CURRICULUM VITAE

FABRIZIO MORO

EDUCATION

2009 PhD in Physics, University of Modena and Reggio Emilia (UniMoRe), Italy

2005 Master degree in Physics, University of Lecce (now University of Salento), Italy

CURRENT POSITION

2018 – now Assistant Professor, Department of Materials Science, University of Milano-Bicocca (Unimib), Milan, Italy.

PREVIOUS POSITIONS

2017 – 2018 Senior researcher, IFM, University of Linköping, Sweden.

2013 – 2017 Research Fellow, School of Physics, University of Nottingham (UoN), UK.

2012 – 2013 Research Associate, School of Chemistry, University of Manchester (UoM), UK

2010 – 2012 Marie-Curie fellow, School of Chemistry, UoN, UK.

2009 – 2010 Research Associate, School of Chemistry, UoN, UK.

AWARDS, RECOGNITIONS and MEMBERSHIPS

12 Apr. 2017 *Abilitazione Scientifica Nazionale (ASN)* in Experimental Condensed Matter Physcis (fascia II, settore concorsuale 02/B1).

2019 - present Regular member of the *International Society of Magnetic Resonance* (ISMAR)

2010–2012 Individual Marie-Curie fellowship (DynAniMag/253980), UoN.

2010 - 2016 Member 1121578 of the *Institute of Physics* (IOP).

2016 – now Editorial Board Member for *Scientific Reports* (Nature Publishing Group).

2009 *Research Staff Travel Prize* GBP 500, UoN.

2006–2017 Award of 48 *shifts* to conduct experiments as PI or co-PI at national an European small and large scale facilities including HFML-FELIX (Nijmegen), EPR national service (Manchester), IFW Leibniz Institute (Dresden), High Frequency EPR Lab (Stüttgart), ISIS (Oxford), FRMII (Garching), ESRF (Grenoble) and ELETTRA (Trieste).

2007 to now **12 invited seminars** at Universities and research centres + **2 invited orals** at conferences.

RESEARCH FUNDING

2021 "Bando Infrastrutture di Ricerca" University of Milano-Bicocca, 10.8 KEuro.

2020 "Fondo Ateneo" University Milano-Bicocca, ~ 1.6 KEuro.

2019 " Fondo Ateneo" University Milano-Bicocca, ~ 1.6 KEuro.

2018 " Fondo Ateneo" University Milano-Bicocca, ~ 1.5 KEuro.

2013-2017 Named Research Associate of the *Leverhulme Trust grant* RPG-2013-242, GBP 150K.

2010-212 Individual *Marie-Curie fellowship* (DynAniMag/253980). EURO173K.

REVIEWING ACTIVITIES

2016 – now *Editorial Board Member* per *Scientific Reports* (Nature Publishing Group).

Reviewer for international journals: *Nano Lett., J. Am. Chem. Soc., Nanoscale, Phys. Stat. Sol. B, RSC Advances, J. Mag. Mag. Mat., Mendeley, Nano Lett., C. Nano and Annalen der Physik,m Adv Funct. Mater. Mendeleev Communications, Optical and Quantum Electronics, Scientific Reports, Radiation Measurements and Inorganic Chemistry.*

Reviewer for research projects*:* Deutsche Forschungsgemeinschaft (DFG) and Grantová Agentura České Republiky (GAČR).

CONFERENCES AND WORKSHOPS

SemiconNano2021 web-conference**:** member of the Local Organizing Committee

2 invited talks: **2015** Workshop on *Advanced polaritonics and photonics,* Suzdal (Russia) **2008** Workshop MAGMANet *Towards devices: assembling and addressing molecular nanomagnets*, Huesca (Spain).

6 contributed talks: **2018** School/conference *Organic solar cells and thermoelectric*s, Västeras (Sweden). **2017** STINT/JSPS joint workshop, Helsinki (Finland) **2016** JEMS, Glasgow (UK); *Photonic Colloidal Nanostructures: Synthesis, Properties and Applications* (PCNSPA) St. Petersburg (Russia). **2015** EUROMAR, Prague (Czech Rep.) **2015** UK *semiconductors* IOP, Sheffield (UK). **2011** *56th Conference on Magnetism and Magnetic Materials* (MMM), Scottsdale (USA).

INVITED SEMINARS

2021 University of Nijmegen (The Netherlands), online presentation.

2019 University of Stuttgart (Germany)

2018 HZB Berlin (Germany); University of Modena (Italy) and University of Milano-Bicocca (Italy)

2016 University of Loughborough (UK) and University of Cardiff (UK)

2015 University of Nottingham (UK)

2013 University of Salford, Manchester (UK)

2012 Queen's University of Belfast (UK) and University of Bristol (UK)

2011 University of Nottingham (UK)

2008 University of Nottingham (UK)

2007 Max-Planck of Stüttgart (Germany)

RESERARCH ACTIVITIES IN RESEARCH CENTRES

	Laboratory / reference	role	shifts	weeks
2015	High Magnetic Field Laboratory (HFML), University of Nijmegen, Prof. [redacted]	PI*	2	3
2015-2016	NMR Laboratory, Center for Biological Science (CBS), University of Nottingham (UK) / Dr W. Huw.	PI	4	2
2013	Center for Advanced Electron Spin resonance (CAESAR), University of Oxford (UK) / Prof. [redacted] and Dr [redacted]	Co-PI	2	2
2010-2017	EPSRC multifrequency EPR National Facility, University of Manchester (UK) / Prof. [redacted]	PI	14	14
2013-2017	Sir Peter Mansfield Magnetic Resonance Centre, University of Nottingham (UK) / Dr [redacted]	PI	12	12
2010-2011	Rutherford Appleton Laboratory, ISIS, Oxford (UK) / Dr [redacted]	Co-PI	2	2
2011	Forschungs-Neutronenquelle Heinz Maier (FRM II), Garching Dr [redacted].	Co-PI	1	1
2011	Leibneiz IFW di Dresda (Germania) / Prof. [redacted]	PI	1	1
2009-2011	Dipartiment of physics, University of Stuttgart/Prof [redacted].	Co-PI	3	4
2009-2010	Dipartimento di Fisica dell'University of Saragozza (Spagna) / Dr [redacted]	Co-PI	2	2
2006-2008	Synchrotron ESRF, Grenoble (France) / Prof. [redacted].	PI	3	3
2006-2007	Synchrotron ELETTRA, Trieste (Italy) / Dr [redacted].	Co-PI	2	2

* PI = principal investigator

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2021 Co-supervision of the Master degree thesis of the student A. Miele, Supervisor: Prof. [redacted]

2019 - 2011 Co-supevision of the PhD student [redacted], Supervisor: Prof. [redacted]

2019 Training to Labview to the student of the Department of Material Science [redacted]

2015 – 2019 Co-supervision of M. Bhuiyan, PhD student in Physics. UoN. Supervisor: Prof. [redacted]. [redacted]

2014 – 2015 Co-supervision of C. Howart, MSci in Physics, UoN. Supervisor: Prof. [redacted]

2013 – 2016 Co-supervision of [redacted], PhD student in Physics of the Doctoral School in Magnetic Resonance, UoN (UK). Title of the thesis: *Magnetic resonance of paramagnetically doped materials.* Supervisors:. [redacted] and [redacted]

2009 – 2013 Co-supervision of [redacted], PhD student in Chemistry, UoN. Title of the thesis: *Magnetostructural correlations in iron(II)- and nickel(II)-based cluster complexes.* Supervisor: Prof. [redacted].

2009 - 2013 Co-supervision of [redacted], PhD student in Chemistry, UoN. Title of the thesis: *Synthesis, characterisation and magnetic studies of substituted lanthanide (Bis) phtalocyanine single molecule magnets.* Supervisor: Prof. [redacted].

TEACHING EXPERIENCE

2020-2021 *Physical Characterization of Materials with Laboratory*, Unimib (24h, *ca 5 students*)

2020-2021 *Laboratory of Solid State Physics I*, Unimib (12h, *ca* 8)

2020-2021 *Laboratory of Materials Science*, Unimib (36h, *ca* 30)

2019-2020 Teaching assistant in *Physics II*, Unimib (12h, *ca* 30)

2019-2020 *Laboratory of Materials Science*, Unimib (36h, *ca* 50)

2019- 2020 *Laboratory of Solid State Physics II*, Unimib (36h, *ca* 10)

2028-2019 *Applied Physical Chemistry with laboratory*, Unimib (36h, *ca* 10)

2018-2019 *Laboratory of Technology of Materials I*, Unimib (40h, *ca* 10)

2018-2019 *Physical Characterization of Materials with Laboratory*, Unimib (12h, *ca* 6)

2013 Tutor to the workshop on electron spin resonance (ESR) *EPR introductory workshop* (4h, *ca* 10) UoM (UK).

2011-2012 Introduction to magnetometers (SQUID) for PhD students and postdocs (*ca* 20) UoN.

2011 Assessment of the exams for the Chemistry's course held by Prof. M. Poliakoff, UoN.

2011 Lecture on *Magnetic anisotropy in molecular magnets* UoN.

2011 Tutor of *Physics for Chemists* for first year student (> 20 students) of the UoN.

2010 Tutor of *Physics for Chemists* for first year student (> 20 students) of the UoN.

2010 Tutor to *Mathematics for Chemists* for first year student (> 20 students) of the UoN.

2008 Lecture on *Clean energy from the sun.* CTP school for foreigners, Modena (Italy).

2007 Teaching assistant to the course of *Physics I* (10h) for students (*ca* 20 students), Department of Mathematics, UniMoRe.

2006 Assistant Professor to the course on *Physics I* (16h) for students (*ca* 20 students) of the Department of Mathematics, UniMoRe.

OTHER ACTIVITIES

2021 Website administrator for the Laboratory of Materials and Spectroscopies for Nanoelectronics and Spintronics (MSNS), **2015** Science fair, UoN **2008** Lecture on *Clean energy from the sun.* CTP school for immigrants, Modena (Italy). **2007** *Blow-up exhibition: images from the Nanoworld*, Modena. URL link: https://www.youtube.com/watch?v=02UiUtbls1s

[redacted]

Yours sincerely,

[redacted]

FULL LIST OF PUBLICATIONS

Researcher unique identifiers: ORCID: 0000-0002-6381-0479, Scopus: 24740861900
Researcher ID: G-6296-2012

h-index: 22 (sources: Web of Science and Scopus)

1. *Optical and magneto-optical properties of donor-bound excitons in vacancy-engineered colloidal nanocrystals* F. Carulli, V. Pinchetti, M. Zaffalon, A. Camellini, S. Rotta Loria, **F. Moro**, M. Fanciulli, M. Zavelani-Rossi, F. Meinardi, S. Crooker, S. Brovelli. Accepted for publication in *Nano Letters* (2021), 21, 14, 6211–6219.

2. Sequential doping of ladder-type conjugated polymers for thermally stable n-type organic conductors.
   Wang S., Ruoko T. P., Wang G., Riera-Galindo S., Hultmark S., Puttisong Y., **F. Moro**, Yan H., Chen W., Berggren M., Müller C., Fabiano S.
   ACS Appl. Mater. Interfaces 12, 47, 53003–5301 (2020)

3. Magnetizing lead-free halide double perovskites
   W. Ning, J. Bao, Y. Puttisong, **F. Moro**, L. Kobera, S. Shimono, L. Wang, F. Ji, M. Cuartero, S. Kawaguchi, S. Abbrent, H. Ishibashi, R. De Marco, I. A. Bouianova, G. A. Crespo, Y. Kubota, J. Brus, D. Y. Chung, L. Sun, W. M. Chen, M. Kanatzidis, F. Gao
   *Sci. Adv.*6, eabb5381 (2020)

4. Bright blue emitting Cu-doped Cs_2ZnCl_4 colloidal nanocrystals
   D. Zhu, M. Zaffalonc, V. Pinchetti, R. Brescia, **F. Moro**, M. Fasoli, M. Fanciulli, A. Tanga , I. Infante, L. De Trizio, S. Brovelli, L. Manna
   Chem. Mater. 32, 5897 (2020)

5. Effect of crystal symmetry on the spin states of Fe^{3+} and vibration modes in lead-free double perovskite $Cs_2AgBi(Fe)Br_6$.
   Y. Puttisong, **F. Moro**, S. L. Chen, P. Höjer, W. Ning, F. Gao, I. A. Buyanova, and W.M. Chen
   J. Phys. Chem. Lett. 11, 4873 (2020)

6. Thermal-annealing effects on energy level alignment at organic heterojunctions and corresponding voltage losses in all-polymer solar cells.
   C. Wang, **F. Moro**, S. Ni, Q. Zhang, G. Pan, J. Yang, F. Zhang, I. A. Buyanova, W. M. Chen, X. Liu, M. Fahlman
   Nano Energy 72, 104677 (2020)

7. Realization of universal quantum gates with spin-qudits in colloidal quantum dots.
   F. Moro, A. J. Fielding, L. Turyanska, and A. Patanè
   Adv. Quantum Technol. 2, 1900017 (2019)

8. Folic acid functionalised gold nanoclusters
   Z. Liu, L. Turyanska, F. Zamberlan, S. Pacifico, T. D. Bradshaw, **F. Moro**, M. W. Fay, S. Young, H. E. L. Williams, and N. R. Thomas
   Nanotechnology 30, 505102 (2019)

9. Room temperature uniaxial magnetic anisotropy induced by Fe-islands in the InSe semiconductor van der Waals crystal.
   F. Moro, M. A. Bhuiyan, Z. R. Kudrynskyi, R. Puttock, O. Kazakova, O. Makarovsky, M. W. Fay, C. Parmenter, Z. D. Kovalyuk, A. J. Fielding, M. Kern, J. van Slageren, and A. Patanè
   Adv. Sci. 5, 1800257 (2018).

10. Surface sensing of quantum dots by electron spins.
    F. Moro, L. Turyanska, J. Wilman, H. E. J. Williams, A. J. Fielding, and A. Patanè.
    Nano Lett. 16, 6343-6348 (2016).

11. Developing Mn-doped lead sulfide quantum dots for MRI labels.
    L. Turyanska, **F. Moro**, A. Patanè, J. Barr, W. Kockenberger, A. Taylor, H. M. Faas, M. Fowler, P. Wigmore, R. C. Trueman, H. E. L. Williams, and N. R. Thomas.
    J. Mat. Chem. B 4, 6797-6802 (2016).

12. Engineering coherent interactions in molecular nanomagnet dimers.
    A. Ardavan, A. M. Bowen, A. Fernandez, A. J. Fielding, D. Kaminski, **F. Moro**, C. A. Muryn, M. D. Wise, A. Ruggi, E. J. L.McInnes, K. Severin, G. A. Timco, C. R. Timmel, F. Tuna, G. F. S. Whitehead, and R. E. P. Winpenny.
    npj Quantum Information 1, 15012 (2015).

13. Electronic structure of a mixed-metal fluoride triangle complex: a potential qubit component.
    J. P. S. Walsh, S. B. Meadows, A. Ghirri, **F. Moro**, M. Jennings, W. F. Smith, D. M. Graham, T. Kihara, H. Nojiri, I. J. Vitorica-Yrezabal, G. A. Timco, D. Collison, E. J. L. McInnes, and R. E. P. Winpenny.
    Inorg. Chem. 54, 12019-12026 (2015).

14. *g*-engineering in hybrid rotaxanes to create AB and AB_2 electron spin systems: EPR spectroscopic studies of weak interactions between dissimilar electron spin qubits.
    A. Fernandez, E. Moreno Pineda, C. A. Muryn, S. Sproules, **F. Moro**, G. A. Timco, E. J. L. McInnes, and R. E. P. Winpenny.
    Angew. Chem. Int. Ed. 54, 10858-61 (2015).

15. Electron spin coherence near room temperature in magnetic quantum dots.
    F. Moro, L. Turyanska, J. Wilman, M. Fay, A. J. Fielding, J. Granwehr, and A. Patanè.
    Sci. Rep. 5, 10855 (2015).

16. Spin manipulation and spin lattice interaction in magnetic colloidal quantum dots.
    F. Moro, L. Turyanska, J. Granwehr, and A. Patanè.
    Phys. Rev. B 90, 205428 (2014).

17. Tunable paramagnetic susceptibility and *g*-factor in Mn-doped PbS colloidal nanocrystals.
    L. Turyanska, R. J. L. Hill, O. Makarovsky, **F. Moro**, A. N. Knott, O. J. Larkin, A. Patanè, A. Meaney, P. C. M. Christianen, M. W. Fay, and R. J. Curry.
    Nanoscale 6, 8919 (2014).

18. Magnetic anisotropy of polycrystalline magnetoferritin investigated by SQUID and electron magnetic resonance.
    F. Moro, R. de Miguel, M. Jenkins, C. Gòmez-Moreno, D. Sells, F. Tuna, E. J. L. McInnes, A. Lostao, F. Luis, and J. van Slageren.
    J. Magn. Magn. Mat. 361, 188-196 (2014).

19. Tuneable magnetic properties of hydrothermally synthesised core/shell $CoFe_2O_4$ / $NiFe_2O_4$ and $NiFe_2O_4$ / $CoFe_2O_4$ nanoparticles.
    T. P. Almeida, **F. Moro**, M. W. Fay, Y. Zhu, and P. D. Brown.
    J. Nanopart. Res. 16, 2395 (2014).

20. Coherent electron spin manipulation in a diluted oriented ensemble of molecular nanomagnets: pulse EPR on doped single crystals.

F. Moro, D. Kaminski, F. Tuna, G. F. S. Whitehead, G. A. Timco, D. Collison, R. E. P. Winpenny, A. Ardavan, and E. J. L. McInnes.
Chem. Commun. 50, 91 (2014).

21. Spectroscopic determination of crystal field splittings in lanthanide double deckers.
R. Marx, **F. Moro**, M. Dorfel, L. Ungur, M. Waters, D. Jiang, M. Orlita, J. Taylor, W. Frey, F. Chibotaru, and J. van Slageren.
Chem. Sci. 5, 3287-3293 (2014).

22. The acid test: the chemistry of carboxylic acid functionalised Cr_7Ni rings.
G. F. S. Whitehead, J. Ferrando-Soria, L. G. Christie, N. F. Chilton, G. A. Timco, **F. Moro,** and R. E. P. Winpenny.
Chem. Sci. 5, 235-239 (2014).

23. Paramagnetic, near-infrared fluorescent Mn-doped PbS colloidal nanocrystals.
L. Turyanska, **F. Moro**, A. N. Knott, M. W. Fay, T. D. Bradshaw and A. Patanè.
Part. Part. Syst. Charact. 30, 945-949 (2013).

24. Magnetic properties of cobalt oxide nanoparticles synthesised by a continuous hydrothermal method.
F. Moro, S. V. Y. Tang, F. Tuna and E. Lester.
J. Magn. Mag. Mat. 348, 1-7 (2013).

25. A ring of rings and other multicomponent assemblies of cages.
G. F. S. Whitehead, **F. Moro**, G. A. Timco, W. Wernsdorfer, S. J. Teat, and R. E. P. Winpenny.
Angew. Chem. Int. Ed. 52, 9932-35 (2013).

26. The inherent single-molecule magnet character of trivalent uranium.
F. Moro, D. P. Mills, S. T. Liddle, and J. van Slageren.
Angew. Chem. Int. Ed. 52, 3430-3 (2013).

27. Five coordinate M(II)-diphenolate [M = Zn(II), Ni(II), and Cu(II)] Schiff base complexes exhibiting metal and ligand-based redox chemistry.
M. Franks, A. Gadzhieva, L. Ghandhi, D. Murrel, A. J. Blake, E. S. Davies, W. Lewis, **F. Moro**, J. McMaster, and M. Schroeder.
Inorg. Chem. 52, 660-670 (2013).

28. Electronic and magnetic properties of Mn_{12} molecular magnets on sulfonate and carboxylic acid prefunctionalized gold surfaces.
F. Moro, R. Biagi, V. Corradini, M. Evangelisti, A. Gambardella, V. De Renzi, U. del Pennino, E. Coronado, A. Forment-Aliaga, and F. M. Romero.
J. Phys. Chem. C 116, 14936-14942 (2012).

29. Synthesis of a uranium(VI)-carbene: reductive formation of uranyl(V)-methanides, oxidative preparation of a $[R_2C{=}U{=}O]^{2+}$ analogue of the $[O{=}U{=}O]^{2+}$ uranyl ion ($R = Ph_2PNSiMe_3$), and comparison of the nature of U-IV=C, U-V=C, and U-VI=C double bonds.
D. P. Mills, O. J. Cooper, F. Tuna, E. J. L. McInnes, E. S. Davies, J. McMaster, **F. Moro**, W. Lewis, A. J. Blake, and S. T. Liddle.
J. Am. Chem. Soc. 134, 10047-10054 (2012).

30. Gd-based single-ion magnets with tunable magnetic anisotropy: molecular design of spin qubits.
M. J. Martinez-Pèrez, S. Cardona-Serra, C. Schlegel, **F. Moro**, P. J. Alonso, H. Prima-Garcia, J. M. Clemente-Juan, M. Evangelisti, A. Gaita-Ariño, J. Sesse, J. van Slageren, E. Coronado, and F. Luis.
Phys. Rev. Lett. 108, 247213 (2012).

31. Magnetic properties of a novel family of ferrous cubanes.
F. Piga, **F. Moro**, I. Krivokapic, A. J. Blake, R. Edge, E. J. L. McInnes, F. Luis, M. Evangelisti, D. J. Evans, J. McMaster, and J. Van Slageren.
Chem. Commun. 48, 2430 (2012).

32. Synthesis, characterisation and magnetic study of a cyano-substituted dysprosium double decker single-molecule magnet.
M. Waters, **F. Moro**, I. Krivokapic, and J. van Slageren.
*Dalt. Trans.*41, 1128 (2012)

33. A formal high oxidation state inverse-sandwich diuranium complex: a new route to f-block-metalbonds.
D. Patel, **F. Moro**, J. McMaster, W. Lewis, A. J. Blake, and S. T. Liddle.
Angew. Chem. Int. Ed. 50, 1-6 (2011).

34. Encapsulation of single-molecule magnets in carbon nanotubes.
M. d. C. Gimenez-Lopez, **F. Moro**, A. La Torre, C. J. Gomez-Garcia, P. D. Brown, J. van Slageren, and A. N. Khlobystov.
Nat. Commun. 2, 407 (2011).

35. A delocalised arene-bridged diuranium single molecule magnet.
D. P. Mills, **F. Moro**, J. McMaster, J. van Slageren, W. Lewis, A. J. Blake, and S. T. Liddle.
Nat. Chem. 3, 454 (2011).

36. An unsupported uranium-rhenium complex prepared by alkane elimination.
B. M. Gardner, J. McMaster, **F. Moro**, W. Lewis, A. J. Blake, and S. T. Liddle.
Chem. Eur. J. 17, 6909-6912(2011).

37. Chromium(III) stars and butteries: synthesis, structural and magnetic studies of tetra-metallic clusters.
L. J. Batchelor, M. Sander, F. Tuna, M. Helliwell, **F. Moro**, J. van Slageren, E. Burzuri, O. Montero, M. Evangelisti, F. Luis, and E. J. L. McInnes.
Dalton Trans. 40, 5278-5284 (2011).

38. Surface supramolecular organization of a terbium(III) double-decker complex on graphite and its single molecule magnet behaviour as studied by XMCD.
M. Gonidec, R. Biagi, V. Corradini, **F. Moro**, V. De Renzi, U. del Pennino, D. Summa, L. Muccioli, C. Zannoni, D. B. Amabilino, and J. Veciana.
J. Am. Chem. Soc. 133, 6603-6612 (2011).

39. Uranium-carbon multiple bonding: facile access to the pentavalent uranium carbine $[UC(PPh_2NSiMe_3)(Cl)_2(I)]$ and comparison of UV=C and UIV=C double bonds.
O. J. Cooper, D. P. Mills, J. McMaster, **F. Moro**, E. S. Davies, W. Lewis, A. J. Blake, and S. T. Liddle.
Angew. Chem. Int. Ed. 50, 1-5 (2011).

40. Frequency domain magnetic resonance spectroscopy and magnetic circular dichroism on Ni_4 cubane molecular nanomagnets: a magnetic anisotropy study.
F. Moro, F. Piga, I. Krivokapic, A. Burgess, J. McMaster, and J. van Slageren.
Inorg. Chim. Acta 363, 4329 (2010).

41. X-ray adsorption and magnetic circular dichroism investigation of bis(phthalocyaninato) terbium single-molecule magnets deposited on graphite.
R. Biagi, J. Fernandez-Rodriguez, M. Gonidec, A. Mirone, V. Corradini, **F. Moro**, V. De Renzi, U. del Pennino, J. C. Cezar, D. B. Amabilino, and J. Veciana.

Phys. Rev. B 82, 224406 (2010).

42. Addressing the magnetic properties of sub-monolayers of molecular nanomagnets by x-ray magnetic circular dichroism.
F. Moro, V. Corradini, M. Evangelisti, R. Biagi, V. De Renzi, U. del Pennino, J. C. Cezar, R. Inglis, C. J. Milios, E. K. Brechin.
Nanoscale 2, 2698-2703 (2010).

43. Magnetic properties of two novel Fe_4 single-molecule magnets in the solid state and in frozen solution.
C. Schlegel, E. Burzuri, F. Luis, **F. Moro**, M. Manoli, E. K. Brechin, and J. van Slageren.
Chem. Eur. J. 16, 10178-10185 (2010).

44. Probing edge magnetization in antiferromagnetic spin segments.
A. Ghirri, G. Lorusso, **F. Moro**, V. Corradini, M. Affronte, J. C. Cezar, C. Muryn, F. Tuna, G. Timco, and R. E. P. Winpenny.
Phys. Rev. B 79, 224430 (2009).

45. Successful grafting of isolated molecular Cr_7Ni rings on Au(111) surface.
V. Corradini, **F. Moro**, R. Biagi, V. De Renzi, U. del Pennino, S. Carretta, P. Santini, V. A. Milway, G. Timco, R. E. P. Winpenny, and M. Affronte.
Phys. Rev. B 79, 144419 (2009).

46. Grafting derivatives of a Mn_6 single-molecule magnets with high anisotropy energy barrier on Au(111) surface.
F. Moro, U. del Pennino, V. Corradini, R. Biagi, V. De Renzi, M. Evangelisti, C. J. Milios, E. K. Brechin.
J. Phys. Chem. B 112, 9729-9735 (2008).

47. XMCD investigation of spin and orbital moments in Cr_8 and Cr_7Ni antiferromagnetic rings.
V. Corradini, **F. Moro**, R. Biagi, U. del Pennino, V. De Renzi, S. Carretta, P. Santini, M. Affronte, J. C. Cezar, G. Timco, and R. E. P. Winpenny.
Phys. Rev. B 77, 14402 (2008).

48. Electronic structure of a Mn_6 single-molecule magnet (S = 4) grafted on Au(111).
U. del Pennino, V. Corradini, R. Biagi, V. De Renzi, **F. Moro**, D. W. Boukhvalov, G. Panaccione, M. Hochstrasser, C. Carbone, C. J. Milios, and E. K. Brechin.
Phys. Rev. B 77, 085419 (2008).

49. Laser-induced breakdown spectroscopy for compositional analysis of multi-elemental thin films.
S. Acquaviva, E. D'Anna, M. L. De Giorgi, and **F. Moro**.
Spectrochim. Acta, Part B: Atomic Spectroscopy 61, 810 (2006).