

WCCE11 - 11th WORLD CONGRESS OF CHEMICAL ENGINEERING

IACCHE - XXX INTERAMERICAN CONGRESS OF CHEMICAL ENGINEERING CAIQ2023 - XI ARGENTINIAN CONGRESS OF CHEMICAL ENGINEERING CIBIQ2023 - II IBEROAMERICAN CONGRESS OF CHEMICAL ENGINEERING

Buenos Aires - Argentina - June 4-8, 2023

"The global chemical engineering working for a better future world"

WCCE11-Area 7- MATERIALS AND NANOTECHNOLOGY

Preliminary technical program

Monday, June 5, 2023, AUDITORIOJuan Pablo II, Oral Presentation

Chair person: Marcelo Villar

9:00-9:15	1769	Overcoming the limits of oxidoreductase-based wastewater treatment-A multidisciplinary approach	de Boer Sabrina et al.
9:15-9:30	1628	Production of ceramic pellets with micrometric zero-valent iron as an active phase for chemical reduction of contaminants in water	Ocampo Santiago et al.
9:30-9:45	1296	Characterization of the hydrophobicity of Laser-Induced graphene for its application in direct contact membrane distillation for water desalination	Peralta Mateo et al.
9:45-10:00	2276	Development of Tough Ion Gels Consisting of Alumina and Poly(ionic liquid)	Watanabe Takaichi et al.
10:00-10:15	1798	High and Very High Mn steels: erosion-corrosion response mechanisms	Doldan, M.E. et al.
10:30-11:00		Coffee Break and Posters Discussion	
11:00-11:30 11:30-12:30		Posters Chair persons: Verónica Mucci, Mirta Arango Plenary Session Conference	uren
		Vitrimers: A new family of plastic materials sharing properties of thermosets and thermoplastics	Williams, Roberto J. J.
12:30-14:00		Lunch Interval	
		Chair persons: Miguel Zanuttini	
14:00-14:15	1556	Modelling flocculation processes using a population balance model: influence of the polyelectrolyte characteristics on the model parameters	Rasteiro María Graca et al.
14:15 - 14:30	1970	Tailor-made Polymer Friction Reducers for Sustainable Development of Unconventional Oil & Gas Reservoirs	Dietrich Roque Carlos et al.
14:30-14:45	3092	A hydrophilic tetrapolymer applied in aqueous drilling fluids: synthesis, characterization and evaluation of properties.	Grazielle Lopes et al.
14:45-15:00	1450	The road to sustainable pavements: synergistic effect of nanoclay on the performance of crumb rubber-modified asphalt	Ortiz de Zárate Federico Ignacio et al.
15:00-15:15	2365	A hybrid material based on lignocellulosic biomass and transition metal to remove emerging contaminants in water	Ardila Cindy et al.
15:15-15:30	2569	Modification of the fiber of the coconut mesocarp with polyhydroxybutyrate for the preparation of a bio-based adsorbent composite	Villabona-Ortíz, A. et al.
15:30-15:35	1983	Development of black TiO2 synthesis through Contact Glow Discharge Electrolysis	Olivera Rohrer Melisa et al.
15:35-15:40	2928	Heterometallic Eu(III)-Lu(III) and Tb(III)-Lu(III) Terephthalates as Bright Luminescent Antenna MOFs	Mereshchenko Andrey et al.
15:40-15.45	1802	Calcination of Sludge from Softening Water Process	Bernaola, U.R.F. et al.
16:00-16:30		Coffee Break and Posters Discussion	
		Chair persons: Norma Marcovich, Miguel Zanuttini Plasticizing effect in the manufacture of extrudable	
16:30-16:45	2631	filaments for 3 D printing, additivated with thermoplastic polyurethane (TPU) and polyethylene glycol (PEG)	Otalora Roa Cristian Felipe et al.
16:45-17:00	2247	Modification of UF membranes by in-situ microwave-	Pino-Soto Luis et al.

		assisted CNT growth: in-situ microwave-assisted CNT growth	
17:00-17:15	2742	Understanding the influence of fluid dynamic conditions on mesoporous SBA 15 particles formation as a key parameter to scale-up its production	Britto Fiona et al.
17:15-17:30	2213	Development of reusable catalysts based on supported ultrathin gold nanowires.	Alvarez Cerimedo Maria Soledad et al.
17:30-18:30		Plenary Conference	
18:30-19:30		Poster Discussion Chair persons: Verónica Mucci, Luis Gugliotta	

WCCE11-Area 7- MATERIALS AND NANOTECHNOLOGY

Monday, June 5, 2023. Poster Session

2097	Supramolecular Networks Obtained by Block Copolymer Self-Assembly in an	
2071	Epoxy Matrix: Preparation and Shape Memory Behavior	Mateos Aillin et al
2209	Thermochemical valorization of brewer's bagasse for the development of biochar-iron oxides composites as an alternative catalyst to contribute to the remediation of Tetracycline contaminated water	Anabalón F.P. et al
2180	DFT study of the removal of nitrates from water using metal oxide catalysts	Domancich N. et al.
2214	Removal of fluoride and arsenic from waters with acidic pH	Ulacco S. et al
1730	Use of nano-functionalized epoxy coatings to improve the microbiologically influenced corrosion resistance	Marino et al.
2133	Propylene-ethylene copolymers with improved melt strength and resistance to discoloration	Schmidt Lucia N. et al.
2359	One-step reactive processing for branching of polylactide acid	Feigl V.S. et al.
2413	Synthesis of magnetic silica catalyst by a biocompatible method	Cuello N.I. et al.
2437	Synthesis of nanocrystals of zeolite FAU by using alkaline fusion from	Aguilar-Mamani W. and
	Bolivian Kaolin without the presence of seeds of zeolite Effect of the counterion on the structural and optical properties of ZnO films	Aro-Mendoza A.
2297	grown by electrodeposition. Its influence on the degradation of methylene blue	Melia L.F. et al.
2492	Specific surface enhancement by the formation of dendritic shells in silica /	
2492	iron oxide nanospheres for sensing and environmental applications	Menchaca-Nal S. et al.
2677	Influence of Powder Characteristics on The Printability of Ceramics Inks by Direct Ink Writing	Dias A.J.N. et al.
2886	X-ray micro-computed tomography technique for catalytic structures study	Peralta et al.
2167	Design and synthesis of a redox sensitive polymer for the oil & gas industry	Lombardo et al.
1949	High-performance Resveratrol-based Benzoxazine and Epoxy Thermosetting Systems with Siloxane Groups as Flame Retardant Moeities	Forchetti Casarino et al.
2867	Poli-ol ester synthesis rational method for specific properties from Pentaerythritol and Carboxylic Acids (C9, C12, C18, C22) as lubricant applications	Mendoza Ortega C. et al.
1444	Guidelines for Electrical Conductivity Additive Distribution in High-Power and High-Energy NMC based Lithium-Ion Battery Cathodes using Three-Dimensional Numerical Simulations	Chauhan et al.
1461	Modification of TiO ₂ with nitrogen and carbon via sol-gel method. Not all generating visible light absorption in TiO ₂ is dopin	Rengifo-Herrera et al.
2682	One-step electrodeposition method to generate a phytic-stearic-cerium hydrophobic coating on az91d magnesium alloy	Loperena, A.P. and Lehr, I.L.
2511	Improved corrosion resistance of 316 L SS by Cerium-based coating	Lehr et al.
2149	Influence of processing conditions on the macroscopic orientation of block copolymers by roll-casting	Santillan et al.
2077	Reduction of nitrate ions on Cu-Cd bimetallic nanoparticles supported on vitreous carbon substrates	Zurita Noelia and García, S.G.
1703	Aminosilane-modified MCM-41 and SBA-15 obtained from fly ash as effective	Jankowska, A. et al.
1/03	adsorbents for the removal of Sunset Yellow FCF and tartrazine from water	D'
1458	Surface zeolitization of millimeter clay particles	Rivera Enríquez Claudia E.et al.

Tuesday, June 6, 2023, AUDITORIOJuan Pablo II, Oral presentations Chair person: Luis Gugliotta

Chair person: Luis Gugliotta				
9:00-9:15	2368	Graphene oxide: production, scale-up and applications in Oil & Gas industry	Saavedra Albert et al.	
9:15-9:30	1860	Experimental evaluation of the wettability change in a sandstone rock by graphene oxide adsorption by contact angle and Amott Harvey evaluation	Gómez J. L. et al.	
9:30-9:45	1676	Synthesis and surface characterization of novel magnetite nanoparticles decoratd onte self-supported carbon nanofibers	Bhaduri B. et al.	
9:45-10:00	1509	Optimization of operational variables for Ag nanoparticles recuperation from aqueous systems using a magnetic coagulation/flocculation process	Ramirez M. et al	
10:00-10:15	1287	Nanoparticle synthesis and morphology control in an inkjet- discharged droplet	Yosuke Muranaka et al.	
10:15-10:20	3004	Synthesis of nanogenerators via spin coating	Seinhart Nicole et al.	
10:20-10:25	1982	Reduced Graphene oxide-Fe3O4 hybrid nanoadsorbent for adsorption of tetracycline in aqueous medium	Onaga Medina, Florencia M. et al.	
10:30-11:00		Coffee Break and Posters Discussion		
11:00-11:30		Posters Chair person: Verónica Mucci		
11:30-12:30		Plenary Session Conference	Plenary Session Conference ous Advanced Materials: From the Bench to the Soler-Illia, Galo J.A.A.	
12:30-14:00		Lunch Interval		
		Chair person: Pablo Froimowicz		
14:00-14:15	1491	Magnetic nanoparticles decorated with synthetic zeoliderived from coal fly ash: Application to removal of heavemetals and organic dyes		
14:15-14:30	1384	Preparation, characterization, and release behavior corrosion inhibitor-loaded halloysite nanotube	of Silva Mayara Antunes da Trindade et al.	
14:30-14:45	1343	Synthesis and optical properties of SiO2 composition nanostructures decorated with carbon quantum dots for applications in Luminescent Solar Concentrators		
14:45-15:00	1713	Interfacial phenomena on activated carbon electrodes from unconventional biomass by Electrochemical Impedance Spectroscopy	Portugau Patrice et al.	
15:00-15:15	1635	Lignin as a raw material of activated carbon for supercapacitor electrodes	Zapata-Benabithe Zulamita et al.	
15:15-15:30	2712	Nanocellulose-reinforced EFB/FexOy Biocomposites	Martínez Ramirez Andrea Paola et al.	
15:30-16:30	Coffee Break and Posters Discussion			
16:30-17:30	Plenary Conference			
17:30-18:30		Round tables & Forums. Poster Discussion		
Congress Dinner				

Tuesday June 6, 2023. Poster Session

2972	Bioorthogonal Paramagnetic Nanocrystalline Phosphors	Mereshchenko A.S. et al.
2572	Increment of the dissolution efficiency of poor water-soluble drugs	Triciositeiteitei Ti.s. et ui.
2947	comparing different loading methods in mesoporous materials	Gallo L. et al.
	Characterization of biodegradable nanostructured magnetic materials	
2814	with potential as adsorbents	Meiorin C. et al.
	Development of a nanocomposite from Cannabis sativa residues as an	
2746	adsorbent of heavy metals	Tejeda-Benitez L.et al.
	Development of nanocomposite films of poly(lactic acid) and bacterial	
2650	cellulose by common melt processing techniques	Bovi J. et al.
	Release kinetics of black tea polyphenols from polyvinyl alcohol (PVA)	Qinteros-Borregales
2330	electrospun nanofibers mats in several simulants	L.M.et al.

	Immobilization of ZnO nanosheets on TiO2 nanotubes	
2319	electrochemically formed on Ti-6Al-4V alloy	Martínez A. et al.
2292	Swelling as driver of the water filtration of electrospun membranes	Santos A. et al.
	Immobilized photocatalysts: influence of the substrate geometry on	
2019	the formation of TiO2 nanotubular coatings by anodic oxidation	Dwojak A.N. et al.
2008	Heterofunctional polymeric nanosupports for enzyme immobilizations	Everton S.S. et al.
	Hydrophilic carbon nanofibers supported on graphitic carbon nitride	
	for the efficient adsorptive removal of aqueous methylene blue dye	
1582	molecules	Bhaduri B. and Verma N.
1244	None desired C'O2 C'hou hou hou hou hou hou hou hou hou hou	Caracciolo P.C. and
1244	Nanostructured SiO2 fibers by electrospinning Melanin analogue-based nanoparticles transporting FOLFIRI and	Inchaurrondo, N.S.
1586	cetuximab for the treatment of metastatic colon cancer	Nieto C.et al.
1300	Thermal behavior of starch from different botanical sources by	
1581	thermogravimetric kinetic analysis	Ávila-Martín L. et al.
	SiC, Si2N2O and Si3N4 whiskers from rice husk ash and graphite	Parrillo A. and Sánchez,
1575	powdermixtures	G.
1-04	Functionalization of textile fabrics with clove essential oil encapsulated	Martins Q. et al.
1504	in chitosan and alginate matrices	
1462	Enhancement of biomaterials based on starch for protection of agricultural soils	Anzorena H.A. et al.
1402	Synthesis of liposomes with appropriate characteristics for the	
1438	incorporation of biologically active substances	Kučuk N. et al.
	Evaluation of Uruguayan loblolly pine wood to produce unbleached	Palombo V. et al.
1414	kraft pulp	Paioiiibo v. et ai.
	Fiber mats of natural rubber/polyvinylpyrrolidone for biomedical	
1.405	applications: determination of the best solution characteristics for	Andrade K.L. et al.
1405	electrospinning Study of the influence of reduced graphene oxide on the mechanical	
1325	properties of composite alginate hydrogels	Carrasco S. et al.
1323	Ternary deep eutectic solvents for the extraction of highly pure lignin	
1317	from Acacia wood	Fernandes C. et al.
	Development of a conductive hydrogel based on reduced graphene	González L. et al.
1292	oxide and collagen	Guizaicz L. et al.
1263	Biodegradable films of thermoplastic starch, poly(butylene succinate),	Beluci N.C.L. et al.
	and poly(butylene adipate co-terephthalate)	

Wednesday, June 7, 2023, AUDITORIOJuan Pablo II, Oral presentations Chair persons: Teresa Pérez, Marcelo Villar

	: Teresa Pé	rez, Marcelo Villar	
9:00-9:15	1419	Mechanical, and Thermal Properties of Biocomposites based on Polylactic Acid and natural fibers: Sisal and Coir.	Ramirez Carlos et al.
9:15-9:30	1642	Co-encapsulation of retinoic acid, curcumin and resveratrol with the evaluation of the co-delivery profiles and of the potential benefits in the treatment of acute promyelocytic leukemia	Gonçalves Antonia et al.
9:30-9:45	1772	Development and characterization of alginate/chitosan nanoparticles for Rosemary and Lavander essential oils encapsulation	Meneghini, V. and da Costa, C
9:45-10:00	2705	The Effects of Microcrystalline Cellulose and Sodium Bicarbonate Treatments on Starch Composites	Avila Liliana et al.
10:00-10:15	3113	Degradable PDA@P(NIPAM-TA) Nanocomposites for Temperature- and NIR- Controlled Pesticide Release	Wang Manting et al
10:15-10:30	1756	In-situ preparation of CdTe quantum dots capped with TEMPO and Periodate-oxidized nanocellulose and their potential application in heavy metal ion detection	Amaya García Daniel Alonso et al.
10:30-11:00		Coffee Break and Posters Discussion	
11:00-11:30		Posters Discussion Chair person: Alejandra Ayude	
11:30-12:30		Plenary Session Conference Towards a greener future for polyurethanes: Biobased polyurethane aqueous dispersions	Aranguren, Mirta I.
12:30-14:00		Lunch Interval	
		Chair person: Norma Marcovich	
14:00-14:15	2075	A Computational Polymer Design Protocol for Biomarkers Detection	Daniels, E. et al.
14:15-14:30	1751	A comprehensive study of the alginate-gelation complex coacervation	Blanco López Marco et al.
14:30-14:45	2734	Production of cellulose nanoparticles from cashew apple bagasse by ultrasonic- assisted enzymatic hydrolysis	Araújo, L.G.S. et al.
14:45-15:00	2604	Optimization of the protein bioparticles synthesis for producing hybrid polymeric materials	Allasia Mariana et al.
15:00-15:15	2646	Evaluation of the compatibilizing effect of sugarcane straw lignin in polystyrene composites with vegetable fibers	Gambarato Bruno and Oliveira, P.H.S
15:15-15:30	1352	Development and characterization of sustainable pressure sensitive adhesives based on epoxidized soybean oil, sebacic acid and a cardanol-based epoxy resin	Teper Marinelli Lautaro G. et al.
15:30-15:45	1455	Water absorption capacity of an extracellular polymer produced by the Antarctic bacterium Janthinobacterium sp. UV13	Rodríguez-García Claudia et al.
16:00-16:30		Coffe Break and Posters Discussion	
		Chair person: Luis Gugliotta	
16:30-16:45	2102	Novel ways for calcium alginate gel formation	Donayre Alonso et al.
16.45-16:50	2726	Isolation and characterization of biosynthesized bacterial cellulose nanofibers from Colombian cacao mucilage	Gamboa Suarez Maria Andrea et al.
16:50-16:55	1231	Acacia wood Fractionation using Deep Eutectic Solvents: Extraction, Recovery and Characterization of the different	Magalhães Solange et al.
16:55-17:00	1514	Catechol aromatic molecular system used as a spintronic device	Ojeda Silva Judith Helena et al.
17:00-17:05	2619	Nanocellulose/silver nanoparticles hybrid hydrogels as fungistatic agents	Hernández Celi Inés et al.
17:30-18:30		Plenary Conference	
18:30-19:30		Posters Discussion Chair person: Alejandra Ayude	

Wednesday, June 7, 2023, AUDITORIOJuan Pablo II, Poster presentation

2968	Kinetics of Fe(III) adsorption in aqueous solutions using cattle manure as adsorbent	Canchanya-Huaman Y. et al.
2959	Removal of iron and copper using cowmanure in mining effluent	Mayta-Armas A.F. et al.
2828	Evaluation of Homogenization Method on Microstructural, Physical and antimicrobial Properties of starch-based film containing	Gutierrez-Oppe E.E. et al.
2775	Adsorptive removal of arsenic from water with an adsorbent blended of activated carbon/whey protein amyloids	Gallardo Salas M.A. et al.
2731	Comparative analysis of physicochemical properties of biobinders for pavement purposes produced from different unpretreated and pretreated lignocellulosic biomass sources	Castro-Alonso M.J. et al.
2719	Modification of paints with nanomaterials for self-cleaning and antibacterial applications	Herrera A. et al.
2633		Cunha B.L.C. et. al.
2576	Acrylic/Starch hybrid nanoparticles by emulsion polymerization for coating applications	Cabrera S.F.et al.
2568	Effect of radiation sterilization of medical device polymers	Ciávaro M.N.et al.
2553	Evaluation of a chitosan-based composite material in the removal of anionic dyes	Tejada-Tovar C. et al.
2487	Synthesis of self-healing Castor oil-based waterborne polyurethane based on Diels-Alder reaction	Villca D. et al.
2443	Fiber obtained from Helianthus tuberosusresidue and its application in the development of biodegradable composite materials based on starch	Sierra Montes L.F. et al.
2417	Casein functionalization with levulinic acid for self-crosslinkable materials	Cencha L. et al.
2350	Rational design of polyhydroxylated lead adsorbents	Diaz Bukvic G. et al.
2321	Sustainable usage of yerba mate industry by-product in laminates development from biobased adhesives	Monroy Y. et al.
2320		Nicolao E.et al.
2309	Carboxymethylcellulose obtained from lignocellulosic waste and its use as a biopolymeric matrix	Cáceres L.M.et al.
2262	Chitosan-based materials functionalized with Aloe verafor potential biomedical applications	Naso L. and Rivero S.
2206	Synthesis of magnetic iron-carbon composites from residual brewery biomass for remediation of water contaminated with chlorinated	Kopp M. et al.
2156	Use of residues from renewable biomass for technological applications: Sawdust from Pinus elliottii as source of xylans	Ochoa Torres D.S. et al.
2141	Biodegradation of a starch film in home composting: effect of the presence of a fungicide	Melaj M.A. et al.

Thursday, June 8, 2023, AUDITORIOJuan Pablo II, Oral

Chair persons	: Marcelo V	illar, Mirta Aranguren	
9:00-9:15	2861	Synthesis of -FeOOH nanoparticles and their DNA adsorption properties water	Skalny Mateusz and Bajda T.
9:15-9:30	2764	Rich magnetic field-driven assembly of magnetic colloids with laterally shifted dipoles	Rubio- Briceño Juan P. et al.
9:30-9:45	2528	Spontaneous microencapsulation behavior in microchannel flow	Ono Tsutomu et al.
9:45-10:00	2458	PLGA nanoparticles, influence of solvent-non solvent nature and polymer molecular weight over particle size and kinetic rate profile	P. Betes-Sevillano; R. Lancheros
10:00-10:15	2271	Plasmon chemistry of noble metal nanoparticles for visible- light-driven hydrogen generation	Verma Priyanka et al.
10:15-10:30	2111	New insights on catalytic activity of copper-doped iron oxide nanoparticles	Nuñez, N et al.
10:30-11:00		Coffee Break and Posters Discussion	
11:00-11:30		Posters Discussion Chair person: Verónica Mucci	
11:30-12:30		Plenary Session Conference Neofossils: bio-based plastics to sequester CO ₂	Ryan, Anthony J.
12:30-14:00		Lunch Interval	
		Chair persons: Roberto Candal, Norma Marcovich	
14:00-14:15	1598	A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of surfactant and optoelectronic property: Novel Gd2MoO6	Sengupta Sonali et al.
14:00-14:15 14:15 - 14:30	1598 1261	A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of	Sengupta Sonali et al. Parientes-Sanchez Deyvi et al.
		A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of surfactant and optoelectronic property: Novel Gd2MoO6 nanoparticle and its photocatalytic activity Single particle dynamics around the boundaries of nematic	
14:15 - 14:30	1261	A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of surfactant and optoelectronic property: Novel Gd2MoO6 nanoparticle and its photocatalytic activity Single particle dynamics around the boundaries of nematic media Chemical Modification and Coordination Structure Construction regulating the Catalytic Process of Carbon-	Parientes-Sanchez Deyvi et al.
14:15 - 14:30 14:30-14:45	1261	A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of surfactant and optoelectronic property: Novel Gd2MoO6 nanoparticle and its photocatalytic activity Single particle dynamics around the boundaries of nematic media Chemical Modification and Coordination Structure Construction regulating the Catalytic Process of Carbon- based Materials Valorization of avocado and tomato pruning waste for the production of biocomposites for food packaging Structural and spectroscopic characterization of air-stable zerovalent iron nanoparticles after an activation process	Parientes-Sanchez Deyvi et al. Li Yang
14:15 - 14:30 14:30-14:45 14:45-15:00	1261 3121 2081	A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of surfactant and optoelectronic property: Novel Gd2MoO6 nanoparticle and its photocatalytic activity Single particle dynamics around the boundaries of nematic media Chemical Modification and Coordination Structure Construction regulating the Catalytic Process of Carbon- based Materials Valorization of avocado and tomato pruning waste for the production of biocomposites for food packaging Structural and spectroscopic characterization of air-stable zerovalent iron nanoparticles after an activation process Posters Discussion Chair person: Alejandra Ayude	Parientes-Sanchez Deyvi et al. Li Yang Morcillo-Martín Ramón et al.
14:15 - 14:30 14:30-14:45 14:45-15:00 15:00-15:15 15:30-16:00 16:00-16:30	1261 3121 2081	A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of surfactant and optoelectronic property: Novel Gd2MoO6 nanoparticle and its photocatalytic activity Single particle dynamics around the boundaries of nematic media Chemical Modification and Coordination Structure Construction regulating the Catalytic Process of Carbon- based Materials Valorization of avocado and tomato pruning waste for the production of biocomposites for food packaging Structural and spectroscopic characterization of air-stable zerovalent iron nanoparticles after an activation process Posters Discussion Chair person: Alejandra Ayude Coffee and Posters	Parientes-Sanchez Deyvi et al. Li Yang Morcillo-Martín Ramón et al.
14:15 - 14:30 14:30-14:45 14:45-15:00 15:00-15:15 15:30-16:00	1261 3121 2081	A Morphology based study of novel Gd2MoO6 nanoparticle and its photocatalytic activity: effect of surfactant and optoelectronic property: Novel Gd2MoO6 nanoparticle and its photocatalytic activity Single particle dynamics around the boundaries of nematic media Chemical Modification and Coordination Structure Construction regulating the Catalytic Process of Carbon- based Materials Valorization of avocado and tomato pruning waste for the production of biocomposites for food packaging Structural and spectroscopic characterization of air-stable zerovalent iron nanoparticles after an activation process Posters Discussion Chair person: Alejandra Ayude	Parientes-Sanchez Deyvi et al. Li Yang Morcillo-Martín Ramón et al.

Thursday, June 8, 2023, AUDITORIOJuan Pablo II, Poster presentation

2969	Green synthesis and characterization of silver nanoparticles using plant extracts of Pernettya prostrata (Cav.) DC. and Mutisia acuminata Ruiz & Pav	Bendezu Roca Y. et al.
2719	Modification of paints with nanomaterials for self-cleaning and antibacterial applications	Herrera A. et al.
2681	Evaluation of antimicrobial treatment with Ag nanoparticles applied on textiles	Ueda A.C. et al.
2599	Modelling of a continuous maize milling process under the discrete element method	Chiaravalle A.G. et al.
2426	Strategies for scaling up the synthesis of stable aqueous ferrofluids of extremely high concentration	Jara D. et al.
2395	Development of a drug delivery nanoplatform based on polylactic acid	Chinellato J. et al.
2281	Silica/lignin hybrid composites by sol-gel: synthesis, properties assessment, and a glance at potential applications	Bruzzoni A. et al.
1634	Ultra-low-cost synthesis of amine modified MCM-41 for CO2 capture	Aquino G.D.et al.
2257	Biopesticide based on inulin nanoparticles and neem oil for control of Chloridea virescens	Fuentes M.E. et al.
2110	Development of microfibrillar membranes based on poly(ε- caprolactone) to be used in the treatment of cutaneous lesions	Lima T.P.L.et al.
2089	Brewer's Spent Grains forproduction of binderless boards. A study on its contribution to sustainability.	Rossi L. et al.
2002	Use of avocado seed starch (Israeli Pinkerton) to obtain bio-based polymers	Mallarino-Miranda, L.P. et al.
1972	Chitosan and sodium alginate based membranes as a potential treatment incutaneous wounds	Martiny T.R. et al.
1958	Incorporation of dragon's blood latex in chitosan film	de Andrade Bonucci G.et al.
1857	PVP-agar hydrogels synthesized by microwave irradiation for biological applications	Azevedo N.O. et al.
1836	Characterization silk fibroin and graphene oxide hydrogels for use as dressings	Ruíz I. et al.
1701	Development of microalgae oil-based drug delivery systems	Lin Y.C.et al.
1472	A Microencapsulation of ginger oil by complex coacervation and cotton impregnation	de Souza Santana Marcos Henrique et al.
1819	Surface treated PET fibers for enhanced functionalization with lavender oil microcapsules	Valle, R.C.S.C.et al.
2261	Carbon nanofiber from ecofriendly Poly (vinyl alcohol) electrospun	Vergara Rubio Maria
	mat as an effective electrode for water desalinization	Alicia et al.
1412	Compatibilizers for biodegradable starch and poly (lactic acid) materials produced by thermoplastic injection	da Silva Samuel Camilo et al.