

Publication List

159 Papers (139 Original papers, 2 Reviews, 18 Proceedings)

Sum of the Times Cited: 5253 Average Citations: 33.67 h-index: 39

(Web of Knowledge, June 2012)

Original Papers

1. Sequestering Organic Pollutants by a Spin Crossover Fe(II) Microporous Coordination Polymer, F. J. Muñoz, A. B. Gaspar, M. C. Muñoz, M. Arai, S. Kitagawa, **M. Ohba**, J. A. Real, *Chem. –Eur. J.*, **18**, 8013-8018 (2012).
2. The Promotion of Low-Humidity Proton Conduction by Controlling Hydrophilicity in Layered Metal-Organic Frameworks, M. Sadakiyo, H. Ōkawa, A. Shigematsu, **M. Ohba**, T. Yamada, H. Kitagawa, *J. Am. Chem. Soc.*, **134**, 5472-5475 (2012).
3. A Switchable Molecular Rotator: Neutron Spectroscopy Study on a Spin-Crossover Compound, J. A. Rodríguez-Velamazán, M. A. González, J. A. Real, M. Castro, M. C. Muñoz, A. B. Gaspar, R. Ohtani, **M. Ohba**, K. Yoneda, Y. Hijikata, N. Yanai, M. Mizuno, H. Ando, S. Kitagawa, *J. Am. Chem. Soc.*, **134**, 5083-5089 (2012).
4. Enhanced Bistability by Guest Inclusion in Fe(II) Spin Crossover Porous Coordination Polymers, F. J. Muñoz, A. B. Gaspar, D. Aravena, E. Ruiz, M. C. Muñoz, **M. Ohba**, R. Ohtani, S. Kitagawa, J. A. Real, *Chem. Commun.*, 4686-4688 (2012).
5. One-dimensional 3d-3d-4f Trimetallic Assemblies Consisting of $\text{Cu}^{\text{II}}_2\text{Ln}^{\text{III}}$ Trinuclear Complexes and Hexacyanometallate, T. Shiga, A. Mishima, K. Sugimoto, H. Ōkawa, H. Oshio, **M. Ohba**, *Eur. J. Inorg. Chem.*, **16**, 2784-2791 (2012).
6. Porous Protein Crystals as Reaction Vessels for Controlling Magnetic Properties of Nanoparticles, S. Abe, M. Tsujimoto, K. Yoneda, **M. Ohba**, T. Hikage, M. Takano, S. Kitagawa, T. Ueno, *Small*, **8**, 1314-1319 (2012).
7. Two Coordination Polymers of Manganese(II) Isophthalate and Their Preparation, Structures, and Magnetic Properties, J. Chen, J. Wang, **M. Ohba**, *J. Solid State Chem.*, **185**, 37-41 (2012).
8. Theoretical Study on Guest-Induced High-Spin to Low-Spin Transition of $\{\text{Fe}(\text{pyrazine})[\text{Pt}(\text{CN})_4]\}$: Origin of Entropy Decrease, H. Ando, Y. Nakao, H. Sato, **M. Ohba**, S. Kitagawa, S. Sakaki, *Chem. Phys. Lett.*, **511**, 399-404 (2011).
9. Precise Control and Consecutive Modulation of Spin Transition Temperature Using Chemical Migration between Porous Coordination Polymers, R. Ohtani, K. Yoneda, S. Furukawa, N. Horike, S. Kitagawa, A. B. Gaspar, M. C. Muñoz, J. A. Real, **M. Ohba**, *J. Am. Chem. Soc.*, **133**, 8600-8605 (2011)
10. Unique Spin Transition and Wide Thermal Hysteresis Loop for a Cobalt(II) Compound with Long Alkyl Chain, S. Hayami, K. Kato, Y. Komatsu, A. Fuyuhiko, **M. Ohba**, *Dalton Trans.*, **40**, 2167-2169 (2011).
11. Magnetic Properties of Segregated Layers Containing $\text{M}^{\text{II}}_3(\mu_3\text{-OH})_2$ (M = Co or Ni) Diamond Chains Bridged by *cis,cis,cis*-1,2,4,5-Cyclohexanetetracarboxylate, M. Kurmoo, K. Otsubo, H. Kitagawa, M. Heenry, **M. Ohba**, S. Takagi, *Inorg. Chem.*, **49**, 9700-9708 (2010).
12. Magnetic Properties of Nitric Oxide Molecules Physisorbed into Nano-sized Pores of MCM-41, M. Mito,

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13. Guest-responsive Porous Magnetic Frameworks Using Polycyanometallates, **M. Ohba**, K. Yoneda, S. Kitagawa, *Cryst. Eng. Comm.*, **12**, 159-165 (2010).
 14. Oxidative Addition of Halogens on Open Metal Sites in a Microporous Spin Crossover Coordination Polymer, G. Agusti, R. Ohtani, K. Yoneda, A. B. Gaspar, **M. Ohba**, J. F. Sánchez-Royo, M. C. Muñoz, S. Kitagawa, J. A. Real, *Angew. Chem. Int. Ed.*, **48**, 8944-8947 (2009).
 15. Oxalate-Bridged Bimetallic Complexes $\{\text{NH}(\text{prol})_3\}[\text{MCr}(\text{ox})_3]$ ($\text{M} = \text{Mn}^{\text{II}}, \text{Fe}^{\text{II}}, \text{Co}^{\text{II}}$; $\text{NH}(\text{prol})_3^+ = \text{Tri}(3\text{-hydroxypropyl})\text{ammonium}$) Exhibiting Coexistent Ferromagnetism and Proton Conduction, *H. Ōkawa, A. Shigematsu, M. Sadakiyo, T. Miyagawa, K. Yoneda, **M. Ohba**, H. Kitagawa, *J. Am. Chem. Soc.*, **131**, 13516-13522 (2009).
 16. Bidirectional Chemo-switching of Spin State in a Microporous Framework, **M. Ohba**, K. Yoneda, G. Agusti, M. C. Muñoz, A. B. Gaspar, J. A. Real, M. Yamasaki, H. Ando, Y. Nakao, S. Sakaki, S. Kitagawa, *Angew. Chem. Int. Ed.*, **48**, 4767-4771 (2009).
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 20. Fabrication of Two-Dimensional Polymer Arrays: Template Synthesis of Polypyrrole between Redox-Active Coordination Nanoslits, N. Yanai, T. Uemura, **M. Ohba**, Y. Kadowaki, M. Maesato, M. Takenaka, S. Nishitsuji, H. Hasagawa, S. Kitagawa, *Angew. Chem. Int. Ed.*, **47**, 9883-9986 (2008).
 21. Porous Coordination Polymer having Bond Switching Mechanism Showing Reversible Structural and Functional Transformations, S. K. Ghosh, W. Kaneko, D. Kiriya, **M. Ohba**, S. Kitagawa, *Angew. Chem. Int. Ed.*, **47**, 8843-8847 (2008).
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 25. A Homometallic Ferrimagnet Based on Mixed Antiferromagnetic and Ferromagnetic Interactions through Oxamate and Carboxylato Bridges, K. Yoneda, Y. Hori, **M. Ohba**, S. Kitagawa, *Chem. Lett.*, **37**, 64-65 (2008).
 26. A Flexible Coordination Polymer Crystal Providing Reversible Structural and Magnetic Conversions, W. Kaneko, S. Kitagawa, **M. Ohba**, *J. Am. Chem. Soc.*, **129**, 13706-13712 (2007).
 27. Three-dimensional Ferromagnetic Frameworks of Syn-anti Type Carboxylate-bridged Ni(II) and Co(II) Coordination Polymers, K. Yoneda, **M. Ohba**, T. Shiga, H. Oshio, S. Kitagawa, *Chem. Lett.*, **36**,

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28. Series of Trinuclear Ni^{II}Ln^{III}Ni^{II} Complexes Derived from 2,6-di(acetoacetyl)pyridine: Synthesis, Structure, and Magnetism, T. Shiga, N. Ito, A. Hidaka, H. Ōkawa, S. Kitagawa, **M. Ohba**, *Inorg. Chem.*, **46**, 3492-3501 (2007).
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 32. Chiral Cyanide-Bridged Mn^{II}Mn^{III} Ferrimagnets, [Mn^{II}(HL)(H₂O)][Mn^{III}(CN)₆]·2H₂O (L = *S*- or *R*-1,2-diaminopropane): Syntheses, Structures and Magnetic Behaviors, W. Kaneko, S. Kitagawa, **M. Ohba**, *J. Am. Chem. Soc.*, **129**, 248-249 (2007).
 33. Stepwise Synthesis and Magnetic Control of Trimetallic Magnets [Co₂Ln(L)₂(H₂O)₄][Cr(CN)₆]·*n*H₂O (Ln = La, Gd; H₂L = 2,6-di(acetoacetyl)pyridine) with 3-D Pillared-layer Structure, T. Shiga, H. Ōkawa, S. Kitagawa, **M. Ohba**, *J. Am. Chem. Soc.*, **128**, 16426-16427 (2006).
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7. Chemically-controlled Spin Transition Behavior in Porous Coordination Polymers, 39th International Conference on Coordination Chemistry (ICCC39), Adelaide (Australia), July 28, 2010.
8. Magnetic Chemo-Switching in Porous Frameworks, G-COE International Conference on Perspectives in Organic-Inorganic Hybrid Conductors and Molecule-Based Magnets, Sendai (Japan), Dec. 11, 2009.

9. Chemo-switching of Spin State in a Porous Spin-crossover Framework, *2nd Asian Conference on Coordination Chemistry (ACCC)*, Nanjing (China), Nov. 2, 2009.
10. Reversible Magnetic Conversion in Cyanide-bridged Porous Coordination Polymer Magnets, *11th International Congress on Molecule-based Magnets*, Florence (Italy), Sept. 22, 2008.
11. Guest-responsive Spin-state Switching in Porous Coordination Polymers, 3rd International Minisymposium on Coordination Chemistry for Advanced Materials, Sagamihara (Japan), Sept. 18, 2008.
12. Chemo-responsive Magnetic Switching in Microporous Coordination Polymers, *2nd Workshop on Current Trends in Nanoscopic and Mesoscopic Magnetism*, Delphi (Greece), Sept. 2, 2008.
13. Chirality in Molecule-based Magnets, *International Symposium on Crystalline Organic Metals Superconductors and Ferromagnets 2007*, Peniscola (Spain), Sept. 29, 2007.
14. Reversible Magnetic and Structural Conversion of a Cyanide-bridged Microporous Ni(II)Fe(III) Ferromagnet, *12th Asian Chemical Congress*, Kuala Lumpur (Malaysia), Aug. 25, 2007.
15. Magnetic Anomaly of Cyanide-bridged Ferrimagnets Having Structural Chirality, *The First Asian Conference on Coordination Chemistry (ACCC)*, Okazaki (Japan), July 30, 2007.
16. Two-dimensional Chiral Cyanide-bridged Mn(II, III) Ferrimagnets, *European Materials Research Society (E-MRS) Spring Meeting 2007*, Strasbourg (France), May 28, 2007
17. Construction of Chiral Magnetic System based on Cyanide-Bridged Molecule-based Magnets, *MAGMANET Symposium*, Zaragoza (Spain), Mar. 7, 2007.
18. Three-dimensional Cyanide-bridged Bimetallic Magnets with Triamine Co-ligands, *Pacificchem 2005*, Honolulu (USA), Dec. 17, 2005.
19. Pressure Effects on Cyanide-bridged Bimetallic Magnets, *2nd Japan-France Bilateral Symposium*, Kyoto (Japan), May 5, 2005.
20. Molecule-based Multiferroics by Cyanide-bridged Bimetallic Assemblies, *229th ACS Meeting*, San Diego (USA), Mar. 15, 2005.
21. Systematic Studies of Cyanide-Bridged Bimetallic Assemblies toward Molecule-based Multiferroics, *1st Japan and Singapore Joint Symposium on Nanoscience and Nanotechnology*, National University of Singapore (Singapore), Nov. 3, 2004.
22. Systematic Studies of Cyanide-Bridged Bimetallic Assemblies toward Molecule-based Multiferroics, *9th International Conference on Molecule-based Magnets*, Tsukuba (Japan), Oct. 7, 2004.
23. 3d-3d-4f Mixed-metal Complexes: Systematic Syntheses and Extension to Trimetallic Assembled System, *36th International Conference on Coordination Chemistry (ICCC)*, Merida (Mexico), July 21, 2004.
24. Novel 2p-3d-4f Hetero-spin Assemblies Consisting of 3d-4f Trinuclear Complexes and TCNQ⁻, *Japan-France Workshop on New Types of Functionality Materials Based on Organic-Inorganic Hybrid Compounds*, Tokyo (Japan), Apr. 24, 2004
25. Magneto-optical Properties of Cyanide-bridged Bimetallic Assemblies, *8th Eurasia Conference on Chemical Sciences*, Hanoi (Vietnam), Oct. 22, 2003
26. Novel Three-dimensional 3d-4f-3d Trimetallic Molecular Magnets, *European Materials Research Society (E-MRS) Spring Meeting 2003*, Strasbourg (France), June 11, 2003

27. Magnetic and Magneto-optical Properties of Cyanide-bridged Bimetallic Assemblies, *35th International Conference on Coordination Chemistry*, Heidelberg (Germany), July 25, 2002.
28. Magnetic and Magneto-optical Properties of Two-dimensional Trimetallic Assemblies, *International Symposium on Cooperative Phenomena of Assembled Metal Complex*, Osaka (Japan), Nov. 16, 2001.
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