Silvia Corezzi

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Hydration Dynamics of Model Peptides with Different Hydrophobic Character. Life, 2022, 12, 572.	2.4	1
2	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
3	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
4	Protein Hydration in a Bioprotecting Mixture. Life, 2021, 11, 995.	2.4	6
5	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
6	The advanced Virgo longitudinal control system for the O2 observing run. Astroparticle Physics, 2020, 116, 102386.	4.3	9
7	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	886
8	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, .	4.7	394
9	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
10	GW190425: Observation of a Compact Binary Coalescence with Total MassÂâˆ¼Â3.4 M_{âŠ™}. Astrophysical Journal Letters, 2020, 892, L3.	8.3	1,049
11	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
12	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
13	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
14	Properties and Astrophysical Implications of the 150 M_{âŠ™} Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13.	8.3	406
15	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21.	8.3	65
16	Trehalose-induced slowdown of lysozyme hydration dynamics probed by EDLS spectroscopy. Journal of Chemical Physics, 2019, 151, 015101.	3.0	10
17	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
18	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

#	Article	IF	Citations
19	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
20	Tuning the Fast Dynamics of PNIPAM-Based Systems with Bio-Cosolvents. Proceedings (mdpi), 2019, 26, 19.	0.2	0
21	Using Patchy Particles to Shed New Light on the Autocatalytic Aggregation of Soft Matter. Proceedings (mdpi), 2019, 26, .	0.2	0
22	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. Physical Review D, 2019, 99, .	4.7	22
23	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
24	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
25	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
26	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
27	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
28	Exploiting limited valence patchy particles to understand autocatalytic kinetics. Nature Communications, 2018, 9, 2647.	12.8	4
29	High-Performance Versatile Setup for Simultaneous Brillouin-Raman Microspectroscopy. Physical Review X, 2017, 7, .	8.9	44
30	Correlation between collective and molecular dynamics in pH-responsive cyclodextrin-based hydrogels. Physical Chemistry Chemical Physics, 2017, 19, 22555-22563.	2.8	13
31	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
32	Molecular properties of aqueous solutions: a focus on the collective dynamics of hydration water. Soft Matter, 2016, 12, 5501-5514.	2.7	57
33	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
34	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
35	Hydration and aggregation of lysozyme by extended frequency range depolarized light scattering. Journal of Non-Crystalline Solids, 2015, 407, 472-477.	3.1	18
36	Stress effects on the elastic properties of amorphous polymeric materials. Journal of Chemical Physics, 2014, 141, 214901.	3.0	16

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37	Concentration dependence of hydration water in a model peptide. Physical Chemistry Chemical Physics, 2014, 16, 12433.	2.8	15
38	Hydration and rotational diffusion of levoglucosan in aqueous solutions. Journal of Chemical Physics, 2014, 140, 184505.	3.0	10
39	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
40	Stress-Induced Modification of the Boson Peak Scaling Behavior. Journal of Physical Chemistry B, 2013, 117, 14477-14485.	2.6	14
41	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
42	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
43	Chemical and physical aggregation of small-functionality particles. Soft Matter, 2012, 8, 11207.	2.7	28
44	Different routes to the glass transition: A comparison between chemical and physical vitrification. , 2012, , .		1
45	Effect of polymerization on the boson peak, from liquid to glass. Journal of Non-Crystalline Solids, 2011, 357, 530-533.	3.1	12
46	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
47	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
48	Vibrational Properties Of A Reactive Mixture Investigated During A Chemical Vitrification Process. AIP Conference Proceedings, 2010, , .	0.4	1
49	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
50	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
51	Synchrotron-based X-ray fluorescence imaging of human cells labeled with CdSe quantum dots. Analytical Biochemistry, 2009, 388, 33-39.	2.4	73
52	Connecting Irreversible to Reversible Aggregation: Time and Temperature. Journal of Physical Chemistry B, 2009, 113, 1233-1236.	2.6	37
53	A parameter-free description of the kinetics of formation of loop-less branched structures and gels. Soft Matter, 2009, , .	2.7	7
54	A molecular dynamics study of chemical gelation in a patchy particle model. Soft Matter, 2008, 4, 1173.	2.7	42

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55	Cauchy relation in relaxing liquids. Journal of Chemical Physics, 2008, 128, 214502.	3.0	25
56	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
57	Non-ergodicity in a locally ordered fragile glass former. Journal of Non-Crystalline Solids, 2006, 352, 4531-4535.	3.1	1
58	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
59	Bond-Induced Ergodicity Breakdown in Reactive Mixtures. Physical Review Letters, 2006, 96, 255702.	7.8	10
60	Clustering, glass transition and gelation in a reactive fluid. Journal of Physics Condensed Matter, 2005, 17, S3557-S3563.	1.8	8
61	Clustering and Cooperative Dynamics in a Reactive System. Physical Review Letters, 2005, 94, 065702.	7.8	27
62	Ergodic to Nonergodic Transition in Liquids with a Local Order: The Case ofm-Toluidine. Physical Review Letters, 2005, 94, 155702.	7.8	20
63	Slow dynamics of salol: A pressure- and temperature-dependent light scattering study. Physical Review E, 2004, 70, 011504.	2.1	28
64	The Role Of Configurational Entropy In Chemical Vitrification. AIP Conference Proceedings, 2004, , .	0.4	1
65	Can experiments select the configurational component of excess entropy?. European Physical Journal E, 2004, 14, 143-147.	1.6	21
66	Configurational entropy and dynamics in chemical vitrification. Philosophical Magazine, 2004, 84, 1529-1536.	1.6	0
67	Configurational and excess entropies in a fragile glass former and their relation with structural relaxation. Philosophical Magazine, 2004, 84, 1521-1527.	1.6	10
68	Physical and chemical vitrification: the role of configurational entropy. Journal of Non-Crystalline Solids, 2004, 345-346, 537-541.	3.1	1
69	Light Scattering Study of Vitrification during the Polymerization of Model Epoxy Resins. Macromolecules, 2003, 36, 5271-5278.	4.8	25
70	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
71	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
72	Two crossover regions in the dynamics of glass forming epoxy resins. Journal of Chemical Physics, 2002, 117, 2435-2448.	3.0	108

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73	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
74	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
75	Bond-controlled configurational entropy reduction in chemical vitrification. Nature, 2002, 420, 653-656.	27.8	81
76	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
77	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
78	Glass transition of an epoxy resin. A wideband dielectric investigation. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 373-376.	2.9	9
79	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
80	Effect of pressure on the dynamics of glass formers. Physical Review E, 2001, 64, 041504.	2.1	43
81	Pressure dependence of structural relaxation time in terms of the Adam-Gibbs model. Physical Review E, 2001, 63, 031207.	2.1	78
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	Dielectric analysis of the linear polymerization of an epoxy resin. Polymer International, 2001, 50, 545-551.	3.1	39
84	Check of the temperature- and pressure-dependent Cohenâ€“Grest equation. Chemical Physics Letters, 2000, 320, 113-117.	2.6	32
85	Dynamics of a glass-forming triepoxide studied by dielectric spectroscopy. Journal of Physics Condensed Matter, 1999, 11, 10297-10314.	1.8	27
86	Changes in the dynamics of supercooled systems revealed by dielectric spectroscopy. Journal of Chemical Physics, 1999, 111, 9343-9351.	3.0	66
87	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
88	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
89	Influence of temperature and pressure on dielectric relaxation in a supercooled epoxy resin. Physical Review E, 1999, 60, 4444-4452.	2.1	45
90	<title>Dielectric and light scattering analysis of the <alpha>-relaxation of an epoxy system</title>. , 1999, , .		0

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91	Dynamics of epoxies: a full dielectric analysis by wideband spectroscopy. Journal of Non-Crystalline Solids, 1998, 235-237, 576-579.	3.1	22
92	<title>Hopping charge transport in conducting polymers studied by dc conduction and dielectric response analysis</title>. , 1998, 3471, 162.		0
93	Dielectric behaviour versus temperature of a monoepoxide. Journal of Physics Condensed Matter, 1997, 9, 6199-6216.	1.8	38
94	Dielectric parameters to monitor the crosslink of epoxy resins. Journal of Applied Polymer Science, 1997, 65, 17-25.	2.6	43
95	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
96	Chaos and thermal conductivity. Physical Review E, 1995, 52, 6881-6884.	2.1	4
97	Impact of the Environment on the PNIPAM Dynamical Transition Probed by Elastic Neutron Scattering. Macromolecules, 0, , .	4.8	3