# Silvia Corezzi

List of Publications by Year
in descending order

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|---|---|---|---|
| 97<br>papers | 7,301<br>citations | 136950<br>32<br>h-index | 53230<br>85<br>g-index |
| 97<br>all docs | 97<br>docs citations | 97<br>times ranked | 5530<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. Physical Review X, 2021, 11, . | 8.9 | 1,097 |
| 2 | GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. Astrophysical Journal Letters, 2020, 896, L44. | 8.3 | 1,090 |
| 3 | GW190425: Observation of a Compact Binary Coalescence with Total MassÂâˆ¼Â3.4 M<sub>âŠ™</sub>. Astrophysical Journal Letters, 2020, 892, L3. | 8.3 | 1,049 |
| 4 | GW190521: A Binary Black Hole Merger with a Total Mass of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>150</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:msub><mml:mrow></mml:mrow><mml:mo stretchy="false">âŠ™</mml:mo></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2020, 125, 101102. | 7.8 | 836 |
| 5 | Properties and Astrophysical Implications of the 150 M<sub>âŠ™</sub> Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13. | 8.3 | 406 |
| 6 | GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, . | 4.7 | 394 |
| 7 | Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. Physical Review Letters, 2019, 123, 231108. | 7.8 | 254 |
| 8 | Model comparison from LIGOâ€“Virgo data on GW170817â€™s binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006. | 4.0 | 109 |
| 9 | Two crossover regions in the dynamics of glass forming epoxy resins. Journal of Chemical Physics, 2002, 117, 2435-2448. | 3.0 | 108 |
| 10 | Bond-controlled configurational entropy reduction in chemical vitrification. Nature, 2002, 420, 653-656. | 27.8 | 81 |
| 11 | Pressure dependence of structural relaxation time in terms of the Adam-Gibbs model. Physical Review E, 2001, 63, 031207. | 2.1 | 78 |
| 12 | Synchrotron-based X-ray fluorescence imaging of human cells labeled with CdSe quantum dots. Analytical Biochemistry, 2009, 388, 33-39. | 2.4 | 73 |
| 13 | Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. Astrophysical Journal, 2019, 883, 149. | 4.5 | 72 |
| 14 | Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. Physical Review D, 2020, 101, . | 4.7 | 69 |
| 15 | Changes in the dynamics of supercooled systems revealed by dielectric spectroscopy. Journal of Chemical Physics, 1999, 111, 9343-9351. | 3.0 | 66 |
| 16 | Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21. | 8.3 | 65 |
| 17 | Raman-Scattering Measurements of the Vibrational Density of States of a Reactive Mixture During Polymerization: Effect on the Boson Peak. Physical Review Letters, 2009, 102, 027402. | 7.8 | 64 |
| 18 | Networking Properties of Cyclodextrin-Based Cross-Linked Polymers Probed by Inelastic Light-Scattering Experiments. Journal of Physical Chemistry B, 2012, 116, 5323-5327. | 2.6 | 58 |

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| 19 | Molecular properties of aqueous solutions: a focus on the collective dynamics of hydration water. Soft Matter, 2016, 12, 5501-5514. | 2.7 | 57 |
| 20 | All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. Physical Review D, 2019, 100, . | 4.7 | 54 |
| 21 | Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. Physical Review D, 2019, 100, . | 4.7 | 52 |
| 22 | Dynamics of density fluctuations of a glass-forming epoxy resin revealed by Brillouin light scattering. Physical Review E, 1999, 59, 1899-1907. | 2.1 | 50 |
| 23 | Modeling diffusion-control in the cure kinetics of epoxy-amine thermoset resins: An approach based on configurational entropy. Polymer, 2010, 51, 5833-5845. | 3.8 | 47 |
| 24 | Influence of temperature and pressure on dielectric relaxation in a supercooled epoxy resin. Physical Review E, 1999, 60, 4444-4452. | 2.1 | 45 |
| 25 | High-Performance Versatile Setup for Simultaneous Brillouin-Raman Microspectroscopy. Physical Review X, 2017, 7, . | 8.9 | 44 |
| 26 | Dielectric parameters to monitor the crosslink of epoxy resins. Journal of Applied Polymer Science, 1997, 65, 17-25. | 2.6 | 43 |
| 27 | Effect of pressure on the dynamics of glass formers. Physical Review E, 2001, 64, 041504. | 2.1 | 43 |
| 28 | A molecular dynamics study of chemical gelation in a patchy particle model. Soft Matter, 2008, 4, 1173. | 2.7 | 42 |
| 29 | Dielectric analysis of the linear polymerization of an epoxy resin. Polymer International, 2001, 50, 545-551. | 3.1 | 39 |
| 30 | Dielectric behaviour versus temperature of a monoepoxide. Journal of Physics Condensed Matter, 1997, 9, 6199-6216. | 1.8 | 38 |
| 31 | Connecting Irreversible to Reversible Aggregation: Time and Temperature. Journal of Physical Chemistry B, 2009, 113, 1233-1236. | 2.6 | 37 |
| 32 | Check of the temperature- and pressure-dependent Cohenâ€“Grest equation. Chemical Physics Letters, 2000, 320, 113-117. | 2.6 | 32 |
| 33 | Unified dielectric description of the dynamics of polymeric systems undergoing either thermal or chemical vitrification. Chemical Physics Letters, 1996, 258, 470-476. | 2.6 | 31 |
| 34 | Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. Astrophysical Journal, 2019, 886, 75. | 4.5 | 29 |
| 35 | Slow dynamics of salol: A pressure- and temperature-dependent light scattering study. Physical Review E, 2004, 70, 011504. | 2.1 | 28 |
| 36 | Chemical and physical aggregation of small-functionality particles. Soft Matter, 2012, 8, 11207. | 2.7 | 28 |

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| 37 | Dynamics of a glass-forming triepoxide studied by dielectric spectroscopy. Journal of Physics Condensed Matter, 1999, 11, 10297-10314. | 1.8 | 27 |
| 38 | Clustering and Cooperative Dynamics in a Reactive System. Physical Review Letters, 2005, 94, 065702. | 7.8 | 27 |
| 39 | Modeling the Crossover between Chemically and Diffusion-Controlled Irreversible Aggregation in a Small-Functionality Gel-Forming System. Journal of Physical Chemistry B, 2010, 114, 3769-3775. | 2.6 | 26 |
| 40 | Light Scattering Study of Vitrification during the Polymerization of Model Epoxy Resins. Macromolecules, 2003, 36, 5271-5278. | 4.8 | 25 |
| 41 | Cauchy relation in relaxing liquids. Journal of Chemical Physics, 2008, 128, 214502. | 3.0 | 25 |
| 42 | Dynamics of epoxies: a full dielectric analysis by wideband spectroscopy. Journal of Non-Crystalline Solids, 1998, 235-237, 576-579. | 3.1 | 22 |
| 43 | All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. Physical Review D, 2019, 99, . | 4.7 | 22 |
| 44 | Can experiments select the configurational component of excess entropy?. European Physical Journal E, 2004, 14, 143-147. | 1.6 | 21 |
| 45 | Ergodic to Nonergodic Transition in Liquids with a Local Order: The Case ofm-Toluidine. Physical Review Letters, 2005, 94, 155702. | 7.8 | 20 |
| 46 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGOâ€“Virgo Run O3a. Astrophysical Journal, 2021, 915, 86. | 4.5 | 20 |
| 47 | Solvent Sharing Models for Non-Interacting Solute Molecules: The Case of Glucose and Trehalose Water Solutions. Food Biophysics, 2013, 8, 177-182. | 3.0 | 19 |
| 48 | Hydration and aggregation of lysozyme by extended frequency range depolarized light scattering. Journal of Non-Crystalline Solids, 2015, 407, 472-477. | 3.1 | 18 |
| 49 | Stress effects on the elastic properties of amorphous polymeric materials. Journal of Chemical Physics, 2014, 141, 214901. | 3.0 | 16 |
| 50 | Concentration dependence of hydration water in a model peptide. Physical Chemistry Chemical Physics, 2014, 16, 12433. | 2.8 | 15 |
| 51 | Hydrophobic Hydration in Waterâ€“tert-Butyl Alcohol Solutions by Extended Depolarized Light Scattering. Journal of Physical Chemistry B, 2015, 119, 9236-9243. | 2.6 | 15 |
| 52 | Stress-Induced Modification of the Boson Peak Scaling Behavior. Journal of Physical Chemistry B, 2013, 117, 14477-14485. | 2.6 | 14 |
| 53 | Correlation between collective and molecular dynamics in pH-responsive cyclodextrin-based hydrogels. Physical Chemistry Chemical Physics, 2017, 19, 22555-22563. | 2.8 | 13 |
| 54 | Hydration properties and water structure in aqueous solutions of native and modified cyclodextrins by <scp>UV R</scp>aman and <scp>B</scp>rillouin scattering. Journal of Raman Spectroscopy, 2018, 49, 1076-1085. | 2.5 | 13 |

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| 55 | 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 |
| 56 | 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 |
| 57 | Effect of polymerization on the boson peak, from liquid to glass. Journal of Non-Crystalline Solids, 2011, 357, 530-533. | 3.1 | 12 |
| 58 | Aqueous solvation of amphiphilic molecules by extended depolarized light scattering: the case of trimethylamine-N-oxide. Physical Chemistry Chemical Physics, 2016, 18, 8881-8889. | 2.8 | 11 |
| 59 | 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 |
| 60 | Glass transition of an epoxy resin induced by temperature, pressure and chemical conversion: a rationale based on configurational entropy. Journal of Non-Crystalline Solids, 2002, 307-310, 281-287. | 3.1 | 10 |
| 61 | Configurational and excess entropies in a fragile glass former and their relation with structural relaxation. Philosophical Magazine, 2004, 84, 1521-1527. | 1.6 | 10 |
| 62 | Bond-Induced Ergodicity Breakdown in Reactive Mixtures. Physical Review Letters, 2006, 96, 255702. | 7.8 | 10 |
| 63 | Correlation between Structural Relaxation and Distribution of Particle Clusters in Glass-Forming Epoxyâ^'Amine Mixtures Undergoing Step Polymerization. Macromolecules, 2007, 40, 3450-3460. | 4.8 | 10 |
| 64 | Hydration and rotational diffusion of levoglucosan in aqueous solutions. Journal of Chemical Physics, 2014, 140, 184505. | 3.0 | 10 |
| 65 | Trehalose-induced slowdown of lysozyme hydration dynamics probed by EDLS spectroscopy. Journal of Chemical Physics, 2019, 151, 015101. | 3.0 | 10 |
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| 67 | Temperature and pressure behavior of the structural relaxation time in glass formers. Journal of Non-Crystalline Solids, 2002, 307-310, 264-269. | 3.1 | 9 |
| 68 | The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386. | 4.3 | 9 |
| 69 | Thermoresponsivity of poly(N-isopropylacrylamide) microgels in water-trehalose solution and its relation to protein behavior. Journal of Colloid and Interface Science, 2021, 604, 705-718. | 9.4 | 9 |
| 70 | Clustering, glass transition and gelation in a reactive fluid. Journal of Physics Condensed Matter, 2005, 17, S3557-S3563. | 1.8 | 8 |
| 71 | A simple analysis of Brillouin spectra from opaque liquids and its application to aqueous suspensions of poly-N-isopropylacrylamide microgel particles. Journal of Molecular Liquids, 2018, 266, 460-466. | 4.9 | 8 |
| 72 | A parameter-free description of the kinetics of formation of loop-less branched structures and gels. Soft Matter, 2009, , . | 2.7 | 7 |

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| 73 | 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 | 7 |
| 74 | 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. | 2.9 | 6 |
| 75 | Structural and molecular response in cyclodextrin-based pH-sensitive hydrogels by the joint use of Brillouin, UV Raman and Small Angle Neutron Scattering techniques. Journal of Molecular Liquids, 2018, 271, 738-746. | 4.9 | 6 |
| 76 | Ketoprofen poly(lactide-co-glycolide) physical interaction studied by Brillouin spectroscopy and molecular dynamics simulations. International Journal of Pharmaceutics, 2020, 580, 119235. | 5.2 | 6 |
| 77 | Protein Hydration in a Bioprotecting Mixture. Life, 2021, 11, 995. | 2.4 | 6 |
| 78 | Chaos and thermal conductivity. Physical Review E, 1995, 52, 6881-6884. | 2.1 | 4 |
| 79 | On the interplay between the slowdown of dynamics and the kinetics of aggregation: The case study of a reactive binary mixture. Journal of Chemical Physics, 2015, 142, 154905. | 3.0 | 4 |
| 80 | Exploiting limited valence patchy particles to understand autocatalytic kinetics. Nature Communications, 2018, 9, 2647. | 12.8 | 4 |
| 81 | Impact of the Environment on the PNIPAM Dynamical Transition Probed by Elastic Neutron Scattering. Macromolecules, 0, , . | 4.8 | 3 |
| 82 | Influence of temperature, pressure and connectivity on the dynamics of a glass-forming system investigated by dielectric spectroscopy. Macromolecular Symposia, 2001, 171, 253-264. | 0.7 | 2 |
| 83 | A comparison between acoustic compliance and self-particle susceptibility in associated liquids: The case of water and glycerol. Journal of Molecular Liquids, 2012, 176, 76-78. | 4.9 | 2 |
| 84 | 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 | 2 |
| 85 | The Role Of Configurational Entropy In Chemical Vitrification. AIP Conference Proceedings, 2004, , . | 0.4 | 1 |
| 86 | Physical and chemical vitrification: the role of configurational entropy. Journal of Non-Crystalline Solids, 2004, 345-346, 537-541. | 3.1 | 1 |
| 87 | Non-ergodicity in a locally ordered fragile glass former. Journal of Non-Crystalline Solids, 2006, 352, 4531-4535. | 3.1 | 1 |
| 88 | Comment on â€œDecrease in the configurational entropy during a meltâ€™s polymerizationâ€•[Chem. Phys. 305 (2004) 231]. Chemical Physics, 2006, 323, 622-624. | 1.9 | 1 |
| 89 | Vibrational Properties Of A Reactive Mixture Investigated During A Chemical Vitrification Process. AIP Conference Proceedings, 2010, , . | 0.4 | 1 |
| 90 | Different routes to the glass transition: A comparison between chemical and physical vitrification. , 2012, , . | | 1 |

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| 91 | Hydration Dynamics of Model Peptides with Different Hydrophobic Character. Life, 2022, 12, 572. | 2.4 | 1 |
| 92 | <title>Hopping charge transport in conducting polymers studied by dc conduction and dielectric response analysis</title>. , 1998, 3471, 162. | | 0 |
| 93 | <title>Dielectric and light scattering analysis of the <alpha>-relaxation of an epoxy system</title>. , 1999, , . | | 0 |
| 94 | Configurational entropy and dynamics in chemical vitrification. Philosophical Magazine, 2004, 84, 1529-1536. | 1.6 | 0 |
| 95 | Effect of elastic properties modification on the vibrational density of states: A joint Brillouin and Raman scattering study. Journal of Applied Polymer Science, 2011, 122, 3672-3676. | 2.6 | 0 |
| 96 | Tuning the Fast Dynamics of PNIPAM-Based Systems with Bio-Cosolvents. Proceedings (mdpi), 2019, 26, 19. | 0.2 | 0 |
| 97 | Using Patchy Particles to Shed New Light on the Autocatalytic Aggregation of Soft Matter. Proceedings (mdpi), 2019, 26, . | 0.2 | 0 |