



Monday, October 8

- [MP-001]** Exploring Old and New Redox-active Ligands as Scaffolds for Molecule-based Magnetic Materials
M. T. Lemaire, K. Revunova, N. vanDamme
- [MP-002]** Functionalization of Molecule-based Magnets: Toward Magnetic Liquids and Liquid Crystals
Dmitri Mitcov, Diana Siretanu, Pierre Dechambenoit, Rodolphe Clérac
- [MP-003]** Ising Exchange Interaction in an Asymmetric Dy₂ Single-Molecule Magnet
Yunnan Guo
- [MP-004]** Precise Electrochemical Control of Ferromagnetism in a Bimetallic NiFe Prussian Blue Analog
Y. Mizuno, M. Okubo, K. Kagesawa, D. Asakura, T. Kudo, H. Zhou, K. Ohishi, A. Okazawa, N. Kojima
- [MP-005]** Synthesis, Structures and Magnetic/Dielectric Properties of Mixed-Metal Formates of [NH₄][Mn_{1-x}Co_x(HCOO)₃]
Ran Shang, Zheming Wang, Song Gao
- [MP-006]** Design of Nitronyl Nitroxide Columnar Self-Assemblies Exhibiting Strong Intermolecular Magnetic Interactions
N. Yoshioka, Y. Yamaguchi, M. Sugawara, S. Tajima, S. Jyo, T. Muraoka, C. Maeda
- [MP-007]** Synthesis and Properties of 2D Perovskite Organic-Inorganic Hybrid Multiferroic Compound
Jing Han, Atsushi Tsuruta, Motoko Akita, Sadafumi Nishihara, Katsuya Inoue
- [MP-008]** Synthesis and Structure of Palladium Complexes Coordinated by Nitronyl Nitroxides
H. Yokoi, X. Zhang, S. Suzuki, M. Kozaki and K. Okada
- [MP-009]** Synthesis and Redox Properties of Nitronyl Nitroxide-Pt Pincer-Type Complexes
X. Zhang, S. Suzuki, M. Kozaki, K. Okada
- [MP-010]** Conjunction of Chirality, Magnetic Anisotropy and Microporosity in the Supramolecular Network Constructed of Crossed Cyano-Bridged Co^{II}-W^V Molecular Chains
S. Chorazy, K. Nakabayashi, K. Imoto, B. Sieklucka, S. Ohkoshi

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- [MP-011]** A New Heptanuclear Ni(II) Cluster: Synthesis, Structure and Magnetism
Chen-I Yang, Chang-Jui Lin, Long-Li Lai, Gene-Hsiang Lee
- [MP-012]** Employing Fluoride Bridging as a Synthetic Strategy for New Types of Polynuclear Magnetic Systems
K. S. Pedersen, J. Bendix, J. Dreiser, M. Evangelisti, M. Schau-Magnussen, S. Singh, G. Rajaraman, T. Birk, S. Piligkos, C. Aagaard Thuesen
- [MP-013]** Tetranuclear 3d-4f Complexes of Hexaimine Macrocycles as Potential Single-Molecule Magnets
H. Feltham, R. Clérac, L. Ungur, L. Chibotaru, A. K. Powell, S. Brooker
- [MP-014]** Unexpected Reversible Solid State Redox Phenomena Exhibited by Members of a Family of Putative Molecular Magnets Based on Iron Dimers and Di-oxygen
W.M. Reiff, J. Kreisz, R. U. Kirss
- [MP-015]** Direct First Order Orbital vs Strong Spin-Orbit Coupling Contributions to the Paramagnetism of Linear Non-Jahn-Teller Distorted Divalent Cr, Fe, and Co Complexes: Observation of Mega-Gauss Internal Hyperfine Fields at Fe^{57} for the First Time
J. N. Boynton, W. A. Merrill, A. M. Bryan, P. P. Power and W.M. Reiff
- [MP-016]** Co-NC-W and Fe-NC-W Electron-Transfer Channels for Thermal Bistability in Fe-Co-[W(CN)₈] Systems
R. Podgajny, S. Chorąży, M. Wis, W. Nitek, A. M. Majcher, M. Rams, B. Marszałek, B. Gil-Knap, J. Żukrowski, C. Kapusta, B. Sieklucka
- [MP-017]** Multinuclear Fe(II) Spin-Crossover Complexes with Cyanometalate Bridging Ligands: Structural Variations and Magnetic Properties
O. Hietsoi, A. Arroyave, P. Dunk, C. Achim, M. Shatruk
- [MP-018]** Strong Orientation Dependence of Electron Spin Decoherence in a Molecular Magnet
J.Wang, Z. Wang, A.Ozarowski, J.van Tol, N. S. Dalal
- [MP-019]** Effect of Symmetry on Spin-Orbital Coupling along the Cr-Cr-Cr Chains in $\text{Cr}_3(\text{dpa})_4\text{Cl}_2$ and $\text{Cr}_3(\text{dpa})_4\text{ClBF}_4$: High-Field EPR Study and DFT Calculation
J.Wang, Z. Wang, A.Ozarowski, J.van Tol, N. S. Dalal

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- [MP-020]** SQUID Measurement in Molecule-Based Magnets
G. Yue, W. Wernsdorfer, I. Chiorescu
- [MP-021]** Pulsed EPR in Molecule-Based Magnets
J. van Tol, S. Takahashi, Z. Wang, J. Wang
- [MP-022]** Salen Type Triple-decker Trinuclear Dy_3 Complexes Showing Slow Magnetic Relaxation Behavior
F. Yang, P. Yan, Q. Li, P. Chen, G. Li
- [MP-023]** Metallo(II)-Phthalocyanines with Coordinated Ruthenium on Surfaces
J. Klanke, K. Medjanik, G. Schönhense, H.-J. Elmers, E. Rentschler
- [MP-024]** A Two-Dimensional Alkali Metals-based Spin-Crossover Coordination Compound that Exploits Cation- π Interactions
S. Kang, Y. Shiota, A. Kariyazaki, S. Kanegawa, K. Yoshizawa, O. Sato
- [MP-025]** Evidence of Electron-transfer Ferromagnetism in Mixed-valent Fe Anilato-bridged 2D-networks
N. Ovanesyan, Z. Nikitina, G. Shilov, S. Aldoshin, V. Makhaev, Y. Li, M. Gruselle, C. Train
- [MP-026]** Simulation of Single Crystal High Frequency EPR spectra of Fe8 and Quantum Magnetic Phase Transitions
J.A. Campos, J.G. Hirsch
- [MP-027]** Strong-Coupled Stable Triplet Biradicals
S. Tolstikov, S. Fokin, E. Tretyakov, G. Romanenko, A. Bogomyakov, D. Stass, A. Maryasov, N. Gritsan, V. Ovcharenko
- [MP-028]** “Jumping crystals”: Packing Plays a Key Role
V. Ovcharenko, S. Fokin, E. Fursova, O. Kuznetsova, E. Tretyakov, G. Romanenko, A. Bogomyakov, S. Tolstikov, R. Z. Sagdeev
- [MP-029]** Thermally and Photoinduced Spin Transition in Mononuclear iron(II)-bis(pyrazolyl)pyridine Complexes
I. Šalitroš, Bernard Schäfer, M. Ruben, R. Boča, W. Linert

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- [MP-030]** Measuring Magnetic Anisotropy of an Individual Fe₄ SMM
E. Burzuri, A.S. Zyazin, A. Cornia, H.S.J. van der Zant
- [MP-031]** Magnetic Property on Layered Assembly of Inorganic Nanosheets
T. Yamamoto, H. Namba, Y. Einaga
- [MP-032]** A Novel 3-fold Interpenetrated Iron(II) Square-grid Framework with SCO Property
Takayoshi Kuroda-Sowa, Takayuki Masuda, Takashi Okubo, Masahiko Maekawa
- [MP-033]** Cyanide- And Phenoxide-Bridged Fe^{II}Mn^{III} Single-molecule Magnet Constructed by Highly Protected Paramagnetic Precursors
D. W. Ryu, K. J. Cho, H. Y. Kwak, K. S. Lim, C. S. Hong
- [MP-034]** Role of Organic Spin in Heterospin Single-molecule Magnets
S. Karasawa, N. Koga
- [MP-035]** Proton-Coupled Ligand Tautomerism-Induced Multi-Step Spin and Phase Transition in Mononuclear Fe^{III} Compound
Z. Y. Li, J. W. Dai, S. Kanegawa, S. C. Kang, O. Sato
- [MP-036]** Heterospin Chain Magnets Consisted of Aminoxy and Cobalt(II) Ion
Kensuke Murashima, Satoru Karasawa, Noboru Koga
- [MP-037]** Magnetic Anisotropy and Spin Parity Effect Along the Series of Late Lanthanide DOTA complexes
M.-E. Boulon, G. Cucinotta, C. degl'Innocenti, M. Perfetti, J. Luzon, R. Sessoli
- [MP-038]** Stepwise Spin-Peierls-Like Transitions in π -Extended Cyclic Thiazyl Biradicals
R. Suizu, Y. Shuku, K. Awaga
- [MP-039]** Controlling the Coordination Geometries and Magnetic Behaviors of [Ln(hfac)₄]⁻ through Alkali Metal Counterions
Dai Zeng, Song-song Bao, Li-min Zheng

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- [MP-040]** A Molecular Multiferroic Based on Single-Molecule Magnet Assembly
Y.-X. Wang, W. Shi, H. Li, Y. Song, L. Fang, Y.-H Lan, A. K. Powell, W. Wernsdorfer, L. Ungur, L. F. Chibotaru, M. Shen, P. Cheng
- [MP-041]** Magnetic Blocking from Exchange Interaction
T. Han, W. Shi, P. Cheng
- [MP-042]** Theory of Chemical Bonds in Metalloenzymes XVI. A New Strategy for Rational Design of Artificial Water Oxidation Systems based on Hole-doped Mott Insulators
K. Yamaguchi, H. Isobe, M. Shoji, S. Yamanaka, S. Yamada, T. Kawakami, Y. Kitagawa, M. Okumura
- [MP-043]** Highly Anisotropic Mononuclear Rhenium(IV) Complexes: New Examples of Single Molecule Magnets
J. Martínez-Lillo, T. F. Mastropietro, E. Lhotel, C. Paulsen, G. De Munno, J. Faus, F. Lloret, M. Julve, S. Nellutla, J. Krzystek
- [MP-044]** Structural Study of Vanadium Tetracyanoethylene
D.M. Pajerowski, C.M. Kareis, J.L. Arthur, K.L. Page, J.L. Miller, J.W. Lynn
- [MP-045]** Syntheses and Magnetic Properties of Stable-radicals-substituted π-Donor Molecules
S. Suzuki, A. Nagata, M. Kozaki, D. Shiomi, K. Sato, T. Takui, K. Okada
- [MP-046]** Pulsed Electron Spin Nutation Spectroscopy of Weakly Exchanged-Coupled Biradicals: A General Theoretical Approach to the Transition Moment Spectroscopy and Determination of the Spin Dipolar Interaction
Kazuki Ayabe, Kazunobu Sato, Shinsuke Nishida, Tomoaki Ise, Shigeaki Nakazawa, Kenji Sugisaki, Yasushi Morita, Kazuo Toyota, Daisuke Shiomi, Masahiro Kitagawa, Takeji Takui
- [MP-047]** Molecular Spin Manipulation of Isotope-labeled Diphenylnitroxides in Single Crystals by a Pulsed ELDOR-NMR Technique
A. Tanaka, K. Sato, T. Yoshino, S. Nishida, S. Nakazawa, R. Rahimi, K. Toyota, D. Shiomi, Y. Morita, M. Kitagawa, T. Takui
- [MP-048]** Syntheses and Magnetic Properties of Nitronyl-Nitroxides with an Adjacent Chiral Group
R. Tanimoto, S. Suzuki, M. Kozaki, D. Shiomi, K. Sato, T. Takui, K. Okada

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- [MP-049]** Spin Dynamics and Photoexcited High-Spin State of Functionality π -Radical via Quantum-Mixed State
Yoshio Teki, Takafumi Matsumoto, Yohei Takemoto, Yusuke Kawanaka
- [MP-050]** DFT Studies of Weak Magnetic Interactions between Oxovanadiums in $(VO)_n$ Magnetic Rings
Y. Kitagawa, N. Yasuda, H. Hatake, T. Matsui, T. Kawakami, S. Yamanaka, M. Nihei, H. Oshio, M. Okumura, K. Yamaguchi
- [MP-051]** Degeneracy Lifting of Spin Ground States in Cubic-Symmetry Single-Molecule Magnets
M. Nakano
- [MP-052]** Ordered Chiral *yfh* Type Magnetic Net in Azido System with 2,6-Pyridinedicarboxylate as Co-ligand
Qian Yang, Jiong-Peng Zhao, Xian-He Bu
- [MP-053]** An Endohedral Single-ion Magnet with Long Relaxation Times: $DySc_2N@C_{80}$
R. Westerström, J. Dreiser, C. Piamonteze, R. Stania, F. Matsui, S. Weyeneth, S. Rusponi, H. Brune, F. Nolting, S. Yang, M. Muntwiler, A. Popov, L. Dunsch, T. Greber
- [MP-054]** Two Anthracene-Based Mononuclear Dysprosium Complexes: Slow Magnetic Relaxation Behaviors and Fluorescent Properties
D.-K. Cao, Z.-S. Cai, S.-S. Bao, L.-M. Zheng
- [MP-055]** How Large is the Zero-Field Splitting in Co(II) Complexes?
L. Dlháň, M. Rábeková, R. Boča
- [MP-056]** Bimetallic Ferrimagnetic Molecular Nanotube Based on $[Fe(bpy)(CN)_4]^-$ unit
Xiao-Jiao Song, You Song
- [MP-057]** Azido-Bridged Lanthanides: Structures and Magnetic Properties
X. C. Huang, X. Y. Wang
- [MP-058]** Single-Ion Anisotropy in Ti^{III} Building Blocks
Andrew Brown, Andrey Prosvirin, and Kim R. Dunbar



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[MP-059] Investigating the Role of 4d and 5d Trivalent Hexacyanometallate Anions in Analogs of Prussian Blue and Prussian Blue-type Magnetic Materials

C. Sanders, A. Prosvirin, C. Achim, K. Dunbar

[MP-060] Exploring the Magnetic Coupling Capabilities of a Tetrazine-Based Radical Ligand

T. J. Woods, J. V. Frank, A. Prosvirin, K. R. Dunbar

[MP-061] Magnetic Coupling in Metal-Organic Frameworks through 7,7,8,8-Tetracyanoquinodimethane Dianion

Xuan Zhang, Lei Sun, Andrey V. Prosvirin, Kim R. Dunbar

[MP-062] A series of One Dimensional Compounds Based on the Hexacyanomanganate(III) Anion Including a Single Chain Magnet

Hanhua Zhao, Andrew Prosvirin and Kim R. Dunbar

[MP-063] Exploring Spintronic Device Applications for the Organic Magnet, $V[TCNE]_{x-2}$

M. Harberts, B. Li, C. Kao, H. Yu, J. Yoo, Y. Lu, V. Prigodin, E. Johnston-Halperin, A. Epstein

[MP-064] Hexachlororhenate(IV) Salts of cationic salicylamidoxime-based Mn^{III}_6 Single-Molecule Magnets

J. Martínez-Lillo, E. K. Brechin

[MP-065] Magnetic and EPR Studies on Radical-Lanthanide-Based Single-Molecule Magnets

Takayuki Ishida, Rina Murakami, Takuya Kanetomo, Michael L. Baker, Shunsuke Yoshii, Hiroyuki Nojiri

[MP-066] Crystal Structures and Magnetic Properties of Two-dimensional Copper(II) Complexes Bridged with Pyrazine-2-carboxamide

Mizuki Yoshida, Takashi Shimada, Takayuki Ishida, Tamizo Kogane

[MP-067] Observation of High Curie Temperature in a Cyano-bridged V-Nb Bimetallic Assembly

K. Imoto, M. Takemura, H. Tokoro, S. Ohkoshi

[MP-068] Electric-Field Manipulation of the Spin State in Transparent pH-Sensitive Spin-Crossover Complex, $[Fe^{II}(diAMsar)]@Nafion$

H. Kamebuchi, T. Jo, A. Okazawa, M. Enomoto, N. Kojima

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[MP-069] Chemical Modification of 4f–3d Heterometallic [Ln₂Ni]-type Single-Molecule Magnets

A. Okazawa, T. Ishida, H. Nojiri, S. Yoshii, N. Kojima

[MP-070] Peculiarity in the Spin-crossover Process in Model Heme Complexes

Y. Ohgo, K. Takahashi, M. Takahashi, Y. Namatame, H. Konaka, H. Mori, S. Neya, D. Hashizume

[MP-071] XMCD Investigation of Charge Transfer Induced Spin Crossover in a One Dimensional Fe-Co Complex

M. L. Baker, K. Tazoe, T. Nakamura, Y. Narumi, H. Oshio, H. Nojiri

[MP-072] Magnetic Properties of Tb(III)-Cd(II)-Phthalocyaninato Complexes

Y. Horii, K. Katoh, M. Yamashita

[MP-073] Synthesis and Magnetic Study of Novel Mononuclear Re(II) Complexes

M. Pacheco, A. Cuevas, J. González-Platas, M. Julve, F. Lloret, C. Kremer

[MP-074] Structure and Magnetic Behaviour of Co(II) and Ni(II) Tetranuclear Cubane-Like Complexes

C. Pejo, G. Pereira, M. Novak, M. Vaz, F. Lloret, R. Chiozzone, R. González

[MP-075] General Research on the Electronic, Band Structures and the Magnetic Properties of the Sr₂DyRuO₆

C. A. Triana, D. A. Landínez Téllez, J. Roa-Rojas

[MP-076] Magneto-structural Study of the Three-dimensional 2,5-pyrazinedicarboxylate-containing Nd(III) Complex

D. O. Reis, M. V. Marinho, W. X. C. Oliveira, H. O. Stumpf, C. B. Pinheiro, J. Vallejo, F. Lloret, M. Julve

[MP-077] Magnetic Properties of a 2D Oxamato-Based Magnet Containing Imidazolium and its SWCNT-Composite

W. D. Pim, G. A. M. Sáfar, W. P. Barros, K. R. Piota, C. L. M. Pereira, H. O. Stumpf

[MP-078] Volatile Fe₄ Single Molecule Magnets with Fluorinated Ligands

Luca Rigamonti, Roberta Sessoli, Andrea Cornia, Marco Piccioli, Luigi Malavolti

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- [MP-079]** First Manganese Complexes with 2-Acetonitrilepyridyloximate: Synthesis and Magnetic Study
J. Esteban, A. Escuer, B. Cordero, L. Alcázar, M. Font-Bardia, V. Tangoulis
- [MP-080]** Magnetic Anisotropy and Exchange studies of One-dimensional Co(II) Molecular Chains
A. Amjad, J. Liu, G. M. Espallargas, M. Shiddiq, J. M. Clemente-Juan, E. del Barco, S. Hill, E. Coranado, M. Evangelisti
- [MP-081]** Exploration of the Berry Phase Interference in Low Nuclearity Single-molecule Magnets
H. M. Quddusi, J. Liu, P. L. Feng, K. J. Heroux, E. del Barco, S. Hill, D. N. Hendrickson
- [MP-082]** Electronic Transport of Mn₄ Single-molecule Magnet in a Single-Electron Transistor
A. Rodriguez, S. Singh, F. Haque, E. del Barco, T. Nguyen, G. Christou
- [MP-083]** Electronic Structure Characterization of a Series of [Mn₃O]⁷⁺ Core Single Molecule Magnets by Inelastic Neutron scattering
M. Sigrist, H. Mutka, K. S. Pedersen, M. Schau-Magnussen, J. Bendix
- [MP-084]** High Nuclearity Clusters and Single Molecule Magnets from the combination of Diols and Oxime Ligands
M. Manoli, R. Inglis, M. J. Manos, E. K. Brechin, A. J. Tasiopoulos
- [MP-085]** Heterostructured Prussian Blue Analogue Films with Imbedded Nanoparticles Constructed using Langmuir-Blodgett and Sequential Absorption Techniques
Allison L. Garnsey, Marcus Peprah, Mark W. Meisel, Daniel R. Talham
- [MP-086]** Magnetic Response of MnF(salen) at Low Temperatures and in High Magnetic Fields: a New S = 2 Haldane System
Ju-Hyun Park, Olivia N. Risset, Muhandis Shiddiq, Marcus K. Peprah, Elisabeth S. Knowles, Christopher C. Beedle, Matthieu F. Dumont, Stephen Hill, Daniel R. Talham, Mark W. Meisel
- [MP-087]** Deposition of Photomagnetic CoFe Prussian Blue Analogue Films on Thin LPCMO Substrates
M. F. Dumont, P.A. Quintero, D. M. Grant, E. S. Knowles, H. J. Jeen, A Biswas, D. R. Talham, M. W. Meisel

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[MP-088] Effects of Pressure on the Magnetic Properties of CuFe Prussian Blue Analogue Heterostructures

M. K. Peprah, C. H. Li, D. R. Talham, M. W. Meisel

[MP-089] Attempts to Assess the Dimensionality-Property Relationship in Single-Molecule Magnets

C. McDaniel, A. Castro, C. Papatriantafyllopoulou, A. M. Mowson, A. J. Tasiopoulos, G. Christou, C. Lampropoulos

[MP-090] Magnetic Clusters as Analyte Recognition Compounds in Sensors

J. Henthorn, N. Mishra, J. S. Huebner, C. Lampropoulos

[MP-091] Structural and Magnetic Properties of Four Layered Dicyanamide-Based Coordination Polymers: $M\{N(CN)_2\}_2(DMSO)_2$, [M = Mn, Fe, Co, Ni]

Divya Rajan, Pedro A. Quintero, Khalil A. Abboud, Mark W. Meisel, Daniel R. Talham

[MP-092] The Magnetocaloric Effect of Lanthanide-based Materials

J. W. Sharples, F. Tuna, R. Pritchard, D. Collison

[MP-093] Intramolecular Electron-transfer-coupled Spin Transition in a CoFe Square Controlled by Chemical Modifications

Y. Sekine, M. Nihei, H. Oshio

[MP-094] EPR Studies of the Coordination-Polymer $[CuF_2(H_2O)_2(\text{pyrazine})]$ Under Pressure

C. C. Beedle, C. Morien, A. Prescimone, S. Tozer, J. Manson, J. A. Schlueter, E. K. Brechin, S. Hill

[MP-095] Pressure-dependence of Magnetic Anisotropy in Heavy-atom Organic Radical Ferromagnets

C.C. Beedle, K. Thirunavukkumarasu, S.M. Winter, A.E. Kovalev, S. Tozer, S. Hill, R.T. Oakley

[MP-096] Cavity Perturbation Technique: The Effects of Crystal Size on the EPR Spectra of Fe_8

M. Shiddiq, J. Liu, C. C. Beedle, S. Hill

[MP-097] Pressure-induced Spin Crossover in a Prussian Blue Analogue

G. J. Halder, K. W. Chapman, P. J. Chupas, J. A. Schlueter, A. M. Dos Santos

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- [MP-098]** A Rare Behavior in Fe^{III} Complexes: LIESST Effect in Oxalate-based Multifunctional Materials. Photophysical and Magnetic Studies

M. López-Jordà, M. Clemente-León, E. Coronado, A. Tissot, A. Hauser, C. Desplanches, H. Wang, J.-F. Létard

- [MP-099]** Toward to Spin Phase Control in Macroscopic Scale by Chiral Helical Magnetic Structures

K. Inoue, J. Kishine, J. Akimitsu, Y. Togawa, S. Nishihara, S. Mori, Y. Kosaka, M. Miyagawa

- [MP-100]** Role of Intrinsic Stresses on Critical Spin-Crossover Diagram in Molecular Magnet: Monte Carlo Simulation

Y. Laosiritaworn

- [MP-101]** Optimization of Optical Properties of Annealed Cadmium Selenide (CdSe) Thin Films Grown by Chemical Bath Deposition Technique

E.I. Ugwu, H.U. Igwe, D.U Onah

- [MP-102]** The Structure and Magnetic Properties of a 3d-4f Co^{III}₂Dy^{III}₄ Cluster

Siang-Yu Jhan, Siang-Hua Huang, Chen-I Yang, Hui-Lien Tsai

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