

Dr Giacomo Prando

List of Publications (last update: 4th June, 2023)

Bibliometrics

Publications in peer-reviewed journals	42 Among these: 1 on <i>Nature Chemistry</i> , 1 on <i>Nature Communications</i> , 1 on <i>Nano Letters</i> , 4 on <i>Physical Review Letters</i> and 23 on <i>Physical Review B</i> . I am first author in 19 papers.
Books	1 (Ph. D. Thesis)
Other publications	30 Among these: 27 single-author contributions on <i>Nature Nanotechnology</i> and <i>Nature Physics</i> .

Citations	687 (Web of Science)	h index	17 (Web of Science)
	706 (Scopus)		18 (Scopus)

Publications in peer-reviewed journals

- PP2. **G. Prando**, E. Piatti, D. Daghero, R. S. Gonnelli, P. Carretta, “*Spatially textured charge-density wave in hydrogen-intercalated TiSe₂*” (2023 – submitted).
- P1. E. Piatti, **G. Prando**, M. Meinero, C. Tresca, M. Putti, S. Roddaro, G. Lamura, T. Shiroka, P. Carretta, G. Profeta, D. Daghero, R. S. Gonnelli, “*Superconductivity induced by gate-driven hydrogen intercalation in the charge-density-wave compound 1T-TiSe₂*”, *arXiv:2205.12951* (2022 – preprint).
- P42. J. Perego, C. X. Beuzidenhout, S. Bracco, S. Piva, **G. Prando**, C. Aloisi, P. Carretta, J. Kaleta, T. P. Le, P. Sozzani, A. Daolio, A. Comotti, “*Benchmark dynamics of dipolar molecular rotors in fluorinated metal-organic frameworks*”, *Angewandte Chemie International Edition* **62**, e202215893 (2023).
- P41. P. Bonfà, J. Frassinetti, J. M. Wilkinson, **G. Prando**, M. M. Isah, C. Wang, T. Spina, B. Joseph, V. Mitrović, R. De Renzi, S. J. Blundell, S. Sanna, “*Entanglement between muon and $I > \frac{1}{2}$ nuclear spins as a probe of charge environment*”, *Physical Review Letters* **129**, 097205 (2022).
- P40. **G. Prando**, D. Torsello, S. Sanna, M. J. Graf, S. Pyon, T. Tamegai, P. Carretta, G. Ghigo, “*Complex vortex-antivortex dynamics in the magnetic superconductor EuFe₂(As_{0.7}P_{0.3})₂*”, *Physical Review B* **105**, 224504 (2022).
- P39. J. Perego, C. X. Beuzidenhout, S. Bracco, **G. Prando**, L. Marchiò, M. Negroni, P. Carretta, P. Sozzani, A. Comotti, “*Cascade dynamics of multiple molecular rotors in a MOF: benchmark mobility at a few Kelvins and dynamics control by CO₂*”, *Journal of the American Chemical Society* **143**, 13082 (2021).
- P38. R. Hussain, **G. Prando**, S. Selter, S. Aswartham, B. Büchner, P. Carretta, “*Magnetically induced local lattice anomalies and low-frequency fluctuations in the Mott insulator La₂O₃Fe₂Se₂*”, *Physical Review B* **103**, L081105 (2021).
- P37. **G. Prando**, J. Perego, M. Negroni, M. Riccò, S. Bracco, A. Comotti, P. Sozzani, P. Carretta, “*Molecular rotors in a metal-organic framework: muons on a hyper-fast carousel*”, *Nano Letters* **20**, 7613 (2020).
- P36. J. Perego, S. Bracco, M. Negroni, C. Beuzidenhout, **G. Prando**, P. Carretta, A. Comotti, P. Sozzani, “*Fast motion of molecular rotors in metal-organic framework struts at very low temperatures*”, *Nature Chemistry* **12**, 845 (2020).
- P35. **G. Prando**, P. Telang, S. D. Wilson, M. J. Graf, S. Singh, “*Monopole-limited nucleation of magnetism in Eu₂Ir₂O₇*”, *Physical Review B* **101**, 174435 (2020).
- P34. P. Carretta, **G. Prando**, “*Iron-based superconductors: tales from the nuclei*”, *La Rivista del Nuovo Cimento* **43**, 1 (2020).

- P33.** M. Moroni, **G. Prando**, S. Aswartham, I. Morozov, Z. Bukowski, B. Büchner, H.-J. Grafe, P. Carretta, “Charge and nematic orders in AFe_2As_2 ($A = Rb, Cs$) superconductors”, *Physical Review B* **99**, 235147 (2019).
- P32.** P. Telang, K. Mishra, **G. Prando**, A. K. Sood, S. Singh, “Anomalous lattice contraction and emergent electronic phases in Bi-doped $Eu_2Ir_2O_7$ ”, *Physical Review B* **99**, 201112(R) (2019).
- P31.** S. Sanna, P. Carretta, M. Moroni, **G. Prando**, P. Bonfà, G. Allodi, R. De Renzi, A. Martinelli, “Fast recovery of the pristine magnetic and structural phases in superconducting $LaFeAsO_{0.89}F_{0.11}$ by Mn/Fe substitution”, *Journal of Physics: Condensed Matter* **31**, 174002 (2019).
- P30.** S. Sanna, **G. Prando**, R. Khasanov, P. Carretta, A. Amato, H. Luetkens, M. Putti, A. Martinelli, R. De Renzi, “Effect of the external pressure at the crossover between magnetism and superconductivity in $LnFeAsO_{1-x}F_x$ ($Ln = La_{0.7}Y_{0.3}, Ce$) superconductors”, *International Journal of Modern Physics B* **32**, 1840018 (2018, proceedings of the “International Conference on Electron Correlation in Superconductors in Nanostructures – ECSN”).
- P29.** R. Kappenberger, F. Hammerath, P. Rousse, M. A. Afrassa, M. H. Haghghi, S. Kamusella, **G. Prando**, G. Lamura, A. Wolter, M. Moroni, S. Sanna, P. Carretta, C. Hess, H. Grafe, H. Klauss, S. Wurmehl, B. Büchner, “Impact of concomitant Y and Mn substitution on superconductivity in $La_{1-y}Y_yFe_{1-x}Mn_xAsO_{0.89}F_{0.11}$ ”, *Physical Review B* **97**, 054522 (2018).
- P28.** K. Karmakar, M. Skoulatos, **G. Prando**, B. Roessli, U. Stuhr, F. Hammerath, C. Rüegg, S. Singh, “Effects of Quantum Spin-1/2 Impurities on the Magnetic Properties of Zigzag Spin Chains”, *Physical Review Letters* **118**, 107201 (2017).
- P27.** **G. Prando**, A. Alfonsov, A. Pal, V. P. S. Awana, B. Büchner, and V. Kataev, “Tuning the magnetocrystalline anisotropy in RCoPO by means of R substitution: A ferromagnetic resonance study”, *Physical Review B* **94**, 024412 (2016).
- P26.** **G. Prando**, R. Dally, W. Schottenhamel, Z. Guguchia, S.-H. Baek, R. Aeschlimann, A. U. B. Wolter, S. D. Wilson, B. Büchner, M. J. Graf, “Influence of hydrostatic pressure on the bulk magnetic properties of $Eu_2Ir_2O_7$ ”, *Physical Review B* **93**, 104422 (2016).
- P25.** Z. Guguchia, A. Amato, J. Kang, H. Luetkens, P. K. Biswas, **G. Prando**, F. von Rohr, Z. Bukowski, A. Shengelaya, H. Keller, E. Morenzoni, R. Fernandes, R. Khasanov, “Direct evidence for a pressure induced nodal superconducting gap in the iron-based superconductor $Ba_{0.65}Rb_{0.35}Fe_2As_2$ ”, *Nature Communications* **6**, 8863 (2015).
- P24.** **G. Prando**, G. Profeta, A. Continenza, R. Khasanov, A. Pal, V. P. S. Awana, B. Büchner, S. Sanna, “Common effect of chemical and external pressures on the magnetic properties of RCoPO ($R = La, Pr, Nd, Sm$). II.”, *Physical Review B* **92**, 144414 (2015).
- P23.** **G. Prando**, Th. Hartmann, W. Schottenhamel, Z. Guguchia, S. Sanna, F. Ahn, I. Nekrasov, C. G. F. Blum, A. U. B. Wolter, S. Wurmehl, R. Khasanov, I. Eremin, B. Büchner, “Mutual independence of critical temperature and superfluid density under pressure in optimally electron-doped superconducting $LaFeAsO_{1-x}F_x$ ”, *Physical Review Letters* **114**, 247004 (2015).
- P22.** **G. Prando**, S. Sanna, R. Khasanov, A. Pal, E. M. Brüning, M. Mazzani, V. P. S. Awana, B. Büchner, R. De Renzi, “Effect of external pressure on the magnetic properties of RCoAsO ($R = La, Pr, Sm$): a μ SR study”, *Journal of Physics and Chemistry of Solids* **84**, 63 (2015).
- P21.** **G. Prando**, P. Carretta, A. U. B. Wolter, R. Saint-Martin, A. Revcolevschi, B. Büchner, “Amorphous ferromagnetism and re-entrant magnetic glassiness in single-crystalline $Sm_2Mo_2O_7$ ”, *Physical Review B* **90**, 085111 (2014).
- P20.** F. Hammerath, P. Bonfà, S. Sanna, **G. Prando**, R. De Renzi, Y. Kobayashi, M. Sato, P. Carretta, “Poisoning effect of Mn in $LaFe_{1-x}Mn_xAsO_{0.89}F_{0.11}$: unveiling a quantum critical point in the phase diagram of iron-based superconductors”, *Physical Review B* **89**, 134503 (2014).
- P19.** P. Carretta, R. De Renzi, **G. Prando**, S. Sanna, “A view from inside iron-based superconductors”, *Physica Scripta* **88**, 068504 (2013).
- P18.** **G. Prando**, R. Giraud, S. Aswartham, O. Vakaliuk, M. Abdel-Hafiez, C. Hess, S. Wurmehl, A. U. B. Wolter, B. Büchner, “Evidence for a vortex-glass transition in superconducting $Ba(Fe_{0.9}Co_{0.1})_2As_2$ ”, *Journal of Physics: Condensed Matter* **25**, 505701 (2013).

- P17.** G. Prando, O. Vakaliuk, S. Sanna, G. Lamura, T. Shiroka, P. Bonfà, P. Carretta, R. De Renzi, H.-H. Klauss, C. G. F. Blum, S. Wurmehl, C. Hess, B. Büchner, “Role of in-plane and out-of-plane dilution in CeFeAsO: Charge doping versus disorder”, *Physical Review B* **87**, 174519 (2013).
- P16.** S. Sanna, P. Carretta, R. De Renzi, G. Prando, P. Bonfà, M. Mazzani, G. Lamura, T. Shiroka, Y. Kobayashi, M. Sato, “Onset of magnetism in optimally electron-doped $LaFe_{1-x}Ru_xAsO_{1-y}F_y$ ($L = La, Nd$ or Sm) superconductors around $x = 1/4$ ”, *Physical Review B* **87**, 134518 (2013).
- P15.** G. Prando, S. Sanna, G. Lamura, T. Shiroka, M. Tropeano, A. Palenzona, H.-J. Grafe, B. Büchner, P. Carretta, R. De Renzi, “Phase separation at the magnetic-superconducting transition in $La_{0.7}Y_{0.3}FeAsO_{1-x}F_x$ ”, *Physica Status Solidi B* **250**, 599 (2013).
- P14.** G. Prando, P. Bonfà, G. Profeta, R. Khasanov, F. Bernardini, M. Mazzani, E. M. Brüning, A. Pal, V. P. S. Awana, H.-J. Grafe, B. Büchner, R. De Renzi, P. Carretta, S. Sanna, “Common effect of chemical and external pressures on the magnetic properties of RECoPO ($RE = La, Pr$)”, *Physical Review B* **87**, 064401 (2013).
- P13.** R. De Renzi, P. Bonfà, M. Mazzani, S. Sanna, G. Prando, P. Carretta, R. Khasanov, A. Amato, H. Luetkens, M. Bendele, A. Palenzona, M. Tropeano, M. Vignolo, “Effect of external pressure on the magnetic properties of LnFeAsO ($Ln = La, Ce, Pr, Sm$)”, *Superconductor Science and Technology* **25**, 084009 (2012).
- P12.** G. Prando, P. Carretta, R. De Renzi, S. Sanna, H.-J. Grafe, S. Wurmehl, B. Büchner, “AC susceptibility investigation of vortex dynamics in nearly-optimally doped REFeAsO $_{1-x}F_x$ superconductors ($RE = La, Ce, Sm$)”, *Physical Review B* **85**, 144522 (2012).
- P11.** P. Bonfà, P. Carretta, S. Sanna, G. Lamura, G. Prando, A. Martinelli, A. Palenzona, M. Tropeano, M. Putti, R. De Renzi, “Magnetic properties of spin diluted iron pnictides from μ SR and NMR in $LaFe_{1-x}Ru_xAsO$ ”, *Physical Review B* **85**, 054518 (2012).
- P10.** T. Shiroka, G. Lamura, S. Sanna, G. Prando, R. De Renzi, M. Tropeano, M. R. Cimberle, A. Martinelli, C. Bernini, A. Palenzona, R. Fittipaldi, A. Vecchione, P. Carretta, A. S. Siri, C. Ferdeghini, M. Putti, “Long- to short-range magnetic order in fluorine-doped CeFeAsO”, *Physical Review B* **84**, 195123 (2011).
- P9.** S. Sanna, P. Carretta, P. Bonfà, G. Prando, G. Allodi, R. De Renzi, T. Shiroka, G. Lamura, A. Martinelli, M. Putti, “Correlated trends of coexisting magnetism and superconductivity in optimally electron-doped oxy-pnictides”, *Physical Review Letters* **107**, 227003 (2011).
- P8.** R. Khasanov, S. Sanna, G. Prando, Z. Shermadini, M. Bendele, A. Amato, P. Carretta, R. De Renzi, J. Karpinski, S. Katrych, H. Luetkens, N.D. Zhigadlo, “Tuning of competing magnetic and superconducting phase volumes in $LaFeAsO_{0.945}F_{0.055}$ by hydrostatic pressure”, *Physical Review B* **84**, 100501(R) (2011).
- P7.** G. Prando, A. Lascialfari, A. Rigamonti, L. Romanò, S. Sanna, M. Putti, M. Tropeano, “Superconducting phase fluctuations in $SmFeAsO_{0.8}F_{0.2}$ from diamagnetism at low magnetic field above T_c ”, *Physical Review B* **84**, 064507 (2011).
- P6.** P. Carretta, G. Prando, S. Sanna, R. De Renzi, C. Decorse, P. Berthet, “Evidence for impurity-induced frustration in La_2CuO_4 ”, *Physical Review B* **83**, 180411(R) (2011).
- P5.** G. Prando, P. Carretta, R. De Renzi, S. Sanna, A. Palenzona, M. Putti, M. Tropeano, “Vortex dynamics and irreversibility line in optimally doped $SmFeAsO_{0.8}F_{0.2}$ from ac susceptibility and magnetization measurements”, *Physical Review B* **83**, 174514 (2011).
- P4.** G. Prando, P. Carretta, A. Lascialfari, A. Rigamonti, S. Sanna, L. Romanò, A. Palenzona, M. Putti, M. Tropeano, “Investigation of fluctuating diamagnetism and spin dynamics in $SmFeAsO_{1-x}F_x$ superconductors”, *Advances in Science and Technology* **75**, 141 (2010, proceedings of the “CIMTEC 2010” conference).
- P3.** S. Sanna, R. De Renzi, T. Shiroka, G. Lamura, G. Prando, P. Carretta, M. Putti, A. Martinelli, R. Cimberle, M. Tropeano, A. Palenzona, “Nanoscale coexistence of magnetic and superconducting states within the FeAs layers of $CeFeAsO_{1-x}F_x$ ”, *Physical Review B* **82**, 060508(R) (2010).

- P2.** G. Prando, P. Carretta, A. Rigamonti, S. Sanna, A. Palenzona, M. Putti, M. Tropeano, “¹⁹F NMR study of the coupling between 4f and itinerant electrons in the pnictide superconductors SmFeAsO_{1-x}F_x (0.15 ≤ x ≤ 0.2)”, *Physical Review B* **81**, 100508(R) (2010).
- P1.** G. Prando, P. Carretta, S. R. Giblin, J. Lago, S. Pin, P. Ghigna, “Dilution effects in Ho_{2-x}Y_xSn₂O₇: from the Spin Ice to the single-ion magnet”, *Journal of Physics: Conference Series* **145**, 012033 (2009, proceedings of the “Highly Frustrated Magnetism HFM 2008” conference).

Books

- B1.** G. Prando, “Phase Diagrams of REFeAsO_{1-x}F_x Materials. Macroscopic and Nanoscopic Experimental Investigation” (Ph. D. Thesis), Aracne Editrice (Roma, 2013).

Other publications

- O30.** P. Carretta, G. Prando, “High Temperature Superconductors”, *Encyclopedia of Materials: Electronics* **1**, 554 (2023).
- O29.** G. Prando, “A spectral unit”, *Nature Physics* **16**, 888 (2020).
- O28.** G. Prando, “Science and style”, *Nature Nanotechnology* **13**, 352 (2018).
- O27.** G. Prando, “Spin caloritronics: Spin Nernst effect”, *Nature Nanotechnology* **12**, 1115 (2017).
- O26.** G. Prando, “Scanning tunnelling microscopy: Orbital ordering mapped”, *Nature Nanotechnology* **12**, 1019 (2017).
- O25.** G. Prando, “Spin qubits: Germanium-vacancy defects join the family”, *Nature Nanotechnology* **12**, 942 (2017).
- O24.** G. Prando, “Spin currents: The utility of incoherence”, *Nature Nanotechnology* **12**, 936 (2017).
- O23.** G. Prando, “Nitrogen-vacancy centres: Remote coherent control”, *Nature Nanotechnology* **12**, 836 (2017).
- O22.** G. Prando, “Ferroelectric materials: Walls and memory”, *Nature Nanotechnology* **12**, 724 (2017).
- O21.** G. Prando, “Carbon nanostructures: Graphene-packed fullerene”, *Nature Nanotechnology* **12**, 613 (2017).
- O20.** G. Prando, “Water remediation: A steam nanogenerator”, *Nature Nanotechnology* **12**, 506 (2017).
- O19.** G. Prando, “Neuromorphic computation: Lowering dimensions”, *Nature Nanotechnology* **12**, 499 (2017).
- O18.** G. Prando, “Nitrogen-vacancy centres: Driven by the environment”, *Nature Nanotechnology* **12**, 499 (2017).
- O17.** G. Prando, “Magnetic vortices: Quenched pairs”, *Nature Nanotechnology* **12**, 286 (2017).
- O16.** G. Prando, “Van der Waals heterostructures: The natural way”, *Nature Nanotechnology* **12**, 191 (2017).
- O15.** G. Prando, “Spin caloritronics: Bulk isn’t everything”, *Nature Nanotechnology* **12**, 186 (2017).
- O14.** G. Prando, “Antiferromagnetic spintronics: Improving memory”, *Nature Nanotechnology* **12**, 99 (2017).
- O13.** G. Prando, “Quantum computation: Towards on-chip qubits”, *Nature Nanotechnology* **12**, 6 (2017).
- O12.** G. Prando, “Quantum computation: Qubits in a row”, *Nature Nanotechnology* **12**, 2 (2017).
- O11.** G. Prando, “Neuromorphic computation: Clever analog memristors”, *Nature Nanotechnology* **11**, 1001 (2016).
- O10.** L. Venema, B. Verberck, I. Georgescu, G. Prando, E. Couderc, S. Milana, M. Maragkou, L. Persechini, G. Paccioni, L. Fleet, “The quasiparticle zoo”, *Nature Physics* **12**, 1085 (2016).
- O9.** G. Prando, “Van der Waals heterostructures: On-chip single photons”, *Nature Nanotechnology* **11**, 918 (2016).

08. G. Prando, "Complex oxide interfaces: Long correlated paths", *Nature Nanotechnology* **11**, 841 (2016).
07. G. Prando, "van der Waals heterostructures: Photo-thermionic effect", *Nature Nanotechnology* **11**, 736 (2016).
06. G. Prando, "Neuromorphic nanodevices: Rivalling biology", *Nature Nanotechnology* **11**, 654 (2016).
05. G. Prando, "Graphene: Chiral Andreev Hall modes", *Nature Nanotechnology* **11**, 578 (2016).
04. G. Prando, "Graphene spintronics: Rashba or not Rashba?", *Nature Nanotechnology* **11**, 492 (2016).
03. G. Prando, "Water treatment: Submarine microbots", *Nature Nanotechnology* **11**, 403 (2016).
02. G. Prando, "Spin caloritronics: Néel meets Seebeck", *Nature Nanotechnology* **11**, 308 (2016).
01. G. Prando, "Distribuzioni statistiche a legge di potenza nella natura, nell'economia e nella società" ("Power-law statistical distributions in nature, economics and society"), *Istituto Lombardo (Rend. Scienze)* **144**, 215 (2010).

Dr Giacomo Prando

Conferences/Workshops/Seminars (last update: 4th June, 2023)

Invited talks at conferences and workshops	6	Invited talks and seminars in Universities	8	Contributed talks at conferences and workshops	21
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Invited talks at conferences and workshops

- It6. June 2023** International conference “Superstripes 2023” – Ischia, Italy. Talk “Coexisting superconductivity and charge-density wave in hydrogen-intercalated TiSe_2 ”.
- It5. April 2018** International conference “6th International Conference on Superconductivity and Magnetism – ICSM2018” – Antalya, Turkey. Talk “Fe- and Co-based oxypnictides: Structural tuning of electronic ground states”.
- It4. March 2015** Workshop “3rd ERC Symposium QuantumPuzzle” – Vienna University of Technology, Wien, Austria. Talk “ μ^+ SR under pressure: investigations of magnetism and superconductivity in iron-based pnictides”.
- It3. June 2014** Workshop “Itinerant Magnetism and Superconductivity - IMS 2014” – Dresden, Germany. Talk “Chemical dilutions, external and chemical pressures. Electronic phase diagrams of 1111 oxy-pnictides investigated by means of μ^+ SR”.
- It2. October 2013** Workshop “Hot Topics in HTSC: Fe-Based Superconductors” – Zvenigorod, Moscow, Russia. Talk “Electronic phase diagrams of 1111 oxy-pnictides investigated by means of muon spin spectroscopy”.
- It1. October 2011** Workshop “Highlights in Condensed Matter Physics - Superconductivity and Magnetism” – Università degli Studi di Pavia, Pavia, Italy. Talk “NMR, μ^+ SR and AC susceptibility in Fe-based superconductors”.

Invited talks and seminars in Universities

- Is8. January 2017** “Interplay between structural effects and electronic ground states in Fe-based oxypnictides and pyrochlore iridates”, Dipartimento di Fisica, Università degli studi di Pavia.
- Is7. September 2016** “Electronic phase diagrams of iron-based spin-ladders”, Leibniz-IFW, Dresden.
- Is6. March 2015** “Exotic electronic properties of iridium oxides driven by strong spin-orbit coupling”, Laboratoire de Physique des Solides, Orsay - Paris 11 University.
- Is5. January 2015** “Recent μ^+ SR studies of frustrated metallic pyrochlores and pnictide superconductors”, Technische Universität, Dresden.
- Is4. November 2014** “Electronic phase diagrams of 1111 oxy-pnictides investigated by μ^+ SR”, Laboratoire de Physique des Solides, Orsay - Paris 11 University.
- Is3. March 2011** “Phase diagram of RE1111 oxy-pnictides: insights into SDW and SC phases by means of NMR, μ SR and AC susceptibility measurements”, Leibniz-IFW, Dresden.
- Is2. March 2011** “Phase diagram of RE1111 oxy-pnictides: insights into SDW and SC phases by means of NMR, μ SR and AC susceptibility measurements”, Laboratoire de Physique des Solides, Orsay - Paris 11 University.
- Is1. November 2010** “Distribuzioni statistiche a legge di potenza nella natura, nell'economia e nella società” (“Power-law distributions in nature, economics and society”) at Istituto Lombardo – Accademia di Scienze e Lettere, Milano.

Contributed talks at conferences and workshops

- Ct21. September 2023** International workshop “Magnetic Resonance of Correlated Electron Materials” – Dresden, Germany. Talk “Spatially-textured charge-density wave phase in hydrogen-intercalated 1T-TiSe₂”.
- Ct20. September 2023** International conference “CMD 30 – FisMat 2023” – Milano, Italy. Talk “Spatially-textured charge-density wave phase in hydrogen-intercalated 1T-TiSe₂”.
- Ct19. August 2022** International conference “MuSR 2020 – 15th International Conference on Muon Spin Rotation, Relaxation and Resonance” – Parma, Italy. Talk “Ultrafast molecular rotors in metal-organic frameworks: a combined ¹H-NMR and μ SR study”.
- Ct18. February 2020** International conference “SuperFOx 2020 – Conference on Superconductivity and Functional Oxides” – Santa Margherita Ligure, Italy. Talk “Influence of hydrostatic pressure and of Eu/Bi substitution on the magnetic properties of Eu₂Ir₂O₇”.
- Ct17. October 2019** National conference “Italian National Conference on Condensed Matter Physics (FisMat 2019)” – University of Catania, Italy. Talk “Influence of hydrostatic pressure and of Eu/Bi substitution on the magnetic properties of Eu₂Ir₂O₇”.
- Ct16. June 2019** International conference “Spectroscopies in Novel Superconductors” – University of Tokyo, Japan. Talk “Hints of orbital-selectivity and charge-order in AFe₂As₂ (A = Cs, Rb) iron-based superconductors by means of ⁷⁵As nuclear quadrupole resonance”.
- Ct15. June 2019** Workshop “Research Frontier of Advanced Spectroscopies for Correlated Electron Systems” – Tohoku University, Sendai, Japan. Talk “Tuning the Magnetocrystalline Anisotropy in RCoPO by Means of R Substitution: A Ferromagnetic Resonance Study”.
- Ct14. October 2015** National conference “Italian National Conference on Condensed Matter Physics (FisMat 2015)” – University of Palermo, Italy. Talk “Mutual independence of T_c and superfluid density under pressure in optimally-doped LaFeAsO_{1-x}F_x”.
- Ct13. June 2014** International conference “13th International Conference on Muon Spin Rotation, Relaxation and Resonance (μ SR2014)” – Grindelwald, Switzerland. Talk “Electronic Phase Diagrams of 1111 Oxy-Pnictides Upon Charge Doping and External Pressure”.
- Ct12. April 2014** International conference “4th International Conference on Superconductivity and Magnetism - ICSM2014” – Antalya, Turkey. Talk “Electronic Phase Diagrams of 1111 Oxy-Pnictides Investigated by Means of μ^+ SR”.
- Ct11. March 2014** International Conference “DPG Spring Meeting 2014” – Dresden, Germany. Talk “Effects of hydrostatic pressure on the superconducting properties of LaFeAsO_{1-x}F_x”.
- Ct10. March 2014** International Conference “DPG Spring Meeting 2014” – Dresden, Germany. Talk “Ac susceptibility investigation of vortex dynamics in nearly-optimally doped Ba(Fe_{1-x}Co_x)₂As₂”.
- Ct9. March 2013** International Conference “DPG Spring Meeting 2013” – Regensburg, Germany. Talk “Chemical and external pressures in ReFeAsO (Re = La, Ce, Pr, Sm) and ReCoPO (Re = La, Pr) by means of μ^+ spin spectroscopy”.
- Ct8. March 2013** International Conference “DPG Spring Meeting 2013” – Regensburg, Germany. Talk “Ac susceptibility investigation of vortex dynamics in nearly-optimally doped ReFeAsO_{1-x}F_x (Re = La, Ce, Sm) and Ba(Fe_{1-x}Co_x)₂As₂ superconductors”.
- Ct7. September 2012** International Conference “JEMS 2012 – Joint European Magnetic Symposia” – Parma, Italy. Talk “Pressure effect on the magnetic and superconducting properties of REFeAsO_{1-x}F_x (RE = Sm, Ce, La)”.
- Ct6. June 2012** International Conference “SuperFOx 2012 – First Conference on Superconductivity and Functional Oxides” – Politecnico di Milano, Como, Italy. Talk “Ac susceptibility investigation of vortex dynamics in nearly-optimally doped REFeAsO_{1-x}F_x (RE = La, Ce, Sm) and Ba(Fe_{1-x}Co_x)₂As₂ superconductors”.

- Ct5. May 2011** International Conference “MuSR2011 – 12th International Conference on Muon Spin Rotation, Relaxation and Resonance” – Cancun, Mexico. Talk “Evolution of magnetic phases in REFeAsO oxypnictides under external pressure and isovalent substitution”.
- Ct4. February 2011** National Conference “Magnet11 – II Convegno Nazionale di Magnetismo” – Torino, Italy. Talk “Evolution of magnetic phases in REFeAsO oxypnictides under external pressure and diamagnetic substitution”.
- Ct3. September 2010** National Conference of the Italian Physics Society – University of Bologna, Italy. Talk “On the microscopic magnetic properties of superconducting $\text{SmFeAsO}_{1-x}\text{F}_x$ ”.
- Ct2. September 2010** National Conference “SATT 15 – Conferenza Nazionale di Superconduttività” – Alghero, Italy. Talk “On the microscopic magnetic properties of superconducting $\text{SmFeAsO}_{1-x}\text{F}_x$ ”.
- Ct1. June 2010** International conference “CIMTEC 2010 - 5 Forum on New Materials” – Montecatini Terme, Italy. Talk “On the microscopic magnetic properties of superconducting $\text{SmFeAsO}_{1-x}\text{F}_x$ ”.