Primitive chain network simulations for entangled DNA solutions. Journal of Chemical Physics, 2009, 131, 114906. | 3.0 | 17 |
| 33 | Rotation of a sphere in a viscoelastic liquid subjected to shear flow. Part II. Experimental results. Journal of Rheology, 2009, 53, 459-480. | 2.6 | 50 |
| 34 | Entangled polymer orientation and stretch under large step shear deformations in primitive chain network simulations. Rheologica Acta, 2008, 47, 591-599. | 2.4 | 19 |
| 35 | Quantitative comparison of primitive chain network simulations with literature data of linear viscoelasticity for polymer melts. Journal of Non-Newtonian Fluid Mechanics, 2008, 149, 87-92. | 2.4 | 58 |
| 36 | Rotation of a sphere in a viscoelastic liquid subjected to shear flow. Part I: Simulation results. Journal of Rheology, 2008, 52, 1331-1346. | 2.6 | 77 |

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|---|---|---|---|
| 37 | Rheology of dilute and semidilute noncolloidal hard sphere suspensions. Journal of Rheology, 2008, 52, 1369-1384. | 2.6 | 33 |
| 38 | Comparison among Slip-Link Simulations of Bidisperse Linear Polymer Melts. Macromolecules, 2008, 41, 8275-8280. | 4.8 | 48 |
| 39 | Primitive Chain Network Simulations for Particle Dispersed Polymers. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 40 | Rotation of a Sphere in a Viscoelastic Fluid under Flow. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 41 | Statics, linear, and nonlinear dynamics of entangled polystyrene melts simulated through the primitive chain network model. Journal of Chemical Physics, 2008, 128, 154901. | 3.0 | 32 |
| 42 | Primitive Chain Network Simulations of Conformational Relaxation for Individual Molecules in the Entangled State. Nihon Reoroji Gakkaishi, 2008, 36, 181-185. | 1.0 | 3 |
| 43 | Primitive Chain Network Simulations of Damping Functions for Shear, Uniaxial, Biaxial and Planar Deformations. Nihon Reoroji Gakkaishi, 2007, 35, 73-77. | 1.0 | 16 |
| 44 | Nonlinear Stress Relaxation of Molten Polymers:Â Experimental Verification of a New Theoretical Approach. Macromolecules, 2006, 39, 5931-5938. | 4.8 | 14 |
| 45 | Primitive chain network model for block copolymers. Journal of Non-Crystalline Solids, 2006, 352, 5001-5007. | 3.1 | 18 |
| 46 | Start-up and retraction dynamics of a Newtonian drop in a viscoelastic matrix under simple shear flow. Journal of Non-Newtonian Fluid Mechanics, 2006, 134, 27-32. | 2.4 | 25 |
| 47 | Mechanical properties of end-crosslinked entangled polymer networks using sliplink Brownian dynamics simulations. Rheologica Acta, 2006, 46, 95-109. | 2.4 | 17 |
| 48 | Primitive chain network simulations for branched polymers. Rheologica Acta, 2006, 46, 297-303. | 2.4 | 33 |
| 49 | Single Drop Dynamics under Shearing Flow in Systems with a Viscoelastic Phase. Macromolecular Symposia, 2005, 228, 31-40. | 0.7 | 8 |
| 50 | Analysis of start-up dynamics of a single drop through an ellipsoidal drop model for non-Newtonian fluids. Journal of Non-Newtonian Fluid Mechanics, 2005, 126, 145-151. | 2.4 | 15 |
| 51 | Primitive Chain Network Simulations on Dielectric Relaxation of Linear Polymers under Shear Flow. Nihon Reoroji Gakkaishi, 2004, 32, 197-202. | 1.0 | 16 |
| 52 | Highly entangled polymer primitive chain network simulations based on dynamic tube dilation. Journal of Chemical Physics, 2004, 121, 12650. | 3.0 | 19 |
| 53 | Molecular simulations of the long-time behaviour of entangled polymeric liquids by the primitive chain network model. Modelling and Simulation in Materials Science and Engineering, 2004, 12, S91-S100. | 2.0 | 59 |
| 54 | Primitive Chain Network Model for Entangled Polymer Blends. AIP Conference Proceedings, 2004, , . | 0.4 | 0 |

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| 55 | Entangled Polymeric Liquids:Â Nonstandard Statistical Thermodynamics of a Subchain between Entanglement Points and a New Calculation of the Strain Measure Tensor. Macromolecules, 2004, 37, 10079-10088. | 4.8 | 12 |
| 56 | Ellipsoidal drop model for single drop dynamics with non-Newtonian fluids. Journal of Rheology, 2004, 48, 83-100. | 2.6 | 68 |
| 57 | New strain measure tensor for entangled polymeric liquids. Journal of Rheology, 2003, 47, 235-246. | 2.6 | 1 |
| 58 | Entanglement molecular weight and frequency response of sliplink networks. Journal of Chemical Physics, 2003, 119, 6925-6930. | 3.0 | 125 |
| 59 | Rheo-optical determination of the interfacial tension in a dispersed blend. Macromolecular Symposia, 2003, 198, 53-68. | 0.7 | 3 |
| 60 | Second-order theory for the deformation of a Newtonian drop in a stationary flow field. Physics of Fluids, 2002, 14, 946-954. | 4.0 | 20 |
| 61 | Drop deformation for non-Newtonian fluids in slow flows. Journal of Non-Newtonian Fluid Mechanics, 2002, 107, 111-131. | 2.4 | 83 |
| 62 | Integral and differential constitutive equations for entangled polymers with simple versions of CCR and force balance on entanglements. Rheologica Acta, 2001, 40, 98-103. | 2.4 | 31 |
| 63 | Drop shape under slow steady shear flow and during relaxation. Experimental results and comparison with theory. Rheologica Acta, 2001, 40, 176-184. | 2.4 | 47 |
| 64 | Brownian simulations of a network of reptating primitive chains. Journal of Chemical Physics, 2001, 115, 4387-4394. | 3.0 | 268 |
| 65 | Possible role of force balance on entanglements. Macromolecular Symposia, 2000, 158, 57-64. | 0.7 | 33 |
| 66 | Simple strain measure for entangled polymers. Journal of Rheology, 2000, 44, 845-854. | 2.6 | 45 |