

## PUBLICATIONS

**AUTHOR: MARTA FILIBIAN**

Updated on November 28<sup>th</sup>, 2014

- 1) **M. Filibian**, S. Colombo Serra, M Moscardini, A. Rosso, F. Tedoldi, and P. Carretta, “**Role of the glassy dynamics and thermal mixing in the dynamic nuclear polarization and relaxation mechanisms of pyruvic acid**”, *Phys. Chem. Chem. Phys.*, **16** (48), 27025 – 27036 (2014)
- 2) E. Micotti, A. Paladini, C. Balducci, D. Tolomeo, A. Frasca, M. Marizzoni, **M. Filibian**, A. Caroli, G. Valbusa, S. Dix, M. O'Neill, L. Ozmen, J. Richardson, G. Frisoni and C. Czech, “**Striatum and entorhinal cortex atrophy in AD mouse models: MRI comprehensive analysis**”, *Neurobiology of ageing*, 2014, doi: 10.1016/j.neurobiolaging.2014.10.027
- 3) N. Giménez-Agulló, C. Sáenz de Pipaón, L. Adriaenssens, M. Martínez-Belmonte, E.C. Escudero-Adán, **M. Filibian**, P. Carretta, P. Ballester and J. R. Galán-Mascarós, “**Single-Ion Magnet Behavior in the Family of Ln(OETAP)<sub>2</sub> double-deckers (Ln = Lanthanide, OETAP = octa(ethyl)tetraazaporphyrin)**”, *Chem. Eur. J.*, **20**, 12817-12825 (2014)  
*\*Highlighted in ChemistryViews*  
*\*Selected as Very Important Paper*
- 4) S. Colombo Serra, **M. Filibian**, P. Carretta, A. Rosso and F. Tedoldi, “**Relevance of electron spin dissipative processes on Dynamic Nuclear Polarization via Thermal Mixing**”, *Phys.Chem.Chem.Phys.* **16**, 753-764 (2014), DOI: 10.1039/C3CP52534A
- 5) A. Lascialfari, **M. Filibian**, C. Sangregorio, P. Carretta, “**In vivo biomedical applications of magnetic resonance and magnetic materials**”, *Rivista del nuovo cimento* **36** (6), 211-269 (2013)
- 6) **M. Filibian**, A. Frasca, D. Maggioni, E. Micotti, A. Vezzani and T. Ravizza, “**In vivo imaging of glia activation using <sup>1</sup>H-magnetic resonance spectroscopy to detect putative biomarkers of tissue epileptogenicity**”, *Epilepsia*, **53**(11):1907–1916 (2012)  
doi: 10.1111/j.1528-1167.2012.03685.x
- 7) F. Branzoli, P. Carretta, **M. Filibian**, S. Klyatskaya and M. Ruben, “**Low-energy spin dynamics in the [YPc<sub>2</sub>]<sup>0</sup> S = 1/2 antiferromagnetic chain**”, *Phys. Rev. B* **83**, 174419 (2011) ISSN: 1098-0121 (print) 1550-235X (online)
- 8) F. Branzoli, P. Carretta, **M. Filibian**, M. J. Graf, S. Klyatskaya, M. Ruben, F. Coneri, and P. Dhakal, “**Spin and charge dynamics in [TbPc<sub>2</sub>]<sup>0</sup> and [DyPc<sub>2</sub>]<sup>0</sup> single-molecule magnets**”, *Phys. Rev. B* **82**, 134401 (2010)  
ISSN: 1098-0121 (print) 1550-235X (online)
- 9) **M. Filibian**, L. Bordonali, P. Carretta, M. C. Mozzati, P. Ghigna, S. Klyatskaya and M. Ruben, “**Strong correlations in Li<sub>x</sub>M(Pc,Nc) organic conductors near half –filling**” *J. Phys.: Conf. Ser.* **200** 012033 (2010)  
ISSN 0953-8984 (Print) 1361-648X (Online)
- 10) P. Carretta, **M. Filibian**, R. Nath, C. Geibel and P. J. C. King, “**Fluctuations and correlations in a frustrated S=1/2 square lattice with competing ferromagnetic and antiferromagnetic interactions studied by muon-spin relaxation**”, *Phys. Rev. B* **79**, 224432 (2009)

- 11) F. Branzoli, **M. Filibian**, P. Carretta, S. Klyatskaya and M. Ruben, “Spin dynamics in the neutral rare-earth single-molecule magnets  $[\text{TbPc}_2]^0$  and  $[\text{DyPc}_2]^0$  from  $\mu\text{SR}$  and NMR spectroscopies”, *Phys. Rev. B* **79**, 220404 (R) (2009)
- 12) F. Branzoli, P. Carretta, **M. Filibian**, G. Zoppellaro, M. J. Graf, J. R. Galan-Mascaros, O. Fuhr, S. Brink and M. Ruben, “Spin Dynamics in the Negatively Charged Terbium (III) Bis-phthalocyaninato Complex”, *J. Am. Chem. Soc.* **131** (12), 4387 (2009)
- 13) **M. Filibian**, P. Carretta, M. C. Mozzati, P. Ghigna, G. Zoppellaro and M. Ruben, “Strong correlations in  $\text{Li}_x\text{ZnPc}$  organic metals”, *Phys. Rev. Lett.* **100**, 117601 (2008)
- 14) **M. Filibian**, P. Carretta, T. Miyake, Y. Taguchi, Y. Iwasa, G. Zoppellaro and M. Ruben, “Low-energy excitations in electron-doped metal phthalocyanines”, *Physica B: Condensed Matter*, **403**, Issues 5-9, 1523 (2008)
- 15) **M. Filibian**, “Electronic properties of novel Alkali-doped Metal Phthalocyanines molecular crystals”, *Scientifica Acta*, N°1, Issue 1, pag. 133-136 (2007)
- 16) M. Corti, F. Carbone, **M. Filibian**, Th. Jarlborg, A. A. Nugroho and P. Carretta, “Spin dynamics in a weakly itinerant magnet from  $^{29}\text{Si}$  NMR in  $\text{MnSi}$ ”, *Phys. Rev. B* **75**, 115111 (2007)
- 17) **M. Filibian**, P. Carretta, T. Miyake, Y. Taguchi, and Y. Iwasa, “Low-energy excitations in the electron-doped metal phthalocyanine  $\text{Li}_{0.5}\text{MnPc}$  from  $^7\text{Li}$  and  $^1\text{H}$  NMR”, *Phys. Rev. B* **75**, 085107 (2007)
- 18) P. Santini, S. Carretta, E. Liviotti, G. Amoretti, P. Carretta, **M. Filibian**, A. Lascialfari, and E. Micotti, “NMR as a Probe of the Relaxation of the Magnetization in Magnetic Molecules”, *Phys. Rev. Lett.* **94**, 077203 (2005)
- 19) M. Corti, **M. Filibian**, P. Carretta, L. Zhao and L. K. Thompson, “Low-energy spin excitations in  $\text{Mn}_{[3 \times 3]}$  molecular nanomagnets”, *Phys. Rev. B* **72**, 064402 (2005)

## SUBMITTED PUBLICATIONS

- 20) Elena Elisei, **Marta Filibian**, Pietro Carretta, Sonia Colombo Serra, Fabio Tedoldi, Jean-François Willart, Marc Descamps, and Attilio Cesàro, “Dynamic Nuclear Polarization of a glassy matrix prepared by solid state mechanochemical amorphization of crystalline substances”, submitted in October 2014 to *Chemical Communications*