Alessandro Triolo

List of Publications by Year in Descending Order

118 papers	5,676 citations	36 h-index	74 g-index
126 ext. papers	6,038 ext. citations	3.9 avg, IF	5.64 L-index

#	Paper	IF	Citations
118	Solubility and solvation features of native cyclodextrins in 1-ethyl-3-methylimidazolium acetate. *Carbohydrate Polymers*, **2022**, 119622	10.3	
117	Liquid Structure of a Water-in-Salt Electrolyte with a Remarkably Asymmetric Anion. *Journal of Physical Chemistry B*, **2021**, 125, 12500-12517	3.4	0
116	Structure and vibrational features of the protic ionic liquid 1,8-diazabicyclo[5.4.0]-undec-7-ene-8-ium bis(trifluoromethanesulfonyl)amide, [DBUH][TFSI]. *Journal of Molecular Liquids*, **2021**, 347, 117981	6	1
115	Liquid structure and dynamics in the choline acetate:urea 1:2 deep eutectic solvent. *Journal of Chemical Physics*, **2021**, 154, 244501	3.9	4
114	Liquid structure of a choline chloride-water natural deep eutectic solvent: A molecular dynamics characterization. *Journal of Molecular Liquids*, **2021**, 331, 115750	6	17
113	Non-Ideality in Thymol + Menthol Type V Deep Eutectic Solvents. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 2203-2211	8.3	15
112	Structural Features of □Cyclodextrin Solvation in the Deep Eutectic Solvent, Reline. *Journal of Physical Chemistry B*, **2020**, 124, 2652-2660	3.4	16
111	Structure of anisole derivatives by total neutron and X-ray scattering: Evidences of weak CH?O and CH?□nteractions in the liquid state. *Journal of Molecular Liquids*, **2020**, 314, 113795	6	0
110	Mesoscopic structural organization in fluorinated pyrrolidinium-based room temperature ionic liquids. *Journal of Molecular Liquids*, **2019**, 289, 111110	6	12
109	Microscopic Structural and Dynamic Features in Triphilic Room Temperature Ionic Liquids. *Frontiers in Chemistry*, **2019**, 7, 285	5	17
108	A fast and remote screening method for sub-micro-structuration in pressurized mixtures containing water and carbon dioxide. *Journal of Supercritical Fluids*, **2019**, 152, 104555	4.2	2
107	Structural features of selected protic ionic liquids based on a super-strong base. *Physical Chemistry Chemical Physics*, **2019**, 21, 25369-25378	3.6	4
106	Mesoscopic structural organization in fluorinated room temperature ionic liquids. *Comptes Rendus Chimie*, **2018**, 21, 757-770	2.7	10
105	Mesostructure and physical properties of aqueous mixtures of the ionic liquid 1-ethyl-3-methyl imidazolium octyl sulfate doped with divalent sulfate salts in the liquid and the mesomorphic states. *Physical Chemistry Chemical Physics*, **2018**, 20, 8724-8736	3.6	7
104	Nanoscale organization in the fluorinated room temperature ionic liquid: Tetraethyl ammonium (trifluoromethanesulfonyl)(nonafluorobutylsulfonyl)imide. *Journal of Chemical Physics*, **2018**, 148, 193816	3.9	15
103	Communication: Anion-specific response of mesoscopic organization in ionic liquids upon pressurization. *Journal of Chemical Physics*, **2018**, 148, 211102	3.9	4
102	Emerging Evidences of Mesoscopic-Scale Complexity in Neat Ionic Liquids and Their Mixtures. *Journal of Physical Chemistry Letters*, **2017**, 8, 1197-1204	6.4	66

101	Direct experimental observation of mesoscopic fluorous domains in fluorinated room temperature ionic liquids. *Physical Chemistry Chemical Physics*, **2017**, 19, 13101-13110	3.6	25
100	Mesoscopic organization in ionic liquids. *Topics in Current Chemistry*, **2017**, 375, 58	7.2	22
99	Pressure-Responsive, Surfactant-Free CO-Based Nanostructured Fluids. *ACS Nano*, **2017**, 11, 10774-10784	13.7	12
98	Ionic Liquids and Neutron Scattering. *Experimental Methods in the Physical Sciences*, **2017**, 49, 213-278	0.4	6
97	Liquid structure of dibutyl sulfoxide. *Physical Chemistry Chemical Physics*, **2016**, 18, 15980-7	3.6	8
96	Nature of Mesoscopic Organization in Protic Ionic Liquid-Alcohol Mixtures. *Journal of Physical Chemistry B*, **2016**, 120, 2638-43	3.4	41
95	Structure of a Binary Mixture of Ethylammonium Nitrate and Methanol. *Journal of Solution Chemistry*, **2015**, 44, 669-685	1.8	26
94	Mesoscopic structural and dynamic organization in ionic liquids. *Journal of Molecular Liquids*, **2015**, 210, 161-163	6	20
93	Pressure-responsive mesoscopic structures in room temperature ionic liquids. *Physical Chemistry Chemical Physics*, **2015**, 17, 29496-500	3.6	38
92	Association in ethylammonium nitrate–dimethyl sulfoxide mixtures: First structural and dynamical evidences. *Journal of Non-Crystalline Solids*, **2015**, 407, 333-338	3.9	27
91	Synthesis and Small and Wide Angle X-Ray Scattering Characterization of L-Proline Based Chiral Ionic Liquids. *Current Organic Chemistry*, **2015**, 19, 99-104	1.7	3
90	Structural organization in a methanol:ethylammonium nitrate (1:4) mixture: A joint X-ray/Neutron diffraction and computational study. *Journal of Molecular Liquids*, **2015**, 212, 947-956	6	14
89	Triphilic Ionic-Liquid Mixtures: Fluorinated and Non-fluorinated Aprotic Ionic-Liquid Mixtures. *ChemPhysChem*, **2015**, 16, 3325-33	3.2	79
88	How does lithium nitrate dissolve in a protic ionic liquid?. *Journal of Molecular Liquids*, **2015**, 205, 16-21	6	50
87	Solvation of lithium salts in protic ionic liquids: a molecular dynamics study. *Journal of Physical Chemistry B*, **2014**, 118, 761-70	3.4	74
86	Amphiphile Meets Amphiphile: Beyond the Polar-Apolar Dualism in Ionic Liquid/Alcohol Mixtures. *Journal of Physical Chemistry Letters*, **2014**, 5, 1738-42	6.4	57
85	Structural Organization in Neat Ionic Liquids and in Their Mixtures. *Soft and Biological Matter*, **2014**, 39-61	0.8	10
84	Alkylimidazolium based ionic liquids: impact of cation symmetry on their nanoscale structural organization. *Journal of Physical Chemistry B*, **2013**, 117, 10889-97	3.4	168

83	Nano-segregation in ionic liquids: scorpions and vanishing chains. *Physical Chemistry Chemical Physics*, **2013**, 15, 16256-62	3.6	101
82	Mesoscopic structural organization in triphilic room temperature ionic liquids. *Faraday Discussions*, **2013**, 167, 499-513	3.6	65
81	Physico-chemical properties and nanoscale morphology in N-alkyl-N-methylmorpholinium dicyanamide room temperature ionic liquids. *Journal of Molecular Liquids*, **2013**, 187, 252-259	6	17
80	Comparing intermediate range order for alkyl- vs. ether-substituted cations in ionic liquids. *Chemical Communications*, **2012**, 48, 4959-61	5.8	100
79	The interpretation of diffraction patterns of two prototypical protic ionic liquids: a challenging task for classical molecular dynamics simulations. *Journal of Physical Chemistry B*, **2012**, 116, 13024-32	3.4	59
78	Mesoscopic Structural Heterogeneities in Room-Temperature Ionic Liquids. *Journal of Physical Chemistry Letters*, **2012**, 3, 27-33	6.4	320
77	Liquid structure of 1-ethyl-3-methylimidazolium alkyl sulfates by X-ray scattering and molecular dynamics. *Journal of Physical Chemistry B*, **2012**, 116, 13448-58	3.4	36
76	New experimental evidence supporting the mesoscopic segregation model in room temperature ionic liquids. *Faraday Discussions*, **2012**, 154, 97-109; discussion 189-220, 465-71	3.6	181
75	Effect of cation symmetry on the morphology and physicochemical properties of imidazolium ionic liquids. *Journal of Physical Chemistry B*, **2011**, 115, 6572-84	3.4	149
74	Structural organization and phase behaviour of 1-butyl-3-methylimidazolium hexafluorophosphate: an high pressure Raman spectroscopy study. *Physical Chemistry Chemical Physics*, **2011**, 13, 12067-74	3.6	62
73	Liquid structure of 1-alkyl-3-methylimidazolium-hexafluorophosphates by wide angle x-ray and neutron scattering and molecular dynamics. *Journal of Chemical Physics*, **2011**, 134, 114521	3.9	79
72	Thermal and structural properties of ethylammonium chloride and its mixture with water. *Journal of Physical Chemistry B*, **2011**, 115, 4887-99	3.4	32
71	Structural Determination of Ionic Liquids with Theoretical Methods: C8mimBr and C8mimCl. Strength and Weakness of Current Force Fields. *Journal of Physical Chemistry Letters*, **2010**, 1, 1095-1100	6.4	31
70	Structural properties of 1-alkyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}amide ionic liquids: X-ray diffraction data and molecular dynamics simulations. *Journal of Physical Chemistry B*, **2010**, 114, 16398-407	3.4	92
69	Evidence of repulsive Yukawa tail for copolymer micelles in room temperature ionic liquid. *Soft Matter*, **2010**, 6, 1793	3.6	3
68	Selected chemical-physical properties and structural heterogeneities in 1-ethyl-3-methylimidazolium alkyl-sulfate room temperature ionic liquids. *Chemical Physics Letters*, **2010**, 493, 259-262	2.5	77
67	Temperature dependence of the primary relaxation in 1-hexyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}imide. *Journal of Physical Chemistry B*, **2009**, 113, 8469-74	3.4	73
66	Dendrimer Template Directed Self-Assembly during Zeolite Formation. *Macromolecules*, **2009**, 42, 1239-1243	5.3	18

65	Effect of cation symmetry and alkyl chain length on the structure and intermolecular dynamics of 1,3-dialkylimidazolium bis(trifluoromethanesulfonyl)amide ionic liquids. *Journal of Physical Chemistry B*, **2009**, 113, 6426-33	3.4	187
64	Liquid structure of trihexyltetradecylphosphonium chloride at ambient temperature: an X-ray scattering and simulation study. *Journal of Physical Chemistry B*, **2009**, 113, 9235-40	3.4	84
63	Morphology and intermolecular dynamics of 1-alkyl-3-methylimidazolium bis{(trifluoromethane)sulfonyl}amide ionic liquids: structural and dynamic evidence of nanoscale segregation. *Journal of Physics Condensed Matter*, **2009**, 21, 424121	1.8	210
62	Nanoscale organization in piperidinium-based room temperature ionic liquids. *Journal of Chemical Physics*, **2009**, 130, 164521	3.9	203
61	Fast and Slow Dynamics of Isotactic Polypropylene Melts. *Macromolecules*, **2008**, 41, 1560-1564	5.5	6
60	Local organization of water and its effect on the structural heterogeneities in room-temperature ionic liquid/H2O mixtures. *Journal of Raman Spectroscopy*, **2008**, 39, 233-237	2.3	101
59	Morphology of 1-alkyl-3-methylimidazolium hexafluorophosphate room temperature ionic liquids. *Chemical Physics Letters*, **2008**, 457, 362-365	2.5	284
58	Study on the thermotropic properties of highly fluorinated 1,2,4-oxadiazolylpyridinium salts and their perspective applications as ionic liquid crystals. *Journal of Materials Chemistry*, **2007**, 17, 1201		58
57	Excess thermodynamic properties in mixtures of a representative room-temperature ionic liquid and acetonitrile. *Journal of Physical Chemistry B*, **2007**, 111, 10202-7	3.4	24
56	Nanoscale segregation in room temperature ionic liquids. *Journal of Physical Chemistry B*, **2007**, 111, 4641-4	3.4	1056
55	Thermodynamic study of alkyl-cyclohexanes in liquid, glassy, and crystalline states. *Journal of Chemical Physics*, **2006**, 125, 054514	3.9	24
54	An Improved Algorithm for the Fourier Integral of the KWW Function and Its Application to Neutron Scattering and Dielectric Data. *Journal of Macromolecular Science - Physics*, **2006**, 45, 1065-1081	1.4	9
53	Morphology of poly(ethylene oxide) dissolved in a room temperature ionic liquid: a small angle neutron scattering study. *Journal of Physical Chemistry B*, **2006**, 110, 1513-5	3.4	85
52	Thermodynamics, structure, and dynamics in room temperature ionic liquids: the case of 1-butyl-3-methyl imidazolium hexafluorophosphate ([bmim][PF6]). *Journal of Physical Chemistry B*, **2006**, 110, 21357-64	3.4	171
51	Morphology of hybrid polystyrene-block-poly(ethylene oxide) micelles: analytical ultracentrifugation and SANS studies. *Journal of Colloid and Interface Science*, **2006**, 299, 944-52	9.3	5
50	Relaxation processes in room temperature ionic liquids: the case of 1-butyl-3-methyl imidazolium hexafluorophosphate. *Journal of Physical Chemistry B*, **2005**, 109, 22061-6	3.4	82
49	Going to the limits of NSE. *Physica B: Condensed Matter*, **2005**, 356, 206-212	2.8	4
48	Pressure-induced formation of diblock copolymer "micelles" in supercritical fluids. A combined study by small angle scattering experiments and mean-field theory. I. The critical micellization density concept. *Journal of Chemical Physics*, **2004**, 120, 3489-98	3.9	8

47	Pressure-induced formation of diblock copolymer "micelles" in supercritical fluids. A combined study by small angle scattering experiments and mean-field theory. II. Kinetics of the unimer-aggregate transition. *Journal of Chemical Physics*, **2004**, 120, 3499-507	3.9	5
46	Quasi-Elastic Neutron Scattering Investigation of Dynamics in Polymer Electrolytes. *Macromolecules*, **2004**, 37, 8653-8660	5.5	12
45	A combined small-angle neutron and X-ray scattering study of block copolymers micellisation in supercritical carbon dioxide. *Journal of Applied Crystallography*, **2003**, 36, 660-663	3.8	9
44	Application of Complementary Experimental Techniques to Characterization of the Phase Behavior of [C16mim][PF6] and [C14mim][PF6]. *Chemistry of Materials*, **2003**, 15, 3089-3097	9.6	115
43	Local Dynamics of Polyethylene and Its Oligomers:A Molecular Dynamics Interpretation of the Incoherent Dynamic Structure Factor. *Macromolecules*, **2003**, 36, 8864-8875	5.5	12
42	Effect of tacticity on the local dynamics of polypropylene melts. *Journal of Chemical Physics*, **2003**, 119, 1271-1278	3.9	25
41	Quasielastic neutron scattering characterization of the relaxation processes in a room temperature ionic liquid. *Journal of Chemical Physics*, **2003**, 119, 8549-8557	3.9	111
40	Industrial applications of the aggregation of block copolymers in supercritical CO2: a SANS study. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s1427-s1429	2.6	6
39	SANS studies of solutions and molecular composites prepared from cellulose tricarbanilate. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s472-s474	2.6	1
38	Investigating self-assembly and metal nanoclusters in aqueous di-block copolymers solutions. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s540-s542	2.6	3
37	Wide-angle NSE and TOF: the spectrometer SPAN at BENSC. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s286-s288	2.6	2
36	Characterization of trehalose aqueous solutions by neutron spin echo. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s461-s462	2.6	2
35	Structural investigation of hybrid nanocomposites. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s1430-s1432	2.6	6
34	Segmental dynamics in polymer electrolytes. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s493-s495	2.6	9
33	QENS investigation of filled rubbers. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s490-s492	2.6	11
32	Phase separation in multi-component mixtures: the four-component case. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 304, 299-307	3.3	2
31	Dilute and semi dilute solutions of block copolymers in water, near-critical and super-critical CO2: a small angle scattering study of the monomer aggregate transition. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 304, 135-144	3.3	5
30	Scattering studies of large scale structures at the ultra small angle neutron scattering instrument S18. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 304, 220-229	3.3	7

29	Morphology of solid polymer electrolytes: a TR WAXS investigation. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 304, 129-134	3.3	
28	Structural and dynamical characterization of melt PEO–salt mixtures. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 304, 308-313	3.3	10
27	Early and late stages of demixing of a commercial Al-Li alloy. *Journal of Materials Science*, **2002**, 37, 1207-1213	4.3	3
26	SAXS investigation on aggregation phenomena in supercritical CO2. *European Physical Journal E*, **2002**, 8, 311-4	1.5	21
25	Complex Dynamics in Polyisobutylene Melts. *Macromolecules*, **2002**, 35, 7039-7043	5.5	16
24	Segmental Dynamics of Atactic Polypropylene As Revealed by Molecular Simulations and Quasielastic Neutron Scattering. *Macromolecules*, **2002**, 35, 7110-7124	5.5	34
23	Temperature dependence of the segmental dynamics in polyisobutylene melts. *Journal of Non-Crystalline Solids*, **2002**, 307-310, 654-657	3.9	7
22	Kinetics of block-copolymer aggregation in super critical CO2. *Journal of Non-Crystalline Solids*, **2002**, 307-310, 725-730	3.9	7
21	Wide Angle Neutron Spin Echo and Time-of-Flight Spectrometer. *Lecture Notes in Physics*, **2002**, 35-47	0.8	1
20	Local dynamics of atactic polypropylene across the glass transition. *Physica B: Condensed Matter*, **2001**, 301, 35-43	2.8	17
19	Temperature dependence of local chain dynamics in atactic polypropylene: a neutron spin-echo study. *Physica B: Condensed Matter*, **2001**, 301, 157-162	2.8	9
18	Dynamic heterogeneity in polymer electrolytes. Comparison between QENS data and MD simulations. *Physica B: Condensed Matter*, **2001**, 301, 163-167	2.8	31
17	Anomalous conformational properties of PEO in H2O and D2O by SANS, PCS and Raman scattering. *Journal of Applied Crystallography*, **2000**, 33, 709-713	3.8	9
16	Critical micellisation density: a SAS structural study of the unimer–aggregate transition of block-copolymers in supercritical CO2. *Journal of Applied Crystallography*, **2000**, 33, 641-644	3.8	7
15	Fractal approach in petrology: combining ultra small angle, small angle and intermediate angle neutron scattering. *Journal of Applied Crystallography*, **2000**, 33, 863-866	3.8	14
14	Structure of isotactic polypropylene–hydrogenated oligo(cyclopentadiene) (iPP–HOCP) blends Part II. HOCP-rich blends. *Polymer*, **2000**, 41, 3751-3758	3.9	3
13	Effects of isotopic substitution on the conformational properties of polymeric aqueous solutions. *Physica B: Condensed Matter*, **2000**, 276-278, 332-333	2.8	1
12	QENS from polymer aggregates in supercritical CO2. *Physica B: Condensed Matter*, **2000**, 276-278, 386-387	2.8	4

11	On the nature of morphological features in phase-separated (PEO)nNaSCN mixtures: a SAXS investigation. *Solid State Ionics*, **2000**, 133, 99-106	3.3	4
10	QENS from polymeric micelles in supercritical CO2. *AIP Conference Proceedings*, **2000**,	0	2
9	Structure of diblock copolymers in supercritical carbon dioxide and critical micellization pressure. *Physical Review E*, **2000**, 61, 4640-3	2.4	22
8	Critical micellization density: A small-angle-scattering structural study of the monomer-aggregate transition of block copolymers in supercritical CO2. *Physical Review E*, **2000**, 62, 5839-42	2.4	17
7	A1H and13C Solid State NMR Investigation of the Structure and Molecular Dynamics of Hydrogenated Oligocyclopentadiene. *Journal of Physical Chemistry B*, **2000**, 104, 510-514	3.4	1
6	Critical Micelle Density for the Self-Assembly of Block Copolymer Surfactants in Supercritical Carbon Dioxide. *Langmuir*, **2000**, 16, 416-421	4	48
5	Observation of Local Order in Poly(di-n-alkyl itaconate)s. *Macromolecules*, **2000**, 33, 4989-4991	5.5	54
4	Can the isotopic HleftrightarrowD substitution affect the conformational properties of polymeric aqueous solutions? The poly(ethylene oxide)-water case. *Journal of Physics Condensed Matter*, **1999**, 11, 6079-6098	1.8	12
3	Structure of isotactic polypropylene/ hydrogenated oligo(cyclopentadiene) blends: 1. Polypropylene-rich blends. *Polymer*, **1998**, 39, 1697-1702	3.9	5
2	Combined SANS and SAXS experiments in polyolefins-hydrogenated oligocyclopentadiene (HOCP) blends. *Physica A: Statistical Mechanics and Its Applications*, **1998**, 249, 362-368	3.3	2
1	On the nature of phase separation in a commercial aluminium-lithium alloy. *Journal of Molecular Structure*, **1996**, 383, 277-282	3.4	3