

The Twelfth International Symposium on Two-Dimensional Correlation Spectroscopy (2DCOS-XII)

August 17-18, 2023, Korea

Program at a Glance

| Oral Presentations | |
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| August 17, 2023 | |
| Keynote | Isao Noda "PROGRESS IN TWO-DIMENSIONAL CORRELATION SPECTROSCOPY (2D-COS)" |
| Oral talk-01 | Thomas G. Mayerhöfer "THE FOOTPRINT OF LINEAR DICHROISM IN INFRARED 2D-CORRELATION SPECTRA" |
| Oral talk-02 | Gang Ma "ELUCIDATING THE SELF-ASSEMBLING MECHANISMS OF ULTRA-SHORT AMYLOIDOGENIC PEPTIDES BY VIBRATIONAL SPECTROSCOPY" |
| Oral talk -03 | Yizhuang Xu "INVESTIGATION ON THE INTERMOLECULAR INTERACTION BETWEEN QUERCETIN AND HYDROXYPROPYL β -CYCLODEXTRIN" |
| Oral talk -04 | Alberto Mezzetti "PROTEIN DYNAMICS IN A PHOTOSYNTHETIC REACTION CENTERS ANALYZED BY TIME-RESOLVED FTIR DIFFERENCE SPECTROSCOPY AND 2D-COS ANALYSIS" |
| Oral talk -05 | Aleksandra Wesołucha-Birczyńska "CAN 2D-COS INDICATE BIOCOMPATIBLE MATERIAL?" |
| Oral talk -06 | Yuqing Wu "A SPECIFIC FLUORESCENCE-ENHANCED METHOD FOR FURFURAL DETECTION IN CHINESE BAIJIU BASED ON CARBON DOTS" |

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| Oral talk -07 | Shun Muroga "TWO-DIMENSIONAL CORRELATION ANALYSIS OF MICRO AND MACROSCOPIC STRUCTURE EVOLUTION IN ANNEALED CARBON NANOTUBES" |
| Oral talk -08 | Fran Adar "USE OF 2D-COS TO UNRAVEL THE CRYSTALLIZATION MECHANISM OF PHA FROM POLARIZED RAMAN MEASUREMENTS OF SPHERULITES" |
| Oral talk -09 | Ya-Qian Wang "SPECIES ANALYSIS IN THE MODEL ELECTROLYTE OF LITHIUM ION BATTERIES CONTAINING LITFSI AND PROPYLENE CARBONATE" |
| Oral talk -10 | Carmen-Mihaela Popescu "DETERMINATION OF STRUCTURAL CHANGES TAKING PLACE IN SPRUCE WOOD FOLLOWING (HYDRO)THERMAL TREATMENT" |
| August 18, 2023 | |
| Oral talk-11 | Andjelka B. Kovačević "2D CORRELATION TECHNIQUE FOR PERIODICITY DETECTION" |
| Oral talk-12 | Thomas G. Mayerhöfer "QUANTITATIVE 2D-CORRELATION ANALYSIS" |
| Oral talk-13 | Liping Zhang "AG (I) IONS CONCENTRATION-DEPENDENT DYNAMIC MECHANISM OF THE THIOLACTIC ACID CAPPED GOLD NANOCCLUSERS AS REVEALED BY FLUORESCENCE SPECTRA AND 2D CORRELATION ANALYSIS" |
| Oral talk -14 | Yiping Chen "INFRARED TWO DIMENSIONAL CORRELATION SPECTRUM UNDER THERMAL AND MAGNETIC PERTURBATIONS" |
| Oral talk -15 | Luke R. Sadegaski "APPLYING 2D CORRELATION SPECTROSCOPY AND PRINCIPAL COMPONENT ANALYSIS TO UNDERSTAND HOW TEMPERATURE AFFECTS THE NEPTUNIUM(V) ABSORPTION SPECTRUM" |
| Oral talk -16 | Hideyuki Shinzawa "SIMULTANEOUS MEASUREMENT OF NEAR-INFRARED (NIR) ABSORPTION AND SMALL ANGLE X-RAY SCATTERING (SAXS) FOR CHARACTERIZING THERMALLY AGED POLYPROPYLENE (PP)" |
| Oral talk -17 | Anna Kołodziej "SPECTROSCOPIC STUDY OF MICRO/NANO-HYDROXYAPATITE POLYMER COMPOSITES MODIFIED WITH |

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| | CARBON NANOFIBERS.” |
| Oral talk -18 | Hai-Yun Wu “TWO-DIMENSIONAL CORRELATION SPECTROSCOPY ANALYSIS FOR CORE BROWNING OF 'YALI' PEARS” |
| Oral talk -19 | Dennis Hore “SILICONE RUBBER STRUCTURAL CHANGES UNDER THERMAL STRESS AND SALT EXPOSURE” |
| Oral talk -20 | Belinda Pastrana “2T2D CORRELATION ENABLED DEAMIDATION SCREENING OF AN ARRAY OF THERAPEUTIC PROTEINS” |
| Poster Presentations | |
| P01 | Naoya Fuse “CHANGES IN INTERNAL STRUCTURE OF AGE-RELATED CURVED HAIR CAUSED BY CYCLICAL EXTENSION STUDIED BY 2D IR CORRELATION SPECTROSCOPY” |
| P02 | Laura Oleksy “MONITORING THE SYNTHESIS OF METAL COMPOUNDS WITH CINCHONIDINE USING 2D-COS METHOD” |
| P03 | Li-Miao Qin “CLARIFICATION OF ETHANOL-WATER CLUSTERS IN ALCOHOLIC BEVERAGES BY TWO-DIMENSIONAL CORRELATION SPECTROSCOPY” |
| P04 | Seongsoo Jeong “HETEROSPECTRAL TWO-DIMENSIONAL CORRELATION OF RAMAN AND NEAR-INFRARED (NIR) SPECTROSCOPY FOR DISCRIMINATION OF GEOGRAPHICAL ORIGIN OF RED PEPPER” |
| P05 | Linjing Zhao “IDENTIFICATION OF METHANOL ADULTERATED FAKE LIQUOR BASED ON TWO-DIMENSIONAL CORRELATION SPECTROSCOPY” |
| P06 | Zofia Chajdaś “USE OF 2D-COS CORRELATION SPECTROSCOPY IN MONITORING THE SYNTHESIS OF METAL COMPOUNDS WITH QUINOLINE ALKALOIDS” |
| P07 | Han Zhang “SORPTION PROPERTIES OF PHENANTHRENE ON POLYPROPYLENE MICROPLASTICS: KINETIC, ISOTHERM AND A TWO-DIMENSIONAL CORRELATION SPECTROSCOPIC STUDY” |

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| P08 | Jing Liang "PREDICTION OF WATER AND PROTEIN CONTENT IN DIFFERENT CORN FEEDS USING NEAR-INFRARED SPECTROSCOPY AND DEEP LEARNING METHODS" |
| P09 | Jiansong Sun "IMPROVED RESNET NETWORK COMBINED WITH 2D CORRELATION SPECTROSCOPY FOR COD SPECIES CLASSIFICATION" |
| P10 | Bogumiła Kupcewicz "APPLICATION OF 2T2D CORRELATION SPECTROSCOPY IN THE ANALYSIS OF HERBAL PRODUCTS" |
| P11 | Gui-Mei Dong "CORRECTION OF THE EFFECT OF HUMIC ACID ON THE FLUORESCENCE DETECTION OF PAHS BY COMBINATION SPECTROSCOPY" |
| P12 | Jin Qiu "2D-COS RAMAN STUDY OF NIO NANOPARTICLES" |
| P13 | Zhi-Bin Liao "EFFECT OF DISSOLVED ORGANIC MATTER ON ADSORPTION OF PAHS BY MICROPLASTICS" |
| P14 | Shida Chen "A METHOD OF PREDICTION OF THREE INDEXES OF SUGAR CONTENT HARDNESS AND PH IN PEAR BASED ON INTER-INDEX CORRECTION" |
| P15 | Yifan Wang "EXPLORING THE APPLICATION OF TWO-DIMENSIONAL CORRELATION SPECTROSCOPY TO PREDICT PROTEIN CONTENT IN FLOUR BASED ON ENSEMBLE LEARNING" |
| P16 | Tianrui Zhang "AN EFFICIENT DEEP LEARNING NETWORK COMBINED WITH TWO-DIMENSIONAL CORRELATION SPECTRUM FOR SPECIES CLASSIFICATION OF FLOUR" |
| P-17 | Ikuo Kageyuki "RHEO-OPTICAL NEAR-INFRARED (NIR) ANALYSIS OF STYRENE-BUTADIENE RUBBER (SBR)" |
| P-18 | Yeonju Park "2T2D-COS STUDY OF SELECTIVE ENHANCEMENT MECHANISM IN SERS TAGS ON SINGLE GOLD NANOSPHERE AND NANOROD" |