



ECMM2017

6TH EUROPEAN CONFERENCE ON
MOLECULAR MAGNETISM

August 27th - 31st, 2017 | BUCHAREST (ROMANIA)

Poster Session II - August 29th

II.1

COMPUTATIONAL STUDY OF SPIN CROSSOVER IN ZEOLITE CAVITY

J. Pavlik, A. Missana, L.M. Lawson Daku and A. Hauser

II.2

PHOTOMAGNETIC EFFECT IN $[Cd(bpy)]_2[M(CN)_8]_2$ ($M = Mo, W$) COORDINATION CLUSTERS

R. Jankowski, T. Korzeniak, D. Pinkowicz and B. Sieklucka

II.3

COBALT CONTAINING CALCIUM APATITES AS A NOVEL SOLID STATE INORGANIC SINGLE ION MAGNETS:
EFFECT OF APATITE'S ALKALINE EARTH METAL TYPE ON MAGNETIC PROPERTIES

M.A. Zykin, K.A. Babeshkin, M. Jansen and P.E. Kazin

II.4

FIELD EFFECT TO SLOW MAGNETIC RELAXATION IN A MONONUCLEAR NICKEL(II) COMPLEX

D. Lomjanský, J. Moncoľ, C. Rajnák, J. Titiš and R. Boča

II.5

CYANIDO-BRIDGED $\{Ln^{III}W\}$ HETEROBINUCLEAR COMPLEXES: SYNTHESIS AND MAGNETO-STRUCTURAL
STUDY

D. Visinescu, M.-G. Alexandru, S. Shova, F. Lloret and M. Julve

II.6

EXPLOITING THE ANION- π INTERACTIONS BETWEEN POLICYANIDOMETALATES AND MULTISITE ANION
RECEPTOR HAT(CN)₆

J. Kobylarczyk, D. Pinkowicz and R. Podgajny

II.7

NEW MAGNETICALLY ACTIVE HETEROMETALLIC COMPOUNDS BASED ON $[VO(CBDC)_2(H_2O)]^{2-}$ - BUILDING
BLOCKS AND LANTHANIDE(III) IONS

E. Bazhina, G. Aleksandrov, N. Efimov, A. Bogomyakov, A. Korlyukov, M. Kiskin, A. Sidorov and I. Eremenko

II.8

PORTRAYING ENTANGLEMENT BETWEEN MOLECULAR QUBITS WITH FOUR-DIMENSIONAL INELASTIC
NEUTRON SCATTERING

E. Garlatti, T. Guidi, S. Ansbro, P. Santini, G. Amoretti, J. Ollivier, H. Mutka, G. Timco, I.J. Vitorica-Yrezabal,
G.F.S. Whitehead, R.E.P. Winpenny and S. Carretta

II.9

Co^{II} AND Ni^{II} COORDINATION COMPOUNDS WITH ANIONS OF SUBSTITUTED MALONIC ACIDS: STRUCTURE AND MAGNETIC PROPERTIES

E. Zorina-Tikhonova, A. Sidorov, M. Kiskin, A. Vologzhanina, A. Bogomyakov, N. Efimov, V. Mironov and I. Eremenko

II.10

NEW Co(II)-Ce(III) HETEROMETALLIC COORDINATION POLYMER PRESENTING A 3D STRUCTURE AND WEAK FERROMAGNETIC BEHAVIOUR

C. Cruz, E. Spodine, D. Venegas-Yazigi and V. Paredes-García

II.11

STRUCTURAL AND MAGNETIC CHARACTERIZATION OF HETEROMETALLIC COORDINATION POLYMERS BASED ON Cu^{II}/Ln^{III} AND 4-IMIDAZOLEACRYLIC ACID LIGAND

B. Baldo, N. Audebrand, D. Venegas-Yazigi and V. Paredes-García

II.12

FERROTOROIDIC GROUND STATE IN A HETEROMETALLIC Cr^{III}Dy^{III}₆ MOLECULAR MAGNET

A. Soncini, K.R. Vignesh, S.K. Langley, W. Wernsdorfer, K.S. Murray and G. Rajaraman

II.13

CHOLESKY REPRESENTATION OF THE TWO-ELECTRON SPIN-ORBIT INTEGRALS

M. Piccardo and A. Soncini

II.14

LANTHANOID DIOXOLENE SYSTEMS: MAGNETIC AND PHOTOPHYSICAL INVESTIGATION OF A VERSATILE FAMILY

E. Rousset, M. Piccardo, R.W. Gable, B. Moubaraki, K. Murray, M. Massi, A. Soncini, L. Sorace and C. Boskovic

II.15 Flash Presentation 15

ROLE OF THE HYPERFINE INTERACTIONS IN THE ISOTOPICALLY ENRICHED SINGLE MOLECULE MAGNET

J. Flores González, L. Ouahab, F. Pointillart and O. Cador

II.16 Flash Presentation 16

MOLECULAR MAGNETISM IN LANTHANIDE METAL-ORGANIC FRAMEWORKS

M. Wang, W. Shi and P. Cheng

II.17 Flash Presentation 17

DRASTIC DECREASE OF ZERO-FIELD SPLITTING IN A COBALT(II) COMPLEX UNDER MAGNETIC DILUTION: A FD-FT THZ-EPR STUDY

I.A. Valuev, S.L. Veber, J. Nehrkorn, M.A. Kiskin, K. Holldack, A. Schnegg and M.V. Fedin

II.18 Flash Presentation 18

THE EXTENSION OF CYANIDO-BRIDGED CLUSTERS WITH N,O-DONATING LINKERS TOWARDS NEW MULTIMETALL SYSTEMS

K. Bednarek, B. Nowicka, D. Pinkowicz, S. Chorąży, J. Kobylarczyk, R. Podgajny

II.20 Flash Presentation 19

A MONOMETALLIC LANTHANIDE BIS(METHANEDIIDE) SINGLE MOLECULE MAGNET WITH A LARGE ENERGY BARRIER AND COMPLEX SPIN RELAXATION BEHAVIOUR

A.M. Ariciu, F. Tuna, N.F. Chilton, I.F. Crowe, W. Lewis, A.J. Blake, M. Kern, J. Van Slageren, D. Collison, E.J.L. McInnes, R.E.P. Winpenny and S. Liddle

II.21 Flash Presentation 20

UNDERSTANDING MOLECULE-SURFACE INTERACTION IN MOLECULAR SPINTRONIC DEVICES

E. Carolina Sañudo, L. Rosado Piquer and J. Dreiser

II.22 Flash Presentation 21

RADICAL-BRIDGED LANTHANIDE SINGLE-MOLECULE MAGNETS

S. Demir and J. R. Long

II.23 Flash Presentation 22

NOVEL STRATEGIES TO OBTAIN ROOM TEMPERATURE SENSING MOLECULAR-BASED SPIN CROSSOVER MATERIALS

J. Sanchez Costa, E. Fernandez-Bartolome, L. McCormick and S.J. Teat

II.24 Flash Presentation 23

SUPRAMOLECULAR ARRAYS OF CLUSTERS: FROM Cr₇Ni TO NEW HETEROMETALLIC WHEELS CONTAINING SPIN CENTRES

A.K. Kostopoulos, G.A. Timco, I.J. Vitorica-Yrezabal, A. Brookfield, D. Collison, E.J.L. McInnes, F. Tuna and R.E.P. Winpenny

II.26 Flash Presentation 24

SPIN-STATE VERSATILITY IN A SERIES OF [2x2] IRON(II)-GRID COMPLEXES: EFFECTS OF COUNTERANIONS, SOLVENTS AND INTRAMOLECULAR COOPERATIVITY

S. Demeshko, M. Steinert, S. Dechert and F. Meyer

II.27 Flash Presentation 25

OPTICAL PROPERTIES OF PHOTO- AND THERMOSWITCHABLE COMPOUNDS BASED ON COPPER(II) IONS AND STABLE NITROXIDE RADICALS

S.L. Veber, I.Yu. Barskaya, E.A. Suturina, P.S. Sherin, K.Yu. Maryunina, N.A. Artiukhova, R.Z. Sagdeev, V.I. Ovcharenko, N.P. Gritsan and M.V. Fedin

II.28 Flash Presentation 26

POINT AND LINE TO PLANE: AN AB INITIO STUDY OF SINGLE CHAIN MAGNETS ADSORBED ON SURFACE

M. Briganti, F. Totti and M.G.F. Vaz

II.29 Flash Presentation 27

SYMMETRY AND MAGNETISM: EASY AXIS TO EASY PLANE ANISOTROPY CONVERSION VIA TEMPERATURE CHANGE

M. Perfetti, M. A. Sørensen, U. B. Hansen, T. Fennell, G. G. Simeoni, K. Lefmann, H. Weihe, J. van Slageren and J. Bendix

II.30

COMPLETE MAGNETIC AND SPECTROSCOPIC CHARACTERIZATION OF A DYSPROSIUM-BASED SMM BUILDING BLOCK

M. Perfetti, M. Gysler, Y. Rechkemmer, F. Fisher, J. Netz, H. Tastan, P. Zhang, T. Brock-Nannestad, M. Orlita, L. Ungur, L. Chibotaru, S. Piligkos and J. Van Slageren

II.31

CONTROL OF THE MAGNETIC BEHAVIOUR OF CYANIDE COORDINATION POLYMERS BY THE INTRODUCTION OF SUPPORTING BRIDGING LIGANDS

G. Handzlik, B. Sieklucka and D. Pinkowicz

II.33

“STRENGTH GROWS OUT OF WEAKNESS” – EXPERIMENTAL AND THEORETICAL STUDIES ABOUT ANION-Π INTERACTIONS OF TETRACYANIDOMETALLATES(II)

E. Kuźniak, D. Pinkowicz, M. Srebro-Hooper, J.G. Hooper and R. Podgajny

II.34

IS LIEST EFFECT THAT UNIQUE? A PHOTOMAGNETIC STUDY OF OCTACYANIDOTUNGSTATE(IV) MOLECULAR ASSEMBLIES

M. Magott, B. Sieklucka and D. Pinkowicz

II.35

LANTHANIDE-RADICAL COMPLEXES WITH TWO DIFFERENT CENTERS: CRYSTAL STRUCTURE, MAGNETIC AND LUMINESCENT PROPERTIES

S.G. Reis, M. Briganti, S. Soriano, G.P. Guedes, S. Calancea, C. Tiseanu, M.A. Novak, M.A. del Águila-Sánchez, F. Totti, F. Lopez-Ortiz, M. Andruh and M.G.F. Vaz

II.37

RATIONAL DESIGN OF A CHIRAL ONE-DIMENTIONAL Dy(III)-RADICAL MAGNET

X. Liu, W. Shi and P. Cheng

II.38

VISUALIZING AND TUNING ANISOTROPY: THEORETICAL STUDY ON DY(III) BASED SINGLE-MOLECULE MAGNETS WITH TRITOPIC SCHIFF-BASE LIGANDS

M. Böhme, B. Kintzel, A. Buchholz and W. Plass

II.39

POLYNUCLEAR $3d$ - AND $4f$ -METAL COMPLEXES FOR POTENTIAL MOLECULAR SPINTRONICS APPLICATIONS

B. Kintzel and W. Plass

II.40

$3d$ - AND $4f$ -METAL COMPLEXES BASED ON AMPHIPHILIC TRIAMINOQUINIDIN AND OTHER NOVEL C_3 -SYMMETRIC LIGANDS.

M. Pohle, B. Kintzel and W. Plass

II.41

DISCRETE MOLECULAR CLUSTERS AS CRYOGENIC MAGNETIC REFRIGERANT

A. Adhikary and S. Konar

II.42

DEVELOPING NANOSTRUCTURED MAGNETIC MATERIALS FOR INDUSTRIAL APPLICATIONS

A. Caneschi, M. Albino, M. Petrecca, A. Lopez-Ortega and C. Sangregorio

II.43

PREDICTION OF CHERN INSULATOR WITH HIGH-TEMPERATURE FERROMAGNETISM IN NICKEL CHLORIDE MONOLAYER

J. He, X. Li, P. Lyu and P. Nachtigall

II.44

CLOSE ENCOUNTERS OF THE WEAK KIND: STUDIES OF AX ELECTRON SPIN-SPIN INTERACTION IN SUPRAMOLECULAR COMPLEXES

S. Lockyer, G.A. Timco, E.J.L. McInnes and R.E.P. Winpenny

II.45

XMCD STUDIES IN URANIUM SIM COMPOUNDS

L.C.J. Pereira, M.A. Antunes, J.T. Coutinho, M. Almeida, A. Hen and A. Rogalev

II.46

SYNTHESIS, CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF THE CU^{II} COMPLEX OF A NEW P-STEREOGENIC ORTHO-(4-AMINO-TEMPO) PHOSPHINIC AMIDE RADICAL

Y. Navarro García, F. López Ortiz, F. Lloret, G.P. Guedes and M.J. Iglesias

II.47

CRYPTANDS AS A LIGAND SCAFFOLD FOR THE SYSTEMATIC INVESTIGATION OF THE LANTHANOIDS MAGNETIC PROPERTIES

E. Kreidt and M. Seitz

II.48

REAL-TIME OBSERVATION OF PHASE TRANSITION IN SELF-ASSEMBLED MOLECULAR LAYERS ON SURFACES

J. Čechal, P. Procházka, L. Kormoš and T. Šikola

II.49

INVESTIGATION OF A NEW SERIES OF Ni^{II}–Ln^{III}–W^V HETEROTRIMETALLICS: UNDERSTANDING THE SMM BEHAVIOR OF MIXED POLYNUCLEAR COMPLEXES

V. Vieru, T.D. Pasatoiu, L. Ungur, E. Suturina, A.M. Madalan, C. Duhayon, J.P. Sutter, M. Andruh and L.F. Chibotaru

II.50

SYNTHESIS AND CHARACTERISATION OF CHIRAL MAGNETIC [Ln^{III}(TMU)₅][W^V(CN)₈] (Ln = Gd - Tm) COORDINATION CHAINS

O. Stefanczyk, K. Imoto, K. Nakabayashi and S. Ohkoshi

II.51

HETEROMETALLIC Mn^{III}₄Ln₂ (Ln = Dy, Gd, Tb) CROSS-SHAPED CLUSTERS AND THEIR HOMOMETALLIC Mn^{III}₄Mn^{II}₂ ANALOGUES

J. Tasiopoulos, M. Savva, K. Skordi, A.D. Fournet, A.E. Thuijs, G. Christou, S.P. Perlepes and C. Papatriantafyllopoulou

II.52

THE FIRST TETRAOXOLENE RADICAL-BRIDGED LANTHANIDE SINGLE MOLECULE MAGNET

P. Zhang, M. Perfetti, M. Kern and J. van Slageren

II.53

PHOTOEXCITED STATES OF THE PORHYRIN DIMERS AND TRIMER PROBED BY TIME-RESOLVED AND PULSE EPR

V.K. Voronkova, A.A. Sukhanov and V.S. Tyurin

II.54

LANTHANIDE-BASED ONE DIMENSIONAL COMPOUNDS CONTAINING NITRONYLNITROXIDE RADICAL LIGAND

C.V. Sarmiento, R.A. Allão Cassaro, T.S. Araujo, S.G. Reis, M.A. Novak and M.G.F. Vaz

II.55

GIANT SPIN-PHONON BOTTLENECK CHARACTERIZATION IN VANADYL-BASED MOLECULES WITH LONG SPIN COHERENCE TIME

L. Tesi, A. Lunghi, E. Lucaccini, L. Sorace, F. Luis, F. Totti and R. Sessoli

II.56

PROCESSING OF HOFMANN CHLATRATES AS ULTRATHIN FILMS: INVESTIGATION OF SPIN-CROSSOVER AND CHARGE TRANSPORT AT THE NANOSCALE

V. Rubio-Giménez, M. Galbiati, G. Escoria Ariza, G. Salvan, C. Bartual-Murgui, S. Tatay, J. Antonio Real, E. Coronado and C. Martí-Gastaldo

II.57

MESO AND NON-MESO FORMS OF Fe(III) SPIN CROSSOVER CHELATES

I.A. Kühne, S. Sundaresan, A. Barker, H. Müller-Bunz and G.G. Morgan

II.58

COORDINATION COMPLEXES OF COPPER(II) ION WITH SCHIFF BASE AS LIGAND: SYNTHESIS, CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES

M. Bută, C. Crețu, D. Aparaschivei, N. Stănică, P. Löennecke, C. Maxim, E. Hey-Hawkins, M. Andruh and O. Costișor

II.59

LACUNARY POLYOXOMOLYBDATES DERIVED FROM THE WELLS-DAWSON STRUCTURE

K. Wrighton-Araneda, V. Paredes-Garcia and D. Venegas-Yazigi

II.60

MAGNETIC AND ELECTRONIC DESCRIPTION OF THE FAMILY OF DIFFERENT $[V^{IV}_x V^{V}_y O_7(OCH_3)_{12}]^n$

K. Wrighton-Araneda, N. Soto-Donoso, P. Hermosilla-Ibañez, V. Paredes-Garcia and D. Venegas-Yazigi

II.61

MAGNETIC PROPERTIES OF A SERIES OF FOURFOLD NITROGEN-COORDINATED TRANSITION METAL COMPLEXES

H. Bamberger, D. Hunger, U. Albold, B. Sarkar and J. van Slageren

II.62

HOMO AND HETEROMETALLIC CLUSTERS OF V(IV), Mn(II/III), Co(II/III)/Cu(II), Co(II/III)/Mn(II/III), Co(II/III)/Fe(III) WITH AMINOALCOHOLS AND CARBOXYLIC ACIDS: SYNTHESIS, CRYSTAL STRUCTURES AND MAGNETIC PROPERTIES

V. Tudor, C. Maxim, A. Tanase, A. Topor, R. Poenaru, D. Hiuhiu, F. Lloret, M. Julve and M. Andruh

II.63

TTF-HELICENES FOR CONDUCTING MOLECULAR MATERIALS

K. Martin and N. Avarvari

II.64

SYNTHESIS, STRUCTURAL AND MAGNETIC CHARACTERISATION OF TWO ISOSTRUCTURAL $[Co^{II}Co^{III}_2]$ COMPLEXES

A. Collet, G. Craig, M. Heras Ojea, C. Wilson and Mark Murrie

II.65 Flash Presentation 28

COHERENT COUPLING BETWEEN VANADYL PHTHALOCYANINE SPIN ENSEMBLE AND MICROWAVE PHOTONS: TOWARDS INTEGRATION OF MOLECULAR SPIN QUBITS INTO QUANTUM CIRCUITS

C. Bonizzoni, A. Ghirri, M. Atzori, L. Sorace, R. Sessoli, and M. Affronte

II.66

SPIN FLIP INDUCED BY MICROWAVE PULSES IN A MOLECULAR SPIN TRANSISTOR

C. Godfrin, S. Lumetti, H. Biard, S. Klyatskaya, M. Ruben, A. Candini, M. Affronte, W. Wernsdorfer and F. Balestro

II.67

MAGNETO-OPTICAL MOLECULAR DEVICE: ENTANGLEMENT OF SPIN CROSSOVER, LUMINESCENCE, LIESST EFFECT AND PHOTOCHROMISM

M. Estrader, J. Salinas Uber, L. A. Barrios, J. García, P. Lloyd-Williams, O. Roubeau, S. J. Teat, G. Aromí
