



**YEARS OF INSTM:
PAST, PRESENT
AND FUTURE OF
THE CONSORTIUM**

PROGRAMMA SCIENTIFICO

Casa della Gioventù

Bressanone, 22-25 gennaio 2023

DOMENICA 22 GENNAIO

14,00

REGISTRAZIONE

16.00-16-10

Federica BONDIOLI, Andrea CANESCHI

OPENING

16,10-16,30

Teodoro VALENTE

30 ANNI DI INSTM: PASSATO PRESENTE E FUTURO DEL CONSORZIO

16,30-16,40

Luigi DE NARDO, Angela AGOSTIANO

INTRODUZIONE ALLA TAVOLA ROTONDA

16,40-18,30

Antonio Felice URICCHIO (ANVUR),
Claudio PETTINARI (CRUI)
Piero BAGLIONI (CNVR/CSGI)
Lidia ARMELAO (CNR-DSCTM)
Luigi CREMA (FBK)
Francesco MATTEUCCI (EIC)
Luciano MONTANARI (ENI)
Massimiliano GRANIERI (MITO Tech.)

TAVOLA ROTONDA

**COMMENTO CRITICO DEI PORTATORI DI INTERESSE SULLA COOPERAZIONE
CON I CIRT PER MASSIMIZZARE I RISULTATI DELLA RICERCA PUBBLICA E
PRIVATA**

Modera: Federico PEDROCCHI (Radio 24)

19,30

WELCOME PARTY (HOTEL GRÜNER BAUM)

LUNEDÌ 23 GENNAIO

SESSIONE 4 - MATERIALI E TECNOLOGIE PER L'ECONOMIA VERDE E L'ECONOMIA CIRCOLARE

8,30-8,50	KEY NOTE 1_4	Gaetano GUERRA	STRUTTURA, PROPRIETÀ ED APPLICAZIONI DI POLIMERI CO-CRISTALLINI E NANOPOROSI-CRISTALLINI
8,50-9,00	O 1_4	Enrico DALCANALE	THE BRAVE NEW WORLD OF REPROCESSABLE THERMOSETS
9,00-9,10	O 2_4	Irene BAVASSO	PLA/PBAT/FLAX BIOCOMPOSITES: THE USE OF NATURAL FABRICS FOR THE MANUFACTURE OF SUSTAINABLE AND PERFORMANT COMPOSITE MATERIALS.
9,10-9,20	O 3_4	Alberto FRACHE	PLA-PHB POLYMER BLENDS: STUDY ON PROCESSING CONDITIONS AND INFLUENCE OF COMPATIBILIZERS
9,20-9,30	O 4_4	Davide MORSELLI	VISIBLE LIGHT-ACTIVATED PHBV/CuS PHOTOCATALYTIC COMPOSITE OBTAINED FROM WASTE VALORIZATION FOR APPLICATION IN WASTEWATER PURIFICATION
9,30-9,40	O 5_4	Giulia FREDI	THERMOPLASTIC POLYMER COMPOSITES BASED ON IN-SITU ANIONICALLY POLYMERIZED POLYAMIDE 6
9,40-9,50	O 6_4	Daniele RIGOTTI	DESIGN OF ADVANCED SELF-HEALING MECHANISM IN FIBER REINFORCED COMPOSITE
9,50-10,00	O 7_4	Alessandro SACCHETTI	POLYETHYLENIMINE-BASED MATERIALS: NOVEL HETEROGENEOUS CATALYSTS FOR SUSTAINABLE ORGANIC TRANSFORMATIONS
10,00-10,10	O 8_4	Giovanni PEROTTO	VALORIZATION OF VEGETABLE BIOMASS AS MOLDABLE BIOCOMPOSITES
10,10-10,20	O 9_4	Matteo GIGLI	LIGNIN-BASED PHOTOCATALYTIC NANOSYSTEMS FOR WASTEWATER REMEDIATION
10,20-10,30	O 10_4	Elena MAESTRI	BIOTECHNOLOGICAL APPROACHES FOR MATERIALS APPLIED TO SUSTAINABLE AGRICULTURE

COFFEE BREAK

11,00-11,10	O 11_4	Maria Grazia DE ANGELIS	ESTERS OF NATURE-IDENTICAL ENGINEERED POLYSACCHARIDES AS NEW MATERIALS FOR PACKAGING APPLICATIONS
11,10-11,20	O 12_4	Gabriele CENTI	DESIGN NEXT-GENERATION ELECTRODES FOR DIRECT ELECTRIFICATION OF THE CHEMICAL PROCESSES
11,20-11,30	O 13_4	Antonio COMITE	CARBON DIOXIDE DRY REFORMING ON CATALYTIC MEMBRANE REACTORS AND NICKEL BASED CATALYSTS
11,30-11,40	O 14_4	Angiolina COMOTTI	SELECTIVE CO ₂ CAPTURE AND PHOTO-SWITCH IN NANOPOROUS MATERIALS
11,40-11,50	O 15_4	Daniel MILANESE	FABRICATION AND CHARACTERIZATION OF PLASTOMAGNETS OBTAINED FROM RECYCLED PERMANENT MAGNETS
11,50-12,00	O 16_4	Davide PEDDIS	RECYCLING OF END-OF-LIFE RARE-EARTH PERMANENT MAGNETS
12,00-12,10	O 17_4	Daniele MONTINI	RECOVERY AND REUTILIZATION OF SILICA FROM WASTE OF FLUORO-DERIVATIVES INDUSTRY
12,10-12,30	KEY NOTE 2_4	Silvia GROSS	CIRCULAR ECONOMY AND ITS ROLE IN THE ECOLOGICAL TRANSITION: MATERIALS AS A KEY ENABLING TECHNOLOGY

PAUSA PRANZO

LUNEDÌ 23 GENNAIO

SESSIONE 2 - MATERIALI E TECNOLOGIE PER IL MADE IN ITALY, IL MANIFATTURIERO AVANZATO E L'AEROSPAZIO

14,20-14,40	KEY NOTE 1_2	Gianluca CICALA	POLYMER ADDITIVE MANUFACTURING: HOW TO EXPLOIT ITS POTENTIAL FOR METAL, CERAMIC AND COMPOSITES PRODUCTION ENHANCING MADE IN ITALY
14,40-14,50	O 1_2	Rossella ARRIGO	DESIGN AND OPTIMIZATION OF 3D PRINTABLE POLYPROPYLENE-BASED MATERIALS
14,50-15,00	O 2_2	Martino COLONNA	AUXETIC STRUCTURES FOR SPORT SAFETY DEVICES
15,05-15,10	O 3_2	Laura PAGLIA	NANO-STRUCTURED CARBON-PHENOLIC ABLATORS: MANUFACTURING AND CHARACTERIZATION
15,10-15,20	O 4_2	Davide PERIN	IMPROVEMENT OF THE SELF-HEALING PROPERTIES OF POLYAMIDE 6(PA6)/CYCLIC OLEFINIC COPOLYMER (COC) THERMOPLASTIC SELF-HEALING POLYMER BLENDS FOR STRUCTURAL COMPOSITES: A TEMPERATURE AND COMPATIBILIZATION APPROACH
15,20-15,30	O 5_2	Daniela RIGAMONTI	FIBER OPTICS IN PROCESS MONITORING FOR SUSTAINABLE CRADLE TO CRADLE COMPOSITE MANUFACTURING
15,30-15,40	O 6_2	Laura CAGNA	CHARACTERIZATION OF CARBON MATERIAL USED IN BRAKING SYSTEMS AS SOLID LUBRICANTS
15,40-15,50	O 7_2	Marcello BARICCO	SOLIDIFICATION PROCESSES IN INDUSTRIAL ALLOYS: FROM FUNDARY TO ADDITIVE MANUFACTURING
15,50-16,00	O 8_2	Maurizio VEDANI	DESIGN AND DEVELOPMENT OF ALLOYS FOR METAL ADDITIVE MANUFACTURING
16,00-16,10	O 9_2	Serena LERDA	STUDY OF A Ni-BASED COMPOSITE PRODUCED BY LASER POWDER BED FUSION: CHARACTERIZATION AND HEAT TREATMENTS INVESTIGATION
16,10-16,20	O 10_2	Alessandro CARROZZA	TOWARDS THE QUALIFICATION OF ADDITIVE MANUFACTURING FOR MATERIALS IN ADVANCED INDUSTRIALAPPLICATIONS: PROCESS-CORROSION BEHAVIOR RELATIONSHIPS IN ALLOY 625 MANUFACTURED VIA LPBF, DED, MEX AND BJ

COFFEE BREAK

16,50-17,00	O 11_2	Silvia MAROLA	EFFECT OF THERMAL TREATMENTS ON THE SURFACE ELECTRICAL CONDUCTIVITY OF ALSI ₇ MG AND ALSI ₁₀ MG PRODUCED BY LASER POWDER BED FUSION
17,00-17,10	O 12_2	Alessandra MARTUCCI	SYNERGIC STRATEGIES TO IMPROVE THE PBF-LBM PROCESSABILITY OF A CRACKING-SENSITIVE ALLOY
17,10-17,20	O 13_2	Lidia BAIAMONTE	WC-Ti COATINGS DEPOSITED VIA COLD GAS SPRAY AND MODIFIED BY LASER AND FURNACE HEAT TREATMENTS
17,20-17,30	O 14_2	Stefano CAPORALI	USE OF GOLD AND PLATINUM MOD INKS FOR LUXURY BRANDS: A SUSTAINABLE WAY TO MANUFACTURE FASHION ITEMS
17,30-17,40	O 15_2	Virgilio GENOVA	ELECTROLESS METAL COATINGS FOR HARSH ENVIRONMENT PROTECTION
17,40-17,50	O 16_2	Marco CONTI	SLURRY ALUMINIZATION MODIFIED WITH REACTIVE ELEMENTS
17,50-18,00	O 17_2	Giulia PEDRIZZETTI	ALUMINIDE COATINGS MODIFIED VIA ELETROLESS PLATINUM PLATING FOR HIGH TEMPERTURE APPLICATIONS: MANUFACTURING AND COMPARISON WITH STRANDARD ELEDTRODEPOSITED Pt-ALUMINIDES
18,00-18,10	O 18_2	Mattia BIESUZ	Ni-FREE HIGH ENTROPY ROCK SALT OXIDES WITH Li-SUPERIONIC CONDUCTIVITY
18,10-18,30	KEY NOTE 2_2	Paolo FINO	ADVANCED MANUFACTURING FOR MADE IN ITALY

19,00
**POSTER SESSION
CON APERITIVO
(HOTEL GRÜNER
BAUM)**

P01-P64

MARTEDÌ 24 GENNAIO

SESSIONE 3 - MATERIALI E TECNOLOGIE PER LA TRANSIZIONE ECOLOGICA: ENERGIA E MOBILITÀ SOSTENIBILE

8,30-8,50	KEY NOTE 1_3	Piercarlo MUSTARELLI	SUSTAINABLE ENERGY AND MOBILITY: CRITICAL ISSUES AND PERSPECTIVES FROM THE POINT OF VIEW OF MATERIALS AND DEVICES
8,50-9,00	O 1_3	Massimo DALLE PIANE	INTO THE ATOMIC DYNAMICS OF METALS
9,00-9,10	O 2_3	Andrew TARZIA	HIGH-THROUGHPUT COMPUTATIONAL SCREENING OF METAL-ORGANIC CAGES
9,10-9,20	O 3_3	Federico TOFFOLETTI	DESIGN, PREPARATION, AND OPTICAL CHARACTERIZATION OF PLEXCITONIC NANOHYBRIDS BASED ON GOLD NANORODS AND J-AGGREGATES OF ORGANIC DYES
9,20-9,30	O 4_3	Mattia CATTELAN	EMPTY-STATE BAND MAPPING AS NEW TOOL FOR MATERIAL BAND ENGINEERING.
9,30-9,40	O 5_3	Mauro Francesco SGROI	MATERIALS FOR HYDROGEN HANDLING
9,40-9,50	O 6_3	Valentina PAOLUCCI	2D-BIDIMENSIONAL LAYERED AMORPHOUS INTERFACES FOR HYDROGEN SENSING
9,50-10,00	O 7_3	Valentina MAMELI	IRON OXIDES@MESOSTRUCTURED SILICA COMPOSITES FROM FLUORINE CHAIN WASTES AS H ₂ S REMOVERS FROM SYNGAS
10,00-10,10	O 8_3	Eliana QUARTARONE	CIRCULAR ECONOMY AND THE FATE OF LITHIUM BATTERIES: THE REGIONE LOMBARDIA ECOCIRC INITIATIVE
10,10-10,20	O 9_3	Siglinda PERATHONER	IN SITU ELECTROCHEMICAL CHARACTERIZATION OF C _u xO/GDL ELECTRODES FOR CO ₂ ELECTROCATALYTIC REDUCTION IN PRESENCE AND ABSENCE OF LIQUID ELECTROLYTE AND RELATIONSHIP WITH C ₂ + PRODUCTS FORMATION
10,20-10,30	O 10_3	Gabriella GARBARINO	CO ₂ METHANATION OVER Ni/Al ₂ O ₃ CATALYSTS MODIFIED WITH La AND Ce

COFFEE BREAK

11,00-11,10	O 11_3	Patrizia FRONTERA	NICKEL SUPPORTED ON DOPED CERIA/ZIRCONIA AS FUEL FLEXIBLE ANODE FOR SOLID OXIDE FUEL CELL
11,10-11,20	O 12_3	Donatella CHILLÈ	SVILUPPO DI ELETTRODI A BASE DI CARBONIO NANOSTRUTTURATO PER L'OSSIDAZIONE ELETTROCATALITICA DEL FURFURALE
11,20-11,30	O 13_3	Luca BARGNESI	SUSTAINABLE MODIFICATION OF CHITOSAN BINDER FOR ELECTRODES OPERATING IN AQUEOUS ELECTROLYTES
11,30-11,40	O 14_3	Vincenzo BAGLIO	CATALYSTS DEVELOPMENT FOR ANION-EXCHANGE-MEMBRANE ELECTROLYSERS
11,40-11,50	O 15_3	Maria BASSO	RAPID LASER-INDUCED CRYSTALLIZATION OF THERMOCHROMIC VO ₂ THIN FILMS
11,50-12,00	O 16_3	Tommaso CAIELLI	POLY(ARYL-PIPERIDINIUM) ANION EXCHANGE MEMBRANES FOR WATER ELECTROLYSIS
12,00-12,10	O 17_3	Anna Lucia PELLEGRINO	ALL-INORGANIC CsPbBr ₃ HALIDE PEROVSKITE: FROM SYNTHESIS AND PHASE STABILITY STUDIES TO DEPOSITION METHODS
12,10-12,20	O 18_3	Robert PULLAR	3D PRINTED POROUS CERIA CERAMICS FOR SOLAR THERMOCHEMICAL PRODUCTION OF SUSTAINABLE FUELS
12,20-12,30	O 19_3	Elisabetta FANIZZA	COLLOIDAL INORGANIC NANOPARTICLES: SYNTHETIC STRATEGIES, CHARACTERIZATION AND PERSPECTIVES FOR APPLICATIONS IN THE ENERGY FIELDS
12,30-12,50	KEY NOTE 2_3	Francesco BASILE	MATERIALS FOR THE ENERGY AND MOBILITY ZERO EMISSION TRANSITION

PAUSA PRANZO

MARTEDÌ 24 GENNAIO

SESSIONE 1 - MATERIALI E TECNOLOGIE PER LE SCIENZE DELLA VITA E LE SCIENZE DELL'ALIMENTAZIONE

14,20-14,40	KEY NOTE 1_1	Maria Lucia CURRI	SYNTHETIC, BIOINSPIRED AND NATURAL NANOVECTORS FOR VERSATILE DIAGNOSTIC AND THERAPEUTIC PLATFORMS
14,40-14,50	O 1_1	Claudio PEREGO	COMPUTATIONAL MODELLING AND CHARACTERIZATION OF SUPRAMOLECULAR EQUILIBRIA IN SELF-ASSEMBLING SYSTEMS
14,50-15,00	O 2_1	Vincenzo DE LEO	POLYMERIC FROZEN MICELLES FOR THE EXTRACTION AND THE DELIVERY OF CURCUMIN
15,05-15,10	O 3_1	Dario PUPPI	ADDITIVE MANUFACTURING OF POLYMERS FROM RENEWABLE RESOURCES
15,10-15,20	O 4_1	Laura ARMENIO	NEAR-FIELD DIRECT-WRITING ELECTROSPINNING OF NATURE-DERIVED POLYMERS FOR TISSUE ENGINEERING APPLICATIONS
15,20-15,30	O 5_1	Dagmara TROJANOWSKA	KERATIN EXTRACTION, ISO-ELECTRIC PRECIPITATION AND MICRO-PATTERN PREPARATION FOR CELLULAR CONTACT GUIDANCE APPLICATIONS
15,30-15,40	O 6_1	Lina ALTOMARE	DECELLULARIZED FENNEL AND DILL LEAVES AS POSSIBLE 3D CHANNEL NETWORK TO DEVELOP A 3D IN VITRO ADIPOSE TISSUE MODEL
15,40-15,50	O 7_1	Monia MONTORSI	ENVIRONMENTAL GREEN COMPOSITES BASED ON FUNCTIONALIZED BACTERIAL CELLULOSE
15,50-16,00	O 8_1	Anna GALOTTA	DISSOLUTION-PRECIPITATION SYNTHESIS AND COLD SINTERING NANOCRYSTALLINE HYDROXYAPATITE/CHITOSAN COMPOSITES FROM NATURAL SOURCES FOR BONE TISSUE REGENERATION
16,00-16,10	O 9_1	Ilario BIBLIOTECA	PROPOSAL AND EVALUATION OF CONDITIONING PROCESS FOR CLINOPTILOLITE/ZEOLITE MATERIAL FINALIZED FOR NUTRACEUTICAL APPLICATION IN NICKEL INTOLERANCE DISEASE
16,10-16,25		Andrea CADELLI	PRESENTAZIONE DI REDZONE BY SAES

COFFEE BREAK

16,50-17,00	O 10_1	Andrea FIORATI	DISPERSIONS OF ZIRCONIA NANOPARTICLES CLOSE TO THE PHASE BOUNDARY OF SURFACTANT-FREE TERNARY MIXTURES
17,00-17,10	O 11_1	Alessandra SCANO	FUTURE PERSPECTIVES TO CONTROL MICROBIAL SPREAD: A HIGH-EFFECTIVE MICROBICIDAL COATING.
17,10-17,20	O 12_1	Federica RECUPIDO	FUNCTIONAL CHARACTERIZATION AND IN VITRO EVALUATION OF THE VIRUCIDE ACTIVITY OF NANOSTRUCTURED ANTIMICROBIAL COATINGS FOR PERSONAL PROTECTIVE EQUIPMENT
17,20-17,30	O 13_1	Matteo PAVARINI	TUNING OF THE ANTIMICROBIAL PROPERTIES OF TITANIUM SURFACES BY AC PLASMA ELECTROLYTIC OXIDATION
17,30-17,40	O 14_1	Fabio PIZZETTI	BIPHASIC POROUS STRUCTURES FORMED BY MONOMER/WATER INTERFACE STABILIZATION WITH COLLOIDAL NANOPARTICLES
17,40-17,50	O 15_1	Paola RIZZI	NANOPOROUS METALS AS ADVANCED MATERIALS FOR SENSORS AND BIOCOMPATIBLE PROSTHESIS
17,50-18,00	O 16_1	Filippo ROSSI	DECORATED NANOGELS AS PROMISING TOOLS FOR SELECTIVE DRUG DELIVERY IN SPINAL CORD INJURY
18,00-18,10	O 17_1	Adolfo SPEGHINI	TEMPERATURE MEASUREMENT BY EXPLOITING LUMINESCENCE OF LANTHANIDE AS DOPANTS IN FLUORIDE BASED NANOMATERIALS
18,10-18,30	KEY NOTE 2_1	Silvia FARÈ	INNOVATIVE APPROACHES IN RIGENERATIVE MEDICINE AND FOOD ENGINEERING

20,00

**CENA SOCIALE
(HOTEL GRÜNER
BAUM)**

MERCOLEDÌ 25 GENNAIO

SESSIONE 5 - MATERIALI E TECNOLOGIE PER IL COSTRUITO ED IL PATRIMONIO CULTURALE

8,30-8,50	KEY NOTE 1_5	Luigi COPPOLA	I MATERIALI PER LA MANUTENZIONE E IL RIPRISTINO DEL COSTRUITO: UN OUTLOOK SULLE FRONTIERE DELLA RICERCA SOSTENIBILE
8,50-9,00	O 1_5	Valeria DANIELE	AN INNOVATIVE NANOLIME DISPERSED IN AQUEOUS MEDIUM FOR GREEN AND ECO-COMPATIBLE TREATMENTS IN CULTURAL HERITAGE CONSERVATION
9,00-9,10	O 2_5	Gabriele RICCHIARDI	FROM THE MUSEUM TO THE STAGE: REPRODUCING ANCIENT MUSICAL INSTRUMENTS WITH ADDITIVE MANUFACTURING
9,10-9,20	O 3_5	Claudia SERGI	CORK CONSOLIDATED BY HOT COMPRESSION AS A VIABLE BIO-BASED ALTERNATIVE TO POLYOLEFINS IN DECKING BOARDS: A PRELIMINARY STUDY
9,20-9,30	O 4_5	Laura SIMONINI	INVESTIGATION OF GRAPHENE DEPOSITION ON GLASS FIBERS BY TRIBOELECTRIFICATION
9,30-9,40	O 5_5	Giuliana TAGLIERI	INNOVATIVE AND SUSTAINABLE SYNTHESIS FOR A SCALABLE PRODUCTION OF IRON OXIDE NANOPARTICLES
9,40-9,50	O 6_5	Luca PATERLINI	ELECTROCHEMICAL HYDROGEN CHARGING ON STEELS, COMPARISON OF METHODOLOGIES
9,50-10,00	O 7_5	Elisa BLASI	ENHANCEMENT OF LIMESTONE FILLER IN THE DEVELOPMENT OF SUSTAINABLE CEMENTS
10,00-10,10	O 8_5	Caterina SGARLATA Francesco CAMMELLI	NEW RECYCLING PROCESS FOR THE FOUNDRY SANDS: INNOVATION AIMED TO GET MATERIALS WITH HIGH ADDED VALUE
10,10-10,20	O 9_5	Matteo SAMBUCCI	USE OF WASTE MATERIALS IN 3D CONCRETE PRINTING TECHNOLOGY FROM A LIFE CYCLE ASSESSMENT (LCA) PERSPECTIVE
10,20-10,40	KEY NOTE 2_5	Stefana MILIOTO	MATERIALI E TECNOLOGIE PER IL COSTRUITO ED IL PATRIMONIO CULTURALE: OBIETTIVI E STRATEGIE DI INSTM

COFFEE BREAK

11,10-11,20	C1_1	Vincenzo BARONE	VIRTUAL INSTRUMENTS FOR MOLECULAR SCIENCES: ARE ACCURACY AND INTERPRETATION LIKE THE DEVIL AND THE HOLY GRAIL?
11,20-11,40	C2_1	Roberta SESSOLI	FROM COORDINATION CHEMISTRY TO QUANTUM MAGNETIC MATERIALS: THE INNOVATIVE VISION OF DANTE GATTESCHI
11,40-12,10	PREMIAZIONI ORAL E POSTER		
12,10-12,25	LANCIO XIV CONGRESSO INSTM		
12,25-12,40	CHIUSURA LAVORI		

POSTER SESSION

P01	Matteo BECCHI	DENSITY-TUNABLE PATHWAY COMPLEXITY IN A MINIMALISTIC SELF-ASSEMBLY MODEL
P02	Simona BRACCINI	CHITOSAN-ALGINATE POLYELECTROLYTE COMPLEX SCAFFOLDS BY ADDITIVE MANUFACTURING FOR 3D IN VITRO OVARIAN CANCER TISSUE MODELLING
P03	Alessia CABRINI	ULTRASONIC SPRAY DEPOSITION OF BIONANOCOMPOSITE COATINGS FOR BARRIER IMPROVEMENT OF BIODEGRADABLE FOOD PACKAGING FILMS
P04	Filippo GHISONI	MIXED OXIDES HYBRID COATING FOR FOOD PACKAGING BARRIER IMPROVEMENT
P05	Cristiano INVERNIZZI	ELECTRONIC PROPERTIES OF NEUROTRANSMITTERS IN A HYBRID SYSTEM WITH ZEOLITE L
P06	Anna Maria MAURELLI	ENHANCING THE ORAL BIOAVAILABILITY OF CURCUMIN AND HYDROXYTYROSOL BY LOADING INTO POLYMER-STABILIZED LIPOSOMES
P07	Emil MILAN	MULTIFUNCTIONAL ORGANIC-INORGANIC FILMS: α -SYNUCLEIN AS STRUCTURAL LINKER
P08	Mattia PERRONE	ON THE AUTOMATIC OPTIMIZATION OF THREE-SITES WATER MODELS BASED ON MICROSCOPIC AND MACROSCOPIC OBSERVABLES
P09	Luca PESCE	UNRAVELING CATALYSIS DRIVEN BY CONFINEMENT: MOLECULAR CAGES HOST-GUEST DYNAMICS AT ATOMISTIC RESOLUTION
P10	Matteo PITTON	VISIBLE-LIGHT PHOTOCROSSLINKABLE HYDROGELS FOR 3D ADIPOSE TISSUE IN VITRO MODELS
P11	Arianna ROSSETTI	DESIGN OF β -CYCLODEXTRINS FUNCTIONALIZED HYDROGELS FOR CONTROLLED DRUG RELEASE
P12	Francesca BORGIOI	FORMATION OF EXPANDED PHASES IN LOW-TEMPERATURE NITRIDED STAINLESS STEELS
P13	Davide CARLEVARIS	CHARACTERIZATION OF BENZOXAZINE RESINS FOR BRAKE PAD MANUFACTURING
P14	Luca CASANOVA	ABOUT THE LOSS OF PROTECTIVENESS EXPERIENCED BY THICK Ti PEO COATINGS IMMERSSED IN CONCENTRATED H ₂ SO ₄
P15	Giovanna COLUCCI	BIO-BASED AND BIODEGRADABLE POLY(3-HYDROXYBUTYRATE-CO-3-HYDROXYHEXANOATE) MICROSPHERES FOR SELECTIVE LASER SINTERING ADDITIVE MANUFACTURING
P16	Emanuele DE BONA	ULTRAFAST HIGH-TEMPERATURE SINTERING OF ZrB ₂ AND ZrB ₂ -B ₄ C
P17	Luca GRITTI	INVESTIGATION OF DIFFUSIBLE HYDROGEN CONCENTRATION INTO A CARBON STEEL
P18	Gerardus JANSZEN	OBLIQUE BALLISTIC IMPACTS ON SELF-HEALING IONOMERS
P19	Andrea LAZZERI	MICROWAVE ASSISTED CHEMICAL VAPOR INFILTRATION NOVEL PROCESS FOR THE PRODUCTION OF CERAMIC MATRIX COMPOSITES: OBJECTIVES AND AMBITION OF CEM-WAVE PROJECT
P20	Elisa MANZINI	CONTROLLED FUNCTIONALIZATION APPROACHES OF SILICA NANOPARTICLES FOR ADVANCED MATERIALS
P21	Lorenzo NANI	FROM Al-Si TO Al-Cu: MICROSTRUCTURE AND CORROSION BEHAVIOUR COMPARISON BETWEEN LPBF-PROCESSED ALUMINUM ALLOYS
P22	Tobia ROMANO	MICROSTRUCTURE AND PROPERTIES OF PURE COPPER PROCESSED VIA LPBF
P23	Claudia BAROLO	INCREASING BIO-BASED AND CIRCULAR CONTENT OF THERMOSETTING POLYURETHANES FOR ENCAPSULATION OF OPTOELECTRONIC COMPONENTS: A DESIGN OF EXPERIMENT APPROACH
P24	Marica BIANCHI	MULTIFUNCTIONAL EPDM/PARAFFIN FOAMS COUPLING SHAPE MEMORY BEHAVIOR AND TES PROPERTIES
P25	Lucio Maria BONACCORSI	EFFECTIVE STABILIZATION OF HYDRATED SALTS IN ELECTROSPUN MICROFIBERS FOR LOW-TEMPERATURE HEAT STORAGE
P26	Aldo CAPOBIANCHI	SYNTHESIS OF L1(0) ALLOY NANOPARTICLES BY PRE-ORDERED PRECURSOR REDUCTION STRATEGY
P27	Silvia CARLOTTO	QUADRUPLE-STRANDED LANTHANOID CAGES: A COMPUTATIONAL INSIGHT ON SUPRAMOLECULAR AND EMISSION PROPERTIES
P28	Elisabetta COLLINI	ULTRAFAST DYNAMICS OF MULTIPLE PLEXICITONS IN COLLOIDAL NANOMATERIALS: THE MEDIATING ACTION OF PLASMON RESONANCES AND DARK STATES
P29	Martina CRIPPA	IDENTIFYING DYNAMIC DOMAINS VIA LOCAL MOLECULAR PROMISCUITY AND TIMELAPSE NEIGHBORS SHUFFLING
P30	Federica DE LUCA	STUDIO DFT PER L'IDROGENAZIONE DELLA CO ₂ A METANOLO SU Cu(111)
P31	Jessica DE SANTIS	HIGHLY EFFICIENT PHOTOCATALYTIC HETEROSTRUCTURE FORMED BY MESOPOROUS TITANIA FILMS AND 2D MATERIALS

P32	Massimo DELLE PIANE	RECONSTRUCTING REACTIVITY IN DYNAMIC HOST-GUEST SYSTEMS AT ATOMISTIC RESOLUTION
P33	Emanuele GALVANETTO	MECHANICAL PERFORMANCE OF UHMWPE COMPOSITES SUBJECTED TO DIFFERENT FIBER SURFACE TREATMENTS
P34	Francesco LANERO	MICROWAVE ASSISTED PAAL-KNORR REACTION ON POLYKETONE: PREPARATION AND CHARACTERIZATION OF POLYMERIC ANION EXCHANGE MEMBRANES
P35	Angela MALARA	PRELIMINARY ASSESSMENT OF MECHANICAL AND GAS SEPARATION PROPERTIES OF HYBRID PVDF-BASED MEMBRANES
P36	Michele MOTTA	STICTION IN AUTOMOTIVE BRAKING SYSTEMS
P37	Mariangela OGGIANU	A THERMALLY/CHEMICALLY ROBUST AND EASILY REGENERABLE ANILATO-BASED ULTRAMICROPOROUS 3D MOF FOR CO ₂ UPTAKE AND SEPARATION
P38	Daniele RAPETTI	MACHINE LEARNING OF ATOMIC DYNAMICS AND STATISTICAL SURFACE IDENTITIES IN GOLD NANOPARTICLES
P39	Paola RIANI	Ni-BASED INTERMETALLICS AS CATALYSTS FOR CO ₂ HYDROGENATION
P40	Kimia YOUSEFI JAVAN	INCREASING LSCF PHASE STABILITY UNDER REDUCTION BY MOLYBDENUM DOPING
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