

CFF2024 – Poster List

- P1.** A. ARCIDIACONO, E. CIGNONI, P. MAZZEO, L. CUPELLINI, B. MENNUCCI – “Predicting solvatochromism of carotenoids with Machine Learning”
- P2.** D. ARMANI, M. D’ALESSANDRO, J. RUSSO, S. ROMANI, F. PATRIGNANI, N. LOTTI – “Biomolecules from the valorization of agri-food by-products for sustainable and active primary packaging (BIO4SUSPACK)”
- P3.** L. ARRIGHETTI, L. RICCI, C. DE MONTE, S. PEZZINI, U. GRANATA, C.A. MASSA, V. DOMENICI, S. BRONCO – “Innovative green plastic materials from solution casting of cutin from tomato peels and commercial pectin”
- P4.** G. AVINO, A. VALZANO, N. NOMANDOLO, S. GIANNARELLI, J. J. LUCEJKO, A. CECCARINI, A. MTIBE, M. JACOB JOHN, A. OPERAMOLLA – “Nanocellulose decoration with melanin-like materials for water purification membranes”
- P5.** L. BARLUCCHI, J. LA NASA, G. BIALE, A. CECCARINI, P. DI FILIPPO, D. POMATA, C. RICCARDI, F. BUIARELLI, G. SIMONETTI, F. MODUGNO – “Quantification of airborne microplastics and related additives in indoor particulate and settled dust collected in a working environment”
- P6.** F. BARSOTTI, C. ANTONETTI, D. LICURSI, N. DI FIDIO, V. MENICAGLI, E. BALESTRI, C. LARDICCI, A.M. RASPOLLI GALLETTI, S. FULIGNATI – “Valorization of Posidonia oceanica balls: from waste to versatile raw material in an integrated biorefinery perspective”
- P7.** S. BENETTI, T. NOTTOLI, Z. XIAO, L. BIANCALANA, T. FUNAIOLI, S. ZACCHINI, G. GASSER, F. LIPPARINI, F. MARCHETTI – “A New Class of Ferrabenzenes”
- P8.** BERTELLI, E. RIBECHINI – “Comprehensive multianalytical characterization of resinous substances employed as adhesives in archaeological finds”
- P9.** B. BERTINI, D. LICURSI, F. TADDEO, A. SESSA, N. SCOTTI, R. CUCCINIELLO, V. RUSSO, A.M. RASPOLLI GALLETTI, C. ANTONETTI – “Sustainable Approaches for Diphenolic Acid Synthesis in Batch and Continuous Reactors”
- P10.** B. BERTONCINI, M. CARLOTTI – “Multipotent Precursors as Immobilization Strategy for Conjugated Polymers with Complementary Electronic Properties”
- P11.** E. BETTI, P. SARACENO, E. CIGNONI, L. CUPELLINI, B. MENNUCCI – “How Machine Learning enhances simulation of energy transfer in Light-harvesting Complex II”
- P12.** D. BIAGINI, G. BERTAZZO, S. GHIMENTI, A. LENZI, C. OGER, J.M. GALANO, L. BALAS, T. DURAND, N. R. PUGLIESE, S. ARMENIA, S. TADDEI, S. MASI, F. DI FRANCESCO, T. LOMONACO – “Distribution of Polyunsaturated Fatty Acids in Dried Blood Spots of Heart Failure Patients”
- P13.** F. BINACCHI, C. ELIA, S. BONNET, A. PRATESI, T. BIVER – “A biophysical study on the interaction of tetrapyrrolyl metal complexes with relevant nucleic acid molecules”
- P14.** A. BOCCUTO, C. CATARINICCHIA, D. PANETTA, C. ZAPPELLI, L. COLAGIORGIO, M. CECCHINI, M. GAGLIARDI, P. ARMANETTI, D.S. ZAI, A. MELONI, A. PRATESI, C. GABBIANI, F. MARCHETTI, F. CADEMARTIRI, L. MENICHELLI – “Development and characterization of new contrast agents for imaging technology called spectral photon counting computed tomography (SPCCT)”
- P15.** M. BOLDRINI, E. GIORGI, T. GAMBERI, M. MANNELLI, C. GABBIANI, A. PRATESI – “Synthesis and characterization of new gold(I) NHC complexes containing fluorescent probes as potential anticancer agents”
- P16.** L. BONALDI, S. FULIGNATI, R. LORÈ, C. ANTONETTI, G. FLORI, S. FRIGO, A.M. RASPOLLI GALLETTI – “A novel strategy for syngas production through the oxy- gasification of pulp and paper mill sludge”
- P17.** F. BUSATO, F. PETRI, L. ARRICO, F. ZINNA, A. MANDOLI, L. DI BARI – “Two-photon excitable

ligands: a new step for in vivo imaging”

- P18.** C. CAMPI, T. MARKEVICIOUS, I. BONADUCE, I. DEGANO – “Preliminary Studies on Using Atomic Oxygen for Cleaning Silk”
- P19.** C. CAMPINOTI, F. SARDELLI, M. PINESCHI, F. DI FRANCESCO, F. BELLINA, M. LESSI, F. M. VIVALDI, A. DEL VECCHIO – “Electro-oxidative nitroso-Diels-Alder reaction for the regioselective functionalization of dihydropyridines”
- P20.** A. CANOVAI, S. BRACCINI, A. CORTI, G. PECORINI, G. TOTARO, E. FERRARO, D. PUPPI – “Electrospinning of Microbial Polyhydroxyalkanoates for the Development of Naringenin-Loaded Microfibrous Meshes”
- P21.** N. DI FIDIO, L. CARMASSI, L. FAMLONGA, D. LICURSI, S. FULIGNATI, G. CIANCALEONI, A. M. RASPOLLI GALLETTI, C. ANTONETTI – “From giant reed to carotenoids: development and optimisation of an innovative cascade process”
- P22.** A. CERCHIAI, L. SEMBRANTI, F. VIVALDI, F. DI FRANCESCO – “LIG-based electrochemical platform for gas sensor fabrication”
- P23.** N. CESAREO, S. BRACCINI, L. ORLANDI, F. PERINI, C. MOTA, D. PUPPI – “Bioprinting of gelatin methacryloyl-based bioinks for in vitro ovarian cancer modelling”
- P24.** D. CIANCHINO, T. UHLIROVA, T. NOTTOLI, J. GAUSS, F. LIPPARINI – “Four component relativistic calculations at reduced cost: a Cholesky decomposition implementation”
- P25.** M. DE CRISTOFARO, A. LENZI, D. BIAGINI, S. GHIMENTI, N. R. PUGLIESE, S. ERMENIA, S. MASI, F. DI FRANCESCO, T. LOMONACO – “PERICARD: a targeted Plasmatic pEptidomic profile foR monIToring CARdiovascular Diseases”
- P26.** L. DEI, G. ANGELICI, G. PESCIPELLI – “Synthesis, characterization and biological applications of peptoid-based metal chelators”
- P27.** F. DELLA CROCE, L. CALUCCI, E. CARIGNANI, M. TADDEI, M. LESSI – “DAM4CO2 project: Synthesis and Characterization of Metal- Organic Frameworks for CO2 Separation”
- P28.** R. DUCOLI, G. CAROTI, M. CEI, R. GEORGIU, S. PIZZIMENTI, R. BIZZARRI, C. DUCE, F. ZINNA, I. BONADUCE – “15th Century Paint Microstructure”
- P29.** S. EL BARKAOUI, L. MANDI, M. DELL BUBBA, N. OUZZANI – “Effect of pyrolysis temperatures on the properties of biochars derived from lignocellulosic biomass and their methylene blue adsorption behavior”
- P30.** F.G. FABOZZI, S. HECHT – “Design of Organic Building Blocks for the On-Surface Synthesis of Conjugated 2D-Covalent Organic Frameworks”
- P31.** L. FAMLONGA, E. BARRESI, S. TALIANI, F. DA SETTIMO, T. MARZO, L. GUAZZELLI – “Eco-friendly refinement of N,N Dialkyl-2-arylindol-3-ylglyoxylamides synthesis”
- P32.** M.F AUSTI, L. ARRICO, F. ZINNA, I. D’AGOSTINO, C. LA MOTTA, T. BIVER, L. DI BARI – “Eu(III)-TTA Metal Complexes For The Fluorescent Labelling Of Cyclodextrin-Nanosponges (CyD-NSs)”
- P33.** M. FILOMENA, M. MATTONAI, F. NARDELLA, E. RIBECHINI – “Analytical pyrolysis to characterize lignins obtained by microwave-assisted eutectic solvent extraction and fractional precipitation”
- P34.** A. GHELARDI, E. CARIGNANI, M. GEPPI – “Comparison of dynamics and structure of polymorphs by solid-state NMR: the case of Leflunomide”
- P35.** C. GHELARDUCCI, F. BINACCHI, O. MONASSON, E. PERONI, A. PRATESI, C. GABBIANI – “Synthesis and characterization of new Pt(II) complexes linked with peptide sequences with the aim of using the bioconjugates in targeted anticancer therapies”
- P36.** T. GIANI, G. TOMASI, T. SCATTOLIN, F. VISENTIN, T. BIVER – “Pd(II)-indenyl complexes bearing N-heterocyclic carbene ligands do bind nucleic acids: mechanistic tests and DNA/RNA comparison”
- P37.** E. GIORGI, D. CIRRI, T. GAMBERI, C. GABBIANI, A. PRATESI – “Comparative study of cytotoxic auranofin analogues: impact of phosphine, arsine, and stibine ligands on the biological activity”
- P38.** C. GUGLIELMI, S. BRACCINI, B. TARPARELLI, E. SODDU, G. TOTARO, A. BATTISTI, S. K. SAMAL, D.

PUPPI – “3D Printed Surgical Anti-Adhesive Chitosan Membranes Incorporating Eugenol-loaded Polymeric Nanoparticles”

P39. C. GUIDI, M.M. SARAVIA, L. BERNAZZANI, A. CECCARINI, F. PAGANUCCI – “Iodine as Propellant in Electric Thrusters: Development of a Feeding System and Hollow Cathode”

P40. A. LENZI, D. BIAGINI, L.B. CARVALHO, S. GHIMENTI, S. ARMENIA, N.R. PUGLIESE, S. MASI, F. DI FRANCESCO, T. LOMONACO, C. LODEIRO, J.L. CAPELO-MARTINEZ, H.M. SANTOS – “Filter-aided sample preparation protocol to investigate urinary proteome in heart failure patients”

P41. G. LUDOVISI, A. GABBANI, A. PICCHI, A. PUCCI, F. PINEIDER – “Quantum-Cutting Ytterbium-Doped Perovskite: synthesis, characterization, and prospects in solar energy conversion technologies”

P42. P. MAZZEO, E. CIGNONI, A. ARCIDIACONO, L. CUPELLINI, B. MENNUCCI – “Exploring Intramolecular Proton Transfer Dynamics with Machine Learning Multiscale Simulations”

P43. L. MELEGA, T. NOTTOLI, A. SAVARESE, J. GAUSS, F. LIPPARINI – “Implementation of Coupled Cluster analytical gradients based on the Cholesky decomposition of ERIs”

P44. E. MICHELI, F. PAOLINO, E. PULIDORI, C. PELOSI, C. DUCE, E. RIBECHINI, B. CIPOLLINA, C. APREA, L. BIROLO, E. BRAMANTI, I. BONADUCE – “Natural materials Development from Collagen-based Wastes: ArtDECOW”

P45. N. MORRONE, N. DI FIDIO, C. ANTONETTI, D. LICURSI, S. FULIGNATI, A.M. RASPOLLI GALLETTI – “Screening of oleaginous yeasts for the valorization of sewage scum polysaccharides through the production of Single Cell Oil”

P46. F. NERLI, V. GUIDOTTO, V. CROCELLÀ, F. NARDELLI, L. CALUCCI, M. LESSI, M. TADDEI – “Tuning of the CO₂ adsorption mechanism in flexible F4_MIL-140A(Ce) by ligand engineering”

P47. L. PACILIO, V. CASTELVETRO, A. CORTI, R. GIANNECCHINI, S. VIAROLI, V. RE – “Microplastics in agricultural soils and underground water”

P48. A. PAOLI, M. ZERBINI, S. GIANNARELLI, M. BECCIA, T. BIVER – “Emerging pollutants in seawater: the interaction between the brown alga *Ascophyllum Nodosum* and four antibiotics”

P49. F. PAOLINO, J.J. ŁUCEJKO – “Assessment of in-situ Conservation Measures on Archaeological Wooden Artifacts: Insights from the StAr JPI- CH Project”

P50. S. PEZZINI, G. BIALE, L. ARRIGHETTI, J. LA NASA, S. MERLINO, C. DE MONTE, M. LOCRITANI, L. RICCI, F. MODUGNO, S. BRONCO – “Cruising Towards Sustainability: Unraveling the Fate of Biodegradable Plastics in Real Marine Environments”

P51. S. PIZZIMENTI, G. CAROTI, E. PULIDORI, L. BERNAZZANI, A. F. BONATTI, C. DEMARIA, G. VAN. ASSCHE, F. MARTINI, M. GEPPI, C. DUCE, I. BONADUCE – “Exploring curing kinetic, thermodynamic and molecular features of industrial oil paint formulations”

P52. M. PORCO, D. CIRRI, P. PAOLI, C. GABBIANI, A. PRATESI – “Oxaliplatin-based Pt(IV) complexes functionalised with monohaloacetate ligands as potential anticancer prodrugs”

P53. S. REALE, S. MICIC, T. BRUDERER, M. RIPSZAM, R. WEBER, T. LOMONACO, A. MOELLER, F. DI FRANCESCO – “Exploring Trikafta Therapy Effects on Exhaled Breath Molecules by Comprehensive GCxGC-Q-TOF”

P54. D. ROCCHI, F. NERLI, M. TADDEI – “Synthesis of multicomponent fluorinated MOFs as CO₂ adsorbents”

P55. C. ROSATI, D. ARMANI, O. PICCOLO, A. PETRI – “Use of Alcohol Dehydrogenases as efficient biocatalysts for the enantioselective reduction of prochiral ketones”

P56. S. ROTUNDO, A. GIOVANELLI, F. NARDELLI, E. CARIGNANI, F. MARTINI, A. PUCCI, M. GEPPI – “Structure, dynamics and water status in a polyketone-based anion exchange membrane for electrochemical applications: a solid state NMR study”

P57. P. SARACENO, S. SARDAR, R. CAFERRI, F.V.A. CAMARGO, L. DALL’OSTO, C. D’ANDREA, R. BASSI, L. CUPELLINI, G. CERULLO, B. MENNUCCI – “First-principles simulations of CP29 unveil the effect of mutations on light harvesting”

- P58.** E. SCAIELLA, E. GUAZZELLI, M. LESSI, F. BELLINA, A. CESARI, D. PUPPI, S. BRACCINI, A. BATTISTI, M. SANTI, E. MARTINELLI – “Thermoresponsive unimer micelles of amphiphilic fluorinated copolymers for encapsulation of hydrophobic drugs”
- P59.** L. SEMBRANTI, F. VIVALDI, F. DI FRANCESCO – “Electrochemical biosensor for the quantification of Urea in dialysate and blood”
- P60.** K. SHUMIKHIN, S. PIZZIMENTI, K. J. VAN DEN BERG, I. BONADUCE, C. DUCE – “Evaluating the impact of atomic oxygen surface cleaning on oil paint”
- P61.** S. VOLANTE, D. LICURSI, F.M. VIVALDI, N. DI FIDIO, S. FULIGNATI, F. DI FRANCESCO, A.M. RASPOLLI GALLETTI, C. ANTONETTI – “Sustainable energy storage: hazelnut shell-biochar as electrode material for supercapacitors”
- P62.** A. VOLPE, C. PELOSI, G. CIANCALEONI, L. BERNAZZANI – “Preparation, physicochemical characterization and applications of a Cobalt-based Deep Eutectic Solvent”
- P63.** R. ZANOBINI, C. DU BOULLAY, G. CAROTI, C. DUCE, L. DE VIGUERIE, I. BONADUCE – “Investigating the Behavior of Azurite in Different Paint Systems”
- P64.** C. ZAPPELLI, A. BOCCUTO, M. BORTOLUZZI, L. MENICHETTI, F. MARCHETTI – “Synthesis and characterization of tungsten citrate complexes as potential contrast agents in SPCCT”