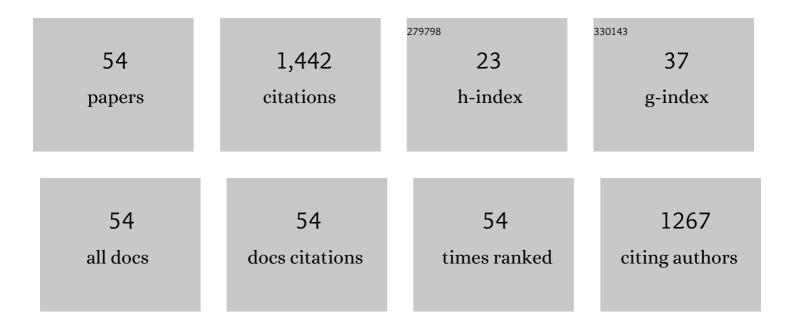
Gustavo A Schwartz

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Glass Transition and Relaxation Processes in Supercooled Water. Physical Review Letters, 2004, 93, 245702. | 7.8 | 158 |
| 2 | Dielectric Study of Hydration Water in Silica Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 24340-24349. | 3.1 | 89 |
| 3 | Water dynamics in n-propylene glycol aqueous solutions. Journal of Chemical Physics, 2006, 124, 194501. | 3.0 | 77 |
| 4 | Determination of the nanoscale dielectric constant by means of a double pass method using electrostatic force microscopy. Journal of Applied Physics, 2009, 106, . | 2.5 | 73 |
| 5 | Nanodielectric mapping of a model polystyrene-poly(vinyl acetate) blend by electrostatic force microscopy. Physical Review E, 2010, 81, 010801. | 2.1 | 53 |
| 6 | Combining configurational entropy and self-concentration to describe the component dynamics in miscible polymer blends. Journal of Chemical Physics, 2005, 123, 144908. | 3.0 | 52 |
| 7 | Imaging dielectric relaxation in nanostructured polymers by frequency modulation electrostatic force microscopy. Applied Physics Letters, 2010, 96, 213110. | 3.3 | 47 |
| 8 | From chemical structure to quantitative polymer properties prediction through convolutional neural networks. Polymer, 2020, 193, 122341. | 3.8 | 47 |
| 9 | Single Component Dynamics in Miscible Poly(vinyl methyl ether)/Polystyrene Blends under Hydrostatic Pressure. Macromolecules, 2007, 40, 3246-3255. | 4.8 | 45 |
| 10 | Local mechanical and dielectric behavior of the interacting polymer layer in silica nano-particles filled SBR by means of AFM-based methods. Polymer, 2013, 54, 4980-4986. | 3.8 | 42 |
| 11 | Influence of Water and Filler Content on the Dielectric Response of Silica-Filled Rubber Compounds. Macromolecules, 2013, 46, 2407-2416. | 4.8 | 42 |
| 12 | Thermal aging of carbon black filled rubber compounds. I. Experimental evidence for bridging flocculation. Polymer, 2003, 44, 7229-7240. | 3.8 | 40 |
| 13 | Relaxation dynamics of a polymer in a 2D confinement. Journal of Chemical Physics, 2004, 120, 5736-5744. | 3.0 | 38 |
| 14 | Water diffusion and hydrolysis effect on the structure and dynamics of epoxy-anhydride networks. Polymer Degradation and Stability, 2017, 143, 57-63. | 5.8 | 37 |
| 15 | Temperature and strain rate dependence of the tensile yield stress of PVC. Journal of Applied Polymer Science, 1996, 61, 109-117. | 2.6 | 36 |
| 16 | Dielectric α- and β-Relaxations in Uncured Styrene Butadiene Rubber. Macromolecules, 2002, 35, 4337-4342. | 4.8 | 35 |
| 17 | Dynamics of propylene glycol and its oligomers confined in clay. European Physical Journal E, 2003, 12, 179-183. | 1.6 | 31 |
| 18 | Correlation between temperature–pressure dependence of the α-relaxation and configurational entropy for a glass-forming polymer. Journal of Non-Crystalline Solids, 2005, 351, 2616-2621. | 3.1 | 30 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Pressureâ^'Temperature Dependence of Polymer Segmental Dynamics. Comparison between the Adamâ^'Cibbs Approach and Density Scalings. Macromolecules, 2006, 39, 3931-3938. | 4.8 | 30 |
| 20 | Dielectric study of the segmental relaxation of low and high molecular weight polystyrenes under hydrostatic pressure. Journal of Non-Crystalline Solids, 2007, 353, 4298-4302. | 3.1 | 29 |
| 21 | Stress relaxation of PVC below the yield point. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 1257-1267. | 2.1 | 27 |
| 22 | Broadband nanodielectric spectroscopy by means of amplitude modulation electrostatic force microscopy (AM-EFM). Ultramicroscopy, 2011, 111, 1366-1369. | 1.9 | 25 |
| 23 | A numerical simulation of the electrical resistivity of carbon black filled rubber. Polymer, 2000, 41, 6589-6595. | 3.8 | 24 |
| 24 | Confinement effects on the excess wing in the dielectric loss of glass-formers. Europhysics Letters, 2003, 64, 675-681. | 2.0 | 24 |
| 25 | Describing the component dynamics in miscible polymer blends: Towards a fully predictive model. Journal of Chemical Physics, 2006, 124, 154904. | 3.0 | 23 |
| 26 | Mapping Chemical Structure–Glass Transition Temperature Relationship through Artificial Intelligence. Macromolecules, 2021, 54, 1811-1817. | 4.8 | 22 |
| 27 | Nanoscale dielectric properties of insulating thin films: From single point measurements to quantitative images. Ultramicroscopy, 2010, 110, 634-638. | 1.9 | 20 |
| 28 | Positron annihilation and relaxation dynamics from dielectric spectroscopy and nuclear magnetic resonance: <i>Cis–trans-</i> 1,4-poly(butadiene). Journal of Chemical Physics, 2011, 134, 164507. | 3.0 | 19 |
| 29 | The effect of vulcanization additives on the dielectric response of styrene-butadiene rubber compounds. Polymer, 2019, 172, 205-212. | 3.8 | 19 |
| 30 | Localizing and quantifying the intra-monomer contributions to the glass transition temperature using artificial neural networks. Polymer, 2020, 203, 122786. | 3.8 | 19 |
| 31 | Numerical study of the lateral resolution in electrostatic force microscopy for dielectric samples. Nanotechnology, 2011, 22, 285705. | 2.6 | 18 |
| 32 | On the use of electrostatic force microscopy as a quantitative subsurface characterization technique: A numerical study. Applied Physics Letters, 2011, 99, 023101. | 3.3 | 16 |
| 33 | Prediction of Rheometric Properties of Compounds by Using Artificial Neural Networks. Rubber Chemistry and Technology, 2001, 74, 116-123. | 1.2 | 15 |
| 34 | Dielectric spectroscopy at the nanoscale by atomic force microscopy: A simple model linking materials properties and experimental response. Journal of Applied Physics, 2014, 115, . | 2.5 | 15 |
| 35 | Adam-Gibbs based model to describe the single component dynamics in miscible polymer blends under hydrostatic pressure. Journal of Chemical Physics, 2007, 127, 154907. | 3.0 | 14 |
| 36 | High pressure dynamics of polymer/plasticizer mixtures. Journal of Chemical Physics, 2009, 131, 044906. | 3.0 | 12 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Water dynamics in poly(vinyl pyrrolidone)–water solution before and after isothermal crystallization. Journal of Non-Crystalline Solids, 2010, 356, 3037-3041. | 3.1 | 12 |
| 38 | DETERMINATION OF FILLER STRUCTURE IN SILICA-FILLED SBR COMPOUNDS BY MEANS OF SAXS AND AFM. Rubber Chemistry and Technology, 2015, 88, 690-710. | 1.2 | 11 |
| 39 | Positron annihilation response and broadband dielectric spectroscopy: Poly(propylene glycol). Journal of Non-Crystalline Solids, 2010, 356, 782-786. | 3.1 | 10 |
| 40 | AFM based dielectric spectroscopy: Extended frequency range through excitation of cantilever higher eigenmodes. Ultramicroscopy, 2014, 146, 55-61. | 1.9 | 9 |
| 41 | Tuning molecular dynamics by hydration and confinement: antiplasticizing effect of water in hydrated prilocaine nanoclusters. Physical Chemistry Chemical Physics, 2019, 21, 15576-15583. | 2.8 | 9 |
| 42 | Dielectric relaxation studies of poly(propylene glycol) confined in vermiculite clay. European Physical Journal E, 2003, 12, 113-116. | 1.6 | 8 |
| 43 | Fluorinated networks dynamics studied by means of broadband dielectric spectroscopy. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 7 |
| 44 | Compatibility studies of polystyrene and poly(vinyl acetate) blends using electrostatic force microscopy. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1332-1338. | 2.1 | 5 |
| 45 | Extended Adam–Gibbs Approach To Describe the Segmental Dynamics of Cross-Linked Miscible Rubber Blends. Macromolecules, 2018, 51, 1741-1747. | 4.8 | 5 |
| 46 | Dielectric properties of thin insulating layers measured by Electrostatic Force Microscopy. EPJ Applied Physics, 2010, 50, 10501. | 0.7 | 5 |
| 47 | Determining concentration depth profiles in fluorinated networks by means of electric force microscopy. Journal of Chemical Physics, 2011, 135, 064704. | 3.0 | 4 |
| 48 | Complex networks reveal emergent interdisciplinary knowledge in Wikipedia. Humanities and Social Sciences Communications, 2021, 8, . | 2.9 | 4 |
| 49 | Approaching Polymer Dynamics Combining Artificial Neural Networks and Elastically Collective Nonlinear Langevin Equation. Polymers, 2022, 14, 1573. | 4.5 | 3 |
| 50 | A Novel Measure Method for High-Speed Tire Vibrations. JVC/Journal of Vibration and Control, 2001, 7, 643-651. | 2.6 | 2 |
| 51 | Literatura y ciencia. Hacia una integración del conocimiento. Arbor, 2018, 194, 481. | 0.3 | 2 |
| 52 | An experimental method for studying two-dimensional percolation. American Journal of Physics, 2004, 72, 364-366. | 0.7 | 1 |
| 53 | Study of relaxation and transport processes by means of AFM based dielectric spectroscopy. , 2014, , . | | 1 |
| 54 | Estimating glass transition temperature and related dynamics of molecular glass formers combining artificial neural networks and disordered systems theory. Journal of Non-Crystalline Solids: X, 2022, 15, 100106. | 1.2 | 1 |