# Simone Capaccioli

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 192 papers | 5,034 citations | 87723<br>38 h-index | 123241<br>61 g-index |
| 196 all docs | 196 docs citations | 196 times ranked | 2579 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Relation between the activation energy of the Johari-Goldstein Î² relaxation and T_{g} of glass formers. Physical Review E, 2004, 69, 031501. | 0.8 | 223 |
| 2 | Do Theories of the Glass Transition, in which the Structural Relaxation Time Does Not Define the Dispersion of the Structural Relaxation, Need Revision?. Journal of Physical Chemistry B, 2005, 109, 17356-17360. | 1.2 | 210 |
| 3 | Many-Body Nature of Relaxation Processes in Glass-Forming Systems. Journal of Physical Chemistry Letters, 2012, 3, 735-743. | 2.1 | 171 |
| 4 | The Johariâ"Goldstein Î²-Relaxation of Water. Journal of Physical Chemistry B, 2007, 111, 8197-8209. | 1.2 | 136 |
| 5 | Dynamically Correlated Regions and Configurational Entropy in Supercooled Liquids. Journal of Physical Chemistry B, 2008, 112, 10652-10658. | 1.2 | 126 |
| 6 | Glass Transitions in Aqueous Solutions of Protein (Bovine Serum Albumin). Journal of Physical Chemistry B, 2009, 113, 14448-14456. | 1.2 | 116 |
| 7 | Two crossover regions in the dynamics of glass forming epoxy resins. Journal of Chemical Physics, 2002, 117, 2435-2448. | 1.2 | 108 |
| 8 | Interdependence of Primary and Johariâ"Goldstein Secondary Relaxations in Glass-Forming Systems. Journal of Physical Chemistry B, 2008, 112, 4470-4473. | 1.2 | 104 |
| 9 | Dielectric response analysis of a conducting polymer dominated by the hopping charge transport. Journal of Physics Condensed Matter, 1998, 10, 5595-5617. | 0.7 | 102 |
| 10 | Resolving the controversy on the glass transition temperature of water?. Journal of Chemical Physics, 2011, 135, 104504. | 1.2 | 95 |
| 11 | Dynamics of supercooled and glassy dipropyleneglycol dibenzoate as functions of temperature and aging: Interpretation within the coupling model framework. Journal of Chemical Physics, 2004, 120, 4808-4815. | 1.2 | 82 |
| 12 | Thermodynamic scaling of Î±-relaxation time and viscosity stems from the Johari-Goldstein Î²-relaxation or the primitive relaxation of the coupling model. Journal of Chemical Physics, 2012, 137, 034511. | 1.2 | 82 |
| 13 | The Protein â€œGlassâ€• Transition and the Role of the Solvent. Journal of Physical Chemistry B, 2008, 112, 3826-3832. | 1.2 | 80 |
| 14 | Pressure dependence of structural relaxation time in terms of the Adam-Gibbs model. Physical Review E, 2001, 63, 031207. | 0.8 | 78 |
| 15 | Critical Issues of Current Research on the Dynamics Leading to Glass Transition. Journal of Physical Chemistry B, 2008, 112, 16035-16049. | 1.2 | 77 |
| 16 | Recent developments in the experimental investigations of relaxations in pharmaceuticals by dielectric techniques at ambient and elevated pressure. Advanced Drug Delivery Reviews, 2016, 100, 158-182. | 6.6 | 73 |
| 17 | Relation between theÎ±-Relaxation and Johariâ"GoldsteinÎ²-Relaxation of a Component in Binary Miscible Mixtures of Glass-Formers. Journal of Physical Chemistry B, 2005, 109, 9727-9735. | 1.2 | 67 |
| 18 | Changes in the dynamics of supercooled systems revealed by dielectric spectroscopy. Journal of Chemical Physics, 1999, 111, 9343-9351. | 1.2 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Identifying the genuine Johariâ€“Goldstein Î²-relaxation by cooling, compressing, and aging small molecular glass-formers. Journal of Non-Crystalline Solids, 2005, 351, 2643-2651. | 1.5 | 61 |
| 20 | Evidence of Coexistence of Change of Caged Dynamics at <i>T</i><sub>g</sub> and the Dynamic Transition at <i>T</i><sub>d</sub> in Solvated Proteins. Journal of Physical Chemistry B, 2012, 116, 1745-1757. | 1.2 | 61 |
| 21 | Correlation between configurational entropy and structural relaxation time in glass-forming liquids. Physical Review B, 2003, 67, . | 1.1 | 58 |
| 22 | Resolving the ambiguity of the dynamics of water and clarifying its role in hydrated proteins. Philosophical Magazine, 2011, 91, 1809-1835. | 0.7 | 54 |
| 23 | Adamâ€“Gibbs model for the supercooled dynamics in the ortho-terphenyl ortho-phenylphenol mixture. Journal of Chemical Physics, 2004, 120, 10640-10646. | 1.2 | 53 |
| 24 | Mechanism of fast surface self-diffusion of an organic glass. Physical Review E, 2012, 86, 051503. | 0.8 | 53 |
| 25 | Coupling of Caged Molecule Dynamics to JG Î²-Relaxation: I. Journal of Physical Chemistry B, 2015, 119, 8800-8808. | 1.2 | 53 |
| 26 | The Glass Transition and Dielectric Secondary Relaxation of Fructoseâˆ'Water Mixtures. Journal of Physical Chemistry B, 2008, 112, 15470-15477. | 1.2 | 52 |
| 27 | Effect of chain length on fragility and thermodynamic scaling of the local segmental dynamics in poly(methylmethacrylate). Journal of Chemical Physics, 2007, 126, 184903. | 1.2 | 51 |
| 28 | Two secondary modes in decahydroisoquinoline: Which one is the true Johari Goldstein process?. Journal of Chemical Physics, 2005, 122, 234506. | 1.2 | 48 |
| 29 | Interfacial and Annealing Effects on Primary Î±-Relaxation of Ultrathin Polymer Films Investigated at Nanoscale. Macromolecules, 2012, 45, 2138-2144. | 2.2 | 46 |
| 30 | Coupling of Caged Molecule Dynamics to JG Î²-Relaxation II: Polymers. Journal of Physical Chemistry B, 2015, 119, 12502-12518. | 1.2 | 46 |
| 31 | Genuine Johariâ€“Goldstein Î²-relaxations in glass-forming binary mixtures. Journal of Non-Crystalline Solids, 2006, 352, 4643-4648. | 1.5 | 45 |
| 32 | Effect of pressure on the dynamics of glass formers. Physical Review E, 2001, 64, 041504. | 0.8 | 43 |
| 33 | Emergence of glassy-like dynamics in an orientationally ordered phase. Physical Review B, 2012, 85, . | 1.1 | 43 |
| 34 | Coupling of Caged Molecule Dynamics to JG Î²-Relaxation III:van der Waals Glasses. Journal of Physical Chemistry B, 2015, 119, 12519-12525. | 1.2 | 42 |
| 35 | The role of primitive relaxation in the dynamics of aqueous mixtures, nano-confined water and hydrated proteins. Journal of Non-Crystalline Solids, 2011, 357, 641-654. | 1.5 | 40 |
| 36 | Dielectric analysis of the linear polymerization of an epoxy resin. Polymer International, 2001, 50, 545-551. | 1.6 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Thermodynamic Scaling of the Dynamics of a Strongly Hydrogen-Bonded Glass-Former. Scientific Reports, 2017, 7, 1346. | 1.6 | 39 |
| 38 | Dielectric behaviour versus temperature of a monoepoxide. Journal of Physics Condensed Matter, 1997, 9, 6199-6216. | 0.7 | 38 |
| 39 | Molecular dynamics study of the thermal and the density effects on the local and the large-scale motion of polymer melts: Scaling properties and dielectric relaxation. Journal of Chemical Physics, 2004, 120, 437-453. | 1.2 | 38 |
| 40 | Correlation of nonexponentiality with dynamic heterogeneity from four-point dynamic susceptibility Ï‡4(t) and its approximation Ï‡T(t). Journal of Chemical Physics, 2010, 133, 124507. | 1.2 | 38 |
| 41 | Dispersion of the Structural Relaxation and the Vitrification of Liquids. Advances in Chemical Physics, 2006, , 497-593. | 0.3 | 37 |
| 42 | Local dielectric spectroscopy of nanocomposite materials interfaces. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C4D11-C4D17. | 0.6 | 37 |
| 43 | Effect of Confinement on Structural Relaxation in Ultrathin Polymer Films Investigated by Local Dielectric Spectroscopy. Macromolecules, 2011, 44, 6588-6593. | 2.2 | 37 |
| 44 | Dielectric secondary relaxations in polypropylene glycols. Journal of Chemical Physics, 2006, 125, 044904. | 1.2 | 35 |
| 45 | Thermodynamic scaling of vibrational dynamics and relaxation. Journal of Chemical Physics, 2016, 145, 234904. | 1.2 | 35 |
| 46 | Critical structural fluctuations of proteins upon thermal unfolding challenge the Lindemann criterion. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9361-9366. | 3.3 | 35 |
| 47 | Is the Johari-Goldstein Î²-relaxation universal?. Philosophical Magazine, 2008, 88, 4007-4013. | 0.7 | 34 |
| 48 | Revealing the rich dynamics of glass-forming systems by modification of composition and change of thermodynamic conditions. Journal of Non-Crystalline Solids, 2015, 407, 98-105. | 1.5 | 33 |
| 49 | Check of the temperature- and pressure-dependent Cohenâ€“Grest equation. Chemical Physics Letters, 2000, 320, 113-117. | 1.2 | 32 |
| 50 | Secondary dynamics in glass formers: Relation with the structural dynamics and the glass transition. Journal of Non-Crystalline Solids, 2007, 353, 4278-4282. | 1.5 | 32 |
| 51 | Molecular Dynamics of Atactic Poly(propylene) Investigated by Broadband Dielectric Spectroscopy. Macromolecules, 2007, 40, 1786-1788. | 2.2 | 32 |
| 52 | On the relevance of the coupling model to experiments. Journal of Physics Condensed Matter, 2007, 19, 205114. | 0.7 | 32 |
| 53 | Unified explanation of the anomalous dynamic properties of highly asymmetric polymer blends. Journal of Chemical Physics, 2013, 138, 054903. | 1.2 | 32 |
| 54 | Glass formability in medium-sized molecular systems/pharmaceuticals. I. Thermodynamics vs. kinetics. Journal of Chemical Physics, 2016, 144, 174502. | 1.2 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Nature of the water specific relaxation in hydrated proteins and aqueous mixtures. Chemical Physics, 2013, 424, 37-44. | 0.9 | 30 |
| 56 | Correlation of structural and Johariâ€“Goldstein relaxations in systems vitrifying along isobaric and isothermal paths. Journal of Physics Condensed Matter, 2007, 19, 205133. | 0.7 | 29 |
| 57 | Change of caged dynamics at <i>T</i> <i>g</i> in hydrated proteins: Trend of mean squared displacements after correcting for the methyl-group rotation contribution. Journal of Chemical Physics, 2013, 138, 235102. | 1.2 | 29 |
| 58 | Relation between the dispersion of Î±-relaxation and the time scale of Î²-relaxation at the glass transition. Journal of Non-Crystalline Solids, 2007, 353, 3984-3988. | 1.5 | 28 |
| 59 | Dynamics of a glass-forming triepoxide studied by dielectric spectroscopy. Journal of Physics Condensed Matter, 1999, 11, 10297-10314. | 0.7 | 27 |
| 60 | Changes of the Primary and Secondary Relaxation of Sorbitol in Mixtures with Glycerol. Journal of Physical Chemistry B, 2004, 108, 11118-11123. | 1.2 | 27 |
| 61 | Relaxation dynamics intert-butylpyridine/tristyrene mixture investigated by broadband dielectric spectroscopy. Journal of Chemical Physics, 2007, 127, 174502. | 1.2 | 27 |
| 62 | Dynamics of hydrated proteins and bio-protectants: Caged dynamics, Î²-relaxation, and Î±-relaxation. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3553-3563. | 1.1 | 27 |
| 63 | Does the entropy and volume dependence of the structural Î±-relaxation originate from the Johariâ€“Goldstein Î²-relaxation?. Journal of Non-Crystalline Solids, 2009, 355, 705-711. | 1.5 | 26 |
| 64 | Enhanced crystallization kinetics in poly(ethylene terephthalate) thin films evidenced by infrared spectroscopy. Polymer, 2010, 51, 3660-3668. | 1.8 | 26 |
| 65 | The Johariâ€“Goldstein Î²-relaxation of glass-forming binary mixtures. Journal of Non-Crystalline Solids, 2011, 357, 251-257. | 1.5 | 26 |
| 66 | Influence of the wettability on the electrical response of microporous systems. Journal Physics D: Applied Physics, 2000, 33, 1036-1047. | 1.3 | 25 |
| 67 | Direct Evidence of Relaxation Anisotropy Resolved by High Pressure in a Rigid and Planar Glass Former. Journal of Physical Chemistry Letters, 2017, 8, 4341-4346. | 2.1 | 25 |
| 68 | Study of the relaxation behaviour of a tri-epoxy compound in the supercooled and glassy state by broadband dielectric spectroscopy. Journal of Physics Condensed Matter, 2001, 13, 4405-4419. | 0.7 | 24 |
| 69 | Electrical Measurements in the 100 Hz to 10 GHz Frequency Range for Efficient Rock Wettability Determination. SPE Journal, 2001, 6, 80-88. | 1.7 | 24 |
| 70 | A microscopic look at the Johari-Goldstein relaxation in a hydrogen-bonded glass-former. Scientific Reports, 2019, 9, 14319. | 1.6 | 24 |
| 71 | Pressure and temperature dependence of structural relaxation dynamics in polymers: a thermodynamic interpretation. Journal of Physics Condensed Matter, 2004, 16, 6597-6608. | 0.7 | 23 |
| 72 | What Can We Learn by Squeezing a Liquid?. Journal of Physical Chemistry B, 2006, 110, 11491-11495. | 1.2 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | An explanation of the differences in diffusivity of the components of the metallic glass Pd43Cu27Ni10P20. Journal of Chemical Physics, 2013, 138, 094504. | 1.2 | 23 |
| 74 | Contrasting two different interpretations of the dynamics in binary glass forming mixtures. Journal of Chemical Physics, 2018, 148, 054504. | 1.2 | 23 |
| 75 | Segmental Î±-Relaxation for the First Step and Sub-Rouse Modes for the Second Step in Enthalpy Recovery in the Glassy State of Polystyrene. Macromolecules, 2019, 52, 1440-1446. | 2.2 | 23 |
| 76 | Experimental evidence of mosaic structure in strongly supercooled molecular liquids. Nature Communications, 2021, 12, 1867. | 5.8 | 23 |
| 77 | Dynamics of epoxies: a full dielectric analysis by wideband spectroscopy. Journal of Non-Crystalline Solids, 1998, 235-237, 576-579. | 1.5 | 22 |
| 78 | Applications of the rheo-dielectric technique. Journal of Non-Crystalline Solids, 2007, 353, 4267-4272. | 1.5 | 22 |
| 79 | Recent advances in fundamental understanding of glass transition. Journal of Non-Crystalline Solids, 2008, 354, 5085-5088. | 1.5 | 22 |
| 80 | Impact of the application of pressure on the fundamental understanding of glass transition. Journal of Physics Condensed Matter, 2008, 20, 244101. | 0.7 | 22 |
| 81 | Guides to solving the glass transition problem. Journal of Physics Condensed Matter, 2008, 20, 244125. | 0.7 | 22 |
| 82 | Î± -relaxation dynamics of orientanionally disordered mixed crystals composed of Cl-adamantane and CN-adamantane. Journal of Chemical Physics, 2010, 132, 164516. | 1.2 | 22 |
| 83 | Dynamic Crossover of Water Relaxation in Aqueous Mixtures: Effect of Pressure. Journal of Physical Chemistry Letters, 2010, 1, 1170-1175. | 2.1 | 22 |
| 84 | The JG <b>Î²</b>-relaxation in water and impact on the dynamics of aqueous mixtures and hydrated biomolecules. Journal of Chemical Physics, 2019, 151, 034504. | 1.2 | 22 |
| 85 | Characterization of Rock Wettability Though Dielectric Measurements. Oil & Gas Science & Technology, 1998, 53, 771-783. | 0.2 | 22 |
| 86 | Double Primary Relaxation in a Highly Anisotropic Orientational Glass-Former with Low-Dimensional Disorder. Journal of Physical Chemistry C, 2016, 120, 10614-10621. | 1.5 | 20 |
| 87 | Molecular dynamic in binary mixtures and polymer blends with large difference in glass transition temperatures of the two components: A critical review. Journal of Non-Crystalline Solids, 2021, 558, 119573. | 1.5 | 19 |
| 88 | Application of impedance spectroscopy to the study of organic multilayer devices. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 171, 159-166. | 2.3 | 18 |
| 89 | Resolution of problems in soft matter dynamics by combining calorimetry and other spectroscopies. Journal of Thermal Analysis and Calorimetry, 2010, 99, 123-138. | 2.0 | 18 |
| 90 | Recent progress in understanding relaxation in complex systems. Journal of Non-Crystalline Solids, 2010, 356, 535-541. | 1.5 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Clarifying the nature of the Johari-Goldstein Î²-relaxation and emphasising its fundamental importance. Philosophical Magazine, 2020, 100, 2596-2613. | 0.7 | 17 |
| 92 | Advances in understanding the relationship between rock wettability and high-frequency dielectric response. Journal of Petroleum Science and Engineering, 2002, 33, 87-99. | 2.1 | 16 |
| 93 | Effect of temperature and pressure on the structural (Î±-) and the true Johariâ€"Goldstein (Î²-) relaxation in binary mixtures. Journal of Non-Crystalline Solids, 2007, 353, 4273-4277. | 1.5 | 16 |
| 94 | Comment on â€œA Molecular Dynamics Simulation Study of Relaxation Processes in the Dynamical Fast Component of Miscible Polymer Blendsâ€. Macromolecules, 2006, 39, 8543-8543. | 2.2 | 15 |
| 95 | Effect of thermodynamic history on secondary relaxation in the glassy state. Journal of Non-Crystalline Solids, 2007, 353, 4313-4317. | 1.5 | 15 |
| 96 | Origins of the two simultaneous mechanisms causing glass transition temperature reductions in high molecular weight freestanding polymer films. Journal of Chemical Physics, 2014, 140, 074903. | 1.2 | 15 |
| 97 | Coupling of caged molecule dynamics to Johari-Goldstein Î²-relaxation in metallic glasses. Journal of Applied Physics, 2016, 119, . | 1.1 | 15 |
| 98 | Effect of water inclusions on charge transport and polarization in porous media. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 454-460. | 1.8 | 14 |
| 99 | Effect of thermodynamic history on secondary relaxation in glassy phenolphthalein-dimethyl-ether. Physical Review B, 2006, 73, . | 1.1 | 14 |
| 100 | Temperature Dependence of the Structural Relaxation Time in Equilibrium below the Nominal <i>T</i><sub>g</sub>: Results from Freestanding Polymer Films. Journal of Physical Chemistry B, 2014, 118, 5608-5614. | 1.2 | 14 |
| 101 | Quantitative explanation of the enhancement of surface mobility of the metallic glass Pd40Cu30Ni10P20 by the Coupling Model. Journal of Non-Crystalline Solids, 2017, 463, 85-89. | 1.5 | 14 |
| 102 | Influence of the end groups on dynamics of propylene glycol oligomers studied by wideband dielectric spectroscopy. Journal of Non-Crystalline Solids, 2002, 307-310, 238-245. | 1.5 | 13 |
| 103 | Emergence of a new feature in the high pressureâ€"high temperature relaxation spectrum of tri-propylene glycol. Journal of Chemical Physics, 2005, 122, 061102. | 1.2 | 13 |
| 104 | Electrostatic force microscopy and potentiometry of realistic nanostructured systems. Journal of Applied Physics, 2009, 105, 054301. | 1.1 | 13 |
| 105 | Relation between configurational entropy and relaxation dynamics of glass-forming systems under volume and temperature reduction. Journal of Non-Crystalline Solids, 2009, 355, 753-758. | 1.5 | 13 |
| 106 | Extended model for the interaction of dielectric thin films with an electrostatic force microscope probe. Journal of Applied Physics, 2015, 118, . | 1.1 | 13 |
| 107 | High-pressure cell for simultaneous dielectric and neutron spectroscopy. Review of Scientific Instruments, 2018, 89, 023904. | 0.6 | 13 |
| 108 | Isochronal superposition and density scaling of the <i>Î±</i>-relaxation from pico- to millisecond. Journal of Chemical Physics, 2018, 149, 214503. | 1.2 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Temperature and pressure dependences of the relaxation dynamics of supercooled systems explored by dielectric spectroscopy. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1953-1963. | 0.6 | 12 |
| 110 | Pressure and temperature dependences of the dynamics of glass formers studied by broad-band dielectric spectroscopy. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 651-662. | 0.6 | 12 |
| 111 | New experimental evidence about secondary processes in phenylphthalein-dimethylether and 1,1â€²-bis(p-methoxyphenyl)cyclohexane. Journal of Chemical Physics, 2007, 127, 114507. | 1.2 | 12 |
| 112 | The Challenging Problem of Glass Transition. Journal of the American Ceramic Society, 2008, 91, 709-714. | 1.9 | 12 |
| 113 | Reconsidering the Dynamics in Mixtures of Methyltetrahydrofuran with Tristyrene and Polystyrene. Journal of Physical Chemistry B, 2015, 119, 5677-5684. | 1.2 | 12 |
| 114 | Complex Dynamics of a Fluorinated Vinylidene Cyanide Copolymer Highlighted by Dielectric Relaxation Spectroscopy. Macromolecules, 2016, 49, 5104-5114. | 2.2 | 12 |
| 115 | Temperature and pressure dependence of secondary process in an epoxy system. Journal of Chemical Physics, 2011, 134, 044510. | 1.2 | 11 |
| 116 | Secondary relaxation dynamics in rigid glass-forming molecular liquids with related structures. Journal of Chemical Physics, 2015, 143, 104505. | 1.2 | 11 |
| 117 | A perspective on experimental findings and theoretical explanations of novel dynamics at free surface and in freestanding thin films of polystyrene. Philosophical Magazine, 2016, 96, 854-869. | 0.7 | 11 |
| 118 | Relaxation processes in an epoxy resin studied by time-resolved optical Kerr effect. Physical Review E, 2002, 66, 011502. | 0.8 | 10 |
| 119 | Relation between structural relaxation time and configurational entropy: A test of the Adam-Gibbs model on epoxy resins. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 339-346. | 0.6 | 10 |
| 120 | Secondary dielectric relaxation in decahydroisoquinolineâ€“cyclohexane mixture. Journal of Non-Crystalline Solids, 2006, 352, 4685-4689. | 1.5 | 10 |
| 121 | Relationship between structural and secondary relaxation in glass formers: Ratio between glass transition temperature and activation energy. Philosophical Magazine, 2008, 88, 4063-4069. | 0.7 | 10 |
| 122 | Does the Johariâ€“Goldstein Î²-Relaxation Exist in Polypropylene Glycols?. Macromolecules, 2015, 48, 4151-4157. | 2.2 | 10 |
| 123 | Glass transition of an epoxy resin. A wideband dielectric investigation. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 373-376. | 1.8 | 9 |
| 124 | Temperature and pressure behavior of the structural relaxation time in glass formers. Journal of Non-Crystalline Solids, 2002, 307-310, 264-269. | 1.5 | 9 |
| 125 | Effect of pressure on relaxation dynamics at different time scales in supercooled systems. Philosophical Magazine, 2007, 87, 681-689. | 0.7 | 9 |
| 126 | Broadband local dielectric spectroscopy. Applied Physics Letters, 2016, 108, 182906. | 1.5 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Effect of temperature and volume on structural relaxation time: Interpretation in terms of decrease of configurational entropy. Journal of Non-Crystalline Solids, 2005, 351, 2611-2615. | 1.5 | 8 |
| 128 | The component dynamics of miscible binary mixtures of glass formers: New features. Philosophical Magazine, 2008, 88, 4047-4055. | 0.7 | 8 |
| 129 | In silico broadband mechanical spectroscopy of amorphous tantala. Physical Review Research, 2019, 1, . | 1.3 | 8 |
| 130 | Inter-chain and intra-chain hopping transport in conducting polymers. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 148-151. | 0.8 | 7 |
| 131 | Direct Experimental Characterization of Contributions from Self-Motion of Hydrogen and from Interatomic Motion of Heavy Atoms to Protein Anharmonicity. Journal of Physical Chemistry B, 2018, 122, 9956-9961. | 1.2 | 7 |
| 132 | Mixtures of m-fluoroaniline with apolar aromatic molecules: Phase behaviour, suppression of H-bonded clusters, and local H-bond relaxation dynamics. Journal of Molecular Liquids, 2019, 296, 111998. | 2.3 | 7 |
| 133 | Isochronal Superposition of the Structural Î±-Relaxation and Invariance of Its Relation to the Î²-Relaxation to Changes of Thermodynamic Conditions in Methyl <i>m</i>-Toluate. Journal of Physical Chemistry B, 2020, 124, 6690-6697. | 1.2 | 7 |
| 134 | Specific Interactions and Environment Flexibility Tune Protein Stability under Extreme Crowding. Journal of Physical Chemistry B, 2021, 125, 6103-6111. | 1.2 | 7 |
| 135 | The Dynamics of Hydrated Proteins Are the Same as Those of Highly Asymmetric Mixtures of Two Glass-Formers. ACS Omega, 2021, 6, 340-347. | 1.6 | 7 |
| 136 | Pressure and temperature dependences of the dynamics of glass formers studied by broad-band dielectric spectroscopy. , 0, . | | 7 |
| 137 | Characterization of electrochemically synthesized alkylpyrrole intrinsically conducting polymers. Polymers for Advanced Technologies, 2000, 11, 27-39. | 1.6 | 6 |
| 138 | Influence of temperature and pressure on the dynamics of glass formers explored by dielectric spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 395-400. | 1.8 | 6 |
| 139 | Broad Band Dielectric Analysis Of Bituminous Concrete. Materials Research Innovations, 2004, 8, 36-40. | 1.0 | 6 |
| 140 | Dynamics of Laponite solutions: An interpretation within the coupling model scheme. Journal of Non-Crystalline Solids, 2007, 353, 3885-3890. | 1.5 | 6 |
| 141 | How to align a nematic glassy phase â€“ Different conditions â€“ Different results. Journal of Molecular Liquids, 2019, 280, 314-318. | 2.3 | 6 |
| 142 | Coincident Correlation between Vibrational Dynamics and Primary Relaxation of Polymers with Strong or Weak Johari-Goldstein Relaxation. Polymers, 2020, 12, 761. | 2.0 | 6 |
| 143 | Reply to â€œComment on â€˜Correlation between configurational entropy and structural relaxation time in glass-forming liquidsâ€™ â€. Physical Review B, 2005, 71, . | 1.1 | 5 |
| 144 | Polarization fluctuations near the glass transition. Journal of Non-Crystalline Solids, 2006, 352, 4920-4927. | 1.5 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Investigation of structural relaxation and surface modification of ultrathin films of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 1.2 | 5 |
| 146 | Response to â€œComment on â€˜Unified explanation of the anomalous dynamic properties of highly asymmetric polymer blendsâ€™â€‰â€•[J. Chem. Phys. 138, 197101 (2013)]. Journal of Chemical Physics, 2013, 138, 197102. | 3.2 | 5 |
| 147 | Study of the cold crystallization of poly(ethylene terephthalate) at the air interface by ATR spectroscopy. European Polymer Journal, 2014, 60, 286-296. | 2.6 | 5 |
| 148 | Sub-Rouse modes in polymer thin films: Coupling to density and responding to physical aging. AIP Conference Proceedings, 2016, , . | 0.3 | 5 |
| 149 | Uncovering a novel transition in the dynamics of proteins in the dry state. Journal of Molecular Liquids, 2019, 286, 110810. | 2.3 | 5 |
| 150 | Lateral resolution of electrostatic force microscopy for mapping of dielectric interfaces in ambient conditions. Nanotechnology, 2020, 31, 335710. | 1.3 | 5 |
| 151 | Comment on â€œA Generalized Rouse Incoherent Scattering Function for Chain Dynamics of Unentangled Polymers in Dynamically Asymmetric Blendsâ€• Macromolecules, 2013, 46, 8054-8055. | 2.2 | 4 |
| 152 | The Viscoelastic Behavior of Rubber and Dynamics of Blends. , 2013, , 193-284. | | 4 |
| 153 | Vibrational dynamics changes of protein hydration water across the dynamic transition. Journal of Non-Crystalline Solids, 2015, 407, 465-471. | 1.5 | 4 |
| 154 | Piezoelectric displacement mapping of compliant surfaces by constant-excitation frequency-modulation piezoresponse force microscopy. Nanotechnology, 2020, 31, 075707. | 1.3 | 4 |
| 155 | Tuning-fork-based piezoresponse force microscopy. Nanotechnology, 2021, 32, 445701. | 1.3 | 4 |
| 156 | Structural relaxation process in glass-forming liquids: A comparison between the optical Kerr effect and dielectric spectroscopy. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 553-560. | 0.6 | 3 |
| 157 | Effect of the isobaric and isothermal reductions in excess and configurational entropies on glass-forming dynamics. Philosophical Magazine, 2004, 84, 1513-1519. | 0.7 | 3 |
| 158 | Excess wing and Johariâ€“Goldstein relaxation in binary mixtures of glass formers. Philosophical Magazine, 2007, 87, 643-650. | 0.7 | 3 |
| 159 | Universal Secondary Relaxation of Water in Aqueous Mixtures, in Nano-Confinement, and in Hydrated Proteins. AIP Conference Proceedings, 2008, , . | 0.3 | 3 |
| 160 | Relations of pressure and temperature dependences of the Johari-Goldstein Î²-relaxation to the Î±-relaxation: Amorphous polymers. AIP Conference Proceedings, 2018, , . | 0.3 | 3 |
| 161 | Strain-accumulation mechanisms in sands under isotropic stress. Journal of Geophysics and Engineering, 2019, 16, 1139-1150. | 0.7 | 3 |
| 162 | Influence of temperature, pressure and connectivity on the dynamics of a glass-forming system investigated by dielectric spectroscopy. Macromolecular Symposia, 2001, 171, 253-264. | 0.4 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Dynamics of orientationally disordered mixed crystal sharing Cl-adamantane and CN-adamantane. Journal of Non-Crystalline Solids, 2010, 356, 621-624. | 1.5 | 2 |
| 164 | Molecular dynamics in the supercooled liquid and glassy states of bezafibrate and binary mixture of fenofibrate. Journal of Non-Crystalline Solids, 2020, 550, 120407. | 1.5 | 2 |
| 165 | Relation between structural relaxation time and configurational entropy: A test of the Adam-Gibbs model on epoxy resins. , 0, . | | 2 |
| 166 | Including plastic behavior in the Preisach-Mayergoyz space to find static and dynamic bulk moduli in granular media. , 2018, , . | | 2 |
| 167 | Arriving at the most plausible interpretation of the dielectric spectra of glycerol with help from quasielastic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> -ray scattering time-domain interferometry. Physical Review E, 2022, 105, . | 0.8 | 2 |
| 168 | A semiâ€empirical approach to model pressure dependence of elastic moduli in granular media accounting for variations of coordinationâ€number and Poissonâ€ratio. Geophysical Prospecting, 2019, 67, 872-887. | 1.0 | 1 |
| 169 | Non-local cooperative atomic motions that govern dissipation in amorphous tantala unveiled by dynamical mechanical spectroscopy. Acta Materialia, 2020, 201, 1-6. | 3.8 | 1 |
| 170 | Do we understand the solid-like elastic properties of confined liquids?. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2021288118. | 3.3 | 1 |
| 171 | Structural relaxation process in glass-forming liquids: A comparison between the optical Kerr effect and dielectric spectroscopy. , 0, . | | 1 |
| 172 | Predicting the Pressure Dependence of Elastic Velocities of Dry Granular Assemblies Using a Modified GCT Model. , 2017, , . | | 1 |
| 173 | Strain Accumulation Mechanisms in Unconsolidated Sediments during Compression. , 2018, , . | | 1 |
| 174 | The Nature of Glass: Somethings Are Clear. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 3-30. | 0.5 | 1 |
| 175 | Intermittent-contact local dielectric spectroscopy of nanostructured interfaces. Nanotechnology, 2022, , . | 1.3 | 1 |
| 176 | <title>Dielectric relaxation phenomena in polymers: recent findings by chemical vitrification experiments</title>. , 1997, , . | | 0 |
| 177 | <title>Hopping charge transport in conducting polymers studied by dc conduction and dielectric response analysis</title>. , 1998, 3471, 162. | | 0 |
| 178 | Influence of Molecular Characteristics on Dielectric Relaxation of Propylene Glycol Oligomers. Macromolecular Symposia, 2001, 169, 147-156. | 0.4 | 0 |
| 179 | Fluctuations In Electrohydrodynamic Instability. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |
| 180 | Polarization fluctuations in an epoxy system above and below the glass transition. , 2007, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Influence of Confinement and Substrate Interaction on the Crystallization Kinetics of PET Ultrathin Films. AIP Conference Proceedings, 2008, , . | 0.3 | 0 |
| 182 | Interdependence of Primary and Secondary Relaxations in Glass-Forming Systems Undergoing Compression and Cooling. AIP Conference Proceedings, 2008, , . | 0.3 | 0 |
| 183 | Ultrathin polymer films: Interfacial and annealing dependence of confinement effects. , 2012, , . | | 0 |
| 184 | Molecular dynamics in amorphous ergocalciferol. , 2014, , . | | 0 |
| 185 | Relaxation dynamics of amorphous dibucaine using dielectric studies. AIP Conference Proceedings, 2015, , . | 0.3 | 0 |
| 186 | Surface Diffusion of Polymer Glasses Redux. Macromolecules, 2016, 49, 7605-7607. | 2.2 | 0 |
| 187 | Molecular relaxations in amorphous phenylbutazone. AIP Conference Proceedings, 2016, , . | 0.3 | 0 |
| 188 | Probing the Thermal Stability of Lysozyme in Crowded Environments: Tracking Lindemann Criterion. Biophysical Journal, 2016, 110, 213a. | 0.2 | 0 |
| 189 | Including Plastic Strain Into the Discrete Preisachâ€Mayergoyz Space: Application to Granular Media. Journal of Geophysical Research: Solid Earth, 2019, 124, 10983-10998. | 1.4 | 0 |
| 190 | Evidences of a Common Scaling Under Cooling and Compression for Slow and Fast Relaxations: Relevance of Local Modes for the Glass Transition. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 39-52. | 0.5 | 0 |
| 191 | Reconsidering the relation of the JG Î²-relaxation to the Î±-relaxation and surface diffusion in ethylcyclohexane. Journal of Non-Crystalline Solids: X, 2021, 11-12, 100070. | 0.5 | 0 |
| 192 | Evidence of negative thermal expansion in supercooled tantala. Journal of Non-Crystalline Solids, 2021, 577, 121308. | 1.5 | 0 |