Viviana Cristiglio

List of Publications by Year
in descending order

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55 papers	1,052 citations	471509 17 h-index	454955 30 g-index
61 all docs	61 docs citations	61 times ranked	1220 citing authors

#	Article	IF	Citations
1	Application of synchrotron X-ray imaging to the study of directional solidification of aluminium-based alloys. Journal of Crystal Growth, 2005, 275, 201-208.	1.5	90
2	Interplay between non-bridging oxygen, triclusters, and fivefold Al coordination in low silica content calcium aluminosilicate melts. Applied Physics Letters, 2012, 101, .	3.3	87
3	Levitation apparatus for neutron diffraction investigations on high temperature liquids. Review of Scientific Instruments, 2006, 77, 053903.	1.3	70
4	Flexibilities of wavelets as a computational basis set for large-scale electronic structure calculations. Journal of Chemical Physics, 2020, 152, 194110.	3.0	60
5	Aerodynamic levitation and laser heating:. European Physical Journal: Special Topics, 2011, 196, 151-165.	2.6	58
6	In situanalysis of equiaxed growth of aluminiumâ€“nickel alloys by x-ray radiography at ESRF. Journal Physics D: Applied Physics, 2005, 38, A28-A32.	2.8	49
7	Neutron diffraction of calcium aluminosilicate glasses and melts. Journal of Non-Crystalline Solids, 2016, 451, 89-93.	3.1	49
8	The structure of liquid calcium aluminates as investigated using neutron and high energy x-ray diffraction in combination with molecular dynamics simulation methods. Journal of Physics Condensed Matter, 2011, 23, 155101.	1.8	41
9	Claudin-11 Tight Junctions in Myelin Are a Barrier to Diffusion and Lack Strong Adhesive Properties. Biophysical Journal, 2015, 109, 1387-1397.	0.5	36
10	Structures of lanthanum and yttrium aluminosilicate glasses determined by X-ray and neutron diffraction. Journal of Non-Crystalline Solids, 2008, 354, 2038-2044.	3.1	32
11	Bio-based glyco-bolaamphiphile forms a temperature-responsive hydrogel with tunable elastic properties. Soft Matter, 2018, 14, 7859-7872.	2.7	29
12	D16 is back to business: more neutrons, more space, more fun. Neutron News, 2015, 26, 22-24.	0.2	27
13	Assembling Wormlike Micelles in Tubular Nanopores by Tuning Surfactantâ€“Wall Interactions. Journal of the American Chemical Society, 2012, 134, 14756-14759.	13.7	25
14	Ab-initio molecular dynamics simulations of the structure of liquid aluminates. Journal of Non-Crystalline Solids, 2007, 353, 1789-1792.	3.1	24
15	Direct Comparison of Disaccharide Interaction with Lipid Membranes at Reduced Hydrations. Langmuir, 2015, 31, 9134-9141.	3.5	23
16	In situand real-time probing of quasicrystal solidification dynamics by synchrotron imaging. Physical Review E, 2006, 74, 031605.	2.1	17
17	Structure and dynamics of levitated liquid aluminates. Journal of Non-Crystalline Solids, 2007, 353, 1705-1712.	3.1	17
18	Local structure of liquid CaAl2O4 from ab initio molecular dynamics simulations. Journal of Non-Crystalline Solids, 2008, 354, 5337-5339.	3.1	17

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19	Influence of sorbitol on protein crowding in solution and freeze-concentrated phases. Soft Matter, 2014, 10, 4056-4060.	2.7	17
20	Combination of acoustic levitation with small angle scattering techniques and synchrotron radiation circular dichroism. Application to the study of protein solutions. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3693-3699.	2.4	17
21	Short- and intermediate-range order in levitated liquid aluminates. Journal of Physics Condensed Matter, 2007, 19, 455210.	1.8	16
22	Designing a bioremediator: mechanistic models guide cellular and molecular specialization. Current Opinion in Biotechnology, 2020, 62, 98-105.	6.6	16
23	Neutron diffraction study of molten calcium aluminates. Journal of Non-Crystalline Solids, 2010, 356, 2492-2496.	3.1	15
24	Efficient internalization of TAT peptide in zwitterionic DOPC phospholipid membrane revealed by neutron diffraction. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 910-916.	2.6	15
25	Zinc determines dynamical properties and aggregation kinetics of human insulin. Biophysical Journal, 2021, 120, 886-898.	0.5	15
26	Effect of ergosterol on the interlamellar spacing of deuterated yeast phospholipid multilayers. Chemistry and Physics of Lipids, 2020, 227, 104873.	3.2	13
27	Longitudinal excitations in Mgâ€“Alâ€“O refractory oxide melts studied by inelastic x-ray scattering. Journal of Chemical Physics, 2007, 126, 114505.	3.0	12
28	Short range order and Ag diffusion threshold in Ag_x(Ge_{0.25}Se_{0.75})_{100â^'x} glasses. Physica Status Solidi (B): Basic Research, 2012, 249, 2028-2033.	1.5	12
29	Fast X-ray scattering measurements on high temperature levitated liquids. Journal of Non-Crystalline Solids, 2008, 354, 5104-5107.	3.1	11
30	Neutron scattering from myelin revisited: bilayer asymmetry and water-exchange kinetics. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 3198-3211.	2.5	11
31	Mapping Microstructural Dynamics up to the Nanosecond of the Conjugated Polymer P3HT in the Solid State. Chemistry of Materials, 2019, 31, 9635-9651.	6.7	10
32	Biocompatible Glyconanoparticles by Grafting Sophorolipid Monolayers on Monodispersed Iron Oxide Nanoparticles. ACS Applied Bio Materials, 2019, 2, 3095-3107.	4.6	10
33	Structural study of levitated liquid Y2O3 using neutron scattering. Journal of Non-Crystalline Solids, 2007, 353, 993-995.	3.1	9
34	The coordination number calculation from total structure factor measurements. Journal of Non-Crystalline Solids, 2009, 355, 1811-1814.	3.1	8
35	Unveiling the Interstitial Pressure between Growing Ice Crystals during Ice-Templating Using a Lipid Lamellar Probe. Journal of Physical Chemistry Letters, 2020, 11, 1989-1997.	4.6	8
36	Structure and dynamics of levitated liquid materials. Pure and Applied Chemistry, 2007, 79, 1643-1652.	1.9	7

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37	Neutron scattering at high temperature and levitation techniques. Journal of Physics: Conference Series, 2014, 549, 012002.	0.4	7
38	Influence of the Surfactant Tail Length on the Viscosity of Oppositely Charged Polyelectrolyte/Surfactant Complexes. Macromolecules, 2021, 54, 2529-2540.	4.8	7
39	Quantification of Buckminsterfullerene (C60) in non-graphitizing carbon and a microstructural comparison of graphitizing and non-graphitizing carbon via Small Angle Neutron Scattering. Carbon, 2022, 189, 362-368.	10.3	7
40	Magnetic critical scattering in solid Co₈₀Pd₂₀. Journal of Physics Condensed Matter, 2007, 19, 415106.	1.8	6
41	Anesthetics significantly increase the amount of intramembrane water in lipid membranes. Soft Matter, 2020, 16, 9674-9682.	2.7	6
42	Primary and Secondary Hydration Forces between Interdigitated Membranes Composed of Bolaform Microbial Glucolipids. Langmuir, 2020, 36, 2191-2198.	3.5	6
43	Structure of molten yttrium aluminates: a neutron diffraction study. Journal of Physics Condensed Matter, 2007, 19, 415105.	1.8	5
44	The structure of Y- and La-bearing aluminosilicate glasses and melts: A combined molecular dynamics and diffraction study. Chemical Geology, 2017, 461, 23-33.	3.3	5
45	The structure of liquid calcium aluminates as investigated by neutron and high-energy x-ray diffraction in combination with molecular dynamics simulation methods. Journal of Physics Condensed Matter, 2012, 24, 099501.	1.8	4
46	Smallâ€Angle Neutron Scattering Studies of Hemoglobin Confined Inside Silica Tubes of Varying Sizes. ChemPhysChem, 2014, 15, 302-309.	2.1	4
47	Structural properties of molten dilute aluminiumâ€“transition metal alloys. Journal of Physics Condensed Matter, 2006, 18, 6469-6480.	1.8	3
48	Structure factor of liquidn-butanol at room temperature. Journal of Physics: Conference Series, 2014, 549, 012015.	0.4	3
49	Local vibrational and mechanical characterization of Ag conducting chalcogenide glasses. Journal of Alloys and Compounds, 2018, 762, 906-914.	5.5	3
50	Incorporation and structural arrangement of microemulsion droplets in cylindrical pores of mesoporous silica. Molecular Physics, 2021, 119, .	1.7	3
51	Structural Characterization of Natural Yeast Phosphatidylcholine and Bacterial Phosphatidylglycerol Lipid Multilayers by Neutron Diffraction. Frontiers in Chemistry, 2021, 9, 628186.	3.6	2
52	Impact of lyoprotectors on protein-protein separation in the solid state: Neutron- and X-ray-scattering investigation. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130101.	2.4	2
53	Publisher's Note:In situand real-time probing of quasicrystal solidification dynamics by synchrotron imaging [Phys. Rev. E74, 031605 (2006)]. Physical Review E, 2006, 74, .	2.1	1
54	Activating the Surface: A Study on Lipid Chirality, and Its Potential Function for Triggering Interfacial Interaction. Biophysical Journal, 2019, 116, 363a.	0.5	0

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55	Melting transition of oriented Liâ€ÐNA fibers submerged in ethanol solutions. Biopolymers, 2021, 112, e23422.	2.4	0