

# 1<sup>st</sup> ACMM online



## Program

The 1<sup>st</sup> Asian Conference on  
Molecular Magnetism

March 7<sup>th</sup>–10<sup>th</sup>, 2021  
online, JAPAN





## Message from ACMM Chairman

The 21<sup>st</sup> century is what is called “Asian era” in terms of economy, population and resources. It is our great pleasure to take this opportunity to organize the 1st Asian Conference on Molecular Magnetism (1<sup>st</sup> ACMM), and we welcome the participation of excellent researchers from many Asian countries and regions. Unfortunately, the 1<sup>st</sup> ACMM was forced to postpone one year and change its format from on-site to on-line because of COVID-19 pandemic. Although the style was completely changed, ACMM keeps the value and significance. ACMM offers opportunities to present and discuss the most up-to-date research as well as exchange ideas and information between participants in the field of molecular magnetism. Moreover, we believe that, from ACMM, new trends "from Asia" will be started and that the field will see rapid advancement.



"Molecular magnetism" is a multidisciplinary area of research that spans chemistry, physics, biology, *etc.*, and it plays an important role in developing new spin-related phenomena and functions. In the field of "molecular magnetism", fundamental research on areas, such as spintronics, spin crossover phenomenon, single-molecule magnets, low dimensional metal complexes, porous magnets, organic radical and biomagnetism, *etc.* and applied research have expanded widely throughout the world, and there has been an increase in the importance of fundamental studies. In the field of molecular magnetism, Asian researchers have steadily delivered highly original and creative research results, including the discovery of the world's first pure organic molecular ferromagnet, and have led the world in the development of molecular magnetism.

We are convinced that ACMM will become a vehicle for collaborative research and personnel exchanges and further enhance the Asian presence in the field of molecular magnetism. We look forward to seeing all of you at ACMM on line.

**Masaaki Ohba**  
Professor, Kyushu University

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# **P**rogram

**The 1<sup>st</sup> Asian Conference on Molecular Magnetism**

**1<sup>st</sup> ACMM online**



## Program March 7<sup>th</sup> (Sun.)

<b>Opening</b>	15:00	Opening Remarks <b>Masaaki Ohba, Kyushu University, Japan</b>
<b>Session 1</b>	Start	<i>Chair: Masaaki Ohba (Kyushu Univ.)</i>
<b>PL01</b>	15:15	Spin Manipulation in Molecules and Solid <b>Song Gao, South China University of Technology &amp; Peking University, China</b>
<b>KL01</b>	16:00	Heterometallic Lanthanide Coordination Complexes for Quantum Technologies <b>Guillem Aromi, Universitat de Barcelona, Spain</b>
	16:25	Break
<b>Session 2</b>		<i>Chair: Hitoshi Miyasaka (Tohoku Univ.)</i>
<b>IT01</b>	16:40	Synthesis and Magnetic Properties of Lanthanide Complexes with Different Dimensionalities <b>Wei Shi, Nankai University, China</b>
<b>OT01</b>	17:00	Realization and Application of Electrical Quantum Phase Gate in a Rare-Earth Material <b>ShangDa Jiang, Peking University, China</b>
<b>RS01</b>	17:15	Magnetoelectric effect in the paramagnetic transition metal complex with a piezoelectric symmetry <b>Yasunao Otsuki, Tohoku University, Japan</b>
<b>RS02</b>	17:27	The Pursuit Of New Multifunctional Materials <b>Leoni A. Barrios Moreno, Universitat de Barcelona, Spain</b>
<b>RS03</b>	17:39	Atypical Expansion of unit-cell Volume in an Fe(II) Complex with High T(LIESST) <b>Wenbin Guo, University of Bordeaux, France</b>
<b>AL</b>	17:51	Magnetic Hysteresis above 77 K in a Dysprosium Metallocene Single-Molecule Magnet <b>Fu-Sheng Guo, The University of Sussex, United Kingdom</b>

### Time (min.)

<b>PL</b>	Plenary Lecture	45
<b>AL</b>	Award Lecture	30
<b>KL</b>	Keynote Lecture	25
<b>IT</b>	Invited Talk	20
<b>OT</b>	Oral Talk	15
<b>RS</b>	Rising Star Talk	12
<b>PS</b>	Poster Session	90





## Program March 8<sup>th</sup> (Mon.) - 1

Session 3	Start	<i>Chair: Shinya Hayami (Kumamoto Univ.)</i>
KL02	9:00	Single-Molecule Magnets Adsorbed on Ferromagnetic and Superconductor Substrates <b>Tadahiro Komeda, Tohoku University, Japan</b>
IT02	9:25	Delocalization in Mixed-Valence Polyoxomolybdates and Polyoxovanadates of the Lindqvist type <b>Diego Venegas-Yazigi, Universidad de Santiago de Chile, Chile</b>
OT02	9:45	Polynuclear complexes with diverse structural and magnetic properties containing redox-active ligands <b>Martin Lemaire, Brock University, Canada</b>
OT03	10:00	Control of the Long-Range Magnetic Ordering via Gas Adsorption in a $\pi$ -stacked Pillared Layer Framework <b>Wataru Kosaka, Tohoku University, Japan</b>
OT04	10:15	Humidity-Sensitive Magnets Based on Octacyanidometallates <b>Olaf Stefanczyk, The University of Tokyo, Japan</b>
	10:30	Break & Connection check
Session 4		<i>Chair: Wataru Kosaka (Tohoku Univ.)</i>
KL03	10:50	Metallacrown-based Lanthanide Single-Molecule Magnets <b>Ming-Liang Tong, Sun Yat-Sen University, China</b>
IT03	11:15	Understanding the Magnetic Interactions in Lanthanide-Containing Polymetal Cages <b>Yan-Zhen Zheng, Xi'an Jiaotong University, China</b>
OT05	11:35	Dynamic Mixed-Valence State Observed on One-dimensional Rhodium-Semiquinonato Complex <b>Minoru Mitsumi, Okayama University of Science, Japan</b>
OT06	11:50	Magnetism of Nickel Dithiolate Crystal with Rotating Pyridazinium Cation in Supramolecular Dibenzo[24]crown-8 Columnar Structure <b>Kiyonori Takahashi, Hokkaido University, Japan</b>
OT07	12:05	Stimuli-Responsive Photonic, Electronic, and Magnetic Functions in Pyridyl-Containing Luminescent Radicals <b>Tetsuro Kusamoto, Institute for Molecular Science, Japan</b>
	12:20	Lunch break & Connection check
Session 5		<i>Chair: Tetsuro Kusamoto (Institute for Molecular Science)</i>
IT04	13:20	Geometric and Ligand Tuning in Five-Coordinate Cobalt(II) Single-Ion Magnets <b>David Harding, Walailak University, Thailand</b>
IT05	13:40	Magnetic Properties of Discrete Metallo-Supramolecular System <b>Feng Li, Western Sydney University, Australia</b>
OT08	14:00	In-Depth Investigation of Exchange-Bias Dysprosium Metallocene Single-Molecule Magnets <b>Yin-Shan Meng, Dalian University of Technology, China</b>
OT09	14:15	Extended Polymer Chains of Lantern-type M <sub>2</sub> Dinuclear Units Linked by Metal Complexes with CN Groups <b>Makoto Handa, Shimane University, Japan</b>
OT10	14:30	Crystal structures and non-linear optical properties of cyanido-bridged metal assemblies <b>Koji Nakabayashi, The University of Tokyo, Japan</b>
	14:45	Break & Connection check



## Program March 8<sup>th</sup> (Mon.) - 2

Session 6	Start	<i>Chair: David Harding (Walailak Univ.)</i>
<b>IT06</b>	15:05	Choice of non-coordinated diazole heteroatom in triply bridged dinuclear helicates tunes $\Delta O$ , spin crossover and redox potential <b>Sally Brooker, University of Otago, New Zealand</b>
<b>IT07</b>	15:25	Iron(II) coordination polymers based on bis(4-pyridyl)amine derivatives <b>Kil Sik Min, Kyungpook National University, Korea</b>
<b>OT11</b>	15:45	The Jahn-Teller Exchange Clusters in "Breathing" Crystals. Theory of Photo- and Thermoinduced Spin Crossover Like Transitions <b>Vitaly Morozov, International Tomography Center, Russia</b>
<b>RS04</b>	16:00	Strong Magneto-Chiral Dichroism in Enantiopure Chiral Molecule-based Magnets <b>Matteo Atzori, CNRS &amp; Universite; Grenoble Alpes, France</b>
<b>RS05</b>	16:12	Unusual Spin State Crossover Caused by Light-Induced Cleavage of One Mo-C Bond in Octacyanomolybdate Complex <b>Xinghui Qi, ICMCB, Bordeaux, France</b>
<b>RS06</b>	16:24	Electron coherence transfer and edge states in magnetic graphene nanoribbons <b>Michael Slota, University of Oxford, United Kingdom</b>
	16:36	Break & Connection check
Session 7		<i>Chair: Feng Li (Western Sydney Univ.)</i>
<b>KL04</b>	16:55	Quantum Computing with Molecules <b>Mario Ruben, Karlsruhe Institute of Technology, Germany</b>
<b>IT08</b>	17:20	Antiferromagnetic chiral soliton phase in molecule-based antiferromagnet <b>Katsuya Inoue, Hiroshima University, Japan</b>
<b>OT12</b>	17:40	Thin Films of CN-bridged Magnetic Sponges <b>Beata Nowicka, Jagiellonian University in Krakow, Poland</b>
<b>OT13</b>	17:55	Slow Magnetization Dynamics and Coherent Spin Manipulation of a Propeller-like Gd(III) Complex with the Smallest Helicene Ligand <b>Dawid Pinkowicz, Jagiellonian University, Poland</b>
	18:10	Short break & Connection check
		<i>Chair: Hiroki Oshio (Univ. of Tsukuba)</i>
<b>PL02</b>	18:15	Role of Molecular Modelling in the Design and Development of Molecular Magnets <b>Gopalan Rajaraman, Indian Institute of Technology Bombay, India</b>
	19:00	Break
<b>Poster Session1</b>	<b>19:15</b>	Odd number posters



## Program March 9<sup>th</sup> (Tue.) - 1

Session 8	Start	Chair: Ryo Ohtani (Kyushu Univ.)
KL05	9:00	Combining Multiple Functions within Metal-Organic Framework Materials <b>Cameron Kepert, The University of Sydney, Australia</b>
IT09	9:25	Large Coercivity and Magnetic Blocking in Radical-Bridged Lanthanide Single-Molecule Magnets <b>Selvan Demir, Michigan State University, USA</b>
OT14	9:45	Magnetic properties of NiCoFe-Layered Double Hydroxide and their effect over its Electro-chemical Response <b>Marlene Gonzalez Montiel, CICATA-Legaria, IPN, Mexico</b>
OT15	10:00	The Effect on the Magnetic and Optical Properties on the adding of an Organic Ligands in Inorganic Lanthanoid Complexes <b>Walter Canon-Mancisidor, Universidad de Santiago de Chile, Chile</b>
OT16	10:15	Self-assembly of polynuclear clusters with rigid multidentate bridging ligands <b>Takuya Shiga, University of Tsukuba, Japan</b>
	10:30	Break & Connection check
Session 9		Chair: Zhao-Yang Li (Nankai Univ.)
KL06	10:50	Lanthanide-Anthracene Complexes Showing Photo- and Thermo-switchable Magnetism and Luminescence <b>Li-Min Zheng, Nanjing University, China</b>
IT10	11:15	Manipulating Metal-to-Metal Charge Transfer for Materials with Switchable Functionality <b>Tao Liu, Dalian University of Technology, China</b>
OT17	11:35	Metal-Assembled Complexes based on Metal Carboxylates: From Copper(II) Benzoate to Ruthenium(II,III) Benzoate Analogues <b>Masahiro Mikuriya, Kwansai Gakuin University, Japan</b>
OT18	11:50	Stepped-Spin Crossover Related to Flexible Alkyl Chain in Mononuclear Iron(III) Complexes <b>Hiroaki Hagiwara, Gifu University, Japan</b>
OT19	12:05	Switchable Magnetic Materials <b>Jun Tao, Beijing Institute of Technology, China</b>
	12:20	Lunch break & Connection check
Session 10		Chair: Colette Boskovic (Univ. of Melbourne)
IT11	13:20	Lattice-pressure-release-induced spin transition at room temperature <b>Zhao-Yang Li, Nankai University, China</b>
IT12	13:40	Contribution of transition entropy for charge-transfer-induced phase transition on RbMnFe Prussian blue analogue <b>Hiroko Tokoro, University of Tsukuba, Japan</b>
OT20	14:00	Asymmetric Seven/eight-step Spin-crossover in a Three-dimensional Hofmann-type Metal-organic Framework <b>Zhao-Ping Ni, Sun Yat-Sen University, China</b>
OT21	14:15	Heat Capacity of a Multi-Step Spin-Crossover Complex <b>Motohiro Nakano, Osaka University, Japan</b>
OT22	14:30	The Observation of Two-Step Spin Crossover Behavior in Solid Solutions of $[\text{Fe}(\text{qsal}_5\text{F})_x(\text{qsal}_5\text{Cl})_{2-x}]$ <b>Takayoshi Kuroda, Kindai University, Japan</b>
	14:45	Break & Connection check



## Program March 9<sup>th</sup> (Tue.) - 2

Session 11	Start	Chair: Takuya Shiga (Univ. of Tsukuba)
IT13	15:05	Two-Step Valence Tautomeric Transitions in Dinuclear Cobalt Complexes <b>Colette Boskovic, University of Melbourne, Australia</b>
IT14	15:25	Spatial extent of wave functions of charge carriers in a high-mobility thienothiophene-based molecular semiconductor studied by ESR <b>Shin-ichi Kuroda, Toyota Physical and Chemical Research Institute, Japan</b>
OT23	15:45	Exchange interaction and magnetization blocking in binuclear dysprosium complexes <b>Dan Liu, Northwestern Polytechnical University, China</b>
RS07	16:00	Ln-Pt electron polarization effects on the slow magnetic relaxation of heterometallic Ln-Pt complexes <b>Takefumi Yoshida, Tohoku University, Japan</b>
RS08	16:12	Magnetization Relaxation in a Holmium(III) Metallacrown Magnet <b>Le Tuan Anh Ho, National University of Singapore, Singapore</b>
RS09	16:24	Finely-Tuning of Ligand Field Splitting Through Use of Substituent Groups <b>Luca Bondi, University of Otago, New Zealand</b>
	16:36	Break & Connection check
Session 12		Chair: Jun Tao (Beijing Institute of Technology)
IT15	16:55	Au@SCO nanocomposites: synergy between surface plasmon resonance of gold (Au) and switching properties of spin crossover compound (SCO). <b>Guillaume Chastanet, CNRS, France</b>
OT24	17:15	Switching Materials Based on Bis(pyrazol-1-yl)pyridine and Anilate Ligands <b>Miguel Clemente-Leon, ICMol, Universidad de Valencia, Spain</b>
OT25	17:30	A new class of magnetic materials: lanthanide complexes with switchable magnetic anisotropy <b>Mauro Perfetti, University of Florence, Italy</b>
OT26	17:45	Nuclear-Spin-Driven Magnetization Relaxation in a Holmium Metallacrown Single-Molecule Magnet <b>Jun-Liang Liu, Sun Yat-Sen University, China</b>
	18:00	Short break & Connection check
		Chair: Masahiro Yamashita (Tohoku Univ.)
PL03	18:05	Magnetic Molecules for the Second Quantum Revolution: Opportunities and Challenges <b>Roberta Sessoli, Università degli Studi di Firenze, Italy</b>
	18:50	Break
Poster Session2	19:05	Even number posters



## Program March 10<sup>th</sup> (Wed.) - 1

Session 13	Start	<i>Chair: Masayuki Nihei (Univ. of Tsukuba)</i>
KL07	9:00	Development of Multifunctional Magnets Based on Cyanide-Bridged Metal Complexes <b>Shin-ichi Ohkoshi, The University of Tokyo, Japan</b>
IT16	9:25	Quantum Spin States in Organic Radicals <b>Yuko Hosokoshi, Osaka Prefecture University, Japan</b>
OT27	9:45	Synthesis and Magnetic Characterization of Chemically Modified Benzotriazinyl Mono Radical and Biradical Derivatives <b>Naoki Yoshioka, Keio University, Japan</b>
OT28	10:00	Synthesis of Triarylmethyl Free Radical Containing [FeCl <sub>4</sub> ] <sup>-</sup> Counterions <b>Ming-Hua Zeng, Guangxi Normal University, China</b>
OT29	10:15	Stable Benzotriazinyl based Diradicaloids with Small Singlet-Triplet Energy Gaps <b>Yonghao Zheng, University of Electronic and Science Technology of China, China</b>
	10:30	Break & Connection check
Session 14		<i>Chair: Motohiro Nakano (Osaka Univ.)</i>
IT17	10:50	Ab Initio Derivation of Anisotropic Magnetic Exchange <b>Liviu Ungur, National University of Singapore, Singapore</b>
IT18	11:10	Quantum Spin Nematic Phase of Low-Dimensional Magnets <b>Toru Sakai, University of Hyogo, Japan</b>
OT30	11:30	DFT study of ferromagnetic interaction in homonuclear bi-metallic complex: Orbital complementarity revisited <b>Yasutaka Kitagawa, Osaka University, Japan</b>
OT31	11:45	Single-ion Magnets Containing Lanthanide and Transition Metal ions <b>Vadapalli Chandrasekhar, Tata Institute of Fundamental Research Hyderabad, India</b>
KL08	12:00	Modulation of single-ion magnetic anisotropy of Tetrahedral Co(II) ion by ligand design <b>Maheswaran Shanmugam, Indian Institute of Technology Bombay, India</b>
	12:25	Lunch break & Connection check
Session 15		<i>Chair: Sanjit Konar (IISER Bhopal)</i>
KL09	13:25	Open-shell Singlet Diradicaloids, Polyradicaloids and Covalent Organic Radical Frameworks <b>Jishan Wu, National University of Singapore, Singapore</b>
IT19	13:50	Organic Spintronic Materials Based on Tetrathiafulvalene and its Derivatives <b>Jing-Lin Zuo, Nanjing University, China</b>
OT32	14:10	Excited-State Dynamics of Luminescent Stable Radical and Radical Excimer <b>Yoshio Teki, Osaka City University, Japan</b>
OT33	14:25	Triplet Biradical States in Oxidized Form of Phthalocyaninato-Lanthanoid(III) Multiple-Decker Complexes <b>Yoji Horii, Nara Women's University, Japan</b>
OT34	14:40	Molecular magnetic semiconductors based on paramagnetic Cu(II) complexes coordinated by TTF-ligands <b>Hiroyuki Nishikawa, Ibaraki University, Japan</b>
	14:55	Break & Connection check



## Program March 10<sup>th</sup> (Wed.) - 2

Session 16		Start	Chair: Tao Liu (Dalian Univ. of Technology)
IT20	15:15	Reversible Magnetic Phase Transition in a Benzotriazinyl Radical Cation Salt Triggered by Counteranion Disorder <b>Sanjit Konar, IISER Bhopal, India</b>	
IT21	15:35	Metal-free Electrocatalysts for Oxygen Reduction Reaction Based on Trioxotriangulene Neutral Radicals <b>Yasushi Morita, Aichi Institute of Technology, Japan</b>	
OT35	15:55	Control of intra-lattice electron transfers in tetraoxolene-bridged two-dimensional honeycomb layers <b>Yoshihiro Sekine, Kumamoto University, Japan</b>	
RS10	16:10	Predictable tuning and surface immobilisation of Spin Crossover Materials <b>Sriram Sundaresan, University of Otago, New Zealand</b>	
RS11	16:22	Ferroelectric and Ferromagnetic Hybrid Material Based on [MnCr(oxalate) <sub>3</sub> ] Coordination Polymer with Supramolecular Structure <b>Jiabing Wu, Hokkaido University, Japan</b>	
RS12	16:34	A Two-Dimensional Spin-Crossover Coordination Polymer Exhibiting Interlayer Multiple C—H <sup>δ+</sup> ...H <sup>δ-</sup> —B Dihydrogen Bonds <b>Jinpeng Xue, Beijing Institute of Technology, China</b>	
	16:46	Break & Connection check	
Session 17		Start	Chair: Yoshihiro Sekine (Kumamoto Univ.)
IT22	17:05	The High-Temperature Frontier in Single-Molecule Magnetism <b>Richard Layfield, University of Sussex, United Kingdom</b>	
OT36	17:25	Solvent-Driven Switching and Functionalization of Photoluminescent Single-Molecule Magnets <b>Szymon Chorazy, Jagiellonian University in Krakow, Poland</b>	
OT37	17:40	Coordination Compounds as Molecular Switches and in Composite Materials <b>Franz Renz, Leibniz University Hannover, Germany</b>	
OT38	17:55	Spin Crossover Induced Linkage Isomerism in a Neutral Heteroleptic Iron(III) Complex <b>Kazuyuki Takahashi, Kobe University, Japan</b>	
	18:10	Short break & Connection check	
		Chair: Hitoshi Miyasaka (Tohoku Univ.)	
PL04	18:15	Development of Molecular Mimics of Carbon Allotrope <b>Kunio Awaga, Nagoya University, Japan</b>	
Closing	19:00	Award ceremony, Announcement of next ACMM, and Closing remarks	

# **List of Presentations**

**The 1<sup>st</sup> Asian Conference on Molecular Magnetism**

**1<sup>st</sup> ACMM online**



## Plenary Lecture

- PL01 *Spin Manipulation in Molecules and Solid*  
Song Gao, South China University of Technology, China
- PL02 *Role of Molecular Modelling in the Design and Development of Molecular Magnets*  
Gopalan Rajaraman, Indian Institute of Technology Bombay, India
- PL03 *Magnetic Molecules for the Second Quantum Revolution: Opportunities and Challenges*  
Roberta Sessoli, Università degli Studi di Firenze, Italy
- PL04 *Development of Molecular Mimics of Carbon Allotropes*  
Kunio Awaga, Nagoya University, Japan

## Award Lecture

- AL01 *Magnetic Hysteresis above 77 K in a Dysprosium Metallocene Single-Molecule Magnet*  
Fu-Sheng Guo, The University of Sussex, United Kingdom

## Keynote Lecture

- KL01 *Heterometallic Lanthanide Coordination Complexes for Quantum Technologies*  
Guillem Aromi, Universitat de Barcelona, Spain
- KL02 *Single-Molecule Magnets Adsorbed on Ferromagnetic and Superconductor Substrates*  
Tadahiro Komeda, Tohoku University, Japan
- KL03 *Metallacrown-based Lanthanide Single-Molecule Magnets*  
Ming-Liang Tong, Sun Yat-Sen University, China
- KL04 *Quantum Computing with Molecules*  
Mario Ruben, Karlsruhe Institute of Technology, Germany
- KL05 *Combining Multiple Functions within Metal-Organic Framework Materials*  
Cameron Kepert, The University of Sydney, Australia
- KL06 *Lanthanide-Anthracene Complexes Showing Photo- and Thermo-switchable Magnetism and Luminescence*  
Li-Min Zheng, Nanjing University, China
- KL07 *Development of Multifunctional Magnets Based on Cyanide-Bridged Metal Complexes*  
Shin-ichi Ohkoshi, The University of Tokyo, Japan
- KL08 *Modulation of single-ion magnetic anisotropy of Tetrahedral Co(II) ion by ligand design*  
Maheswaran Shanmugam, Professor, India
- KL09 *Open-shell Singlet Diradicaloids, Polyradicaloids and Covalent Organic Radical Frameworks*  
Jishan Wu, National University of Singapore, Singapore

## Invited Talk

- IT01 *Synthesis and Magnetic Properties of Lanthanide Complexes with Different Dimensionalities*  
Wei Shi, Nankai University, China
- IT02 *Delocalization in Mixed-Valence Polyoxomolybdates and Polyoxovanadates of the Lindqvist type*  
Diego Venegas-Yazigi, Universidad de Santiago de Chile, Chile
- IT03 *Understanding the Magnetic Interactions in Lanthanide-Containing Polymetal Cages*  
Yan-Zhen Zheng, Xi'an Jiaotong University, China
- IT04 *"Geometric and Ligand Tuning in Five-Coordinate Cobalt(II) Single-Ion Magnets"*  
David Harding, Walailak University, Thailand
- IT05 *Magnetic Properties of Discrete Metallo-Supramolecular System*  
Feng Li, Western Sydney University, Australia





- IT06 *Choice of non-coordinated diazole heteroatom in triply bridged dinuclear helicates tunes  $\Delta_0$ , spin crossover and redox potential*  
Sally Brooker, University of Otago, New Zealand
- IT07 *Iron(II) coordination polymers based on bis(4-pyridyl)amine derivatives*  
Kil Sik Min, Kyungpook National University, Korea
- IT08 *Antiferromagnetic chiral soliton phase in molecule-based antiferromagnet*  
Katsuya Inoue, Hiroshima University, Japan
- IT09 *Large Coercivity and Magnetic Blocking in Radical-Bridged Lanthanide Single-Molecule Magnets*  
Selvan Demir, Michigan State University, USA
- IT10 *Manipulating Metal-to-Metal Charge Transfer for Materials with Switchable Functionality*  
Tao Liu, Dalian University of Technology, China
- IT11 *Lattice-pressure-release-induced spin transition at room temperature*  
Zhao-Yang Li, Nankai University, China
- IT12 *Contribution of transition entropy for charge-transfer-induced phase transition on RbMnFe Prussian blue analogue*  
Hiroko Tokoro, University of Tsukuba, Japan
- IT13 *Two-Step Valence Tautomeric Transitions in Dinuclear Cobalt Complexes*  
Colette Boskovic, University of Melbourne, Australia
- IT14 *Spatial extent of wave functions of charge carriers in a high-mobility thienothiophene-based molecular semiconductor studied by ESR*  
Shin-ichi Kuroda, Toyota Physical and Chemical Research Institute, Japan
- IT15 *Au@SCO nanocomposites: synergy between surface plasmon resonance of gold (Au) and switching properties of spin crossover compound (SCO)*  
Guillaume Chastanet, CNRS, France
- IT16 *Quantum Spin States in Organic Radicals*  
Yuko Hosokoshi, Osaka Prefecture University, Japan
- IT17 *Ab Initio Derivation of Anisotropic Magnetic Exchange*  
Livi Ungur, National University of Singapore, Singapore
- IT18 *Quantum Spin Nematic Phase of Low-Dimensional Magnets*  
Toru Sakai, University of Hyogo, Japan
- IT19 *Organic Spintronic Materials Based on Tetrathiafulvalene and its Derivatives*  
Jing-Lin Zuo, Nanjing University, China
- IT20 *Reversible Magnetic Phase Transition in a Benzotriazinyl Radical Cation Salt Triggered by Counter-anion Disorder*  
Sanjit Konar, IISER Bhopal, India
- IT21 *Metal-free Electrocatalysts for Oxygen Reduction Reaction Based on Trioxotriangulene Neutral Radicals*  
Yasushi Morita, Aichi Institute of Technology, Japan
- IT22 *The High-Temperature Frontier in Single-Molecule Magnetism*  
Richard Layfield, University of Sussex, United Kingdom

## Oral Talk .....

- OT01 *Realization and Application of Electrical Quantum Phase Gate in a Rare-Earth Material*  
ShangDa Jiang, Peking University, China
- OT02 *Polynuclear complexes with diverse structural and magnetic properties containing redox-active ligands*  
Martin Lemaire, Brock University, Canada
- OT03 *Control of the Long-Range Magnetic Ordering via Gas Adsorption in a  $\pi$ -stacked Pillared Layer Framework*  
Wataru Kosaka, Tohoku University, Japan



- OT04 *Humidity-Sensitive Magnets Based on Octacyanidometallates*  
Olaf Stefanczyk, The University of Tokyo, Japan
- OT05 *Dynamic Mixed-Valence State Observed on One-dimensional Rhodium-Semiquinonato Complex*  
Minoru Mitsumi, Okayama University of Science, Japan
- OT06 *Magnetism of Nickel Dithiolate Crystal with Rotating Pyridazinium Cation in Supramolecular Dibenzo[24]crown-8 Columnar Structure*  
Kiyonori Takahashi, Hokkaido University, Japan
- OT07 *Stimuli-Responsive Photonic, Electronic, and Magnetic Functions in Pyridyl-Containing Luminescent Radicals*  
Tetsuro Kusamoto, Institute for Molecular Science, Japan
- OT08 *In-Depth Investigation of Exchange-Bias Dysprosium Metallocene Single-Molecule Magnets*  
Yin-Shan Meng, Dalian University of Technology, China
- OT09 *Extended Polymer Chains of Lantern-type M<sub>2</sub> Dinuclear Units Linked by Metal Complexes with CN Groups*  
Makoto Handa, Shimane University, Japan
- OT10 *Crystal structures and non-linear optical properties of cyanido-bridged metal assemblies*  
Koji Nakabayashi, The University of Tokyo, Japan
- OT11 *The Jahn-Teller Exchange Clusters in "Breathing" Crystals. Theory of Photo- and Thermoinduced Spin Crossover Like Transitions*  
Vitaly Morozov, International Tomography Center, Russia
- OT12 *Thin Films of CN-bridged Magnetic Sponges*  
Beata Nowicka, Jagiellonian University in Krakow, Poland
- OT13 *Slow Magnetization Dynamics and Coherent Spin Manipulation of a Propeller-like Gd(III) Complex with the Smallest Helicene Ligand*  
Dawid Pinkowicz, Jagiellonian University, Poland
- OT14 *Magnetic properties of NiCoFe-Layered Double Hydroxide and their effect Over its Electrochemical Response*  
Marlene Gonzalez Montiel, CICATA-Legaria, IPN, Mexico
- OT15 *The Effect on the Magnetic and Optical Properties on the adding of an Organic Ligands in Inorganic Lanthanoid Complexes*  
Walter Canon-Mancisor, Universidad de Santiago de Chile, Chile
- OT16 *Self-assembly of polynuclear clusters with rigid multidentate bridging ligands*  
Takuya Shiga, University of Tsukuba, Japan
- OT17 *Metal-Assembled Complexes based on Metal Carboxylates: From Copper(II) Benzoate to Ruthenium(II,III) Benzoate Analogues*  
Masahiro Mikuriya, Kwansai Gakuin University, Japan
- OT18 *Stepped-Spin Crossover Related to Flexible Alkyl Chain in Mononuclear Iron(III) Complexes*  
Hiroaki Hagiwara, Gifu University, Japan
- OT19 *Switchable Magnetic Materials*  
Jun Tao, Beijing Institute of Technology, China
- OT20 *Asymmetric Seven/eight-step Spin-crossover in a Three-dimensional Hofmann-type Metal-organic Framework*  
Zhao-Ping Ni, Sun Yat-Sen University, China
- OT21 *Heat Capacity of a Multi-Step Spin-Crossover Complex*  
Motohiro Nakano, Osaka University, Japan
- OT22 *The Observation of Two-Step Spin Crossover Behavior in Solid Solutions of [Fe(qsal<sup>5F</sup>)<sub>x</sub>(qsal<sup>5Cl</sup>)<sub>2-x</sub>]*  
Takayoshi Kuroda-Sowa, Kindai University, Japan



- OT23 *Exchange interaction and magnetization blocking in binuclear dysprosium complexes*  
Dan Liu, Northwestern Polytechnical University, China
- OT24 *Switching Materials Based on Bis(pyrazol-1-yl)pyridine and Anilate Ligands*  
Miguel Clemente Leon, ICMol, Universidad de Valencia, Spain
- OT25 *A new class of magnetic materials: lanthanide complexes with switchable magnetic anisotropy*  
Mauro Perfetti, University of Florence, Italy
- OT26 *Nuclear-Spin-Driven Magnetization Relaxation in a Holmium Metallocrown Single-Molecule Magnet*  
Jun-Liang Liu, Sun Yat-Sen University, China
- OT27 *Synthesis and Magnetic Characterization of Chemically Modified Benzotriazinyl Mono Radical and Biradical Derivatives*  
Naoki Yoshioka, Keio University, Japan
- OT28 *Synthesis of Triarylmethyl Free Radical Containing [FeCl<sub>4</sub>]<sup>-</sup> Counterions*  
Ming-Hua Zeng, Guangxi Normal University, China
- OT29 *Stable Benzotriazinyl based Diradicaloids with Small Singlet-Triplet Energy Gaps*  
Yonghao Zheng, University of Electronic and Science Technology of China, China
- OT30 *DFT study of ferromagnetic interaction in homonuclear bi-metallic complex: Orbital complementarity revisited*  
Yasutaka Kitagawa, Osaka University, Japan
- OT31 *Single-ion Magnets Containing Lanthanide and Transition Metal ions*  
Vadapalli Chandrasekhar, Tata Institute of Fundamental Research Hyderabad,
- OT32 *Excited-State Dynamics of Luminescent Stable Radical and Radical Excimer*  
Yoshio Teki, Osaka City University, Japan
- OT33 *Strong magnetic anisotropy of a nitric oxide molecule encapsulated in open-cage fullerene derivatives captured by heat capacity analyses*  
Yoji Horii, Nara Women's University, Japan
- OT34 *Molecular magnetic semiconductors based on paramagnetic Cu(II) complexes coordinated by TTF-ligands*  
Hiroyuki Nishikawa, Ibaraki University, Japan
- OT35 *Control of intra-lattice electron transfers in tetraoxolene-bridged two-dimensional honeycomb layers*  
Yoshihiro Sekine, Kumamoto University, Japan
- OT36 *Solvent-Driven Switching and Functionalization of Photoluminescent Single-Molecule Magnets*  
Szymon Chorazy, Jagiellonian University in Krakow, Poland
- OT37 *Coordination Compounds as Molecular Switches and in Composite Materials*  
Franz Renz, Leibniz University Hannover, Germany
- OT38 *Spin Crossover Induced Linkage Isomerism in a Neutral Heteroleptic Iron(III) Complex*  
Kazuyuki Takahashi, Kobe University, Japan

## Poster Presentation .....

☆: Poster award entries

- ☆P001 *CO<sub>2</sub>-induced Magnetic Phase Conversion in a Flexible Double-layer Type Porous Magnet*  
Haruka Yoshino, Kyushu University, Japan
- ☆P002 *Crystal Field Splitting and Exchange Coupling in Lanthanoid-Semiquinone Single-Molecule Magnets by Neutron Scattering*  
Maja Anna Dunstan, University of Melbourne, Australia
- ☆P003 *Structural diversity of coordination polymers based on [Ni(cyclam)]<sup>2+</sup> and [M(CN)<sub>8</sub>]<sup>4-</sup>*  
Michal Heczko, Jagiellonian University, Poland



- ☆P004 *Transition of Magnetic Property Depending on L term in 1-D Co(II) Complex*  
Hikaru Zenno, Kumamoto University, Japan
- ☆P005 *Observation of Kondo screening of TbPc<sub>2</sub> by weakening the superconducting phenomena of NbSe<sub>2</sub>*  
Ferdous Ara, Tohoku University, Japan
- ☆P006 *Macroscopic Polarization Change via Electron Transfer in a Valence Tautomeric Cobalt Complex*  
Shu-Qi Wu, Kyushu University, Japan
- ☆P007 *Temperature- and Guest-Driven Electronic State Modulation in Molecular Magnets*  
Jun Zhang, Tohoku University, Japan
- ☆P008 *Study on a family of Ln<sup>3+</sup> highly coordinated complexes with a short axial Ln-F bond*  
Emma Regincos Marti, University of Glasgow, United Kingdom
- ☆P009 *Nuclear Spin Conversion of Adsorbed Molecular Hydrogen in Prussian Blue Analogs*  
Yuta Ohtsubo, Kyushu University, Japan
- ☆P010 *Characterization of Redox active iron (III) square planar complex*  
Kamal Uddin Ansari, Indian Institute of Technology Bombay, India
- ☆P011 *Magnetic properties of conjugate type TTF-metal complex [Cu(TTF-Salphen)]*  
Daiki Tauchi, Ibaraki University, Japan
- ☆P012 *Redox-Driven Multiple-Charge Transfer Process in a Three-Dimensional Conductive Single-Molecule Magnet Material*  
Yongbing Shen, Tohoku University, Japan
- ☆P013 *Ligand Tuning in Cobalt Complexes for Valence Tautomerism*  
Moya Hay, University of Melbourne, Australia
- ☆P014 *Surface observation and magnetic properties of thin films of iron chromate hexacyanochromate*  
Yuji Yahagi, University of Tsukuba, Japan
- ☆P015 *Photoluminescent property in gadolinium hexacyanochromate*  
Shuhei Murakami, University of Tsukuba, Japan
- ☆P016 *Crystal structure and <sup>57</sup>Fe Mössbauer spectroscopy on Fe-Ag Hofmann-type complex*  
Kosuke Kitase, Toho University, Japan
- ☆P017 *Magnetolectric Effect in Dysprosium Single-Molecule Magnets*  
Yu-Xia Wang, Nankai University, China
- P018 *Nuclear Magnetic Resonance Study of Single Crystal of Spin-1/2 One-Dimensional Antiferromagnet D-F<sub>3</sub>PNN under Critical Magnetic Fields*  
Yutaka Fujii, University of Fukui, Japan
- ☆P019 *Formation of Carbonate-Bridged Lanthanide Equilateral Triangle in Sandwich-Type Polyoxometalates*  
Dongfang Wu, Hokkaido University, Japan
- P020 *Porous Molecular Conductors Constructed from Linear Coordination Polymers with π-Radicals*  
Hiroaki Iguchi, Tohoku University, Japan
- ☆P021 *Slow Magnetic Relaxation driven by Hyperfine Interactions in Ho(III) Molecular Optical Thermometers: Theoretical Studies*  
Mikolaj Zychowicz, Jagiellonian University, Poland
- ☆P022 *Physical Properties of Dianionic Naphthalendiimide Salts with Metal Cations*  
Ayumi Kawasaki, Tohoku University, Japan
- ☆P023 *Slow Magnetic Relaxation in High Performance Macrocyclic Dysprosium (III) Single-Molecule Magnets*  
Angelos B. Canaj, University of Liverpool, United Kingdom
- ☆P024 *Magnetic Behavior of Hofmann-type Coordination Polymers Adsorbed Interhalogen Compound*  
Masaaki Ketayama, Kyushu University, Japan



- P025 *Factors Determining the Spin Transition in Hybrid Inorganic-Organic  $Fe_{1-x}Co_x(Pyz)[Fe(CN)_5NO]$  and  $Fe_{1-x}Ni_x(Pyz)[Fe(CN)_5NO]$  Series*  
Marlene Gonzalez Montiel, CICATA-Legaria, IPN, Mexico
- ☆P026 *Magnetic Cr(III)-Ln(III) Complexes Synthesised from Chromium(III) Oxo-centred Triangles*  
Lucy Smythe, University of Glasgow, United Kingdom
- P027 *Negative to positive temperature coefficient transition of thermal conductivities in  $(C_4H_9NH_3)_2CuCl_4$*   
Norihisa Hoshino, Tohoku University, Japan
- ☆P028 *Large Magnetic Switching in a Cobalt(II) Complex without Spin Transition*  
Shengqun Su, Kyushu University, Japan
- ☆P029 *Cyanido-Bridged Supramolecular Compound  $\{YbCo_2\}$  with Multifunctionalities of Luminescent Thermometry, SMM, and Proton-conductivity*  
Junhao Wang, The University of Tokyo, Japan
- ☆P030 *Site-Selective Two-Step Spin-Crossover in  $Fe^{II}-[Nb^{IV}(CN)_8]$ -based Bimetal Assembly formed through In-Situ Ligand Transformation*  
Shintaro Kawabata, The University of Tokyo, Japan
- ☆P031 *Tuning of luminescence and Single Molecule Magnet behavior in cyanido-bridged compounds by noble metal substitution*  
Kunal Kumar, The University of Tokyo, Japan
- ☆P032 *Magnetic Behavior Modulation of 2-D Hofmann-type Coordination Polymers via Incorporating Alkoxy pyridine*  
Konatsu Toyama, Kyushu University, Japan
- ☆P033 *Effect of Ancillary Ligand on Valence Tautomerism in Cobalt-Dioxolene Complexes: A Computational and Experimental Study*  
Fathima Zahra Mohamed Zahir, University of Melbourne, Australia
- ☆P034 *Synthesis and properties of mononuclear Co dioxolene complexes containing bulky ancillary ligand*  
Takuto Mibu, Kindai University, Japan
- ☆P035 *Effect of the Electronic Structure and Flexibility of the Counteranion on the Magnetization Relaxation in  $[Dy(L)_2(H_2O)_5]^{3+}$  ( $L =$  Phosphine Oxide Derivative) Pentagonal Bipyramidal SIMs*  
Ismael Francisco Diaz Ortega, Tohoku University, Japan
- ☆P036 *Proton transfer coupled spin transition in hydrazone complex*  
Takumi Nakanishi, Kyushu University, Japan
- P037 *Synthesis and Characterization of Chitosan-Coated Magnetite Nanocomposite Using TPP/Sulphate Dual Crosslinkers*  
Aung Than Htwe, University of Yangon, Myanmar
- ☆P038 *Luminescent Cyanido-bridged  $Dy^{III}-Co^{III}$  Framework Showing Single-molecule Magnet Behavior Switched by Dehydration and Hydration*  
Yue Xin, The University of Tokyo, Japan
- ☆P039 *2-D Layer-Type Magnetic Coordination Polymers based on a Distorted Square-pyramidal Cr(V) Building Unit*  
Megumi Honda, Kyushu University, Japan
- ☆P040 *Valences of magnetic oxovanadium complexes docking to laccase*  
Natsuki Katsuumi, Tokyo University of Science, Japan
- ☆P041 *Oxalate-Based Magnets with 1D to 3D Structures: Synthesis, Structures and Magnetic Behaviors*  
Jiabing Wu, Hokkaido University, Japan
- ☆P042 *Coordination Compounds of Lanthanides with Schiff Base Ligand*  
Ekaterina Tiukacheva, N.S. IGIC of the Russian Academy of Sciences, Russia



- ☆P043 *Controllable magnetic susceptibility of Ni(OH)<sub>2</sub> by GO uniaxial pressure*  
Yuta Shudo, Kumamoto University, Japan
- ☆P044 *Neodymium(III)-Octacyanidometallate(IV) Frameworks as a Source of SHG-active Luminescent Molecular Magnets*  
Robert Jankowski, Jagiellonian University, Poland
- P045 *Millimeter-wave ESR measurements of spin-1/2 antiferromagnetic chain Cu(C<sub>4</sub>H<sub>4</sub>N<sub>2</sub>)(NO<sub>3</sub>)<sub>2</sub>*  
Yuya Ishikawa, University of Fukui, Japan
- ☆P046 *Magnetic and optoelectronic properties of Axial Linkers on Polymerization in Paddle-Wheel Cu(II) Coordination Polymers*  
Hiroki Sato, Tokyo University of Science, Japan
- ☆P047 *A New Family of Cu(II)-Ln(III) Carboxylate Complexes: Crystal Structure and Magnetic Properties*  
Anna Bovkunova, N.S. IGIC of the Russian Academy of Sciences, Russia
- ☆P048 *Syntheses and Magnetic properties of Spin Crossover Iron(III) Complexes with Various Structures*  
Kenichi Sakamoto, Fukuoka University, Japan
- P049 *Magnetic Semiconductors Composed of Pyrazolato-Bridged Dinuclear Complexes and Partially reduced TCNQ Radicals*  
Ryuta Ishikawa, Fukuoka University, Japan
- P050 *An efficient method to predict  $\tau$ QTM and  $U_{\text{eff}}$  of Kramers SIM via ab initio calculations*  
Bing Yin, Northwest Univesity, China
- P051 *Quantum spin liquid and cluster Mott insulator phases in the Mo<sub>3</sub>O<sub>13</sub> systems*  
Sergey Nikolaev, Tokyo Institute of Technology, Japan
- ☆P052 *Highly-oriented electrically conductive MOF nanosheets utilizing liquid interfacial synthesis*  
Takashi Ohata, Osaka Prefecture University, Japan
- ☆P053 *Construction of thin film systems using solvatomagnetic coordination polymers*  
Aleksandra Pacanowska, Institute of Nuclear Physics Polish Academy of Sciences, Poland
- P054 *Improved Seebeck Coefficient of Thermocell by Application of Thermo-Responsive Phenomena*  
Tepei Yamada, Tokyo University, Japan
- ☆P055 *Flexible crystals with salen-typed molecules*  
Sotaro Kusumoto, Kumamoto University, Japan
- ☆P056 *A Mixed-Valent Nanoring {V<sub>22</sub>} Exhibits High Solution Stability and Strong Antiferromagnetic Interaction*  
Wei-Peng Chen, Xi'an Jiaotong University, China
- ☆P057 *Ferroelectricity in Mixed Valence Biferrocenium Compounds*  
Ryohei Akiyoshi, Kumamoto University, Japan
- ☆P058 *Magnetization Relaxation Dynamics of a Rare Coordinatively Unsaturated Co(II) Complex: Experimental and Theoretical Insights*  
Amalawari Rasamsetty, IIT Bombay, India
- P059 *Beyond-DFT Calculations by DMRG CAS methods for Effective Exchange Integrals in Binuclear Manganese Complex*  
Takashi Kawakami, RIKEN R-CCS, Japan
- ☆P060 *Electrochemically tuned magnetic phase transition in spinel Li<sub>x</sub>Mn<sub>2</sub>O<sub>4</sub>*  
Qi Chen, Nagoya University, Japan
- P061 *Magnetic Properties of Cobalt Complexes Coordinated with Pyridine Ligand with DT-TTF Moiety*  
Yohji Misaki, Ehime University, Japan



- ☆P062 *Fruitful implementation of lanthanide molecular nanomagnets into bimetal cyanido-bridged frameworks*  
Jakub Zakrzewski, Jagiellonian University, Poland
- P063 *Photoinduced charge transfer dynamics in a chain coordination-polymer neutral-ionic phase transition system*  
Tadahiko Ishikawa, Tokyo Institute of Technology, Japan
- P064 *Dimerized p-Semiquinone Radical Anions Stabilized by a Pair of Rare-Earth Metal Ions*  
Tian Han, Xi'an Jiaotong University, China
- ☆P065 *Structure and Magnetic Properties of Ni<sub>6</sub>, Ni<sub>8</sub> and One-dimensional Ni<sub>7</sub> Multinuclear Metal Complexes*  
Akihiro Tanaka, Kumamoto University, Japan
- P066 *Size effect on spin-crossover behavior in 2D Hofmann-like metal-organic framework thin films*  
Kazuya Otsubo, Kyoto University, Japan
- P067 *Synthesis of Nd<sub>2</sub>Fe<sub>14</sub>B powder for molecular magnet application*  
Dongsoo Kim, Korea Institute of Geoscience and Mineral Resources, Republic of Korea
- ☆P068 *Structures and physical properties of TCNQ anion radical salts with (Li<sup>+</sup> or Na<sup>+</sup>)(Crown ether) supramolecular cation*  
Kohei Sambe, Tohoku University, Japan
- ☆P069 *Organic Radicals for Thermo-electrochemical Cells*  
Koki Oka, The University of Tokyo, Japan
- ☆P070 *Octacyanidorhenate(V) ion as an efficient linker for the construction of functionalized spin-crossover materials*  
Tomasz Charytanowicz, Jagiellonian University, Poland
- P071 *Synthesis and ambipolar properties of a fused BDPA radical-tetraphenylene-β-phenylallyl*  
Daiki Shimizu, Kyoto University, Japan
- ☆P072 *Bis(phthalocyaninato) Terbium (III) (TbPc<sub>2</sub>), a Single Molecule Magnet on Superconductor NbSe<sub>2</sub> Showing Coexistence of Kondo Screening and Yu-Shiba-Rusinov (YSR) States*  
Mohammad Ikram Hossain, Tohoku University, Japan
- ☆P073 *Multi-step spin-crossover in polymorphic Fe(III) compounds*  
Yingying Wu, Nankai University, China
- P074 *A Chiral crystal structure and magnetic properties of cyanido-bridged*  
Kenta Imoto, The University of Tokyo, Japan
- P075 *Tunable magnetocaloric effect in ternary Prussian blue analogue*  
Fitte Magdalena, Institute of Nuclear Physics Polish Academy of Sciences, Poland
- P076 *Conductive Mixed Valence Salts of Trioxotriangulene with Supramolecular Cations, K([18]crown-6)*  
Tsuyoshi Murata, Aichi Institute of Technology, Japan
- P077 *Discovery of Quantum Spin Liquid State in A Kagome-Structured Metal-Organic Framework: Cu<sub>3</sub>(HHTP)<sub>2</sub>*  
Zhang Zhongyue, Nagoya University, Japan
- P078 *Cross Loop Hysteresis in A Spin Crossover Cobalt(II) Complex*  
Fumiya Kobayashi, Tokyo University of Science, Japan