

# CURRICULUM VITAE

Department of Materials Science  
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## 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

- 2021 – now    Associate Professor, Department of Materials Science, University of Milano-Bicocca (Unimib), Milan, Italy.

### PREVIOUS POSITIONS

- 2018 – 2021    Assistant Professor, Department of Materials Science, University of Milano-Bicocca (Unimib), Milan, Italy.  
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 and MEMBERSHIPS

- 12 Apr. 2017    *Abilitazione Scientifica Nazionale (ASN)* in Experimental Condensed Matter Physics (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 and European small and large scale facilities including HFML-FELIX (Nijmegen), EPR national service (Manchester), ISIS (Oxford), FRMII (Garching), ESRF (Grenoble) and ELETTRA (Trieste).

## **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

- 2015 – 2019 Co-supervision of M. Bhuiyan, PhD student in Physics. UoN. Supervisor: Prof. A. Patanè
- 2014 – 2015 Co-supervision of C. Howart, MSci in Physics, UoN. Supervisor: Prof. A. Patanè.
- 2013 – 2016 Co-supervision of J. Wilman, PhD student in Physics of the Doctoral School in Magnetic Resonance, UoN (UK). Title of the thesis: *Magnetic resonance of paramagnetically doped materials*. Supervisors: Dr. W. Kockenberger and Dr. L. Turyanska.
- 2009 – 2013 Co-supervision of F. Piga, PhD student in Chemistry, UoN. Title of the thesis: *Magnetostructural correlations in iron(II)- and nickel(II)-based cluster complexes*. Supervisor: Prof. J. van Slageren.
- 2009 - 2013 Co-supervision of M. Waters, PhD student in Chemistry, UoN. Title of the thesis: *Synthesis, characterisation and magnetic studies of substituted lanthanide (Bis) phthalocyanine single molecule magnets*. Supervisor: Prof. J. van Slageren.

## **TEACHING EXPERIENCE**

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

## REVIEWING ACTIVITIES

Reviewer for VQR2015-2019 (evaluation of research quality), Deutsche Forschungsgemeinschaft (DFG) German Research Foundation, GAČR (Grantova Agentura České Republiky).

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

2010 – now Reviewer for *Nano Lett.*, *Adv. Func. Mat.*, *J. Am. Chem. Soc.*, *Nanoscale*, *Phys. Stat. Sol. B*, *RSC Advances*, *J. Mag. Mag. Mat.*, *Mendeleev Commun.*, *C. Nano*, *Rad. Meas.*, *Opt. Quant. Elect.*, *Sci. Rep.* and *Annalen der Physik*.

## RESEARCH FUNDING

2021 “Bando Infrastrutture di Ricerca”, Unimib, to Prof. A. Sassella, 110 KEuro

2020 “Fondo Ateneo” University Milano-Bicocca ca. 1.5 KEuro

2019 “Fondo Ateneo” University Milano-Bicocca ca. 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.

## CONFERENCES AND WORKSHOPS

2021 Local organizer of the web-conference Semiconnano2020.

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

**Contributed talks:** **2018** School/conference *Organic solar cells and thermoelectrics*, Västerås (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** 56<sup>th</sup> *Conference on Magnetism and Magnetic Materials* (MMM), Scottsdale (USA).

## INVITED SEMINARS

**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 Stuttgart (Germany)

## RESEARCH ACTIVITIES IN RESEARCH CENTRES

Period	Laboratory / reference	role	shifts	weeks
2015	High Magnetic Field Laboratory (HFML), University of Nijmegen, Prof. P. Christianen.	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. C. Timmel and Dr A. Ardavan.	Co-PI	2	2
2010-2017	EPSRC multifrequency EPR National Facility, University of Manchester (UK) / Prof. E. J. McInnes.	PI	14	14
2013-2017	Sir Peter Mansfield Magnetic Resonance Centre, University of Nottingham (UK) / Dr W. Kockenberger.	PI	12	12
2010-2011	Rutherford Appleton Laboratory, ISIS, Oxford (UK) / Dr J. Taylor.	Co-PI	2	2
2011	Forschungs-Neutronenquelle Heinz Maier (FRM II), Garching Dr G. G. Simeoni.	Co-PI	1	1
2011	Leibniz IFW di Dresda (Germania) / Prof. V. Kataev.	PI	1	1
2009-2011	Dipartimento di fisica, University of Stuttgart/Prof. M. Dressel.	Co-PI	3	4
2009-2010	Dipartimento di Fisica dell'University of Saragozza (Spagna) / Dr F. Luis.	Co-PI	2	2
2006-2008	Synchrotron ESRF, Grenoble (France) / Prof. N. Brookes.	PI	3	3
2006-2007	Synchrotron ELETTRA, Trieste (Italy) / Dr G. Panaccione.	Co-PI	2	2

\* PI = principal investigator

## OUTREACH ACTIVITIES

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>

Yours sincerely,



## 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. F. Zaffalon, A. Camelli, S. R. Loria, **F. Moro**, M. Fanciulli, Zavelani-Rossi, F. Meinardi, S. A. Crooker, S. Brovelli.  
*Nano Letters* 21, 6211-6219 (2021).
2. Sequential doping of ladder-type conjugated polymers for thermally stable n-type organic conductors.  
S. Wang, T. P. Ruoko, G. Wang, S. Riera-Galindo, S. Hultmark, Y. Puttisong, **F. Moro**, H. Yan, W. Chen, M. Berggren, C. Müller, S. Fabiano.  
*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<sub>2</sub>ZnCl<sub>4</sub> colloidal nanocrystals  
D. Zhu, M. Zaffalon, 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<sup>3+</sup> and vibration modes in lead-free double perovskite Cs<sub>2</sub>AgBi(Fe)Br<sub>6</sub>.  
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-qubits in colloidal quantum dots.  
**F. Moro**, A. J. Fielding, L. Turyanska, and A. Patanè  
*Adv. Quantum Technol.* 2, 1900017 (2019)
8. Synthesis of folic acid functionalized gold nanoclusters for targeting folate receptor-positive cells  
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. Kudrynskiy, R. Puttock, O. Kazakova, O. Makarovskiy, 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<sub>2</sub> 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. Makarovskiy, **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. Gómez-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<sub>2</sub>O<sub>4</sub> / NiFe<sub>2</sub>O<sub>4</sub> and NiFe<sub>2</sub>O<sub>4</sub> / CoFe<sub>2</sub>O<sub>4</sub> 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<sub>7</sub>Ni 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. Murrell, 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<sub>12</sub> 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<sub>2</sub>C=U=O]<sup>2+</sup> analogue of the [O=U=O]<sup>2+</sup> uranyl ion (R = Ph<sub>2</sub>PNSiMe<sub>3</sub>), 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-Pérez, 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 butterflies: 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 carbene [UC(PPh<sub>2</sub>NSiMe<sub>3</sub>)(Cl)<sub>2</sub>(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<sub>4</sub> 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<sub>4</sub> 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<sub>7</sub>Ni 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<sub>6</sub> 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<sub>8</sub> and Cr<sub>7</sub>Ni 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<sub>6</sub> 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).

