

46. *Direct experimental observation of mesoscopic fluorous domains in fluorinated room temperature ionic liquids.*
(F. Lo celso, Y Yoshida, F. Castiglione, M. Ferro, A.Mele, Ch. J. Jafta, A.Triolo, O. Russina)
PCCP (2017)
45. *Nanostructured solvation in mixtures of protic ionic liquids and long-chained alcohols.*
(H. Montes-Campos, J M Otero-Mato, T. Mendez-Morales, E Lopez-Lago, O. Russina, O. Cabeza, L.J. Gallego, L.M.Varela)
J. Chem.Phys 146 (12) 124503 (2017)
44. *Emerging Evidences of Mesoscopic –scale Complexity in Neat Ionic Liquids and Their Mixtures. .*
(O. Russina, F. Lo Celso, N.V. Plechkova and A. Triolo)
J. Phys. Chem. Lett., 8, 1197-1204 (2017) [Invited Perspective contribution]
43. *Liquid structure of dibutyl sulfoxide.*
(F. Lo Celso, A.Bachir, A.Triolo and O. Russina)
PCCP 18(23), 15980-15987 (2016)
42. *Nature of Mesoscopic Organization in Protic Ionic Liquids – Alcohol Mixtures.*
(W. Schroer, A.Triolo and O.Russina)
J. Phys.Chem.B 120(9), 2638-2643 (2016)
41. *Micro-and-mesoscopic structural features of a bio-based choline-amino acid ionic liquid.*
(O. Russina, S De Santis, L.Gontrani)
RSC Advances 6(41), 34737-34743 (2016)
40. *Pressure responsive mesoscopic structures in room temperature in ionic liquuds.*
(O.Russina, F. Lo Celso, A.Triolo)
PCCP 17(44), 29496-29500 (2015)
39. *Structural organization in a methanol:ethylammonium nitrate (1:4) mixture: a joint x-ray/neutron diffraction and computational study*
(Mariani, A.; Russina, O.; Caminiti, R.; Triolo, A.)
J. Molecular Liquids 212, 947-956 (2015)
38. *Mesoscopic structural and dynamic organization in ionic liqiuds.*
(O.Russina, W. Schroer, A.Triolo)
J. Molecular Lquids 161-163 (2015)
37. *Solvation of molecular cosolvents and inorganic salts in ionic liquids: a review of molecular dynamics simulations*
(Varela, LM.; Mendes-Morales, T.; Carrete, J.; Gomes-Gonzalez, V.; DoCampo-Alvarez, B.; Gallego, LJ.; Cabeza, O.; Russina O.)
J. Molecular Liquids 210, 178-188 (2015)

36. *Triphilic ionic liquid mixtures. Fluorinated and unfluorinated aprotic ionic liquid mixtures.*
(Holloczki O.; Macchiagodena, M.; Weber, H.; Thomas, M.; Brehm, M.; Stark, AG.; Russina, O.; Triolo, A.; Kirchner, B.)
ChemPhysChem **16** (15), 3325-3333 (2015)
35. *How does lithium nitrate dissolve in a protic ionic liquid?*
(O. Russina, A. Sferrazza, R. Caminiti, and A. Triolo)
J. Molecular Liquids **206**, 16 (2015).
34. *Structure of a Binary Mixture of Ethylammonium Nitrate and Methanol*
(O. Russina, A. Mariani, R. Caminiti, and A. Triolo)
J. Solution Chemistry **44**, 669 (2015).
33. *Nanostructure of mixtures of protic ionic liquids and lithium salts: effect of alkyl chain length*
(Mendez-Morales, T.; Carrete, J.; Rodriguez, J. R.; Cabeza, O.; Gallego, L.G.; Russina, O.; Varela, L. M.)
Physical Chemistry Chemical Physics **17**, 5298 (2015).
32. *Association in ethylammonium nitrate-dimethyl sulfoxide mixtures: First structural and dynamical evidences*
(Russina, O.; Macchiagodena, M.; Kirchner, B.; Mariani, A.; Aoun, B.; Caminiti, R.; Triolo, A.)
J. Non-Crystalline Solids **407**, 333 (2015).
31. *Amphiphile Meets Amphiphile: Beyond the Polar-Apolar Dualism in Ionic Liquid/Alcohol Mixtures*
(O. Russina, A. Sferrazza, R. Caminiti, and A. Triolo)
J. Physical Chemistry Letters **5**, 1738 (2014).
30. *Solvation of Lithium Salts in Protic Ionic Liquids: A Molecular Dynamics Study*
(T. Méndez-Morales, J. Carrete, Ó. Cabeza, O. Russina, A. Triolo, L. J. Gallego, and L. M. Varela)
J. Physical Chemistry B **118**, 761 (2014)
29. *Structural Organization in Neat Ionic Liquids and in Their Mixtures.*
(O. Russina, B. Fazio, G. Di Marco, R. Caminiti, and A. Triolo)
In “The Structure of Ionic Liquids”; pgg. 39-62; Ed. Springer, Berlin; Springer International Publishing (2014) ISBN: 3319016970
28. *Mesoscopic structural organization in triphilic room temperature ionic liquids.*
(O. Russina, F. Lo Celso, M. Di Michiel, S. Passerini, G. B. Appeteccchi, F. Castiglione, A. Mele, R. Caminiti, and A. Triolo)
Faraday Discussions **167**, 499 (2013) **Invited Contribution**
27. *Alkylimidazolium Based Ionic Liquids: Impact of Cation Symmetry on their Nanoscale Structural Organization*
(M. A. A. Rocha, C. Neves, M. Freire, O. Russina, A. Triolo, J. A. P. Coutinho, and L. Santos)
J. Physical Chemistry B **117**, 10889 (2013)

26. *Physico-chemical properties and nanoscale morphology in N-alkyl-N-methylmorpholinium dicyanamide room temperature ionic liquids*
(O. Russina, R. Caminiti, A. Triolo, S. Rajamani, B. Melai, A. Bertoli and C. Chiappe)
J. Molecular Liquids **187**, 252 (2013)
25. *NMR Investigation of imidazolium-based ionic liquids and their aqueous mixtures*
(Marincola, FC.; Piras, C.; Russina, O.; Gontrani, L.; Caminiti R.)
ChemPhysChem **13**, 1339 (2012)
24. *Comparing intermediate range order for alkyl- vs. ether-substituted cations in ionic liquids.*
(A. Triolo, O. Russina, R. Caminiti, H. Shirota, H. Y. Lee, C. S. Santos, N. S. Murthy and E. W. Castner)
Chemical Communications **48**, 4959 (2012) [**Invited contribution**]
23. *New experimental evidence supporting the mesoscopic segregation model in room temperature ionic liquids.*
(Russina O. and Triolo A.)
Faraday Discussions **154**, 94 (2012) [**Invited contribution**]
22. *Mesoscopic Structural Heterogeneities in Room-Temperature Ionic Liquids.*
(Russina O, Triolo A. Gontrani L. Caminiti R)
J. Phys. Chem. Lett., **3**, 27 (2012) [**Invited Perspective contribution**]
21. *Crystal Polymorphism of Propylammonium Chloride and Structural Properties of Its Mixture with Water.*
(Migliorati V, Ballirano P; Gontrani L; Russina O.; Caminiti R)
J. Phys. Chem. B **115**, 11805 (2011)
20. *Structural organisation and phase behaviour of 1-butyl-3-methylimidazolium hexafluorophosphate: an high pressure Raman spectroscopy study.*
(Russina O, Fazio B, Schmidt C, Triolo A)
Physical Chemistry Chemical Physics (PCCP) **13**, 12067 (2011)
19. *Effect of cation symmetry on the morphology and physicochemical properties of imidazolium ionic liquids.*
(Zheng W, Mohammed A, Hines L.G, Xiao D, Martienes O.J, Bartsch R.A., Simon S.L, Russina O, Triolo A and Quitevis E.L)
J.Phys.Chem. B **114**, 6572 (2011)
18. *Selected chemical-physical properties and structural heterogeneities in 1-ethyl-3-methylimidazolium alkyl-sulfate room temperature ionic liquids.*
(Russina O., Gontrani L., Fazio B., Lombardo D., Triolo A, Caminiti R)
Chem. Phys. Lett **493**, 259 (2010)

17. *An Energy Dispersive X-ray Scattering and Molecular Dynamics study of liquid dimethyl carbonate.*
(L. Gontrani, O. Russina, F. C. Marincola, R. Caminiti)
J. Phys. Chem. B **131**, 244503 (2009)
16. *Morphology and intermolecular dynamics of 1-alkyl-3-methylimidazolium bis((trifluoromethane)sulfonyl)amide ionic liquids.*
(O. Russina, A. Triolo, L. Gontrani, R. Caminiti, D. Xiao, L. G. Hines, Jr. R. A. Bartsch, E. L. Quitevis, N. Pletchkova, K. R. Seddon)
J. Phys.: Cond. Matt. **21** 424121 (2009)
[Invited Manuscript for the Special Issue on Ionic Liquids]
15. *Liquid structure of trihexyltetradecylphosphonium chloride at ambient temperature: an X-ray scattering and simulation study.*
(L. Gontrani, O. Russina, F. Lo Celso, A. Triolo, G. Annat, R. Caminiti)
J. Phys. Chem. B **113**, 9235 (2009)
14. *Temperature dependence of the primary relaxation in 1-hexyl,3-methylimidazolium bis(trifluoromethanesulfonyl)imide.*
(O. Russina, A. Triolo, M. Beiner, C. Pappas, V. Arrighi, M. Russina, T. Unruh, C. L. Mullan, C. Hardacre)
J. Phys. Chem. B **113**, 8469 (2009)
13. *Effect of cation symmetry and alkyl chain length on the structure and intermolecular dynamics of 1,3-dialkylimidazolium bis(trifluoromethanesulfonyl)imide ionic liquids.*
(D. Xiao, L. G. Hines, S. Li, R. A. Bartsch, E. L. Quitevis, O. Russina, A. Triolo)
J. Phys. Chem. B **113**, 6426 (2009)
12. *Nanoscale organization in piperidinium based room temperature ionic liquids.*
(A. Triolo, O. Russina, B. Fazio, G. B. Appetecchi, M. Carewska, S. Passerini)
J. Chem. Phys. **130**, 164521 (2009)
11. *Morphology of 1-alkyl-3-methylimidazolium hexafluorophosphate room temperature ionic liquids.* (A. Triolo, O. Russina, B. Fazio, R. Triolo, E. Di Cola)
Chemical Physics Letters **457**, 362 (2008)
10. *Nanoscale segregation in room temperature ionic liquids*
(A. Triolo, O. Russina, H.-J. Bleif and E. Di Cola)
Journal of Physical Chemistry B **111**, 4641 (2007) [Journal cover page; 1st ranked in the Most Cited JPCB Papers published in 2007; HOT PAPER in March 2008]
9. *Thermodynamics, structure and dynamics in room temperature ionic liquids: the case of 1- buty-3-methylimidazolium hexafluorophosphate ([bmim][PF₆])*

- (A. Triolo, A. Mandanici, O. Russina, V. Rodriguez-Mora, M. Cutroni, C. Hardacre, M. Nieuwenhuyzen, H.-J. Bleif, L. Keller and M. A. Ramos)
Journal of Physical Chemistry B **110**, 21357-21364 (2006)
8. *Morphology of poly(ethylene oxide) dissolved in a room temperature ionic liquid: a small angle neutron scattering study*
(A. Triolo, O. Russina, U. Keiderling and J. Kohlbrecher)
Journal of Physical Chemistry B **110**, 1513 (2006)
7. *Relaxation processes in room temperature ionic liquids: the case of 1-methyl-3-butyl imidazolium hexafluorophosphate*
(A. Triolo, O. Russina, C. Hardacre, M. Nieuwenhuyzen, M. A. Gonzalez and H. Grimm)
Journal of Physical Chemistry B **109**, 22061 (2005)
6. *Quasi elastic neutron scattering investigation of dynamics in polymer electrolytes*
(O. Russina, A. Triolo, Y. Aihara, M. T. F. Telling and H. Grimm)
Macromolecules **37**, 8653 (2004)
5. *Complex dynamics in Polymer Electrolytes*
(A. Triolo, O. Russina, M. Lanza and H. Grimm)
Notiziario Neutroni e Luce di Sincrotrone **9**, 32 (2004)
4. *Quasi elastic neutron scattering characterization of the relaxation processes in a Room Temperature Ionic Liquid*
(A. Triolo, O. Russina, V. Arrighi, F. Juranyi, S. Janssen and C. M. Gordon)
J. Chem. Phys. **119**, 8549 (2003) also published in the **Virtual Journal of Ultrafast Science** (November 2003 issue)
3. *Dynamic correlations around the glass transition in systems with different degrees of fragility*
(O. Russina, M. Russina, F. Mezei, R. Lechner, J. Pieper, A. Desmedt)
Applied Physics A **74**, 1192 (2002)
2. *Heterogeneous large amplitude atomic motion in supercooled liquids*
(M. Russina, O. Russina, F. Mezei)
Chemical Physics **292**, 325 (2003)
1. *Experimental emulation of Repetition Rate Multiplication, a novel technique for neutron tof- spectroscopy on pulsed sources*
(O. Russina, F. Mezei, M. Russina, R. Lechner, J. Ollivier)
ICANS-XVI Proceedings, May 12-15(2003) Düsseldorf, pgg. 1343-1347