

List of Papers at ISIAMÉ 2024
Kitakyushu International Conference Center, Sep. 1-5, 2024

T: tutorial, K: keynote, I: invited, C: contributed, and P: Poster

Code	Speaker	Title of Paper
T 1	L. Machala (Czech Republic)	Iron oxide and oxyhydroxide nanoparticles and their industrial applications
T 2	J. Wang (China)	<i>In-Situ/Operando</i> Mössbauer Spectroscopy of Prussian Blue Cathode Materials for Sodium Ion Batteries
T 3	E. Kuzmann (Hungary)	The history of industrial applications of Mössbauer spectroscopy
K 1	R. Röhlberger (Germany)	Synchrotron Mössbauer polarimetry for non-iron isotopes
K 2	P. de Souza (Australia)	Lessons learned from establishing and running a Mössbauer laboratory in industry
K 3	Y. Garcia (Belgium)	Design of colorimetric sensors for the food industry
K 4	V. Schünemann (Germany)	Mössbauer spectroscopy on iron based catalysts
K 5	J.M. Grenèche (France)	Contribution of Mössbauer spectrometry to the study of industrial nanostructured materials containing Fe
K 6	S.M. Dubiel (Poland)	Microscopic phenomena in Fe-Cr alloys pertained to macroscopic properties of stainless steels
K 7	T. Zhang (China)	Application of Mössbauer Spectroscopy in Single-Atom Catalysis: Opportunities and Challenges
K 8	P.-E. Lippens (France)	How Mössbauer spectroscopy improves battery performance: from past to future
I 1	T. Mitsui (Japan)	Synchrotron Based Conversion Electron Mössbauer Spectroscopy
I 2	S. Nakamura (Japan)	Development of synchrotron Mössbauer diffractometer and its possible application to industry
I 3	K. Schlage (Germany)	Non-collinear spin profiling in thin film and multilayer devices via oblique incidence deposition
I 4	R. Masuda (Japan)	Energy domain Mössbauer spectra of rare-earth nuclides using synchrotron radiation
I 5	S. Kitao (Japan)	Developments of Measurement System for Time- and Energy-Resolved Synchrotron-Radiation-based Mössbauer Spectroscopy and ¹⁶⁶ Er Reference Compound
I 6	A.A. Kamnev (Russia)	Bioanalytical applications of Mössbauer spectroscopy
I 7	S. Nakashima (Japan)	Application of iron oxide and its composites containing carbon nanoparticles to the solution of environmental problem
I 8	S. Krehula (Croatia)	Doped iron oxide nanoparticles: synthesis, properties and applications
I 9	J.F. Marco (Spain)	Controlling the pelletizing and hydrogen reduction processes of mill scale: a Mössbauer study
I 10	J. Pechoušek (Czech Republic)	Application of Mössbauer spectroscopy in (1) Determination of austenite in bearing steel, and (2) Inspection of 3D printed metallic elements, engine crankshafts and wind turbine shaft
I 11	K. Nomura (Japan)	Mössbauer spectrometric study on functional materials developed by chemical methods
I 12	Z. Homonnay (Hungary)	Quantitative analysis of ferrate(VI) and its degradation products in electrochemically produced potassium ferrate for waste water treatment
I 13	K. Mlekodaj (Czech Republic)	Unveiling iron active centers in zeolite catalysts: a synergistic approach with Mössbauer, XAS, and FTIR spectroscopies for atomic-level insights
I 14	K. Lázár (Hungary)	Mössbauer spectroscopy in studying industrial catalysts and processes in recycling
I 15	M. Okubo (Japan)	Iron-based catholytes for redox-flow batteries
I 16	N. Kojima (Japan)	Progress of multifunctional phenomena induced by spin, charge and photon for iron mixed-valence system
I 17	P. Bingham (UK)	Applications of Mössbauer Spectroscopy to understand composition-structure-property relations in glasses for energy applications
I 18	S. Kubuki (Japan)	⁵⁷ Fe-Mössbauer study of highly covalent Fe-O bond found in iron oxide nanoparticles of photocatalyst prepared from domestic waste molten slag
I 19	M. Kaneko (Japan)	Density functional study on Mössbauer spectroscopic parameters applied to noble metal coordination chemistry
C 1	J. Okabayashi (Japan)	<i>Operando</i> Mössbauer study in strain-induced multiferroic devices
C 2	M. Saito (Japan)	Nanosecond dynamics study of soft matter opened up by synchrotron radiation Mössbauer gamma rays

C 3	J. Cieslak (Poland)	Mössbauer and magnetization measurements of multicomponent iron garnets
C 4	K.A. Béres (Hungary)	Synthesis of controlled nanoscale catalysts from complex transition metal salts by quasi-intramolecular redox reactions
C 5	X. Li (China)	Probing Single-Atom Catalysts by <i>in-situ/operando</i> Mössbauer Spectroscopy
C 6	K. Liu (China)	Mössbauer study of PtFe/Al ₂ O ₃ for H ₂ storage using dibenzyltoluene
C 7	N. Oka (Japan)	Development of iron vanadate glasses for Li-ion battery and metal-air battery
C 8	A. Mulaba (South Africa)	Chromite classification and possible traceability using Mössbauer spectroscopy
C 9	J. Pechoušek (Czech Republic)	ISIAME Material Testing Standardization Committee

P 1	R. Moroboshi (Japan)	Broadband microscopic molecular dynamics study by quasi-elastic scattering using Mössbauer gamma rays
P 2	K. Fujiwara (Japan)	Three-Dimensional Analysis of Iron-Based Materials Using Synchrotron Mössbauer Source
p 3	B. Shieh (Japan)	Basis Function Dependence of Estimation Precision for Synchrotron-Radiation-Based Mössbauer Spectroscopy
P 4	R. Moriguchi (Japan)	Bayesian Inference for Hyperfine Interaction Estimation in Multi-Site Samples
P 5	I. Kambayashi (Japan)	Bayesian estimation of Mössbauer spectroscopy using binomial distribution noise
p 6	H. Yamashita (Japan)	The Correlation of the Gamma Ray Waveform with the Vibration Phase of the Resonant Absorber
p 7	Y.R. Uhm (Korea)	Mössbauer spectroscopy and chemical characterization of blacwares
p 8	Y. Kobayashi (Japan)	Recoilless Fraction on ¹⁹⁷ Au Mössbauer Spectroscopy of Au Particles Supported on Metal Oxides
P 9	J.F. Marco (Spain)	In the way to recycle permanent magnets
P 10	K Nomura (Japan)	⁵⁷ Fe Mössbauer spectrometric study of functional oxides doped with dilute ⁵⁷ Fe
p 11	F. Fujishiro (Japan)	Oxygen desorption and local structures of Cr and Fe of Cr-doped perovskite-type SrFeO _{3-δ}
P 12	R. Mashita (Japan)	Quasi-elastic scattering study on a process under stretching in crosslinked rubber filled with silica by Mössbauer time-domain interferometry
P 13	T. Kawauchi (Japan)	Observation of Softened Phonons on the Surface of Fe-based Metallic Glass Thin Films
P 14	R. Nakamura (Japan)	Crystallization mechanism of amorphous Ga ₂ O ₃ film deposited by RF sputtering
P 15	N. Fujimoto (Japan)	Investigation of highly conductive transparent SnO ₂ films prepared by magnetron sputtering under a low temperature process
P 16	S. Wang (China)	Applications of <i>in-situ/operando</i> Mössbauer spectroscopy in the field of single-Sn-atom catalysis
P 17	Y. Zeng (China)	Applications of <i>operando</i> Mössbauer spectroscopy to single Fe atom catalysis in CO ₂ electroreduction
P 18	X. Zhang (China)	Mössbauer Spectroscopy Investigation on Model Single Fe Atom Catalysts toward O ₂ and CO ₂ Electroreduction
P 19	R. Chen (China)	Visualizing Catalytic Dynamics of Atomically Dispersed Tin Modified Copper Oxide in CO ₂ Electroreduction <i>via Operando</i> Mössbauer Spectroscopy
P 20	J. Zhao (China)	Mössbauer Spectrum Parameters Calculated by Density Functional Theory to Predict Structures of Single-atom Catalysts
P 21	J. Navařík (Czech Republic)	Miniaturized & Portable Mössbauer Spectrometer Designed for Industrial Applications
P 22	Y.R. Uhm (Korea)	Mössbauer study of iron compound developed as an alternative of platinum catalyst for hydrogen fuel cell
P 23	Y. Ching (Malaysia)	Multivariate optimization for removal of cadmium ions by succinic anhydride modified nanocellulose reinforced nanocomposite membrane using response surface methodology
P 24	T. Hashimoto (Japan)	Analysis of crystal structure of Sr _{0.8} Ba _{0.2} FeO _{3-δ} by Mössbauer spectroscopy
P 25	T. Hashimoto (Japan)	Substitution site of trivalent ion in SrFeO _{3-δ} and its effect on crystal structure and chemical state of Fe
P 26	T. Yoshino (Japan)	Miscibility gap in SrFeO _{3-δ} by oxygen content clarified by X-ray diffraction and Mössbauer spectroscopy
P 27	T. Tamaki (Japan)	Goldanskii-Karyagin Effect Observed 50 Years Ago in Metal Dichlorides
P 28	J. JIA (Japan)	Cation Distribution in (Mg,Zn)O Oxide Alloy

P 29	H. Minegoshi (Japan)	Development of vanadate glasses containing iron of higher oxidation states
P 30	H. Choi (Korea)	Mössbauer spectroscopy of archaeological cast iron artifacts and its corrosion products
P 31	H. Kawakubo (Japan)	Electrocatalytic performance of barium cobalt iron vanadate glass applied to metal-air battery
P 32	K. Hayashida (Japan)	Charge and discharge characteristics of lithium iron phosphovanadate glass developed for lithium-ion batteries
P 33	N. Oka (Japan)	Case studies of decentralized materials data management system using blockchain technology
p 34	A. Shamase (South Africa)	Phase quantification of a roasted high-grade iron ore plant tailings

We have 3 tutorials, 8 keynotes, 19 invited, 9 contributed, and 34 posters.