

Tuesday, October 9



- [TuP-001]** Self-Assemblies of Oxovanadium(IV) and Nitridocromium(V) Complexes with Tetradentate Schiff Base Ligands and Their Intermolecular Magnetic Interactions
N. Yoshioka, N. Matsuoka, Y. Watanabe, C. Maeda
- [TuP-002]** Slow-Magnetic Relaxation in a Ln_2 -based Coordination Polymer
Zih-Rong Jhu, Gene-Hsiang Lee, Shie-Ming Peng, Chen-I Yang
- [TuP-003]** On the Possibility of Detecting Different Deca-Methyl Ferricinium Based Conformers Via Nuclear Gamma Resonance Spectra of Slowly Relaxing or Long Range Ordered Molecular Magnetic Phases
William M. Reiff, Joel S. Miller
- [TuP-004]** Magnetic Dipolar Order and Quantum Phase Transition in an Fe_8 SMM Crystal
E. Burzuri, F. Luis, B. Barbara, R. Ballou, E. Ressouche, O. Montero, J. Campo, S. Maegawa
- [TuP-005]** Transmission Band Gaps in Quasiperiodic Magnonic Crystals
P.W. Mauriz, U.L. Fulco
- [TuP-006]** Full Geometry Optimizations of XMn_4O_5 ($\text{X}=\text{Mg, Ca, Sr, Ba, Zn}$) Clusters by the UB3LYP Method. Substitution Effects of the Ca Ion with Other Divalent Ions in the Active Site of Water Splitting Reaction
K. Yamaguchi, H. Isobe, M. Shoji, S. Yamanaka, Y. Umena, K. Kawakami, N. Kamiya, J. R. Shen, T. Konno, M. Okumura
- [TuP-007]** A Tetrakaidecanuclear Manganese Complex Exhibits Slow Magnetic Relaxation Behaviors
Siang-Hua Huang, Chen-I Yang, Siang-Yu Jhan, Hui-Lien Tsai
- [TuP-008]** X-ray Structural Studies of Photomagnetic Prussian Blue Analogue Heterostructures
D. M. Pajerowski, B. Ravel, C. H. Lib, M. F. Dumont, D. R. Talham
- [TuP-009]** ESR Study of Light-Induced Valence Tautomerism of a Co Mononuclear Complex: $[\text{Co}(\text{phen})(3,5\text{-DTBSQ}) (3,5\text{-DTBCat})]$
Yoshio Teki, Atsushi Tashiro, Shinji Kanegawa, Osamu Sato

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[TuP-010] A New Isomer of the Single Molecule Magnet $Mn_{12}O_{12}(CH_3COO)_{16}(H_2O)_4$

Hanhua Zhao, Andrew Prosvirin, Kim R. Dunbar

[TuP-011] Spintronics Properties of Graphene Nanoflakes

E.L. Albuquerque, U.L. Fulco, L.R da Silva

[TuP-012] Magnetic Polaritons in Metamagnet Nanostructures

U.L. Fulco, E.L. Albuquerque, P.W. Mauriz

[TuP-013] Molecular Chains Containing Bis- β -Diketone as Ligands

Leoní A. Barrios, Jorge Salinas, Ivana Borilovic, Guillem Aromí, Olivier Roubeau

[TuP-014] Pressure-Induced Ferromagnetic Interactions in $Mn(N(CN)_2)_2$

P. A. Quintero, D. Rajan, M. K. Peprah, M. W. Meisel, D. R. Talham

[TuP-015] EPR Studies of CN bridged $Fe_2^{III}Ni^{II}$ Complexes and Their Fe^{III} Mononuclear Building-Blocks

C.C. Beedle, A. E. Kovalev, Y.-Z. Zhang, S. M. Holmes, S. Hill

[TuP-016] EPR Studies on a Holmium Based Single-Molecule Magnet

K. Thirunavukkuarasu, S. Ghosh, M. Muhandis, S. Datta, L. Friend, S. Cardona-Serra, E. Coronado, S. Hill

[TuP-017] High-Field Electron Paramagnetic Resonance Studies of Anisotropic Molecular Magnets

Junjie Liu, Xiaowen Feng, Joseph Zadrozny, Luke Batchelor, Talal Mallah, Jeffrey Long, Stephen Hill

[TuP-018] Direct Observation of Large Zero Field Splitting in a Tetrahedral $Ni^{(II)}$ Complex

S.-D. Jiang, S. Haas, L. Bogani, M. Dressel, N. Levesanos, D. Maganas, P. Kyritsis

[TuP-019] Hydrogen Bonding and Pressure Dependent Magnetic Behavior in $CuF_2(H_2O)_2(3\text{-ClPyridine})$

S. H. Lapidus, G. Halder, A. Clement, J. Schlueter

[TuP-020] Modulating Relaxation Dynamics of Lanthanide Single-Molecule Magnets

J. Tang

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- [TuP-021]** Computational Design of Novel Spintronic Materials
Zhijian Wu, Jing Wang
- [TuP-022]** A Lanthanide Single-Ion Magnet $[\text{Hex}_4\text{N}] [\text{Dy(DBM)}_4]$ with Multiple Relaxation Controlled by External Field
Wen-Bin Sun, Bing Yan, Bing-Wu Wang, Zhe-Ming Wang, Jun-Hua Jia, Song Gao
- [TuP-023]** Cobalt-Formate Frameworks of Binodal $(4^{12}\cdot 6^3)(4^9\cdot 6^6)_n$ ($n = 1, 2, 3$) Topologies, Templatated by Protonated Linear Polyamines, Showing Weak Ferromagnetism and Slow Dielectric Relaxation
Z.-M Wang, R. Shang, K.-L Hu, Z.-C Jiang, S. Gao
- [TuP-024]** Probing Anion Dependence of Homo- and Hetero-armed Tripodal Iron Spin-crossover Complexes
C.M. Klug, S. R. Fiedler, A. M. McDaniel, M. P. Shores
- [TuP-025]** A Diamond Interpenetrated 3D Network Based on Cobalt-Citrate Cubanes with SMM Behavior
Elena Forcén-Vázquez, Javier Campo, Larry R. Falvello, Fernando Palacio, Cristina Sáenz de Pipaón, Milagros Tomás
- [TuP-026]** Guest-Dependent Spin Crossover in a Hofmann type Coordination Polymer $\text{Fe}(4,4'\text{-bipyridyl})[\text{Au}(\text{CN})_2]_2 \cdot n\text{Guest}$
Kazuki Yoshida, Daisuke Akahoshi, Toshiaki Saito, Takafumi Kitazawa
- [TuP-027]** Thermodynamical Analysis for the Charge-Transfer-induced Spin Transition in a Co-W Bimetal Assembly
Y. Miyamoto, N. Ozaki, H. Tokoro, S. Ohkoshi
- [TuP-028]** Photomagnetic Phenomenon in Co-W Bimetal Assembly with a Large Coercive Field and a High Curie Temperature
N. Ozaki, H. Tokoro, S. Ohkoshi
- [TuP-029]** Cyano-Bridged Bimetal Assemblies Exhibiting Novel Magnetic Functionalities
S. Ohkoshi
- [TuP-030]** About the Hysteresis of Terbium(III) bis(phthalocyaninato) in Different Environments
L. Malavolti, A. Hofmann, M. Mannini, G. Campo, F. Pineider, Z. Salman, R. Sessoli

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- [TuP-031]** Two Novel Copper(II) Clusters with Di-2-pyridylketone
A. Acosta, P. Rosa, G.E. Kostakis, A.K Powell, F. Lloret, R. González, R. Chiozzone
- [TuP-032]** The Hybrid Inorganic-organic Coordination Networks Based on $[M^V(CN)_8]^{3-}$ ($M=Mo,W$) and Cu^{II} Complex with Pyrazine
Tomasz Korzeniak, Olaf Stefańczyk, Robert Podgajny, Michał Rams, Marcin Koziel, Wiesław Łasocha, Dariusz A. Zająć, Barbara Sieklucka
- [TuP-033]** On-Chip, Low Temperature Setup for Magnetic Resonance Studies
M.Martens, K.Serniak, S. Bertaina, and I. Chiorescu
- [TuP-034]** Facile Functionalization of Fe(II) Spin-crossover Complexes
Hoa Phan, Michael Shatruk
- [TuP-035]** Electrically Controlled Superparamagnetism Induced by Spin-transport
M. Misiorny, M. Hell, M. Wegewijs
- [TuP-036]** Temperature-Dependent Intramolecular Exchange Interactions of *p*-Phenylenebis(nitronylnitroxide) Biradicals in the Solid State
Y. Kanzaki, D. Shiomi, K. Sato, T. Takui
- [TuP-037]** Effect of Hydrogen Bonds on Magnetic Interaction of Oxidized [2Fe-2S] Ferredoxin Active Site
N. Yasuda, H. Hatake, Y. Kitagawa, T. Kawakami, S. Yamanaka, M. Okumura
- [TuP-038]** Theoretical Study of Aalkali Metal,Copper, Silver, and Gold Clusters: Stable Structures and Linear Response Functions
K. Ueda, S. Yamanaka, Y. Kitagawa, K. Kawakami, K. Yamaguchi, H. Nakamura, M. Okumura
- [TuP-039]** Slow Relaxation Processes of Unique Triple-Decker Sandwich Dy₂ Complex and 1D Spiral Dy_n Coordination Polymer
Jing Zhu, Guang-Ming Li, Guang-Feng Hou, Peng Chen, Peng-Fei Yan
- [TuP-040]** Conducting and Magnetic Properties of Assemblies of Gold Nano-Particles Stabilized by Phthalocyanine Double Decker Type Metal Complexes with Rare-Earth Metals (M = Tb,Dy,Er)
K. Kubo, M. Araki, Y. Noda, S. Noro, T. Akutagawa, T. Nakamura

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- [TuP-041]** A New Family of Carbonato-bridged Ln^{III}_2 Compounds with Slow Magnetic Relaxation
I. Castro, J. Vallejo, F.R. Fortea-Pérez, R. Ruiz-García, J. Cano, M. Julve, F. Lloret, O. Fabelo, E. Pardo
- [TuP-042]** Field-Induced Slow Magnetic Relaxation in a Six-Coordinated Mononuclear Cobalt(II) Complex with a Positive Anisotropy
Julia Vallejo, Isabel Castro, Rafael Ruiz-García, Joan Cano, Miguel Julve, Francesc Lloret, Giovanni De Munno, Wolfgang Wernsdorfer, Emilio Pardo
- [TuP-043]** Theoretical Perspective on the Magnetic Coupling of {3d-4f} and {2p-4f} Molecular Nano Magnets
Saurabh K. Singh, T. Rajeshkumar, T. Gupta, G. Rajaraman
- [TuP-044]** Influence of Counter Cations on the Magnetization Relaxation Dynamics of $[\text{Mn}^{\text{III}}_{20-x}\text{Mn}^{\text{II}}_x]^{n-}$ (where X = 2, or 4 or 6) Clusters
Maheswaran Shanmugam, Apoorva Upadhyay, Guillaume Chastanet, Roberta Sessoli, Wolfgang Wernsdorfer, Richard E. P. Winpenny
- [TuP-045]** Synthesis, Structure and Magnetic Properties of Cobalt(II) Di-nuclear Complexes Bridged by Verdazyl Radical Ligand
S. Kanegawa, S. Akiyoshi, S. Kang, O. Sato
- [TuP-046]** Controlling Conductivity in Magnetic Conductors of Cu-Ox Layer
B. Zhang, D. Zhu
- [TuP-047]** Paramagnetic Building Units for CuAAC Click Reactions
C. Plenk, E. Rentschler
- [TuP-048]** Crucial Role of Paramagnetic Ligands for Magnetostructural Anomalies in Copper-Nitroxide Complexes
E. Tretyakov, A. Suvorova, S. Tolstikov, G. Romanenko, A. Bogomyakov, S. Veber, M. Fedin, V. Ovcharenko
- [TuP-049]** Flexible Metallacrowns for a Rational Synthesis of SMMs
P. Happ, E. Rentschler

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- [TuP-050]** Reversible Crystal-To-Amorphous Structural Transformation In the Co(II) Complex With a Single Azide End-On Bridge: Coexistent Color and Magnetic Alterations
Kwang Soo Lim, Dae Won Ryu, Chang Seop Hong
- [TuP-051]** Photomagnetism in Copper Octacyanomolybdate Molecular Compounds: A Neutron Diffraction Investigation
K. Ridier, N. Bridonneau, V. Marvaud, A. Hammerschmied, B. Gillon, G. Chaboussant
- [TuP-052]** Molecular Magnetic Anisotropy and Polarized Neutron Diffraction: The Local Susceptibility Tensor Approach
Dominique Luneau, Ana Borta, Olga Iasco, Béatrice Gillon, Arsen Gukasov, Karl Ridier, Hiroshi Sakiyama, Masahiro Mikuriya
- [TuP-053]** Tuning of Magnetic Exchange Interactions of Antiferromagnetically Coupled Biradicals by Changing Radical Moiety for Quantum Computing
Prince Ravat, Martin Baumgarten
- [TuP-054]** Controlling Interchain Interaction in Weak-Ferromagnet [CrCyclam(C≡C-MeEDT-TTF)₂](Anion)₂(Solvent1)(Solvent2)₂
J. Nishijo
- [TuP-055]** Anion Dependent Redox Changes in Iron and Cobalt Nitronyl Nitroxides
I. A. Gass, C. J. Gartshore, D. W. Lupton, B. Moubaraki, A. Nefady, A. M. Bond, J. F. Boas, J. D. Cashion, G. Rajaraman, C. Milsmann, K. Wieghardt, K. S. Murray
- [TuP-056]** Electrochemically-Controlled Magnetism of Prussian Blue Analogues
T. Yamada, K. Morita, H. Yoshikawa, K. Awaga
- [TuP-057]** Single-Molecule Magnetism of the Mononuclear Co-based Complexes
Gao-Feng Wang, You Song, Xue-Tai Chen
- [TuP-058]** The O-P-O Bridged Mn^{III}-Salen Compounds: From Single-Molecule Magnet to Single-Chain Magnet?
Ting-Ting Wang, Song-Song Bao, Ze-Hua Zheng, Zhong-Li Xu, Li-Min Zheng

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- [TuP-059] Topotactic Solid State Redox of a Cyano-bridged Magnet
M. Okubo, K. Kagesawa, Y. Mizuno, D. Asakura, H. S. Zhou, A. Okazawa, N. Kojima
- [TuP-060] Double Quantum Transitions of Ground-state Triplet Iminonitroxide-nitroxide as Studied by Pulsed ESR Nutation Spectroscopy
Shigeaki Nakazawa, Moeko Kawamori, Kenji Sugisaki, Kazuo Toyota, Daisuke Shiomi, Kazunobu Sato, Takanori Furui, Masato Kuratsu, Shuichi Suzuki, Masatoshi Kozaki, Keiji Okada, Takeji Takui
- [TuP-061] Theoretical Studies on the Interaction of Oxygen Molecule to Graphene and Aromatic Hydrocarbons
Keiji Kinoshita, Akira Ito, Shohei Yoshimura, Takashi Kawakami, Yasutaka Kitagawa, Shusuke Yamanaka, Mitsutaka Okumura
- [TuP-062] Proton-induced Switching of the Single Molecule Magnetic Properties of a Porphyrin Based Tb^{III} Double-decker Complex
D. Tanaka, T. Inose, H. Tanaka, S Lee, N. Ishikawa, T. Ogawa
- [TuP-063] Field-Induced Slow Magnetic Relaxation of Isolated Nd(III) ion
Li-Hui Jia, Yan-Jun Wang, Bing-Wu Wang, Song Gao
- [TuP-064] Structures and Magnetic Properties of Transition Metal Complexes of Radical Anion Ligand tdapO₂
Y. Shuku, R. Suizu, K. Awaga
- [TuP-065] Magnetic Deposits in Human Organs
R. Boča, I. Dlháň, M. Kopáni, M. Miglierini
- [TuP-066] Spatially Resolved Magnetization Tunneling in the Fe₈ Nano-Magnet
Tom Leviant, Eli Zeldov, Yuri Myasoedov, Amit Keren
- [TuP-067] Development of Metal-TCNQ Conductors and Magnets: (TCNQ=7,7,8,8-tetracyanoquinodimethane)
Zhongyue Zhang, Hanhua Zhao, Kim R. Dunbar

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[TuP-068] Magnetic and EPR Studies of S = 3 nickel(II) Triangular Complexes Having μ_3 -hydroxo- and μ_3 -halogeno-bridges

Yumi Ida, Keiko Miyamoto, Ernst Horn, Michael L. Baker, Hiroyuki Nojiri, Takayuki Ishida

[TuP-069] Multilayered Networks Built from Polyoxometalates and Cyanometalates

J-D. Compain, K. Nakabayashi, S. Ohkoshi

[TuP-070] Two-dimensional Cobalt-octacyanotungsten Bimetallic Assemblies

K. Nakabayashi, D. Takahashi, T. Kinoshita, Shin-ichi Ohkoshi

[TuP-071] 2-D Manganese(II) Octacyanoniobate(IV) Bimetallic Assembly with 3-Hydroxypyridine as an Organic Ligand

D. Takahashi, K. Nakabayashi, S. Tanaka, S. Ohkoshi

[TuP-072] Optical Response in CuMo Bimetallic Assembly Around Room Temperature

Y. Umeta, H. Tokoro, S. Ohkoshi

[TuP-073] Cation Size Effect on Photomagnetism and Charge Transfer Phase Transition of Iron Mixed-valence Complexes with Spiropyrans

J. Yoshida, N. Kida, A. Okazawa N. Kojima

[TuP-074] Magneto-Structural Study of a Pd^{II}Co^{II} Chain Compound

W. X. C. Oliveira, M. A. Ribeiro, H. O. Stumpf, C. B. Pinheiro, W. C. Nunes, M. Julve, Francesc Lloret, Y. Journaux, C. L. M. Pereira

[TuP-075] Flattened-tetrahedral Weak-field Co^{II} Complexes: Candidates for Single-ion Based Single-molecule Magnets?

J. Titiš, M. Idešicová, R. Boča

[TuP-076] A New Oxamate-containing Cobalt(II) Chain: Synthesis, Crystal Structure and Magnetic Properties

L. H. G. Kalinke, T. L. Oliveira, D. C. C.Gomes, F. T. Martins, J. A. Ellena, J. Ferrando, M. Julve, F. Lloret

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[TuP-077] Synthesis, Crystal Structure and Magnetic Properties of the Helical Oxalate-bridged Copper(II) Chain $\{[(\text{CH}_3)_4\text{N}]_2[\text{Cu}(\text{C}_2\text{O}_4)_2]\text{H}_2\text{O}\}_n$

Ramon S. Vilela, Thiago L. Oliveira, Felipe T. Martins, Javier A. Ellena, Francesc Lloret, Miguel Julve, Danielle Cangussu

[TuP-078] A Two-Dimensional Oxamate and Oxalate-Bridged Cu^{II}Mn^{II} Motif: Crystal Structure and Magnetic Properties

T. R. G. Simões, M. V. Marinho, M. A. Ribeiro, C. L. M. Pereira, C. B. Pinheiro, Miguel Julve, F. C. Machado, H. O. Stumpf

[TuP-079] Fluorescent Nanomagnets: Towards New Nanostructured Materials

Daniel Reta Mañeru, E. Carolina Sañudo

[TuP-080] Calculating Magnetic Anisotropy Parameters

J. Cano

[TuP-081] Photomagnetic Effect in Cyanide-bridged Molecular Squares

A. Mondal, R. Lescouëzec, Y. Li, P. Herson, M. Seuleiman, M-L. Boillot, E. Riviere, L. Rechignat, A. Bousseksou, M. Julve

[TuP-082] A Novel Series of Mononuclear Spin Crossover Iron(III) and Manganese(III) Complexes

M. Harris, G. G. Morgan, H. Müller-Bunz, B. Gildea

[TuP-083] Large Spin-Reversal Barriers in Molecules that Contain a Single Transition-Metal Ion

J. M. Zadrozny, M. A. Atanasov, A. M. Bryan, C.-Y. Lin, B. D. Rekken, P. P. Power, F. Neese, J. R. Long

[TuP-084] Single-electron Transport and Correlations in a Quantum-dot Molecule

Javier Romero, Eduardo R. Mucciolo

[TuP-085] Linking [M^{III}]₃ Triangles with “Double Headed” Phenolic Oximes

K. Mason, J. Chang, A. Prescimone, E. Garlatti, S. Carretta, P. A. Tasker, E. K. Brechin

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[TuP-086] Nickel/Lanthanide Single-Molecule Magnets Derived from a Metal Ion-Promoted Ligand Reduction

C.G. Efthymiou, C. Papatriantafyllopoulou, T. Stamatatos, W. Wernsdorfer, G. Christou, A. J. Tasiopoulos, S. P. Perleps

[TuP-087] Interchangeable $\text{Ln}^{\text{III}}_4\text{M}^{\text{II}}_8$ Compounds as Molecular Refrigerants

T. N. Hooper, J. Schnack, S. Piligkos, M. Evangelisti, E. K. Brechin

[TuP-088] Supramolecular Assemblies Constructed From Molecular Nanomagnets

R. Inglis, S. Sanz, A. D. Katsenis, G. S. Papaefstathiou, P. Lusby, E. K. Brechin

[TuP-089] Pressure-Driven Orbital Reorientations and Coordination-Sphere Reconstructions in $[\text{CuF}_2(\text{H}_2\text{O})_2(\text{pyz})]$

A. Prescimone, S. Parsons, E. K. Brechin, S. Hill J. Schlueter

[TuP-090] Calixarene[4]-supported Ln^{III} clusters

S. Sanz, R. McIntosh, C. Beavers, S. Teat, M. Evangelisti, E. Brechin, S. Dalgarno

[TuP-091] Tuning the Physical Properties of $\text{Rb}_x\text{Co}_k[\text{Fe}(\text{CN})_6]_l \cdot n \text{ H}_2\text{O}$ Prussian Blue Analogues with Surfactant Coatings

Matthew J. Andrus, Katherine A. Somodi, Pedro A. Quintero, Khalil A. Abboud, Mark Meisel, Daniel R. Talham

[TuP-092] Solvent Induced Solid-Solid Phase Transitions in Layered-Perovskite Compounds

Caeu Favero Ferreira, Daniel R. Talham

[TuP-093] Thin Film Heterostructures of Prussian Blue Analogues and Hofmann-type Porous Coordination Polymers

Corey R. Gros, Pedro A. Quintero, Mark W. Meisel, Daniel R. Talham

[TuP-094] $\text{RbM}^{\text{II}}[\text{Fe}(\text{CN})_6]$ ($\text{M} = \text{Co, Ni}$) Prussian Blue Analogue Hollow Nanocubes: a New Example of a Multilevel Pore System

Olivia N. Risset, Elisabeth S. Knowles, Shengqian Ma, Mark W. Meisel, Daniel R. Talham

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- [TuP-095] Surface Stabilized Core-Shell Prussian Blue Analogue Nanoparticles Used as Electrode Materials in Li-ion Battery Studies

Carissa H. Li, Daniel R. Talham

- [TuP-096] Supramolecular Aggregates of Single Molecule Magnets from Bis-oxime Ligands

Tu N. Nguyen, Wolfgang Wernsdorfer, Khalil. A. Abboud, George Christou

- [TuP-097] A New Family of $Mn^{III}_8Ln^{III}_4$ Manganese-Lanthanide Single-Molecule Magnets From the Use of 2-(Pyridine-2-yl)propan-2-ol

Linh Pham, Maria Ghicas, Khalil A. Abboud and George Christou

- [TuP-098] Spin Resolved Measurements of Single Molecular Magnets on Surfaces

Jens Brede, Régis Decker, Jörg Schwöbel, Andrew Dilullo, Germar Hoffmann, Svetlana Klyatskaya, Mario Ruben, Roland Wiesendanger

- [TuP-099] Cyanide-Bridged Chiral Cage Molecules: High-Spin Clusters and Spin-Transition Phenomena

T. Shiga, T. Tetsuka, G.N. Newton, M. Nihei, H. Oshio

- [TuP-100] Magnetically Ordered Non-Prussian Blue Structured Manganese(II) Prussian Blue Analogues

C. M. Kareis, J. S. Miller, S. H. Lapidus, J. H. Her, P. W. Stephens

- [TuP-101] A Strictly Molecular Flexible Crystal as a Robust ON-OFF Switch at Room Temperature

J. S. Costa, S. Rodriguez, G. A. Craig, O. Roubeau, C. Beavers, S. J. Teat, G. Aromí

- [TuP-102] Controlling Spin in Molecule-Based Magnets

S. White, P. Pan, W. van Oz, H. Potter

- [TuP-103] Modeling of Thermal-Hysteresis Behavior of Spin-Transition in Molecular Magnet: The Artificial Neural Network Analysis

Wimalin Laosiritaworn, Yongyut Laosiritaworn

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