Ca' Foscari University of Venice
Department of Molecular Sciences and Nanosystems

Japanese Association of Inorganic Phosphorus Chemistry
日本無機リン化学会

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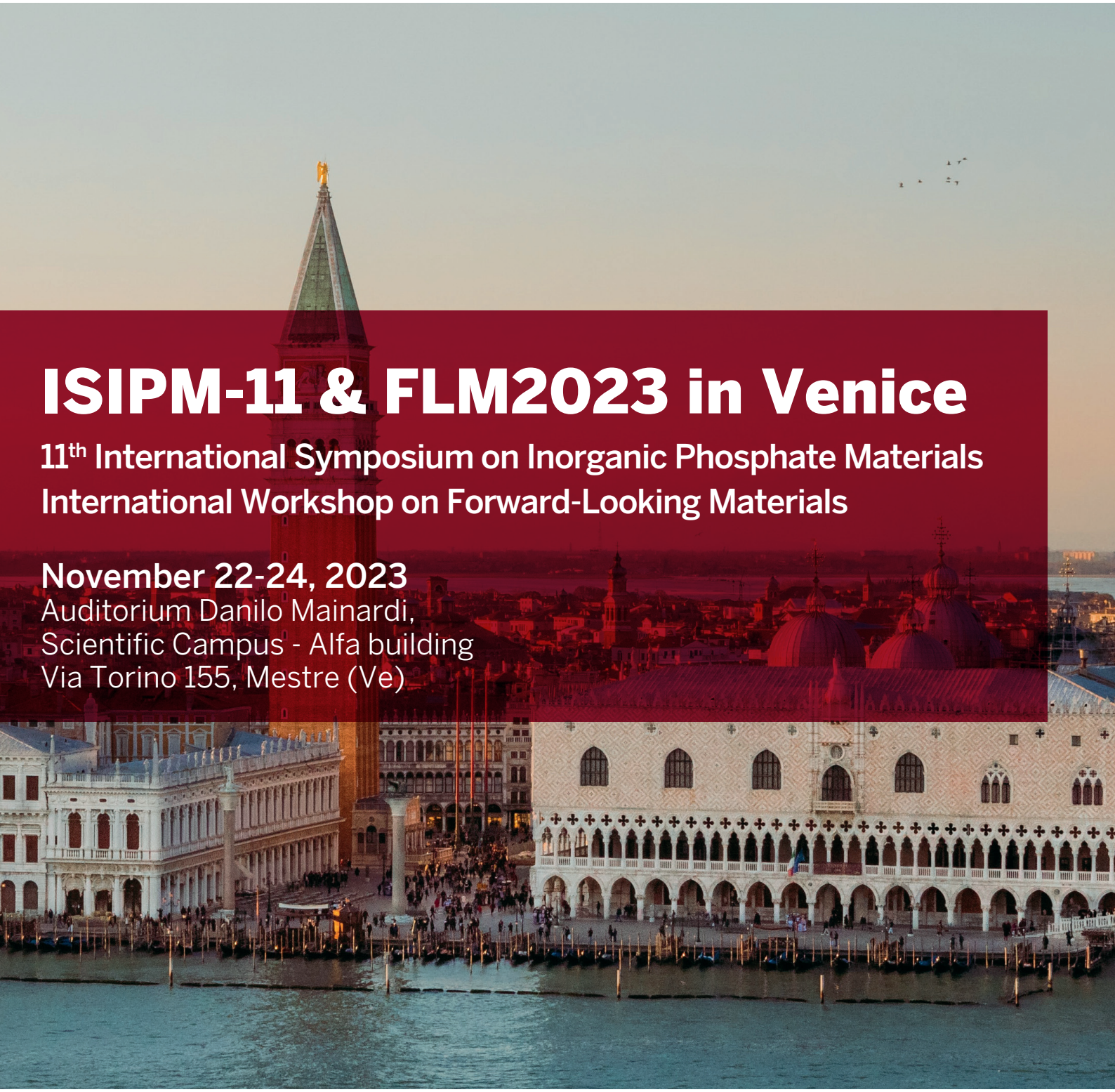

ISIPM-11 & FLM2023 in Venice

11th International Symposium on Inorganic Phosphate Materials
International Workshop on Forward-Looking Materials

November 22-24, 2023
Auditorium Danilo Mainardi,
Scientific Campus - Alfa building
Via Torino 155, Mestre (Ve)

DAY 1 - November 22, 2023

14.00-14.30 **Opening Ceremony**

14.30-16.00 **SESSION 1**
ISIPM-11 - Energy and Related Materials / Basic Science and Materials
Chair: **Makoto Sakurai**

14.30-15.10 **Toshinori Okura**
Plenary Lecture: *Na^{+}-superionic conductive phosphate glass-ceramics for oxide-based all-solid-state batteries*

15.10-15.35 **Kiyoshi Itatani**
I.1.1: *Encapsulation of Eu^{2+}-doped phosphate phosphor into phosphate glass by pressureless sintering and hot isostatic pressing*

15.35-16.00 **Shinnosuke Kamei**
I.1.2: *Potentiality of Synthesizing Functional Phosphate Compounds Using Sonochemistry*

16.00-16.30 *Coffee break*

16.30-17.55 **SESSION 2**
FLM2023 - Renewable and Solar Energy Materials
Chair: **Marco Bortoluzzi**

16.30-16.55 **Daniele Rosa-Gastaldo**
I.2.1: *Self-organization and Molecular Recognition: from Synthetic Receptors to Energy Applications*

16.55-17.10 **Anastasiia Taranova**
O.2.1: *Nanomaterials for applications in renewable energy*

17.10-17.25 **Letizia Liccardo**
O.2.2: *Engineering the surface on nano-Cu/TiO_2 toward efficient H_2 photo-production*

17.25-17.40 **Edlind Lushaj**
O.2.3: *Highly efficient solar-light-driven photodegradation of metronidazole by nickel hexacyanoferrate nanocubes showing enhanced catalytic performances*

17.40-17.55 **Sandro Zorzi**
O.2.4: *Insight into the Role of Ru-O-W in Boosting (Photo-) electrochemical Water Splitting*

18.00-19.00 **Poster Session** and Welcome Cocktail

POSTER SESSION

Zixuan Lu
P.1: Fabrication of apatite-fiber scaffold with optimized pore structure for bioartificial livers containing blood vessels

Aleksej Zarkov
P.2: Synthesis of $Ca_5(PO_4)_3Cl$ Microrods via the Phase Transformation of Amorphous Calcium Phosphate in Molten Chlorides

Masataka Ohgaki
P.3: Simultaneous analysis of phosphorus content and film thickness in multilayer films and evaluation of the analyzed values

Kiyoshi Itatani
P.4: Fabrication of porous and sheet-formedbone hemostatic materials by using sugar-containing hydroxyapatite and plant-derived polymer

Isamu Sunahara
P.5: Effect of Fluoride Concentration in an Aqueous Solution on Properties of Fluorapatite (FAp) Nano-Particles Derived from Dicalcium Phosphate (DCPD)

Sou Ishimura
P.6: Stabilization of a Small Amounts of Lead Ion by Reaction of Dicalcium Phosphate (DCPD)

Shoko Koike
P.7: Development of simple synthesis method for fluorapatite using a microwave oven

Tomohiro Umeda
P.8: Coating of hydroxyapatite on polyetheretherketone fiber woven fabric for the application to spinal compression fracture treatment

Navleen Sidhu
P.9: Development of nutraceutical formulation with green technology based on supercritical CO_2 technology

Sandro Zorzi
P.10: Enhanced Catalysis of Water Splitting Reaction at the Engineered interface WSe_2 -$RuSe_2$

Andrius Pakalniškis
P.11: Sc Doping Effects on the Magnetic and Structural Properties of $LuFeO_3$

DAY 2 - November 23, 2023

9.00-10.45 **SESSION 3**
ISIPM-11 -Energy and Related Materials / Basic Science and Materials
Chair: **Toshinori Okura**

9.00-9.40 **Brahim Elouadi**
Plenary Lecture:To be defined

9.40-10.05 **Hiroaki Onoda**
I.3.1: *Mechanochemical Effects on the Preparation of Manganese Phosphate Violet Pigments*

10.05-10.30 **Makoto Sakurai**
I.3.2: *Syntheses and Properties of Imido-phosphate Derivatives and Phosphate Glasses*

10.30-10.45 **Hirokazu Munakata**
O.3.1: *Phosphoric acid/ionic liquid mixed electrolytes for non-humidified intermediate temperature fuel cells*

10.45-11.15 *Coffee break*

11.15-12.35 **SESSION 4**
FLM2023 - Bio- and Nanocarbon-Based Materials
Chair: **Leonardo Puppulin**

11.15-11.40 **Alan Porporati**
I.4.1: *ZPTA ceramic bearing surfaces as a preferred choice in joint arthroplasty?*

11.40-12.05 **Naoyuki Matsumoto**
I.4.2: *Enhancing Composite Properties through Lock-in Thermography: Unraveling Structure-Property Relationships in Carbon Nanotube-Polymer Composites*

12.05-12.20 **Jacopo Nicoletti**
O.4.1: *Methodology for the accurate extraction of d33 piezoelectric coefficient in biocompatible chitosan films*

12.20-12.35 **Jacopo Segato**
O.4.2: *Transforming seafood byproducts into high-value nanostructured biofilms for packaging applications*

12.35-14.00 *Lunch break*

14.00-15.35 **SESSION 5**
ISIPM-11 - Innovative Processing of Phosphates / Materials for SDGs
Chair: **Takeshi Toyama**

14.00-14.25 **Kenjiro Fujimoto**
I.5.1: *Phase mapping of pseudo-ternary $LiFePO_4$-$LiMnPO_4$-$LiCoPO_4$ reaction diagrams and electrode properties in olivine-type $LiFe_{1-x-y}MnxCoyPO_4$*

14.25-14.50 **Mamoru Aizawa**
I.5.2: *Construction of Estimation Model of Bone Formation for Porous Hydroxyapatite Ceramics by Machine Learning*

14.50-15.05 **Shohei Kajiwara**
O.5.1: *Photocatalytic properties of phase-controlled titanium dioxide nanoparticles: A hybridization with calcium-phosphate materials*

15.05-15.20 **Haruhiko Kuroe**
O.5.2: *Preparation of fibrous octacalcium phosphate using homogeneous precipitation method*

15.20-15.35 **Shota Shiraki**
O.5.3: *Structure evaluation of titanium-containing phosphate glasses prepared by liquid phase method*

15.35-16.00 *Coffee break*

16.00-17.30 **SESSION 6**
FLM2023 - Optical and Luminescent Materials
Chair: **Michele Back**

16.00-16.25 **Mauro Fasoli**
I.6.1: *Luminescent materials for ionizing radiation detection*

16.25-16.50 **Riccardo Marin**
I.6.2: *Pushing the Limits of Luminescence Nanothermometry*

16.50-17.15 **Francesco Enrichi**
I.6.3: *Broadband UV excitation in Ag-sensitized RE^{3+} doped sol-gel glasses: a route to efficient and sustainable lighting*

17.15-17.30 **Michele Crozzolin**
O.6.1: *Size Effect in y-Phase Stabilization of Ga_2O_3:Cr^{3+} Nanocrystals Grown into SBA-15 Pores*

19.30 *Conference dinner*

DAY 3 - November 24, 2023

9.15-10.35 **SESSION 7**
ISIPM-11 - Apatite or Phosphates-Related Biomaterials / Basic Science and Materials
Chair: **Kiyoshi Itatani**

9.15-9.40 **Aleksej Zarkov**
I.7.1: *Magnesium and Transition Metal Whitlockite: Synthesis and Characterization*

9.40-10.05 **Sungho Lee**
I.7.2: *Design of Novel Bioactive Phosphate Glasses for Biomedical Applications by Enhancing Cell Activity with Inorganic Ions*

10.05-10.20 **Erika Onuma**
I.7.3: *Proteomics of proteins adsorbed on hydroxyapatite ceramics with preferred orientation to a-plane*

10.20-10.35 **Andrea Morandini**
O.7.1: *New chlorinating agents-free synthetic route for preparation of P-N and P-O dibenzooxaphosphacycles derivatives*

10.35-11.00 *Coffee break*

11.00-12.05 **SESSION 8**
ISIPM-11 - Materials for SDGs
Chair: **Hiroaki Onoda**

11.00-11.25 **Masamoto Tafu**
I.8.1: *Production of zero-carbon lime from gypsum waste for sustainability of phosphate industry*

11.25-11.50 **Takeshi Toyama**
I.8.2: *Recovery of phosphorous from sewage sludge ash through component conditioning via CO_2 blowing method*

11.50-12.05 **Giulia Bragaggia**
O.8.1: *Phosphates adsorption process: use of Electric Arc Furnace slags as P-adsorbents from wastewater*

12.05-12.30 **Closing Remarks**