

Curriculum vitae
Carmelo Corsaro

Associate Professor of Experimental Physics of Matter and Applications (PHYS-03/A) at
MIFT Department, University of Messina (Italy)

EDUCATION

- 2019 National Scientific Qualification as Associate Professor in Experimental Physics of Matter (02/B1);
Italian Ministry for Universities and Scientific and Technological Research
- 2018 National Scientific Qualification as Full Professor in Applied Physics (02/D1);
Italian Ministry for Universities and Scientific and Technological Research
- 2013 National Scientific Qualification as Associate Professor in Experimental Physics of Matter (02/B1);
Italian Ministry for Universities and Scientific and Technological Research
- 2013 National Qualification for teaching Mathematics and Physics at high school;
University of Messina
- 2007 Doctor of Philosophy in Physics;
Physics Department, University of Messina;
Rating: Excellent. Dissertation thesis: “Experimental evidence of the Fragile-to-Strong dynamic crossover in supercooled confined water: NMR results”
- 2003 Master degree in Physics;
University of Messina;
Voting: 110 cum laude/110. Thesis title: “Measurements by means of neutron spectroscopy on different organic systems and relative computational approach”.

EMPLOYMENT HISTORY

- 2022 Associate Professor of Experimental Physics
Department of Mathematics, Informatics, Physics and Earth Sciences (MIFT), University of Messina
- 2019 Fixed Time Researcher as Senior Researcher
Department of Mathematics, Informatics, Physics and Earth Sciences (MIFT), University of Messina
- 2018 Fixed Time Researcher as Junior Researcher
Department of Mathematics, Informatics, Physics and Earth Sciences (MIFT), University of Messina
- 2015 Research fellowship in Physics (3 Years)
IPCF-CNR Viale F. Stagno D’Alcontres 37, 98158 Messina
Study of the degradation processes of museum items, marble, metal and paper for the determination of optimal storage conditions
- 2014 Scholarship in Physics
Physics and Earth Sciences Department, University of Messina
Study on self-similar structures: dendrimers as bioprobes
- 2014 Scholarship in Physics
Centro Siciliano di Fisica Nucleare e Struttura della Materia di Catania
Study on the universality of the dynamical crossover
- 2013 Teaching activities in Physics
Ente Regionale per il diritto allo Studio Universitario (ERSU) di Messina
Teaching physics as part of the course to entry to closed graduate courses.
- 2012 Research fellowship in Physics
Physics and Earth Sciences Department, University of Messina
Comparative experimental studies about the characteristics of universality of physical systems towards the dynamic arrest

- 2011 Research fellowship in Physics
Physics Department, University of Messina
Renewal of the previous research fellowship on “Dynamical and structural properties of liquids and complex systems”
- 2010 Research collaboration in Physics
IPCF-CNR Viale F. Stagno D’Alcontres 37, 98158 Messina
Study of the dynamical properties of water and metabolites by means of NMR spectroscopy
- 2007 Research fellowship in Physics
Physics Department, University of Messina
Dynamical and structural properties of liquids and complex systems

HONORS AND AWARDS

- 2018 First best oral communication within the Physics of Matter section, entitled "Thermodynamic thresholds in water/methanol solutions" at the 104° Congresso Nazionale della Società Italiana di Fisica, Arcavacata di Rende (CS, Italy), 17-21 September
- 2010 Young researcher award from the University of Messina for the relevant scientific activity.
- 2007 Cozzarelli Prize by the National Academy of Sciences (USA) for the manuscript entitled “The violation of the Stokes–Einstein relation in supercooled water” PNAS, 103, 12974-12978 (2006) for its outstanding scientific level.

ORAL CONTRIBUTIONS

- 2023 Vispec online #10, 17 February (invited)
- 2019 International school on “Water and Water Systems – Polymers and Soft Materials: Glasses, Gels and Networks”, Directors: Proff. F. Greco and G. Mensitieri, Erice (Italy) 9-16 July (invited)
- 2018 104° Congresso Nazionale della Società Italiana di Fisica, Cosenza (Italy) 17-21 Sept.
- 2018 International school on “Water and Water Systems – The hydrophobic effect”, Erice (Italy) 4–11 July (invited)
- 2017 103° Congresso Nazionale della Società Italiana di Fisica, Trento (Italy) 11-15 Sept.
- 2016 III Course of the ERICE School “NEUTRON SCIENCE AND INSTRUMENTATION” Water and Water Systems, Erice (Italy), 22– 31 July
- 2015 International Workshop on “The Structure and Dynamics of Supercooled Water and Other Glassy Materials”, Palermo (Italy) 10-13 October (invited)
- 2015 FISMAT 2015, Italian National Conference on Condensed Matter Physics. Palermo (Italy) September 28 – October 2
- 2015 National congress “RMN e Salute: Diagnostica e Alimentazione”, Messina (Italy) 17-18 September (invited)
- 2015 International Conference on Applied Physics, Simulation and Computers, Vienna (Austria) 15-17 March (invited)
- 2014 23rd SILAE Congress, Marsala (TP) ITALY, 7-12 September (invited)
- 2013 7th International Discussion Meeting on Relaxation in Complex Systems (IDRCMS), Barcelona (ES), 21-26 July (invited)
- 2013 International School of Physics Enrico Fermi. Varenna (Como, Italy), 7 – 13 July.
- 2012 XCVIII Congresso Nazionale della Società Italiana di Fisica, Napoli (Italy) 17-21 Sept.
- 2010 International School of Physics Enrico Fermi. Varenna (Como, Italy), 29 June – 9 July.
- 2008 Final Workshop of the Arrested Matter Network: “Dynamical Arrest of Soft Matter and Colloids” Taormina (ME), Italy, 22– 26 November (invited)

SCHOOLS & WORKSHOPS ORGANIZATION

- 2022 Member of the organizing committee of the “Condensed Matter Physics World Forum, CondMat-2022”, March 17-19, 2022, Online

- 2019 Member of the organizing committee of “Water and Water Systems – Polymers and Soft Materials: Glasses, Gels and Networks”, Directors: Proff. F. Greco and G. Mensitieri, Erice (Italy) 9-16 July
- 2018 Member of the organizing committee of the International school on “Water and Water Systems – The hydrophobic effect”, Erice (Italy) 4– 11 July
- 2016 Member of the organizing committee of the III Course of the ERICE School “NEUTRON SCIENCE AND INSTRUMENTATION” Water and Water Systems, Directors: R. Car and F. Mallamace, Erice (Italy), 22– 31 July
- 2015 Member of the local committee of the “International Workshop on the Structure and Dynamics of Supercooled Water and Other Glassy Materials”, Palermo (Italy), 10-13 October

LANGUAGES

English Reading: excellent; speaking: good; writing: very good
 Spanish Reading: good; speaking: basic; writing: basic

TEACHING EXPERIENCE

- 2023 Data Analysis at MSc Physics; Device Physics course at BSc Informatics; Physics Experiments at MSc Mathematics ; “Structural and dynamical characterization of complex systems by spectroscopic techniques – MOD.B“ course at PhD in Physics
- 2022 Data Analysis at MSc Physics; Device Physics course at BSc Informatics; Physics Experiments at MSc Mathematics ; “Structural and dynamical characterization of complex systems by spectroscopic techniques – MOD.B“ course at PhD in Physics
- 2021 Data Analysis at MSc Physics; Physics Experiments at MSc Mathematics; “Structural and dynamical characterization of complex systems by spectroscopic techniques – MOD.B“ course at PhD in Physics
- 2020 Physics Experiments at MSc Mathematics; Physics and Biomechanics course at BSc Motor Sciences, Sport and Health; “Statistical Mechanics of non-equilibrium: correlation functions and experimental measurement of the diffusion coefficient course at PhD in Physics.
- 2019 Physics and Biomechanics course at BSc Motor Sciences, Sport and Health; Physics Experiments at MSc Mathematics; “NMR techniques for the study of physical properties of materials” course at PhD in Physics.
- 2018 Physics Experiments at MSc Mathematics; Physics and Biomechanics course at BSc Motor Sciences, Sport and Health.
- 2016 Teaching assistant – General Physics I course at BSc Physics
- 2015 Teaching assistant – General Physics I course at BSc Mathematics
- 2014 Teaching assistant – General Physics I course at BSc Mathematics
- 2013 Teaching assistant – General Physics I course at BSc Mathematics
- 2012 Teaching assistant – General Physics I course at BSc Mathematics
- 2011 Teaching assistant – Physics of Complex Systems course at MSc Physics
- 2010 Teaching assistant – Physics of Complex Systems course at MSc Physics
- 2009 Teaching assistant – Physics of Complex Systems course at MSc Physics
- 2008 Teaching assistant – General Physics I course at BSc Mathematics
- 2007 Teaching assistant – General Physics I course at BSc Mathematics
- 2006 Teaching assistant – General Physics I course at BSc Mathematics

EDITORIAL ACTIVITIES

- Associate Editor of Frontiers in Nutrition, section Nutrition and Food Science Technology.
- Associate Editor of Frontiers in Physics, section Condensed Matter Physics.
- Editorial Board member of "Polymers" (MDPI) – Polymer Physics section
- Editorial Board member of "Molecules" (MDPI) - Physical Chemistry section
- Review Editor in the shared Physical Chemistry Chemical Physics section between Frontiers in Physics and Frontiers in Chemistry

- Guest editor of the Special Issue “Hybrid Compounds Tailoring at the Nanoscale for Biomedical Applications” on Molecules (MDPI), section Materials Chemistry
- Review Editor on the Editorial Board of Condensed Matter Physics (specialty section of Frontiers in Physics)
- Review Editor on the Editorial Board of Physical Chemistry and Chemical Physics (specialty section of Frontiers in Chemistry and Frontiers in Physics)
- Guest Editor of the Special Issue "Molecular Structure and Dynamics Probed by Spectroscopic Techniques and Computational Approaches: New Trends by NMR, FTIR, Neutron Scattering and Simulation" on International Journal of Molecular Sciences (MDPI)
- Guest Editor of the Special Issue "Physical Chemistry of Aqueous Solutions and Glass Forming Systems" on Molecules (MDPI)
- Editorial Board member of International Journal of Physical Research.
- Editorial Board member of World Journal of Condensed Matter Physics.

INSTITUTIONAL COMMITMENTS

- Committee member for the evaluation in the frame of “UNiversity Corridors for REFugees - UNICORE 3.0 (Ethiopia 2021-23)
- Committee member for the evaluation of a scholarship in Physics (03/04/2019)
- Supervisor of some graduate students
- Department reference person for tutoring activities in Physics (02/11/2021 – 13/10/2024)
- Department delegate for tutoring activities (since 14/10/2024)
- Member of the commission “Paritetica Docenti-Studenti” of the MIFT Department of the University of Messina (since 20/09/2019)
- Expert reviewer for 'the National Center of Scientific and Technical Evaluation' JSC (Almaty, Kazakhstan) within the priority area titled "Scientific research in the field of natural sciences" in the field of Physics (since 21/04/2020)
- Assistant in the frame of the Italian evaluation of the research (ANVUR VQR 2015-2019)

MAIN RESEARCH INTERESTS

- ✓ Nanotechnologies and nanosystems
- ✓ Thermodynamic properties of liquids and glass-forming systems
- ✓ Polymers and hybrid materials
- ✓ Thermodynamic properties of water and aqueous systems (confined water, protein hydration water, water in solutions) at different conditions

PROJECTS

- 2024 Co-spoke person of the UniME research unit for the EU Project “ECS4DRES”: Electronic Components and Systems for flexible, coordinated and resilient Distributed Renewable Energy Systems
- 2023 Participant to the MUR Project “Samothrace”: “Sicilian Micro and Nano Technology Research and Innovation Center”
- 2022 Participant to the EU Project GaN for Advanced Power Applications (GAN4AP)
- 2019 Participant within the national project “L’Esperienza prima della partenza (GOFORIT)”, Asse II “Sostegno all’innovazione”, Area di Specializzazione “Cultural Heritage” Avviso n. 1735/Ric del 13 luglio 2017 Codice CUP J66C18000370005
- 2008 Research Projects of National Interest
Scientific coordinator: Ricci Maria Antonietta; Title: “Acqua come solvente per la vita, la tecnologia, le scienze della Terra e la ricerca di base. WALTER”.
- 2004 Research Projects of National Interest
Scientific coordinator: Coniglio Antonio; Title: “Rilassamenti lenti ed Universalità: dalla Materia Soffice ai Materiali Granulari”

BIBLIOMETRIC DATA (at 27/10/2024)

Number of publications: 138 (Scopus);

Number of citations: 4200 (Scopus);

h-index: 36 (Scopus);

PUBLICATIONS (in bold when first and/or corresponding author)

2024 (4)

1. **Corsaro, C.**, Orlando, G.; Costa, G.; Latino, M.; Barreca, F.; Mezzasalma, A.M.; Neri, F.; Fazio, E. Wetting Behavior Driven by Surface Morphology Changes Induced by Picosecond Laser Texturing. *Materials* 17(8) (2024) 1719. <https://doi.org/10.3390/ma17081719>
2. Ben Haj Fraj, S., Agren, S.; El Haskouri, J.; Fazio, E.; Corsaro, C.; Neri, G.; Baouab, M. H. Green synthesis and characterization of trisubstituted imidazole derivatives by an ecofriendly and efficient heterogenous nanocatalyst based on magnetite nanoparticles coated modified nanocellulose. *Journal of Molecular Structure* 13215 (2025) 140137
3. Alaya Y.; Madani M.; Bouguila N.; El Mir L.; Fazio E.; Corsaro C.; Neri G. Conductometric H₂S Sensors Based on TiO₂ Nanoparticles. *Materials* 17 (2024) 3283
4. Akbari Z.; Abid K.; Iannazzo D.; Montazerozohori, M.; Fazio, E.; Neri, F.; Corsaro, C.; Neri, G. Lead ion (Pb²⁺) electrochemical sensors based on novel Schiff base ligands. *Environ. Sci.: Water Res. Technol.* 10 (2024) 2997-3006. DOI 10.1039/d4ew00485j

2023 (7)

5. **Corsaro, C.**, Condorelli, M., Speciale, A., Cimino, F., Forte, G., Barreca, F., Spadaro, S., Muscarà, C., D'Arrigo, M., Toscano, G., D'Urso, L., Compagnini, G., Neri, F., Saija, A., Fazio, E. Nano-Hybrid Ag@LCCs Systems with Potential Wound-Healing Properties. *Materials* 16(6) (2023) 2435
6. Ginzburg, V. V., Fazio, E., **Corsaro, C.** Combined Description of the Equation of State and Diffusion Coefficient of Liquid Water Using a Two-State Sanchez–Lacombe Approach. *Molecules* 28(6) (2023) 2560
7. Spampinato, C., Valastro, S., Smecca, E., Arena, V., Mannino, G., La Magna, A., Corsaro, C., Neri, F., Fazio, E., Alberti, A. Spongy TiO₂ layers deposited by gig-lox sputtering processes: Contact angle measurements. *Journal of Vacuum Science and Technology B* 41(1) (2023) 012802.
8. Zribi, R., Ferlazzo, A., Fazio, E., Condorelli, M., D'Urso, L., Neri, G., Corsaro, C., Neri, F., Compagnini, G., Neri, G. Ag Nanoplates Modified-Screen Printed Carbon Electrode to Improve Electrochemical Performances Toward a Selective H₂O₂ Detection. *IEEE Transactions on Instrumentation and Measurement* 72 (2023) 6002708
9. Vacalebri, M., Frison, R., Corsaro, C., Neri, F., Santoro, A., Conoci, S., Anastasi, E., Curatolo, M. C., Fazio, E. Current State of the Art and Next Generation of Materials for a Customized IntraOcular Lens according to a Patient-Specific Eye Power. *Polymers* 15(6) (2023) 1590
10. Maggiore, E., Corsaro, C., Fazio, E., Mirza, I., Ripamonti, F., Tommasini, M., Ossi, P. M. Laser-Treated Steel Surfaces Gliding on Snow at Different Temperatures. *Materials* 16(8) (2023) 3100
11. Khan, M., Ferlazzo, A., Hussain, M., Fazio, E., Corsaro, C., Mezzasalma, A. M., Neri, G. Ethanol-Gas-Sensing Performances of Built-in ZrO₂/Co₃O₄ Hybrid Nanostructures. *Sensors* 23(23) (2023) 9578

2022 (7)

12. Iraci, N., **Corsaro, C.**, Giofrè, S.V., (...), Cimino, F., Fazio, E. Nanoscale Technologies in the Fight against COVID-19: From Innovative Nanomaterials to Computer-Aided Discovery of Potential Antiviral Plant-Derived Drugs. *Biomolecules* 12(8) (2022) 1060. 10.3390/biom12081060. (2022 IF **6.064**) (Feature paper + cover)
13. Vacalebre, M./ Frison, R., Corsaro, C., Neri, F., Conoci, S., Anastasi, E., Curatolo, M.C., Fazio, E. Advanced Optical Wavefront Technologies to Improve Patient Quality of Vision and Meet Clinical Requests. *Polymers* 14, (23) (2022) 10.3390/polym14235321
14. **Corsaro, C.**, Vasi, S., Neri, F., (...), Neri, G., Fazio, E. NMR in Metabolomics: From Conventional Statistics to Machine Learning and Neural Network Approaches. *Applied Sciences (Switzerland)* 12(6) (2022) 2824. <https://doi.org/10.3390/app12062824> (2022 IF **2.838**)
15. Condorelli, M., Speciale, A., Cimino, F., (...), Neri, F., Saija, A. Nano-Hybrid Au@LCCs Systems Displaying Anti-Inflammatory Activity. *Materials* 15(10) (2022) 20223701. 10.3390/ma15103701. (2022 JIF **3.748**)
16. Zribi, R., Fazio, E., Condorelli, M., (...), Compagnini, G., Neri, G. H₂O₂ electrochemical sensing properties of size-tunable triangular Ag nanoplates. 2022 IEEE International Symposium on Medical Measurements and Applications, MeMeA 2022 - Conference Proceedings.
17. Longo, S., Corsaro, C., Granata, F., Fazio, E. Clinical CT densitometry for wooden cultural heritage analysis validated by FTIR and Raman spectroscopies. *Radiation Physics and Chemistry* 199 (2022) 110376. 10.1016/j.radphyschem.2022.110376. (2022 IF **2.776**)
18. **Corsaro, C.**, Neri, G., Santoro A., Fazio E. Acrylate and Methacrylate Polymers' Applications: Second Life with Inexpensive and Sustainable Recycling Approaches. *Materials* 15(1) (2022) 282. <https://doi.org/10.3390/ma15010282> (2022 IF **3.748**) (Editor's Choice)

2021 (7)

19. **Corsaro, C.**, Fazio, E. From critical point to critical point: The two-states model describes liquid water self-diffusion from 623 to 126 K. *Molecules* 26(19) (2021) 5899. (2020 IF **4.412**)
20. **Corsaro, C.**, Neri, G., Mezzasalma, A.M., Fazio, E. Weibull modeling of controlled drug release from Ag-PMA nanosystems. *Polymers* 13(17) (2021) 2897. (2020 IF **4.329**)
21. **Corsaro, C.**, Sturniolo, A., Fazio, E. Gaussian parameters correlate with the spread of COVID-19 pandemic: The Italian case. *Applied Sciences* 11(13) (2021) 6119. (2020 IF **2.679**)
22. **Corsaro, C.**, Mallamace, D., Neri, G., Fazio, E. Hydrophilicity and hydrophobicity: Key aspects for biomedical and technological purposes. *Physica A: Statistical Mechanics and its Applications* 580 (2021) 126189. (2020 IF **3.263**)
23. Fazio, E.; Spadaro, S.; **Corsaro, C.**; Neri, G.; Leonardi, S.G.; Neri, F.; Lavanya, N.; Sekar, C.; Donato, N.; Neri, G. Metal-Oxide Based Nanomaterials: Synthesis, Characterization and Their Applications in Electrical and Electrochemical Sensors. *Sensors* 21 (2021) 2494. <https://doi.org/10.3390/s21072494> (2020 IF **3.576**)
24. Franco, D.; Calabrese, G.; Petralia, S.; Neri, G.; Corsaro, C.; Forte, L.; Squarzone, S.; Guglielmino, S.; Traina, F.; Fazio, E.; Conoci, S.; Antimicrobial Effect and Cytotoxic Evaluation of Mg Doped Hydroxyapatite Functionalized with Au Nano Rods. *Molecules* 26 (2021) 1099. <https://doi.org/10.3390/molecules26041099> (2020 IF **4.412**)
25. **Corsaro, C.**, Fazio, E., Mallamace, D., Direct Analysis in Foodomics: NMR approaches, in *Comprehensive Foodomics (Reference Module in Food Science)*, edited by Alejandro Cifuentes, Elsevier, 2021. <https://doi.org/10.1016/B978-0-08-100596-5.22802-3>. (Book Chapter)

2020 (5)

26. Neri, G.; **Corsaro, C.**; Fazio, E. Plasmon-Enhanced Controlled Drug Release from Ag-PMA Capsules. *Molecules* 25 (2020) 2267. (2020 IF **4.412**)
27. Fazio, E., **Corsaro, C.**, Mallamace, D. Paper aging and degradation monitoring by the non-destructive two-dimensional micro-Raman mapping. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy* 228 (2020) 117660. (2020 IF **4.098**)
28. Mallamace, D., Corsaro, C., Mallamace, F., Stanley, H.E., Experimental tests for a liquid-liquid critical point in water, *Science China: Physics, Mechanics and Astronomy* 63(12) (2020), 127001. (2020 IF **5.122**)
29. Mallamace, F., Corsaro, C., Mallamace, D., Fazio, E., Chen, S.-H., Cupane, A. Specific heat and transport functions of water. *International Journal of Molecular Sciences* 21(2) (2020) 622. (2020 IF **5.924**)
30. Longo, S., Capuani, S., Corsaro, C., Fazio, E. Silver fir characterized by micro-imaging NMR and FTIR spectroscopy. *IOP Conference Series: Materials Science and Engineering* 777 (2020) 012004.

2019 (12)

31. **Corsaro, C.** Thermodynamic thresholds in water/methanol solutions. *Nuovo Cimento della Societa Italiana di Fisica C* 42(5) (2019) 222
32. Chen S. -H., **Corsaro C.**, Mallamace F., Fazio E., Mallamace D. The proton density of states in confined water (H₂O). *International Journal of Molecular Sciences* 20 (2019) 5373-1-5373-16. doi: 10.3390/ijms20215373 (2019 IF **4.556**)
33. Mallamace, F., **Corsaro, C.**, Mallamace, D., Fazio, E., Chen, S.-H. Some considerations on the water polymorphism and the liquid-liquid transition by the density behavior in the liquid phase. *Journal of Chemical Physics* 151(4) (2019) 044504. (2019 IF **4.226**)
34. Festa G., Mallamace F., Sancesario G.M., **Corsaro C.**, Mallamace D., Fazio E., Arcidiacono L., Sakai V.G., Senesi R., Sancesario G., Andreani C. Aggregation states of A β ₁₋₄₀, A β ₁₋₄₂ and A β _{p3-42} amyloid beta peptides: A SANS study. *International Journal of Molecular Sciences* 20(17) (2019) 4126-1-4126-9. (2019 IF **4.556**)
35. **Corsaro, C.**, Fazio, E., Mallamace, D. *The Stokes-Einstein relation in water/methanol solutions*. *Journal of Chemical Physics* 150(23) (2019) 234506. (2019 IF **2.991**)
36. Mallamace F., Corsaro C., Mallamace D., Chen S.-H., Fratini E., and Baglioni P. *The Boson Peak Interpretation and Evolution in Confined Amorphous Water*. *Sci. China-Phys. Mech. Astron.* 62 (2019) 107004. (2019 IF **4.226**)
37. Andreani C., Corsaro C., Mallamace D., Romanelli G., Senesi R., Mallamace F. *The onset of the tetrabonded structure in liquid water*. *Sci. China-Phys. Mech. Astron.* 62 (2019) 107008. (2019 IF **4.226**)
38. Mallamace D., Chen S.-H., Corsaro C., Fazio E., Mallamace F., Stanley H. E. *Hydrophilic and hydrophobic competition in water-methanol solutions*. *Sci. China-Phys. Mech. Astron.* 62 (2019) 107003. (2019 IF **4.226**)
39. Zhovtobriukh I., Cabral B. J. C., Corsaro C., Mallamace D., Pettersson L. G. M. *Liquid water structure from X-ray absorption and emission, NMR shielding and X-ray diffraction*. *Sci. China-Phys. Mech. Astron.* 62 (2019) 107010. (2019 IF **4.226**)

40. Mallamace F., **Corsaro C.**, Fazio E., Chen S.-H., Mallamace D. *A study of the hydrogen bonds effect on the water density and the liquid-liquid transition*. Sci. China-Phys. Mech. Astron. 62 (2019) 107005. (2019 IF **4.226**)
41. Festa G., Sancesario G., **Corsaro C.**, Longo S., Mallamace D., Fazio E., Arcidiacono L., Sakai V.G., Senesi R., Sancesario G., Mallamace F., Andreani C. SANS study of Amyloid β 1–40: Unfolded monomers in DMSO, multidimensional aggregates in water medium. Physica A: Statistical Mechanics and its Applications 517 (2019) 385-391. (2019 IF **2.924**)
42. Venuti V., Corsaro C., Stancanelli R., Paciaroni A., Crupi V., Tommasini S., Ventura C.A., Majolino D. Analysis of the thermal fluctuations in inclusion complexes of genistein with β -cyclodextrin derivative. Chemical Physics 516 (2019) 125-131. (2019 IF **1.771**)

2018 (6)

43. **Corsaro C.**, Mallamace F., Vasi S., Chen S.-H., Stanley H.E., Mallamace D. *Contrasting microscopic interactions determine the properties of water/methanol solutions*. Frontiers of Physics 13(1) (2018) 138201. (2018 IF **2.483**)
44. Mallamace D., Fazio E., Mallamace F., **Corsaro C.** *The role of hydrogen bonding in the folding/unfolding process of hydrated lysozyme: A review of recent NMR and FTIR results*. International Journal of Molecular Sciences 19(12) (2018) 3825-1-3825-21. (2018 IF **4.183**)
45. Bartos J., **Corsaro C.**, Mallamace D., Svajdlenkova H. and Lukešová, M. *ESR evidence of the dynamic crossover in the supercooled liquid states of a series of solid n – alkanes*. Phys. Chem. Chem. Phys. 20 (2018) 11145-11151. (2018 IF **3.567**)
46. Mallamace D., Vasi S., Missori M., Mallamace F., **Corsaro C.** *NMR investigation of degradation processes of ancient and modern paper at different hydration levels*. Frontiers of Physics 13(1) (2018) 138202. (2018 IF **2.483**)
47. Mallamace D., Longo S., **Corsaro C.** *Proton NMR study of extra Virgin Olive Oil with temperature: Freezing and melting kinetics*. Physica A: Statistical Mechanics and its Applications 499 (2018) 20-27. (2018 IF **2.500**)
48. Mallamace F., **Corsaro C.**, Longo S., Chen S.-H., Mallamace D. *The evaluation of the hydrophilic–hydrophobic interactions and their effect in water–methanol solutions: A study in terms of the thermodynamic state functions in the frame of the transition state theory*. Colloids and Surfaces B: Biointerfaces 168 (2018) 193-200. (2018 IF **3.973**)

2017 (4)

49. Mallamace D., Vasi S., **Corsaro C.**, Naccari C., Clodoveo M. L., Dugo G., Cicero, N. *Calorimetric analysis points out the physical-chemistry of organic olive oils and reveals the geographical origin*. Physica A: Statistical Mechanics and its Applications 486 (2017) 925-932. (2017 IF **2.132**)
50. Mannina L. et al. *NMR Methodologies in Food Analysis* in Analytical Chemistry: Developments, Applications and Challenges in Food Analysis, Chapter: 5, Publisher: NOVA SCIENCE PUBLISHERS, INC., Editors: Marcello Locatelli and Christian Celia (2017) (Book Chapter)
51. Sobolev A.P. et al. *NMR Applications in Food Analysis: Part A* in Analytical Chemistry: Developments, Applications and Challenges in Food Analysis, Chapter: 6, Publisher: NOVA SCIENCE PUBLISHERS, INC., Editors: Marcello Locatelli and Christian Celia (2017) (Book Chapter)
52. Proietti N. et al. *NMR Applications in Food Analysis: Part B* in Analytical Chemistry: Developments, Applications and Challenges in Food Analysis, Chapter: 7, Publisher: NOVA

2016 (14)

53. **Corsaro C.**, Mallamace D., Vasi S., Pietronero L., Mallamace F., Missori M. *The role of water in the degradation process of paper using 1H HR-MAS NMR spectroscopy*. Physical Chemistry Chemical Physics 18 (2016) 33335-33343. (2016 IF **4.123**)
54. Vasi S., **Corsaro C.**, Mallamace D., Mallamace F. *The time dependence dynamics of hydration water changes upon crossing T**. Il Nuovo Cimento C 39, 308 (2016).
55. Mallamace F., **Corsaro C.**, Mallamace D., Vasi S., Stanley H.E. *NMR spectroscopy study of local correlations in water*. Journal of Chemical Physics 145 (2016) 214503 (2016 IF **2.965**)
56. Mallamace D., Vasi S., Missori M., **Corsaro C.** *New insight into hydration and aging mechanisms of paper by the line shape analysis of proton NMR spectra*. Il Nuovo Cimento C 39, 309 (2016).
57. Mallamace F., **Corsaro C.**, Mallamace D., Vasi S., Vasi C., Baglioni P., Buldyrev S.V., Chen S.-H., Stanley H.E. *Energy landscape in protein folding and unfolding*. Proceedings of the National Academy of Sciences, USA 113 (2016) 3159-3163. (2016 IF **9.661**)
58. Mallamace D., Vasi S., **Corsaro C.** *Two dynamical crossovers in protein hydration water revealed by the NMR spin-spin relaxation time*. Il Nuovo Cimento C 39, 306 (2016).
59. **Corsaro C.**, Cicero N., Mallamace D., Vasi S., Naccari C., Salvo A., Giofrè S. V., Dugo G. *HR-MAS and NMR towards Foodomics*. Food Research International 89 (2016) 1085–1094. (2016 IF **3.086**)
60. **Corsaro C.**, Mallamace D., Vasi S., Cicero N., Dugo G., Mallamace F. *The local order of supercooled water in solution with LiCl studied by NMR proton chemical shift*. Il Nuovo Cimento C 39, 301 (2016).
61. Mallamace F., **Corsaro C.**, Mallamace D., Vasi S., Vasi C., Stanley H.E. *Some considerations on the transport properties of water-glycerol suspensions*. Journal of Chemical Physics 144 (2016) 014501. (2016 IF **2.965**)
62. **Corsaro C.**, Mallamace D., Cicero N., Vasi S., Dugo G., Mallamace F. *Dynamics of water clusters in solution with LiCl*. Physica A 442 (2016) 261–267 (2016 IF **2.243**)
63. Rifichi S., D'Angelo G., Crupi C., Branca C., Conti Nibali V., **Corsaro C.**, Wanderlingh U. *Influence of Alcohols on the Lateral Diffusion in Phospholipid Membranes*. Journal of Physical Chemistry B 120(7) (2016) 1285-1290. (2016 IF **3.177**)
64. Vadala R., Mottese A. F., Bua G. D., Salvo A., Mallamace D., **Corsaro C.**, Vasi S., Giofrè S. V., Alfa M., Cicero N., Dugo G. *Statistical Analysis of Mineral Concentration for the Geographic Identification of Garlic Samples from Sicily (Italy), Tunisia and Spain*. FOODS 5(1) (2016) (2018 IF **3.011**)
65. Mallamace, F., **Corsaro, C.**, Mallamace, D., Vasi, C., Vasi, S., Stanley, H.E., *Some considerations on confined water: The thermal behavior of transport properties in water-glycerol and water-methanol mixtures*, MRS Advances 1(26) (2016) 1891-1902
66. Mallamace F., **Corsaro C.**, Mallamace D., Vasi C., Vasi S., Stanley H.E. *Dynamical properties of water-methanol solutions*. Journal of Chemical Physics 144 (2016) 064506. (2016 IF **2.965**)

2015 (11)

67. Mallamace F., **Corsaro C.**, Mallamace D., Wang Z., Chen S.-H. *The Boson peak in confined water: An experimental investigation of the liquid-liquid phase transition hypothesis*. Front. Of Phys. 10(5) (2015) 106103 (2015 IF **2.462**)
68. Mallamace F., **Corsaro C.**, Mallamace D., Chen S.-H. *The fragile-to-strong dynamical crossover and the system viscoelasticity in attractive glass forming colloids*. Colloid and Polymer Science 293(11) (2015) 3337. (2015 IF **1.890**)

69. Mallamace F., **Corsaro C.**, Mallamace D., Cicero N., Vasi S., Dugo G., Stanley H.E. *Dynamical changes in hydration water accompanying lysozyme thermal denaturation*. Front. Of Phys. 10(5) (2015) 106104. (2015 IF **2.462**)
70. Mallamace F., **Corsaro C.**, Mallamace, D., Dugo, G. *NMR studies of water*. In “Water: Fundamentals as the Basis for Understanding the Environment and Promoting Technology” Vol. 187 (2015) pp. 223-242. (Book Chapter)
71. Cicero N., **Corsaro C.**, Salvo A., Vasi S., Giofr  S. V., Ferrantelli V., Di Stefano V., Mallamace D., Dugo G. *The metabolic profile of lemon juice by proton HR-MAS NMR: the case of the PGI Interdonato Lemon of Messina*. Natural Product Research 29 (2015) 1894-1902. (2015 IF **1.057**)
72. Mallamace F., **Corsaro C.**, Mallamace D., Vasi C., Cicero N., Stanley H.E. *Water and lysozyme: Some results from the bending and stretching vibrational modes*. Front. Of Phys. 10(5) (2015) 106105. (2015 IF **2.462**)
73. Mallamace F., **Corsaro C.**, Mallamace D., Vasi S., Vasi C., Stanley, H Eugene; Chen, Sow-Hsin *Some thermodynamical aspects of protein hydration water*. Journal of Chemical Physics 142 (2015) 215103. (2015 IF **2.894**)
74. **Corsaro C.**, Mallamace D., Vasi S., Ferrantelli V., Dugo G., and Cicero N. *¹H HR-MAS NMR Spectroscopy and the Metabolite Determination of Typical Foods in Mediterranean Diet*. Journal of Analytical Methods in Chemistry 2015 (2015) 175696. (2015 IF **1.369**)
75. Mallamace F., **Corsaro C.**, Mallamace D., Vasi S., Vasi C., Dugo G. *The role of water in protein's behavior: The two dynamical crossovers studied by NMR and FTIR techniques*. Computational and Structural Biotechnology Journal 13 (2015) 33–37. (2017 IF **4.148**)
76. Mallamace F., **Corsaro C.**, Vasi C., Vasi S., Mallamace D., Chen S.-H. *The dynamical fragile-to-strong crossover in attractive colloidal systems*. Journal of Non-Crystalline Solids 407 (2015) 355–360. (2015 IF **1.825**)
77. Dugo G., Rotondo A., Mallamace D., Cicero N., Salvo A., Rotondo E., **Corsaro C.** *Enhanced detection of aldehydes in Extra-Virgin Olive Oil by means of band selective NMR spectroscopy*. Physica A 420 (2015) 258-264. (2015 IF **1.785**)

2014 (8)

78. Mallamace F., **Corsaro C.**, Mallamace D., Vasi S., Vasi C., Stanley H.E. *Thermodynamic properties of bulk and confined water*. Journal of Chemical Physics 141 (2014) 18C504. (2014 IF **2.952**)
79. Mallamace F., Baglioni P., **Corsaro C.**, Chen S.-H., Mallamace D., Vasi C., Stanley H.E. *The influence of water on protein properties*. Journal of Chemical Physics 141 (2014) 165104. (2014 IF **2.952**)
80. Mallamace D., **Corsaro C.**, Vasi C., Vasi S., Dugo G., Mallamace F. *The protein irreversible denaturation studied by means of the bending vibrational mode*. Physica A 412 (2014) 39-44. (2014 IF **1.732**)
81. Rifici S., **Corsaro C.**, Crupi C., Nibali V.C., Branca C., D'Angelo G., Wanderlingh U. *Lipid Diffusion in Alcoholic Environment*. Journal of Physical Chemistry B 118 (2014) 9349-9355. (2014 IF **3.302**)
82. Mallamace F., **Corsaro C.**, Vasi C. *On some experimental reasons for an inhomogeneous structure of ambient water on the nanometer length scale* in “Perspectives and Challenges in Statistical Physics and Complex Systems for the Next Decade” (2014) pp. 107-125. (Book Chapter)
83. Mallamace D., **Corsaro C.**, Salvo A., Cicero N., Macaluso A., Giangrosso G., Ferrantelli V., Dugo G. *A multivariate statistical analysis coming from the NMR metabolic profile of cherry tomatoes (The Sicilian Pachino case)*. Physica A 401 (2014) 112–117. (2014 IF **1.732**)
84. Mallamace F., **Corsaro C.**, Leone N., Villari V., Micali N., S.H. Chen. *On the ergodicity of supercooled molecular glass-forming liquids at the dynamical arrest: the o-terphenyl case*. Scientific Reports 4 (2014) 3747. (2014 IF **5.578**)

85. **Corsaro C.**, Mallamace D., Dugo G. *A quantitative 1H HR-MAS study of the metabolic profile of the PGI cherry tomato of pachino* in “Nuclear Magnetic Resonance (NMR): Theory, Applications and Technology” (2014) pp. 163-178. (Book Chapter)

2013 (10)

86. Cappello T., Mauceri A., **Corsaro C.**, Maisano M., Parrino V., Lo Paro G., Messina G., Fasulo S. *Impact of environmental pollution on caged mussels *Mytilus galloprovincialis* using NMR-based metabolomics*. Marine Pollution Bulletin 77 (2013) 132-139. (2013 IF **2.793**)
87. Mallamace F., **Corsaro C.**, Stanley H.E., Mallamace D., S.H. Chen. *The dynamical crossover in attractive colloidal systems*. The Journal of Chemical Physics 139 (2013) 214502. (2013 IF **3.122**)
88. **Corsaro C.**, Mallamace D., Lojewski J., Mallamace F., Pietronero L., Missori M. *Molecular degradation of ancient documents revealed by H-1 HR-MAS NMR spectroscopy*. Scientific Reports 3 (2013) 2896. Doi: 10.1038/srep02896 (2013 IF **5.078**)
89. Torre A., Trischitta F., **Corsaro C.**, Mallamace D., Faggio C. *Digestive cells from *Mytilus galloprovincialis* show a partial regulatory volume decrease following acute hypotonic stress through mechanisms involving inorganic ions*. Cell Biochemistry and Function 31 (2013) 489-495. (2013 IF **2.134**)
90. Mallamace F., **Corsaro C.**, Stanley H.E. *Possible relation of water structural relaxation to water anomalies*. Proceedings of the National Academy of Sciences of the United States of America 110 (2013) 4899-4904. (2013 IF **9.809**)
91. **Corsaro C.**, Maisano R., Mallamace D., Dugo G. *H-1 NMR study of water/methanol solutions as a function of temperature and concentration*. Physica A 392 (2013) 596-601. (2013 IF **1.722**)
92. Mallamace F., **Corsaro C.**, Mallamace D., Vasi C., Stanley H.E. *The thermodynamical response functions and the origin of the anomalous behavior of liquid water*. Faraday Discussions 167 (2013) 95-108. (2013 IF **4.194**)
93. Mallamace F., **Corsaro C.**, Micali N., Villari V., Leone N., S.H. Chen. *The fragile to strong dynamical crossover in supercooled liquids. The o-terphenyl case and its ergodicity at the dynamical arrest*. AIP Conference Proceedings 1518 (2013) 67-76.
94. Mallamace F., **Corsaro C.**, Chen S.-H., Stanley H.E. *Transport and dynamics in supercooled confined water*. Advances in Chemical Physics 152 (2013) 203-262. (Book Chapter)
95. Mallamace F., **Corsaro C.**, Mallamace D., Stanley H.E., Chen S.-H. *Water and biological macromolecules*. Advances in Chemical Physics 152 (2013) 263-308. (Book Chapter)

2012 (7)

96. Mallamace F., **Corsaro C.**, Stanley H.E. *A singular thermodynamically consistent temperature at the origin of the anomalous behavior of liquid water*. Scientific Reports 2 (2012) 993. (2012 IF **2.927**)
97. Fasulo S., Iacono F., Cappello T., **Corsaro C.**, Maisano M., D'Agata A., Giannetto A., De Domenico E., Parrino V., Lo Paro G., Mauceri A. *Metabolomic investigation of *Mytilus galloprovincialis* (Lamarck 1819) caged in aquatic environments*. Ecotoxicology and Environmental Safety 84 (2012) 139-146. (2012 IF **2.203**)
98. Mallamace F., **Corsaro C.**, Baglioni P., Fratini E., Chen S.-H. *The dynamical crossover phenomenon in bulk water, confined water and protein hydration water*. Journal Of Physics-Condensed Matter 24 (2012) 064103. (2012 IF **2.355**)
99. Turton D.A., **Corsaro C.**, Martin D.F., Mallamace F., Wynne K. *The dynamic crossover in water does not require bulk water*. Physical Chemistry Chemical Physics 14 (2012) 8067-8073. (2012 IF **3.829**)

100. Villari V., Micali N., Mineo P., Scamporrino E., **Corsaro, C.** *Aggregation of porphyrin-based cyclic supramolecular architectures*. Proceedings of the International School of Physics "Enrico Fermi" 176 (2012) 361-369. (Book Chapter)
101. **Corsaro C.**, Spooren J., Leone N., Mallamace D., Baglioni P., Mallamace F. *The kinetics of the folding/unfolding process of hydrated lysozyme studied by nuclear magnetic resonance*. Proceedings of the International School of Physics "Enrico Fermi" 176 (2012) 325-333. (Book Chapter)
102. Villari V., Fazio B., Micali N., De Luca G., **Corsaro, C.**, Romeo A., Sclaro L.M., Castriciano M.A., Mazzaglia A. *Light scattering enhancement in porphyrin Nanocomposites*. Proceedings of the International School of Physics "Enrico Fermi" 176 (2012) 335-340. (Book Chapter)

2011 (8)

103. Mallamace F., **Corsaro C.**, Mallamace D., Baglioni P., Stanley H.E., Chen S.-H. *A Possible Role of Water in the Protein Folding Process*. Journal Of Physical Chemistry B 115 (2011) 14280-14294. (2011 IF **3.696**)
104. Mallamace F., **Corsaro C.**, Stanley H.E., Chen S.-H. *The role of the dynamic crossover temperature and the arrest in glass-forming fluid*. European Physical Journal E 34 (2011) 94. (2011 IF **1.944**)
105. **Corsaro C.**, Mallamace D. *A Nuclear Magnetic Resonance study of the reversible denaturation of hydrated lysozyme*. Physica A: Statistical Mechanics and its Applications 390 (2011) 2904-2908. (2011 IF **1.373**)
106. Mallamace F., **Corsaro C.**, Chen S.-H., Stanley H.E. *Reply to elmatad: Supercooled viscous liquids display a fragile-to-strong dynamic crossover*. Proceedings of the National Academy of Sciences of the United States of America 107 (2011) 22457-22462. (2011 IF **9.681**)
107. Clementi A., Aversa M.C., **Corsaro C.**, Spooren J., Stancanelli R., O'Connor C., McNamara M., Mazzaglia A. *Synthesis and characterization of a colloidal novel folic acid-beta-cyclodextrin conjugate for targeted drug delivery*. Journal of Inclusion Phenomena and Macrocyclic Chemistry 69 (2011) 321-325. (2011 IF **1.886**)
108. Mallamace F., Branca C., **Corsaro C.**, Spooren J., Chen S.-H., Stanley H.E. *Thermodynamical properties of glass forming systems: A Nuclear Magnetic Resonance analysis*. Journal of Non-Crystalline Solids 357 (2011) 286-292. (2011 IF **1.537**)
109. Turton D.A., **Corsaro C.**, Candelaresi M., Brownlie A., Seddon K.R., Mallamace F., Wynne K. *The structure and terahertz dynamics of water confined in nanoscale pools in salt solutions*. Faraday Discussions 150 (2011) 493-504. (2011 IF **5.000**)
110. Mallamace F., Baglioni P., **Corsaro C.**, Spooren J., Stanley H.E., Chen S.-H. *Transport properties of supercooled confined water*. Rivista del Nuovo Cimento 34 (2011) 253-388. (2011 IF **2.579**)

2010 (3)

111. Mallamace F., Branca C., **Corsaro C.**, Leone N., Spooren J., Chen S.-H., Stanley H.E. *Transport properties of glass-forming liquids suggest that dynamic crossover temperature is as important as the glass transition temperature*. Proceedings of the National Academy of Sciences of the United States of America 107 (2010) 22457-22462. (2010 IF **9.771**)
112. Mallamace F., Branca C., **Corsaro C.**, Leone N., Spooren J., Stanley Eugene H., Chen S.-H. *Dynamical crossover and breakdown of the stokes-einstein relation in confined water and in methanol-diluted bulk water*. Journal of Physical Chemistry B 114 (2010) 1870-1878. (2010 IF **3.603**)

113. Wanderlingh U., D'Angelo G., Conti Nibali V., Crupi C., Rifici S., **Corsaro C.**, Sabatino G. *Interaction of alcohol with phospholipid membrane: NMR and XRD investigations on DPPC-hexanol system*. Spectroscopy 24 (2010) 375-380. (2010 IF **0.932**)

2008 (6)

114. Mallamace F., **Corsaro C.**, Broccio M., Branca C., Gonzalez-Segredo N., Spooren J., Chen S.-H., Stanley H.E. *NMR evidence of a sharp change in a measure of local order in deeply supercooled confined water*. Proceedings of the National Academy of Sciences of the United States of America 105 (2008) 12725-12729. (2008 IF **9.380**)
115. **Corsaro C.**, Spooren J., Branca C., Leone N., Broccio M., Kim C., Chen S.-H., Stanley H.E., Mallamace F. *Clustering dynamics in water/methanol mixtures: A nuclear magnetic resonance study at $205\text{ K} < T < 295\text{ K}$* . Journal of Physical Chemistry B 112 (2008) 10449-10454. (2008 IF **4.189**)
116. Mallamace F., Branca C., Broccio M., **Corsaro C.**, Gonzalez-Segredo N., Spooren J., Stanley H.E., Chen S.-H. *Transport properties of supercooled confined water*. European Physical Journal: Special Topics 161 (2008) 19-33. (2008 IF **0.689**)
117. Telling M.T.F., **Corsaro C.**, Wanderlingh U.N., Middendorf H.D. *Low-temperature dynamics of hydrated peptides*. Chemical Physics 345 (2008) 245-249. (2008 IF **1.961**)
118. Majolino D., **Corsaro C.**, Crupi V., Venuti V., Wanderlingh U. *Water diffusion in nanoporous glass: An NMR study at different hydration levels*. Journal of Physical Chemistry B 112 (2008) 3927-3930. (2008 IF **4.189**)
119. D'angelo G., Wanderlingh U., Nibali V.C., Crupi C., **Corsaro C.**, Di Marco G. *Physical study of dynamics in fully hydrated phospholipid bilayers*. Philosophical Magazine 88 (2008) 4033-4046. (2008 IF **1.384**)

2007 (3)

120. Mallamace F., Branca C., Broccio M., **Corsaro C.**, Mou C.-Y., Chen S.-H. *The anomalous behavior of the density of water in the range $30\text{ K} < T < 373\text{ K}$* . Proceedings of the National Academy of Sciences of the United States of America 104 (2007) 18387-18391. (2007 IF **9.598**)
121. Mallamace F., Chen S.-H., Broccio M., **Corsaro C.**, Crupi V., Majolino D., Venuti V., Baglioni P., Fratini E., Vannucci C., Stanley H.E. *Role of the solvent in the dynamical transitions of proteins: The case of the lysozyme-water system*. Journal of Chemical Physics 127 (2007) 45104. Doi: 10.1063/1.2757171 (2007 IF **3.044**)
122. Mallamace F., Broccio M., **Corsaro C.**, Faraone A., Majolino D., Venuti V., Liu L., Mou C.-Y., Chen S.-H. *Evidence of the existence of the low-density liquid phase in supercooled, confined water*. Proceedings of the National Academy of Sciences of the United States of America 104 (2007) 424-428. (2007 IF **9.598**)

2006 (5)

123. Mallamace F., Broccio M., **Corsaro C.**, Faraone A., Liu L., Mou C.-Y., Chen S.-H. *Dynamical properties of confined supercooled water: An NMR study*. Journal of Physics Condensed Matter 18 (2006) S2285-S2297. (2006 IF **2.038**)
124. Chen S.-H., Mallamace F., Mou C.-Y., Broccio M., Corsaro C., Faraone A., Liu L. *The violation of the Stokes-Einstein relation in supercooled water*. Proceedings of the National Academy of Sciences of the United States of America 103 (2006) 12974-12978. (2006 IF **9.643**)
125. Mallamace F., Broccio M., Corsaro C., Faraone A., Wanderlingh U., Liu L., Mou C.-Y., Chen S.H. *The fragile-to-strong dynamic crossover transition in confined water: Nuclear magnetic resonance results*. Journal of Chemical Physics 124 (2006) 161102. (2006 IF **3.166**)

126. **Corsaro C.**, Crupi V., Majolino D., Parker S.F., Venuti V., Wanderlingh U. *Inelastic neutron scattering study of water in hydrated LTA-type zeolites*. Journal of Physical Chemistry A 110 (2006) 1190-1195. (2006 IF **3.047**)
127. **Corsaro C.**, Crupi V., Majolino D., Migliardo P., Venuti V., Wanderlingh U., Mizota T., Telling M. *Diffusive dynamics of water in ion-exchanged zeolites*. Molecular Physics 104 (2006) 587-598. (2006 IF **1.690**)

2005 (2)

128. **Corsaro C.**, Crupi V., Longo F., Majolino D., Venuti V., Wanderlingh U. *Mobility of water in Linde type A synthetic zeolites: An inelastic neutron scattering study*. Journal of Physics Condensed Matter 17 (2005) 7925-7934. (2005 IF **2.145**)
129. **Corsaro C.**, Crupi V., Longo F., Majolino D., Venuti V., Wanderlingh U. *Elastic neutron scattering study of water dynamics in ion-exchanged type- A zeolites*. Physical Review E - Statistical, Nonlinear, and Soft Matter Physics 72 (2005) 61504. (2005 IF **2.418**)

2004 (3)

130. **Corsaro C.**, Parker S.F. *Vibrational spectroscopy of maleimide*. Physica B: Condensed Matter 350 (2004) e591-e593. (2004 IF **0.679**)
131. Renou J.-P., Foucat L., **Corsaro C.**, Ollivier J., Zanotti J.-M., Middendorf H.D. *Dynamics of collagen from bovine connective tissues* Physica B: Condensed Matter 350 (2004) e631-e633. (2004 IF **0.679**)
132. Branca C., **Corsaro C.**, Frusteri F., Magazu V., Mangione A., Migliardo F., Wanderlingh U. *Structural and vibrational properties of carbon nanotubes by TEM and infrared spectroscopy*. Diamond and Related Materials 13 (2004) 1249-1253. (2004 IF **1.670**)

2003 (1)

133. Wanderlingh U.N., **Corsaro C.**, Hayward R.L., Bee M., Middendorf H.D. *Proton mobilities in crambin and glutathione S-transferase*. Chemical Physics 292 (2003) 445. (2003 IF **2.070**)