

AIMAT 2021

XVI CONVEGNO NAZIONALE

CAGLIARI

SESSIONE 1

SESSIONE 3

SESSIONE 2

SESSIONE 4

15 settembre

16 settembre

17 settembre

18 settembre

DALLE - ALLE

08:30 - 09:00
09:00 - 09:15
09:15 - 09:30
09:30 - 09:45
09:45 - 10:00
10:00 - 10:15
10:15 - 10:30
10:30 - 10:45
10:45 - 11:00

Accoglienza
Iscrizione dei partecipanti

Saluti di benvenuto

KN 1.1

11:00 - 11:15
11:15 - 11:30

KN2.1

11:30 - 11:45
11:45 - 12:00
12:00 - 12:15
12:15 - 12:30
12:30 - 12:45
12:45 - 13:00

S2.1
S2.2
S2.3
S2.4
S2.5
S2.6

13:00 - 14:30

Pranzo di benvenuto

14:30 - 14:45
14:45 - 15:00
15:00 - 15:15
15:15 - 15:30
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S1.13
S1.38

Aperitivo - Sessione Poster

KN3.1
S3.1
S3.2
S3.3
S3.4
S3.5
S3.6
S3.7
S3.8

Pausa Caffè

S1.19
S1.28
S1.14
S1.15
S1.16
S1.17

Pausa Pranzo

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S1.20
S1.21
S1.22
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S2.15

Aperitivo - Sessione Poster

Cena Sociale

KN4.1
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S4.4
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Pausa Caffè

S4.9
S4.10
S4.11

Attività culturali
Attività culturali
Attività culturali

Pausa Pranzo
Pranzo di Lavoro Giovani

Assemblea AIMAT

Proclamazione del
Neo-Presidente

Giornata MaterialiA

Presentazione lavori,
cerimonia di premiazione
Esposizione Atenei

Attività Culturali

Aperitivo - Degustazione
Attività Culturali
Spettacolo

KN1.2
S1.30
S1.31
S1.32
S1.33
S1.34
S1.35
S1.36
S1.37

Pausa Caffè

S3.9
S3.10
S3.11
S3.12
S3.13
S3.14

Pausa Pranzo
Saluti

Chairman

Valeria Cannillo
Francesco Andreatta

Paola Fabbri
Fabrizio Sarasini

Paola Scarfato
Vincenzo Fiore

Barbara Liguori
Sergio Lorenzi



SESSIONE 1 - PRESENTAZIONI ORALI

Codice	Titolo	SPEAKER
KN1.1	RELIABILITY AND CRACK PROPAGATION RESISTANCE OF 3D-PRINTED NANO-CERAMICS	MARCO SEBASTIANI
KN1.2	INJECTABLE CELLULOSE-BASED BIOCOMPOSITES FOR BONE TISSUE REGENERATION	LINA ALTOMARE
S1.1	NOVEL BIO-BASED POLY(LACTIC ACID)/POLY(ALKYLENE FURANOATE)S FIBER BLENDS FOR SUSTAINABLE TEXTILES	ANDREA DORIGATO
S1.2	STUDY OF POLY(LACTIC ACID) (PLA)/POLY(BUTYLENE SUCCINATE-CO-ADIPATE) (PBSA) COMPATIBILIZED BINARY BIOBASED BLENDS	LAURA ALIOTTA
S1.3	PHOTOCATALYTIC ACTIVITY OF IMMOBILIZED NANOTUBULAR TiO ₂ FOR THE DEGRADATION OF ORGANIC POLLUTANTS IN LIQUID AND GAS PHASE	UMBERTO BELLÈ
S1.4	A STUDY ON THE EFFECT OF THE FILM BLOWING PROCESS ON THE SHRINKAGE OF PLA/PBAT BASED FILMS	ARIANNA PIETROSANTO
S1.5	PVA GNP GRADED POROUS MEMBRANES OBTAINED BY CONTEXTUAL ELECTROSPINNING AND CROSSLINKING	EMMANUEL FORTUNATO GULINO
S1.6	ON THE USE OF CHITIN, CHITOSAN AND CUTIN IN HOT-MELT ANTIMICROBIAL OR HYDROPHOBIC FORMULATIONS FOR COATINGS	VITO GIGANTE
S1.7	FROM THE SEA TO A PHOTOCATALYTIC MATERIAL: THE USE OF MUSSELS' EXTRAPALLIAL FLUID FOR C AND N DOPING OF TiO ₂ BASED PHOTOCATALYSTS	MARIA CAMILA ARIZA TARAZONA
S1.8	PRODUCTION, MECHANICAL BEHAVIOR, AND ANTIBACTERIAL PROPERTIES OF GEOPOLYMER COATINGS	ALFREDO RONDINELLA
S1.9	MICROWAVE-ASSISTED SYNTHESIS OF GRAPHENE-LADEN HYDROGELS FOR THERMALLY CONTROLLED DRUG DELIVERY	FRANCESCO BASOLI
S1.10	LEVULINIC ACID-BASED KETAL-ESTERS: A STEP FORWARD IN THE TRANSITION FROM PLASTICIZERS TO BIOPLASTICIZERS	DAVIDE MORSELLI
S1.11	SCALABLE AND SUSTAINABLE SYNTHESIS TO PRODUCE IRON OXIDE NANOPARTICLES	LUDOVICO MACERA
S1.12	HIERARCHICAL STRUCTURES ACHIEVED BY WET ELECTROSPINNING ONTO ACTIVE LIQUID COLLECTOR	ANDREA MAIO
S1.13	MODIFIED COATINGS FOR HIGH TEMPERATURE PROTECTION OBTAINED VIA ELECTROLESS PLATING	VIRGILIO GENOVA
S1.14	OPTICAL HYDROGEN SENSING OF TUNGSTEN OXIDE SOL-GEL THIN FILM COVERED WITH Au OR Pt NANOPARTICLES - AN EXPERIMENTAL AND COMPUTATIONAL STUDY	ALESSANDRO LONGATO
S1.15	FIRE PROTECTION EFFICIENCY OF SUSTAINABLE INTUMESCENT COATINGS FOR NAVAL APPLICATIONS	ELPIDA PIPEROPOULOS



SESSIONE 1 - PRESENTAZIONI ORALI

Codice	Titolo	SPEAKER
S1.16	MODELLING TOOLS FOR THE DEVELOPMENT OF NEW MATERIALS	MAURO PALUMBO
S1.17	USE OF ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY FOR THE STUDY OF OXIDE DEBONDING PRODUCED BY PLASMA ELECTROLYTIC OXIDATION	LUCA CASANOVA
S1.18	3D PRINTING OF SELF-MONITORING ABS-BASED NANOCOMPOSITES VIA FUSED FILAMENT FABRICATION	LORENZO PALEARI
S1.19	PROCESSING AND CHARACTERIZATION OF ULTRA HIGH TEMPERATURE HIGH ENTROPY CERAMICS	SIMONE BARBAROSSA
S1.20	ELECTROSPUN HYBRID MATERIALS FOR THE SUSTAINABLE EXPLOITATION OF ENERGY	ANGELA MALARA
S1.21	NON-IONIC SURFACTANT FUNCTIONALISATION OF POLYURETHANE SCAFFOLDS FOR TISSUE ENGINEERING	ILARIA CACCIOTTI
S1.22	POROUS SCAFFOLDS BASED ON BIOPOLYMERS FILLED WITH BIOACTIVE INORGANIC PARTICLES FOR BONE TISSUE ENGINEERING	MICAELA DEGLI ESPOSTI
S1.23	PREPARATION AND CHARACTERIZATION OF POLYMER-BASED BIOCOMPOSITES FOR AGRI-FOOD PACKAGING APPLICATIONS	CORRADO SCIANCALEPORE
S1.24	ENVIRONMENTAL BARRIER COATINGS (EBC) BASED ON RARE EARTH SILICATES FOR THE PROTECTION OF AIRCRAFT ENGINES COMPONENTS	GIOVANNI PULCI
S1.25	SMART ADHESIVES FOR WET SURFACES WITH SELF-SENSING PROPERTIES BASED ON GREEN MATERIALS AND NANOSTRUCTURES: FROM PLANAR TO 3D-ARCHITECTURES	LUCA VALENTINI
S1.26	OPTIMIZATION OF SELECTIVE LASER SINTERING PROCESS PARAMETERS FROM POWDER PROPERTIES: POLYAMIDE 12/CARBON FIBER CASE STUDY	FEDERICO LUPONE
S1.27	INFLUENCE OF THE COATING MATERIALS AND ARCHITECTURE ON THE CMAS CORROSION RESISTANCE OF DENSE-VERTICALLY CRACKED THERMAL BARRIER COATINGS	STEFANIA MORELLI
S1.28	HIERARCHICAL NANOPOROUS ALUMINIUM:FROM FABRICATION TO A PREDICTIVE MODEL	ANDREA PINNA
S1.29	SHAPING NANOCELLULOSE USING ICE: A SCALABLE APPROACH TO FABRICATE LIGHTWEIGHT POROUS FOAMS	CARLO ANTONINI
S1.30	TEXTURE AND AIR STABILITY OF MAGNETRON SPUTTERED LEAD HALIDE PEROVSKITE THIN FILMS FOR ELECTRONICS AND SOLAR CELLS	NICOLA CALISI
S1.31	GRAPHENE OXIDE-BASED SELF-ASSEMBLING MEMBRANES FOR MIXED ORGANIC-INORGANIC WASTEWATER TREATMENT	SAVERIO LATORRATA
S1.32	INNOVATIVE TECHNIQUES FOR CLEANING OF STEEL RODS	LAURA RAZZABONI



SESSIONE 1 - PRESENTAZIONI ORALI

Codice	Titolo	SPEAKER
S1.33	FAST AND LOW-COST FABRICATION OF LARGE AREA 2D NANOSTRUCTURES	ALESSANDRO FRALEONI MORGERA
1.34	MATERIAL'S CHALLENGES FOR HYDROGEN GREEN ECONOMY	MARINA CABRINI
S1.35	MODELING VISCOELASTICITY OF MINERALIZED COLLAGEN FIBRILS AT THE ATOMIC SCALE	MARIO MILAZZO
S1.36	PHOTOLUMINESCENCE IN HEXAGONAL BORON NITRIDE NANOSHEETS AND THE FABRICATION OF TITANIA MESOPOROUS NANOCOMPOSITE	LUCA MALFATTI
S1.37	DETECTION OF ORGANIC POLLUTANTS THROUGH GRAPHENE ENHANCED RAMAN SCATTERING OF GRAPHENE-LOADED POROUS FILMS	LUCA MALFATTI SHIVA KHOSHTINAT
S1.38	HUMIDITY RESPONSIVE BI-LAYERED COMPOSITES	

SESSIONE 1 - POSTER

Codice	Titolo	REFERENTE
P1.1	TUNING THERMO-MECHANICAL PROPERTIES OF POLY(LACTIC ACID) FILMS THROUGH BLENDING WITH BIODERIVED POLY(ALKYLENE FURANOATE)S WITH DIFFERENT ALKYL CHAIN LENGTH FOR SUSTAINABLE PACKAGING	GIULIA FREDI
P1.2	MODIFICATION OF POLYKETONE VIA PAAL-KNORR REACTION FOR ANION EXCHANGE MEMBRANE FUEL CELLS	NARGES ATAOLLAHI
P1.3	EFFECT OF THE TEMPERATURE AND OF THE DRAWING CONDITIONS ON THE FRACTURE PROPERTIES OF THERMOPLASTIC STARCH FILMS FOR PACKAGING APPLICATIONS	DAVIDE PERIN
P1.4	NOVEL HOLLOW BRICKS DESIGNS AS POSSIBLE APPLICATIONS FOR RUBBER-CEMENT MORTARS: PRELIMINARY MECHANICAL, THERMAL, AND ACOUSTIC ANALYSIS BY FINITE ELEMENT METHOD (FEM)	MATTEO SAMBUCCI
P1.5	SMART COMPOSITE MATERIALS FOR REVERSIBLE SOLID OXIDE CELLS (RSOCs)	ELISABETTA DI BARTOLOMEO
P1.6	ZnO THIN FILMS CONTAINING ALIOVALENT IONS FOR NO ₂ GAS SENSOR ACTIVATED BY VISIBLE LIGHT	ALESSANDRO MARTUCCI
P1.7	ECO-FRIENDLY LAMINATES BASED ON POLYAMIDE 11 AND WOVEN FIBRE FABRICS	PIETRO RUSSO
P1.8	WS ₂ -DECORATED rGO FOR QUASI - ROOM TEMPERATURE GAS SENSING APPLICATIONS	VALENTINA PAOLUCCI
P1.9	MECHANICAL BEHAVIOR OF SYNTACTIC FOAMS INCORPORATING PHASE CHANGE MATERIALS FOR THERMAL ENERGY STORAGE/RELEASE	FRANCESCO GALVAGNINI



SESSIONE 1 - POSTER

Codice	Titolo	REFERENTE
P1.10	SYNTHESIS OF PA12-SiC COMPOSITE POWDERS FOR SELECTIVE LASER SINTERING	SILVIA BOSIA
P1.11	SUSTAINABLE LIQUID-PHASE EXFOLIATION OF LAYERED MATERIALS WITH NONTOXIC POLAR CLEAN SOLVENT	JESSICA DE SANTIS
P1.12	DEGRADATION AND ANTIMICROBIAL ACTIVITY OF PLA-BASED CO-EXTRUDED BLOWN FILMS	ROBERTO SCAFFARO
P1.13	3D ELECTROSPUN HIERARCHICAL STRUCTURES BASED ON GO-MWCNT@PCL FOR SIMULTANEOUS POLLUTANTS REMOVAL	MICHELE GAMMINO
P1.14	CORROSION EVALUATION IN THE RECOVERY OF A SINGLE MODULAR NECK TOTAL HIP ARTHROPLASTY SYSTEM	ALIDA MAZZOLI
P1.15	ENCAPSULANT FILMS FOR BIFACIAL HETEROJUNCTION PHOTOVOLTAIC MODULES: PERFORMANCE AND DURABILITY	NADKA TZANKOVA DINTCHEVA
P1.16	FLAME RETARDANT PERFORMANCE EVALUATION OF FUNCTIONAL COATINGS FILLED WITH Mg(OH) ₂ AND Al(OH) ₃	ELPIDA PIPEROPOULOS
P1.17	SPARK PLASMA SINTERING AND CHARACTERIZATION OF AN INNOVATIVE Sr- AND Mg-CONTAINING BIOACTIVE GLASS	DAMIANO ANGIONI
P1.18	ALUMINIDE COATINGS MODIFIED WITH ELECTROLESS PLATINUM PLATING FOR TURBINE BLADE PROTECTION	GIULIA PEDRIZZETTI
P1.19	MCrAlY COATING OBTAINED BY ELECTROLESS PLATING FOR THERMAL BARRIER SYSTEM	MARCO CONTI
P1.20	Fe-/La-DOPING IMPACT ON CaMnO ₃ THERMAL ENERGY STORAGE CAPACITY	EMANUELA MASTRONARDO
P1.21	EFFECT OF ETHYLENE GLYCOL AND CURRENT DENSITY ON THE MORPHOLOGY AND ANATASE/RUTILE RATIO OF ANODIZED COMMERCIAL GRADE TITANIUM	LAPO GABELLINI
P1.22	EFFECT OF SECOND PHASE CONCENTRATION ON TRIBOLOGICAL PROPERTIES OF METAL MATRIX SELF-LUBRICATING COMPOSITE MATERIALS	MARCO FRESCHI
P1.23	EVALUATION OF AD/DESORPTION DYNAMICS OF S-PEEK/ZEOLITE COMPOSITE COATINGS BY T-LTJ METHOD	DAVIDE PALAMARA
P1.24	A NOVEL NANOINDENTATION PROTOCOL TO CHARACTERIZE SURFACE FREE ENERGY OF SUPERHYDROPHOBIC NANOPATTERNED MATERIALS	EDOARDO ROSSI
P1.25	SELF-STANDING SULFONATED GRAPHENE OXIDE MEMBRANES AS ALTERNATIVE PROTON CONDUCTORS FOR PEM FUEL CELLS	ANDREA BASSO PERESSUT
P1.26	BIOPOLYMERIC SCAFFOLDS FUNCTIONALISATION FOR IMPROVEMENT OF BONE REGENERATION PROPERTIES	ALESSIA D'ANDREA
P1.27	COBALT-FREE MATRICES FOR HARD METAL COATINGS	VERONICA TESTA



SESSIONE 1 - POSTER

Codice	Titolo	REFERENTE
P1.28	AMORPHOUS THIN FILMS FOR BIOCOMPATIBLE APPLICATIONS	EDOARDO BEMPORAD
P1.29	ELASTIC BEHAVIOUR OF HIGH POROUS CERAMICS. EXPERIMENTAL AND MODELLING APPROACH	GIORGIO PIA
P1.30	MICROSTRUCTURED MEDIUM FOR NON-RECIPROCAL SOLITARY MECHANICAL WAVE PROPAGATION	ANAR RAKHIMZHANOV
P1.31	NOVEL GEOPOLYMERIC MEMBRANE SUPPORT FOR WASTEWATER MICROFILTRATION: SYNTHESIS AND CHARACTERISATION	ALESSANDRO FILIPPONI
P1.33	PRODUCTION OF BIOBASED COATING BASED ON FUNCTIONAL ACTIVE MOLECULES FROM FOOD WASTE FOR PLASTIC AND CELLULOSIC SUBSTRATES	LUCA PANARIELLO
P1.34	SYNTHESIS AND CONSOLIDATION OF BULK UHTCs BY REACTIVE AND NON-REACTIVE SPARK PLASMA SINTERING	ROBERTA LICHERI
P1.35	CONTINUOUS GLASS FIBERS-POLYDIMETHYLSILOXANE SOFT COMPOSITES FOR SMART MATERIALS	TIZIANA BARDELLI
P1.36	A STUDY OF THE MECHANICAL BEHAVIOUR OF HNBR-BASED COMPOUNDS FOR HYDROGEN STORAGE APPLICATIONS	ISABELLA DENORA
P1.37	HIGH VALUE-ADDED MESOSTRUCTURED SILICA FROM HEXAFLUOROSILICIC ACID (FSA): FROM A HAZARDOUS WASTE TO PRECIOUS SILICON SOURCE	CLAUDIO CARA
P1.38	FUSED DEPOSITION MODELING OF GREEN COMPOSITES BASED ON PLA AND LIGNOCELLULOSIC WASTE FILLERS	GIUSEPPE ALAIMO
P1.39	INFLUENCE OF ALKALINE, ALKALINE EARTH AND IRON OXIDES ON THE ALBITE SINTERING PROCESS IN PORCELAIN STONEWARE BODIES	MARCO VACCHI
P1.40	NOVEL CERAMIC MATRIX COMPOSITE PRODUCED WITH MICROWAVE ASSISTED CHEMICAL VAPOR INFILTRATION PROCESS FOR ENERGY-INTENSIVE INDUSTRIES (European Union's Horizon 2020 CEM- WAVE project)	ANDREA LAZZERI



SESSIONE 2 - PRESENTAZIONI ORALI

Codice	Titolo	SPEAKER
KN2.1	3D PRINTING OF THERMOPLASTIC COMPOSITES REINFORCED WITH CARBON FIBERS	ALESSANDRO PEGORETTI
S2.1	DESIGN APPROACH AND SCALE-UP OF A MICROWAVE-ASSISTED CHEMICAL VAPOR INFILTRATION PILOT PLANT FOR SIC-BASED CERAMIC MATRIX COMPOSITES PRODUCTION	ROBERTO D'AMBROSIO
S2.2	COMPOSITE TOOLING MANUFACTURED BY ADDITIVE MANUFACTURING (AM): THE EFFECTS OF THE SELECTED AM TECHNOLOGY	GIANLUCA CICALA
S2.3	FUSED DEPOSITION MODELING PARTS MECHANICAL MODELING THROUGH CLASSICAL LAMINATION THEORY	FRANCESCO MOLLIKA
S2.4	SYNTHESIS OF 2D SnO ₂ /SnSe ₂ HETEROSTRUCTURES FOR NO ₂ SENSING IN HUMID ENVIRONMENT	VALENTINA PAOLUCCI
S2.5	COMBINATION OF FUSED DEPOSITION MODELING (FDM) 3D-PRINTING AND SINTERING TO PRODUCE DENSE METAL PARTS	CLAUDIA SERGI
S2.6	ADDITIVE MANUFACTURING OF GEOPOLYMERIC STRUCTURES FOR ENVIRONMENTAL APPLICATIONS	GIORGIA FRANCHIN
S2.7	EFFECTS OF ANODIZING SURFACE TREATMENT ON THE MECHANICAL STRENGTH AND AGING RESISTANCE OF METAL-COMPOSITE ADHESIVE JOINTS	RICCARDO MIRANDA
S2.8	CATALYTIC PERFORMANCE OF NI-SUPPORTED ON ETS-SILICATES FOR CO ₂ METHANATION REACTION	PATRIZIA FRONTERA
S2.9	INITIAL INVESTIGATION OF H13 STEEL FABRICATED BY ELECTRON BEAM MELTING	GIULIO MARCHESE
S2.10	3D PRINTING BY STEREO LITHOGRAPHY OF ALUMINA, ZIRCONIA AND THEIR COMPOSITES: MICROSTRUCTURAL DEVELOPMENT AND MECHANICAL PROPERTIES	PAOLA PALMERO
S2.11	EFFECT OF NANO-REINFORCING PHASES IN LOW DENSITY ABLATIVE MATERIALS	LAURA PAGLIA
S2.12	ADHESION OF THERMAL SPRAY COATINGS ONTO SELECTIVE LASER MELTED SURFACES	GIOVANNI BOLELLI
S2.13	3D PRINTING OF METALLIC STRUCTURES BY NON-ENERGY DEPOSITION TECHNOLOGIES	LISA BIASETTO
S2.14	THE USE OF CALCIUM SULPHATE IN THE PRODUCTION OF STRUCTURAL CEMENT MORTAR	LUISA PANI
S2.15	INNOVATIVE APPROACH FOR THE STUDY OF STRESS CORROSION CRACKING SUSCEPTIBILITY OF FSWed ALUMINIUM ALLOYS	SERGIO LORENZI



SESSIONE 2 - POSTER

Codice	Titolo	REFERENTE
P2.1	DEVELOPMENT OF GRAPHENE COATINGS FOR GLASS FIBERS THROUGH CONTACT ELECTRIFICATION	LAURA SIMONINI
P2.2	FUSED FILAMENT FABRICATION OF POLYMERIC FILAMENTS FILLED WITH 17-4 PH METAL PARTICLES: THE EFFECT OF DIFFERENT PRINTING PROFILES ON GREEN AND SINTERED PARTS	CLAUDIO TOSTO
P2.3	OPTIMIZATION OF HATCHING DISTANCE VALUE USING SINGLE SCAN TRACK METHOD FOR AN ALSI10MG ALLOY PRODUCED VIA LASER POWDER BED FUSION	FABRIZIO MARINUCCI
P2.4	INFLUENCE OF GAS-ATOMIZATION PROCESS PARAMETERS ON POWDER CHARACTERISTICS FOR AISI 304L	ENRICO VIRGILLITO
P2.5	A COMPUTER-AIDED ANALYSIS OF SINGLE SCAN TRACKS FOR AN ACCURATE AND TIME-SAVING EVALUATION OF LPBF BUILDING PARAMETERS	ALESSANDRA MARTUCCI
P2.6	EFFECT OF TOUGHENING AGENT ON THE WEAR BEHAVIOUR OF WOOD PLASTIC COMPOSITES	VALENTINA MAZZANTI
P2.7	LASER POWDER BED FUSION OF F357 ALUMINUM ALLOY: HEAT TREATMENTS, MICROSTRUCTURE AND PROPERTIES	MATTEO VANZETTI
P2.8	DEVELOPMENT AND CHARACTERIZATION OF ZIRCONIA-ALUMINACOMPOSITESBY DLP-BASED STEREO LITHOGRAPHY PROCESS	BARBARA INSERRA
P2.9	USING BY-PRODUCTS FROM CHEMICAL PROCESSES FOR INNOVATIVE BUILDING PANELS	LUCA PALA
P2.10	OPTIMIZATION OF THE 3D PRINTING PARAMETERS OF BIOPOLYMERS FOR CRANIOMAXILLOFACIAL APPLICATIONS	VALERIO PAPA
P2.11	EXPERIMENTAL INVESTIGATION ON THE POTENTIAL APPLICATIONS OF ANHYDROUS CALCIUM SULPHATE IN CEMENT BOUND GRANULAR PAVEMENT LAYERS	JAMES ROMBI
P2.12	EFFECT OF DIFFERENT ADDITIVE MANUFACTURING TECHNIQUES ON MICROSTRUCTURE AND CORROSION BEHAVIOR OF ALLOY 625	FRANCESCO CARUGO
P2.13	A STUDY ON PLA-BASED FILAMENTS FOR SUSTAINABLE 3D PRINTING PROCESS	ANTONELLA PATTI
P2.14	BRAIN IT-INNOVATIVE TECHNOLOGIES IN NEUROSURGERY STUDY: MATERIALS AND ADDITIVE MANUFACTURING TECHNOLOGIES AT THE SERVICE OF THE BIOMEDICAL TRAINING	ILARIA CACCIOTTI
P2.15	INNOVATIVE EPDM/NBR PANELS WITH PARAFFIN FOR THERMAL ENERGY STORAGE OF BUILDINGS	FRANCESCO VALENTINI
P2.16	COST EFFICIENT, THERMAL STABLE, MULTIPHASE TITANIA NANOPARTICLES SYNTHESIZED PURELY FROM WASTE	QAISAR MAQBOOL
P2.17	PATTERNED SURFACES FROM SOL-GEL DEWETTING FOR CONDENSATION OF HUMID AIR	ELENA COLUSSO
P2.18	MANUFACTURE OF ARTIFICIAL AGGREGATES BY MEANS OF COLD-BOND PELLETIZATION	RAFFAELE CIOFFI



SESSIONE 3 - PRESENTAZIONI ORALI

Codice	Titolo	SPEAKER
KN3.1	MULTIPLE RECYCLING OF ALGINATE- AND WASTE-BASED THERMAL INSULATING COMPOSITES	VANNI LUGHI
S3.1	DESIGN AND DEVELOPMENT OF NOVEL ECO-SUSTAINABLE MULTILAYER FILMS WITH ENHANCED FUNCTIONALITIES FOR FOOD PACKAGING APPLICATIONS	ANNALISA APICELLA
S3.2	EXPERIMENTAL INVESTIGATION ON RECYCLING OF EXPANDED POLYSTYRENE (EPS) PLASTIC WASTE	SABINO DE GISI
S3.3	PLANT WASTE AS GREEN REINFORCEMENT FOR POLYMER COMPOSITES AND ADSORBENT MATERIAL FOR WASTEWATER DECONTAMINATION: A CASE-STUDY OF PTERIS VITTATA ROOTS	IRENE BAVASSO
S3.4	HYDRIDES FOR HYDROGEN HANDLING	MARCELLO BARICCO
S3.5	TUNABLE BIOCOMPOSITES WITH BIODEGRADABLE POLYMER MATRIX REINFORCED WITH CELLULOSE NANOCRYSTALS	ALBERTO GIUBILINI
S3.6	CHEMICAL RECYCLING OF BIOEPOXY MATRICES FOR COMPOSITES: NOVEL PROCESSING ROUTE AND REUSE STRATEGIES TO OBTAIN NEW MATRICES	LORENA SAITTA
S3.7	BIOPOLYMER BASED COMPOSITES CONTAINING BIOCHAR PARTICLES COMING FROM PYROLYZED AGRICULTURE WASTE	GIULIA INFURNA
S3.8	IMPROVING THE MECHANICAL PERFORMANCES OF FLAX FIBER REINFORCED COMPOSITES THROUGH SUSTAINABLE TREATMENTS BASED ON CITRATE AND ACETATE SODIUM SALTS	CARMELO SANFILIPPO
S3.9	NEW SUSTAINABLE ALKALI-ACTIVATED COMPOSITE MATERIALS REINFORCED WITH NATURAL FIBER: PRELIMINARY EXPERIMENTAL INVESTIGATIONS	STEFANIA MANZI
S3.10	DEVELOPMENT OF A CLOSED LOOP RECYCLING PROCESS OF RUBBER FOR AUTOMOTIVE COMPONENTS	DANIELE RIGOTTI
S3.11	DEVELOPMENT OF POLYETHYLENE FOAMS THROUGH SALT LEACHING METHOD FOR THERMAL ENERGY STORAGE APPLICATIONS	ALESSANDRO SORZE
S3.12	SUSTAINABLE CONCRETE MADE WITH RECYCLED ASPHALT PAVEMENT (RAPCON)	ELENA REDAELLI
S3.13	PHYSICAL AND MICROSTRUCTURAL CHARACTERIZATION OF RECYCLED ASPHALT PAVEMENT (RAP) AS AGGREGATE FOR CONCRETE	ANDREA FILIPPI
S3.14	ENVIRONMENTAL GREEN COMPOSITS BASED ON FUNCTIONALIZED BACTERIAL CELLULOSE	SILVIA BARBI



SESSIONE 3 - POSTER

Codice	Titolo	REFERENTE
P3.1	BIONTOP PROJECT: BIOBASED, RECYCLABLE AND HOME-COMPOSTABLE PLA-BASED MATERIALS FOR BIOPLASTIC PACKAGING	ALESSANDRO VANNOZZI
P3.2	HYDROLYTIC DEGRADATION OF GREEN COMPOSITES BASED ON PLA/POSIDONIA OCEANICA	MARIA CLARA CITARRELLA
P3.3	STUDY ON THE EFFECTS OF HEAT-TREATMENT ON MICROSTRUCTURAL AND MORPHOLOGICAL PROPERTIES OF METAKAOLIN-BASED GEOPOLYMER FOR FUTURE POSSIBLE APPLICATION	CATERINA SGARLATA
P3.4	SPRAY-COATED CORRUGATED BOARD FURNITURE TO IMPROVE ITS RESISTANCE TO OUTDOOR ENVIRONMENT	ANDREA MARINELLI
P3.5	VALORISATION OF DEMOLITION CONCRETE WASTE AND TILE WASTE INTO MORE SUSTAINABLE STRUCTURAL CONCRETES AND GROUTS	BEATRICE MALCHIODI
P3.6	EVALUATION OF THE ROLE OF END-OF-LIFE POLYVINYL CHLORIDE WASTE ON THE THERMOMECHANICAL PROPERTIES OF ETHYLENE-PROPYLENE DIENE MONOMERS COMPOSITES	HAROON MAHMOOD
P3.7	EFFECTS OF MICRO-CRACKS AND CEMENT TYPE ON CHLORIDE DIFFUSION COEFFICIENT OF CONCRETE	NICOLETTA RUSSO
P3.8	INFLUENCE OF STEEL FIBERS ON THE DURABILITY OF ULTRAHIGH PERFORMANCE FIBER REINFORCED CONCRETE	BIANCA PAOLA MAFFEZZOLI
P3.9	FLEXURAL BEHAVIOUR OF ULTRA HIGH PERFORMANCE FIBER REINFORCED CONCRETE (UHPFRC) UNDER MONOTONIC AND CYCLIC LOAD	NICOLA GENEROSI
P3.10	BIODEGRADABLE POLYMERS FOR PACKAGING OF AGRICULTURAL PRODUCTS	MANUELA CERAULO
P3.11	BIOCOMPOSITE PBAT-BASED BLOWN FILMS WITH ENHANCED PHOTO-OXIDATIVE RESISTANCE	LUIGI BOTTA
P3.12	MONOPOLYMER VIRGIN/RECYCLED POLYPROPYLENE BLENDS WITH DIFFERENT RECYCLED COMPONENTS: CHARACTERIZATION AND MODELLING	MARIA CHIARA MISTRETTA
P3.13	RECYCLING OF FACE MASKS BY ADDITION IN BITUMEN	RAFFAELLA FERRAIOLI
P3.14	MODIFIED SUPERABSORBENT POLYMERS AS "WATER RESERVE" IN AGRICULTURAL FIELD	BARBARA LIGUORI
P3.15	A PRELIMINARY STUDY ON THE CHARACTERIZATION OF RECYCLED ASPHALT PAVEMENT (RAP)	GIULIA MASI
P3.16	A FRAMEWORK TO SET UP A RE-GENERATION PROCESS FOR SEMI-FACIAL MASKS RESPIRATORS USED BY FIRST RESPONDERS DURING SARS COV-2 PANDEMIC	MARIAPIA PEDEFERRI
P3.17	DESIGN AND LCA OF ADVANCED GEOPOLYMER PIPE LINES	RAFFAELE CIOFFI
P3.18	A FACILE SYNTHESIS FOR NANOSTRUCTURED SURFACES WITH ANTIVIRAL AND ANTIBACTERIAL ACTIVITY	MATTEO PODDIGHE



SESSIONE 4 - PRESENTAZIONI ORALI

Codice	Titolo	SPEAKER
KN4.1	STRATEGIES FOR REDUCING THE ENVIRONMENTAL IMPACT OF CEMENTITIOUS-BASED CONSTRUCTION MATERIALS	LUIGI COPPOLA
S4.1	SELF-STANDING ZEOLITIC FOAMS FOR GAS ADSORPTION	ASSUNTA CAMPANILE
S4.2	ALKALI-ACTIVATION OF REFRACTORY WASTES: DEVELOPMENT BY TRADITIONAL AND 3D PRINTING PROCESSES, ROOM AND HIGH-TEMPERATURE CHARACTERIZATIONS	BARTOLOMEO COPPOLA
S4.3	STABILIZATION/SOLIDIFICATION OF HAZARDOUS POWDERED WASTES WITH ORDINARY PORTLAND CEMENT AND SULFO-ALUMINATE CEMENT	FRANCESCO TODARO
S4.4	THE RETARDING EFFECT OF TARTARIC ACID IN CONGLOMERATES BASED ON SULPHOALUMINATE CEMENTS	DENNY COFFETTI
S4.5	CORROSION ASSESSMENT ON 50-YEAR-OLD PC BRIDGE DECK BEAMS OF THE CORSO GROSSETO VIADUCT IN TURIN	MADDALENA CARSAÑA
S4.6	SUSTAINABILITY OF CONSERVATION TREATMENTS FOR HERITAGE STONES	ENRICO SASSONI
S4.7	EFFECT OF NANOLIME ON THE PROPERTIES OF HYDRAULIC LIME BASED MORTARS	CHIARA GIOSUÉ
S4.8	DESIGN OF AN INFORMATIC TOOL FOR THE CORROSION ASSESSMENT OF METALS EXPOSED TO ATMOSPHERE	MARCO ORMELLESE
S4.9	CEMENT-BASED COMPOSITES CONTAINING FUNCTIONALIZED CARBON NANOMATERIALS	LUCA LAVAGNA
S4.10	A NEW TAILOR MADE NANOLIME FOR CONSERVATION TREATMENTS OF BIOCALCARENITE STONES	VALERIA DANIELE
S4.11	PREMIXED MORTARS MODIFIED WITH GRAPHENE-BASED MATERIALS: RHEOLOGY, PERMEABILITY, MECHANICAL PROPERTIES AND MULTIFUNCTIONALITY	FRANCESCA ROMANA LAMASTRA



SESSIONE 4 - POSTER

Codice	Titolo	REFERENTE
P4.1	A PRELIMINARY INVESTIGATION OF THE MECHANICAL PROPERTIES OF BASALT FABRIC-REINFORCED ALKALI-ACTIVATED MATRIX COMPOSITE	SEBASTIANO CANDAMANO
P4.2	CONSERVATION OF HISTORICAL BUILDINGS: USE OF LITHIUM SILICATE AS CONSOLIDANT FOR NATURAL STONES	ILARIA CAPASSO
P4.3	MECHANICAL AND DURABILITY PROPERTIES OF CARBON YARNS WITH DIFFERENT SURFACE TREATMENTS EMBEDDED IN AN INORGANIC MATRIX	JACOPO DONNINI
P4.4	HEMPCRETE: A BIO-BASED BUILDING MATERIAL	CHIARA MOLETTI
P4.5	ALKALI ACTIVATED MATERIALS WITH SELF-SENSING ABILITY: THE ROLE OF CARBON-BASED NANOINCLUSIONS	ELENA CROTTI
P4.6	THE USE OF A SILANE-BASED COATING TO IMPROVE THE DURABILITY OF CONCRETE STRUCTURES	GABRIELE GAZZANIGA
P4.7	A STUDY FOR THE CHARACTERIZATION OF THE "TERRANOVA" RENDER IN THE ITALIAN RATIONALIST ARCHITECTURAL HERITAGE	CESARE PIZZIGATTI

