

POSTER SESSION A - Monday, April 22 2024, from 6:30 pm to 8:00 pm

| NUMBER | PRESENTER AUTHOR | TITLE |
|--------|---------------------------------------|---|
| 1-A | Benjamim Rubim | Enhancing TiO ₂ properties through the incorporation of a natural polymer |
| 2-A | Romelly Eugenia Rojas Ramirez | Nanocapsules pH-responsives obtained by in situ acrylic acid polymerization on the surface of liposomes DODAB, DODABOPE |
| 3-A | Natalia Brasil Posselt Costa | Stabilization of water-in-water emulsions using gliadin nanoparticles: characterization and mechanistic insights |
| 4-A | Gabriell B. Dolejal | Poly-ε-caprolactone nanoparticles containing di-lithium phthalocyanine: physicochemical characterization and evaluation of photodynamic activity |
| 5-A | Luana V. Tholozan | Gelatin-based dressings enhanced with activated carbon and pecan shell |
| 6-A | Amanda Vasconcelos Farias | End-group evaluation of HEMA initiated poly(globalide) macromonomers via enzymatic ring-opening polymerization |
| 7-A | Giuliana Franco | Interfacial adhesion in multilayer packaging films |
| 8-A | Ludmila Ferreira | Unveiling the potential: harnessing polysaccharides with crude tall oil for innovative applications |
| 9-A | Izabelli Cristiani Barcelar Zakaluk | Improving nanocellulose membrane functionality via atmospheric pressure plasma treatment and tannin spray coating |
| 10-A | Rodrigo P. Feitosa | Cassava gum hydrogel for organic dye adsorption |
| 11-A | Vicente Marques | PVA nanofibers modified with silver-based semiconductors for antimicrobial applications |
| 12-A | Bruno Caillier | Metallic nanoparticles synthesis directly on biological matrices by action of cold atmospheric plasma-jet |
| 13-A | Gabriela Borba Mondo | Polymer-coated gold nanoparticles: surface engineering towards protein corona control |
| 14-A | Rodrigo Henrique Saatkamp | Chitosan and glycerol monolaurate-based films for transbuccal delivery of benzimidazole: a potential approach for chagas disease treatment |
| 15-A | Anna Clara Vilas Boas | Enhancing sustainability with coffee waste: lignocellulosic extraction and calcium peroxide xerogel fabrication for oxygen delivery systems |
| 16-A | Emmanuelle Gouveia David | Development of starch-based smart packaging using pH-responsive clay nanoparticles |
| 17-A | Aparecido Junior de Menezes | Structural and mechanical assessment of films from gelatinized cassava starch during hydroxypropylation reaction |
| 18-A | Bruna Alexandre | Production of a dressing with Ecovio® nanofibers by electrospinning containing garlic wood essential oil for antimicrobial activity |
| 19-A | Douglas Porto | In vitro amoebicidal activity of tripolyphosphate/chitosan nanoparticles loaded with β-caryophyllene |
| 20-A | Paulo Camara | Cellulose nanocrystal-reinforced hydrogels using crude glycerol: rheological and isolation properties |
| 21-A | Willian Silveira | Development of ASICs biomimetic systems for antinociceptive drug screening |
| 22-A | Hong Li | Carbohydrate-based bottle-brush copolymers and their self-assembly: colored biomaterials and photonic crystal features |
| 23-A | Ângela Graziela Lechinski da Luz de A | Study of stability, dispersion and size of polymeric micelles containing curcumin and piperine |
| 24-A | Hannah Izabel Sauer | Hydrogels of citrus pectin and agar agar for paper cleaning |
| 25-A | S. R. M. Menezes | Analysis of phosphate release and resistance to swelling cycles of cassava gum hydrogel |
| 26-A | Marcelo Nunes | Self-healing extrinsic materials of epoxy with carbon nanotube and urea-formaldehyde (PUF) microcapsules containing the repair agent based on amine polydimethylsiloxane (PDMS-a) |
| 27-A | Jacinete Lima dos Santos | and after solvent evaporation casting, does it work? |
| 28-A | Renata Dalcanale Araujo | Polyelectrolyte complex loaded with zinc phthalocyanine (II) targeted with biotin as an alternative for photodynamic therapy |
| 29-A | Corina Estefania Berrocal Rojas | Development of a lycopene nanodispersion using chitosan and gelatin type B as wall material |
| 30-A | Rosa Maria Vercelino Alves | Shelf life of bacon in recyclable multilayer packaging |
| 31-A | Diogo Silva Pellosi | Engineering conducting-polymer based substrates for pesticide detection using SERS through PEDOT-polyfluorene and silver nanoparticles composite synergy |
| 32-A | Millena de Cassia Sousa e Silva | Cryogenic printing of GelMA scaffolds reinforced by microfibers |
| 33-A | Ramon de Paula | Characterization of oil and water emulsions stabilized with powdered buttermilk |
| 34-A | Eduardo Ribeiro | Glassy carbon electrode modified with carbon black and biogenic silver nanoparticles: a new and low-cost voltammetric electrode developed for iron determination in medicament |
| 35-A | Moema Hausen | Development of an in vitro vascular model from PLDLA-TMC incorporated with polyethylene glycol |
| 36-A | Vanessa Rong Jen Chang | Electrospun matrices based on polyvinylpyrrolidone (PVP) for rapid administration of paracetamol |
| 37-A | Odinei Hess Gonçalves | Solid dispersions of curcumin/polyvinylpyrrolidone and their use as colorants for polyamide textiles |
| 38-A | Andreios Onuzak | Synthesis of biopolymeric nanoparticles and their combination in intelligent microgels |
| 39-A | Raul Edison Luna Lazo | Chemometric analysis using PCA for evaluating chemical relationships of aloe vera extract as a plasticizer in carrageenan and gellan polymer films |
| 40-A | Cinthia Ramos de Andrade | Nanoincorporation of curcumin and erythrosin B into polymeric micelles of the type (PEO)(PPO)(PEO) aiming applications in photodynamic therapy |
| 41-A | Layla Schlichting | Curcumin-loaded chitosan/hydroxypropyl methylcellulose acetate succinate nanoparticles applied to the treatment of melanoma |
| 42-A | Fabiana Lima | Influence of electrospun polyvinyl butyral and polyvinyl alcohol on reactive red 195 dye degradation by heterogeneous photocatalysis in aqueous media |
| 43-A | João Pedro Gumiero | Poly(oxazoline) smart copolymers: thermo- and pH-responsiveness for advanced applications |
| 44-A | Luiz Paulo Soares Pereira | Thiol-ene photopolymerization of (R)-(+)-limonene in miniemulsion using an hydrosoluble initiator |
| 45-A | Larissa Mondini | Conductive electropolymerized Orange G film for the electrochemical detection of dopamine |
| 46-A | Pâmela Xavier | Halloysite nanoparticles functionalized by plasma and organically modified with essential oil for the production of functional PHBV nanocomposites |

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| 47-A | Daiana Maria Furlan Sandrini | Biobased Kapok fiber-sugarcane bagasse adsorbents for treating of residual oil-in-water emulsion from lithium grease processing |
| 48-A | Roberta Pugina | Modified matrices of gellan gum doped with lanthanide ions for the production of photonic devices |
| 49-A | Nayguel Cappellari | Edible and fast-dissolving bi-layer of sodium alginate film and fish gelatin nanofibers |
| 50-A | Flávio de Sousa Santos | Sustainable smart coatings of chitosan and LDH loaded with natural inhibitors for corrosion protection of Mg AZ31 alloy |
| 51-A | Lucas Binder | The influence of molecular weight on the anticorrosion properties of chitosan coatings |
| 52-A | Tomas de Mesquita Simioni | Preparation of hydrogels based on chemical recycled poly(ethylene terephthalate) and their application on the removal of metallic ions |
| 53-A | Willian Takarada | Designing functionalized biomaterials for the catalytic neutralization of organophosphates |
| 54-A | Priscila da Costa | Development of single-component epoxy nanocomposite containing nanometric diniobium pentoxide |
| 55-A | Rafaella Fernandes | Applying heterogeneous catalysis for the chemical valorization of biomass: zeolites as a promising catalyst to generate high-value-added molecules |
| 56-A | Bibiana Bitelo | Synthesis of hydrogels based on products obtained from renewable sources applied on the dye removal |
| 57-A | Giovanni Bortoloni Perin | pH-Responsive and self-healing hydrogels based on reversible imine bonds as scaffold for prototissues |

POSTER SESSION B - Tuesday, April 23 2024, from 6:30 pm to 8:00 pm

| NUMBER | PRESENTER AUTHOR | TITLE |
|--------|-----------------------------------|---|
| 1-B | Natália Mello da Silva | Physicochemical evaluation of the surfactant potential of lignosulfonate |
| 2-B | Tânia Laís Ferreira da Silva | PHBV/TPS blends for applications in agricultural mulch films |
| 3-B | Izabel Cristina Riegeç Vidotti | Switch on-off catalysis: using thermoresponsive hybrid nanomaterials to control enzymatic activity |
| 4-B | Raphael Henrique Marques Marcilli | Enhancing crosslinked copolymers: utilizing methacrylates and styrene with temperature-responsive dynamic covalent bonds |
| 5-B | Cristiana Lima Dora | Designing and characterization of hydrogels containing curcumin and polyhexamethylene biguanide: a promising platform for wounds treatment |
| 6-B | Ariane Regina de Souza Rossin | Betamethasone release for atopic dermatitis from Ecovio® electrospun fibers |
| 7-B | Yara Schuvinski Ricken | Mixed liposomes incorporated with curcumin and silver nanoparticles for photodynamic therapy |
| 8-B | Pâmela Xavier | Biodegradation study of PHBV nanocomposites in simulated soil conditions |
| 9-B | Lucas Simon | Effects of biocompatible ionic liquids on the in-situ polymerization of PPy coatings on aligned electrospun PCL nerve conduits |
| 10-B | Carolina Lourenço | Hybrid nanoparticles: strategy to increase the oral bioavailability of drugs |
| 11-B | Eliana A. de Rezende Duek | Development and characterization of poly(L-co-D,L-lactic acid) and natural rubber co-electrospun membranes for dermal dressings |
| 12-B | Bruna Luiza Batista de Lima | Influence of different cations on solution properties of hydrophobically modified carboxymethylcellulose |
| 13-B | Daiani Leite | A study on the behavior of smart starch-co-poly(N-isopropylacrylamide) hybrid microgels for encapsulation of methylene blue |
| 14-B | Esteban Gerling | Development of a starch-based polymer blends with PET recycling byproducts for the slow release of urea |
| 15-B | Paula de Abreu Fernandes | Bacterial cellulose bifunctionalized with mimetic peptides for cell culture platform |
| 16-B | Carolina Ribeiro | Hole of hydroxypropyl methylcellulose (HPMC) at biocompatibility and healing potential related to rheological properties |
| 17-B | Ana Carolina Domingues Fidalgo | Nanostructured polymeric material for pH-responsive release of curcumin |
| 18-B | Moema Hausen | Comparative analysis of poly-L-lactic acid and calcium hydroxyapatite in dermal matrix bio-stimulation for addressing skin laxity |
| 19-B | Brenda Bopp Baptista | Pluronic nanoparticles containing magnesium phthalocyanine: formulation, physicochemical properties, and generation of singlet oxygen |
| 20-B | Thelma Sley Pacheco Cellet | Hydrogels of poly(vinyl alcohol)-chondroitin sulfate and hydroxyapatite: biocompatibility study in vivo of subcutaneous tissue of wistar rats |
| 21-B | Heloísa Bremm Madalosso | Biobased copolyester nanoparticles obtained via miniemulsion polymerization as a novel platform for folic acid bioconjugation |
| 22-B | Luiza Gabriela Schlüter | In vitro studies on the release of chitosan/curcumin complexes in alginate/carrageenan hydrogels as carrier vehicles |
| 23-B | Laís Tuani De Marco | Modification of poly(ethyleneimine) with amino acids and evaluation of interaction with DNA for obtaining polyplexes with application in gene therapy |
| 24-B | Guilherme Miranda Pereira | Hydroxyapatite mineralization by biomimetic method over functionalized polypropylene films |
| 25-B | Silvana Menezes | Study of the swelling of cashew gum hydrogel associated with urea for agricultural applications |
| 26-B | Letícia Machiavelli | Electrospinning of PVC/silica nanostructured membranes for water/oil separation |
| 27-B | Aline Krolow Soares | Lactic acid from wastewater of hydrodistillation of C. citriodora leaves to production sustainable polymers |
| 28-B | Lia Mallmann Mattiazzi | Imidazolium ionic liquids modulating the rheo-thermal properties and aggregation of hydroxypropyl cellulose |
| 29-B | Joziel Oliveira | Effect of the concentration of green polysaccharide on TiO ₂ properties for photocatalytic applications |
| 30-B | Rafael da Silva | Macro and micromechanical assessment of biomaterials |
| 31-B | Joyce Borges | Environmental remediation: nanocomposite aerogels derived from cashew tree gum |
| 32-B | Jaqueline Carneiro | Orodispersible tablets: innovating with novel cellulose nanocrystal superdisintegrants |
| 33-B | Giuliana Valentini | Exploring polysaccharide blends for curcumin encapsulation: assessing the influence of composition on thermal, crystallinity, and release properties |
| 34-B | Nicolly Bittencourt Guedes | Enhancement of terbinafine hydrochloride drug solubility through carrier selection |
| 35-B | Thayane Portela Oliveira | Chitosan-alginate based hydrogels for drug delivery |
| 36-B | Raul Pirolli da Silva | Electrospun poly (lactic acid) (PLA)/ poly (butylene adipate-co-terephthalate) (PBAT) fibers aiming air filter |
| 37-B | Rodrigo Henrique Saatkamp | A chitosan-based membrane as support to β-cyclodextrin inclusion complex containing fluconazole and terpenes: FTIR, swelling and thermal characterization |
| 38-B | Luiza R. Santana | Algae Biomass Cellulose: A Promising Alternative for Biorefineries |
| 39-B | Loan Filipi Calheiros Souto | A novel ternary composite of PANi/CNT/GNP in EVA matrix: a high-performance material for microwave absorption with low weight and high flexibility |
| 40-B | David Maraschin Antunes | Development of electrospun matrices based on poly(vinyl) alcohol and chitosan for potential transbuccal release of benznidazole |

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| 41-B | Alexandre Tadeu Paulino | Synthesis and characterization of interpenetrating polymers for sorption/release of organic compounds |
| 42-B | Emerson Alves | Application of cashew gum aerogel in the removal of methyl orange and crystal violet dyes |
| 43-B | Christopher Gretter | Ultra-low-cost non-thermal plasma methods for surface processing of paper and lignocellulosic materials: aiming for industrial upscaling |
| 44-B | Debora Pereira Schmitz | Influence of the cell size distribution on the electromagnetic absorption of polylactic acid bilayer honeycomb structures |
| 45-B | Edileuza Pinto Teixeira | Ethyl cellulose nanoparticles containing manganese phthalocyanine for use in photodynamic therapy |
| 46-B | Odinei Hess Gonçalves | Cyto and genotoxicity of naringenin solid dispersions obtained using poloxamer 407 as stabilizing agent |
| 47-B | Tamara Agner | Enzymatic degradation of polymers obtained from a castor oil derivative |
| 48-B | Anabella Rosso | Evaluation of polymersome permeability as a fundamental aspect towards the development of artificial cells and nanofactories |
| 49-B | Bruno Caillier | Conferring plasmonic properties in PDMS based substrate with plasma synthesized Ag nanoparticles: assessment and challenges |
| 50-B | Rosa Maria Vercelino Alves | Flexible packaging with lower environmental impact for fresh yeast |
| 51-B | Katterine Patricia Taipe Huamani | Electrospun polymeric fibers of poly (L-lactic acid) with basil essential oil for skin wound healing |
| 52-B | Maria Isabel Spitz-Argolo | Hydrogels from citrus pectin for conservation and restoration of art |
| 53-B | Micheli Monte | A feasible approach to the fabrication of hop waste/bovine gelatin nanofibers |
| 54-B | Eric Tatsuo Yida | Electrospun mats of poly(lactic acid) with graphene nanoplatelets and choline bitartrate for use in nerve conduits |
| 55-B | Emerson Alves | Antibacterial and cytotoxic study of films produced from natural gums containing nanoparticles |
| 56-B | Mariana Chaves Santos | Polymeric micro-fibers for prolonged oxygen release obtained by electrospinning |
| 57-B | Vanessa Rong Jen Chang | Fast release of paracetamol using electrospun non-woven of PVP/VA: a morphological analysis, characterization by FTIR and spectroscopy UV-vis |

POSTER SESSION C - Thursday, April 25 2024, from 6:30 pm to 8:00 pm

| NUMBER | PRESENTER AUTHOR | TITLE |
|--------|-------------------------------------|---|
| 1-C | Amanda Olinek | Aligned electrospun mats of on poly(lactic acid) with carbon nanotubes and choline bitartrate ionic liquid for peripheral nerve regeneration |
| 2-C | Vanieli Gomes | Hybrid nanoparticle development for IR-780 dye encapsulation: advancing photothermal and photodynamic therapy |
| 3-C | Bruno Caillier | Synthesis of gold and silver nanoparticles using an atmospheric pressure plasma jet |
| 4-C | Thaírís Karoline Silva Laurintino | Valorization of costus spicatus (stalk) byproduct using supercritical fluid extraction (SFE) |
| 5-C | Daniela Pastorim Vaiss | Curcumin and quercetin co-encapsulated in nanoemulsions for intranasal administration: a promising therapeutic and prophylactic treatment for viral respiratory infections |
| 6-C | Heloísa Diehl Doring | Research and development of electrospun nanofibers containing Rose Bengal and silver nanoparticles for application in photodynamic therapy |
| 7-C | Daniela Eduarda Schneider | Utilization of derivatives from poly(ethylene terephthalate) chemical recycling in producing sustainable hydrogels with adsorption capacity for the cationic dye crystal violet |
| 8-C | Caroline Dutra | Synthesis and solution properties of hydrophobically modified polyacrylamide with styrene |
| 9-C | Benjamim Rubim | Study of the photocatalytic activity of the ZnO/C3N4 composite modified by a natural polymer |
| 10-C | Carla Sabino | Nanocelluloses induce microstructural and mechanical changes in surfactant lamellar phases |
| 11-C | Thais Cardoso Oliveira | Design of a monomer β -diketone as a template for dynamic polymer networks |
| 12-C | Memoona Ahmad | Development of sustainable bioplastic films derived from bagasse and corn cobs waste for food packaging applications |
| 13-C | Clara Dourado Fernandes | Enzymatically synthesized polypropylene succinate (PPSG) as a green plasticizer in electrospun mats for enhanced soft tissue regeneration |
| 14-C | Joslaine Jacumazo | Lignin nanoparticles as pickering emulsifiers in oil-in-water emulsions |
| 15-C | Joyce A. Borges | Multifunctional hydrogel from babassu mesocarp: exploring its application in agriculture |
| 16-C | Pedro Gabriel Valente Silva | Encapsulation of essential oils in chitosan nanoparticles and covalent impregnation in cotton fabrics |
| 17-C | Aline Machado Bessow Machado | Production of alginate/starch/clay nanoparticles scaffolds for bone regeneration by 3D printing |
| 18-C | Lucas Dallmann Almeida | Gamma irradiated PVP-PVAL claygels: evaluations of properties with different Laponite®RD clay concentrations |
| 19-C | Mariana Nazareno | Bifunctionalized cellulosic biocatalysts for chemical neutralization of organophosphates |
| 20-C | Raul Edison Luna Lazo | Development of terbinafine-loaded poly(ϵ -caprolactone) nanocapsules aiming to treat sporotrichosis |
| 21-C | Stephen Christina de Moraes | Development of core-shell PVC/PMMA/PANI membranes by coaxial electrospinning |
| 22-C | Andressa Ratajk | Hybrid materials based on chitosan/magnetite/silver nanoparticles applied to photocatalysis |
| 23-C | Gabriel da Silva Figueiredo | Sustainable smart coating of alginate, LDH and gallic acid for corrosion protection of Mg AZ31 alloy |
| 24-C | Gustavo Cervi | Probing bis-benzoxazine polymerization intermediates by infrared ion spectroscopy, ion mobility and mass spectrometry |
| 25-C | Micheli Monte | Visual appearance and color of polymer solutions and nanofibers based on hop waste extract and bovine gelatin |
| 26-C | Gabriel Ottaiano | Investigation of Cu (II) adsorption mechanisms on fibroin membranes through FTIR analysis |
| 27-C | Nathalia Oliveira Almeida dos Anjos | Development of alginate beads with incorporation of ionic liquids applied to chromium removal in aqueous solution |
| 28-C | Eloah Latocheski | Targeted delivery of photosensitizers through folic acid vectorized hybrid liposomes comprised of Pluronic F127/DPPC and a novel guanidium surfactant |
| 29-C | Ana Lima | Sustainable gum-based biocatalysts from cashew-nut and buxixão trees: towards the neutralization of organophosphates |
| 30-C | Matheus Rick Gomes | Chlorin derivative/F-127 polymeric micelles: physical-chemical interactions and potential application in photodynamic therapy |
| 31-C | Layla Schlichting | N-succinyl chitosan-coated citral-loaded nanoemulsions: a new approach to the treatment of oral mucosal diseases |
| 32-C | Rodrigo Duarte Silva | Full utilization of banana peels for the production of eco-friendly bioplastic films with high UV-blocking and antioxidant properties |
| 33-C | Julia Lemos de Oliveira | Controlled release of doxorubicin and indocyanine green co-encapsulated in polyglycolide polymeric nanoparticles for cancer phototherapy |
| 34-C | Thuany Naiara Silva Laurintino | CO2 utilization as gas antisolvent for the encapsulation of the methionine in ethyl cellulose |
| 35-C | Joziel Oliveira | Biopolymer Gellan gum-based TiO2 composites: a novel approach for environmental remediation |
| 36-C | Lia Mallmann Mattiazzi | Maltoheptaose-based block copolymer micelles containing magnesium phthalocyanine for application in photodynamic therapy |
| 37-C | Guilherme Vedovello | Tuning the mechanical properties of chitosan/CNC films and hydrogels through electrostatic interactions |
| 38-C | Ariane Regina de Souza Rossin | Effect of chain conformation and interactions of poly(vinyl alcohol) on different degrees of hydrolysis with F127 and crosslinked for electrospinning: a computational and experimental study |
| 39-C | Luiz Henrique Han | Bi-layer nanocapsules based on chitosan and xanthan gum for lipase immobilization |
| 40-C | Morgana Sofia Zilse | Study of the properties of pectin in dispersion and their use in the formation of hydrogels with poly(ethyleneimine) |
| 41-C | Cassiano Pires | Effect of sulfate-ester content and nanocellulose allomorph on stability of amylopectin-xyloglucan water-in-water emulsions |
| 42-C | Manuel Cunha | Chemical surface modification of 3D-printed PCL/laponite scaffolds for use in bone tissue engineering |
| 43-C | Aline Vasconcelos | Application of polymers for preventing scale and corrosion formation in oil wells: experimental and theoretical approach |
| 44-C | Emanuele Ferreira Lessa | Development and characterization of chitosan/carbon nanotubes composite films for potential adsorption of dyes in aqueous solutions |
| 45-C | Francisco Eroni Paz dos Santos | Nanocomposite hydrogels of cashew tree gum with laponite to control water release |
| 46-C | Thaiane Cruz | Thermogravimetric analysis of Kraft lignins: comparative study of thermal and catalytic decomposition |
| 47-C | Larissa Regina Rabaioli | Synthesis of water-soluble polyacrylamides hydrophobically modified with oligo(lactide) for use in enhanced oil recovery |
| 48-C | Augusto Freitas | Aggregation behavior between methylcellulose and ionic liquids based on carboxylate anions in dilute and semi-dilute regimes |

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| 49-C | Joslaine Jacumazo | Nectarine coated with biopolymeric nanocapsules containing eugenol to control <i>Monilinia fructicola</i> |
| 50-C | Luiza Bertoldo Stefanello | Carbohydrate-based block copolymer nanoparticles for delivery of chlorine-aluminum phthalocyanine: a promising strategy for photodynamic therapy |
| 51-C | Luíz Gustavo Hiroki Komatsu | Analysis of incorporation of TiO ₂ /Ag nanoparticles on the blend of PBAT/ γ -sterilized PLA for foaming aiming water filtration |
| 52-C | Fernando Augusto de Oliveira | Evaluation of novel platforms for DNA delivery based on natural polymers and polyoxazolines |
| 53-C | Duclerc Fernandes Parra | Interfacial change of PLA/PBAT blends after application of gamma radiation as a compatibilizing agent |
| 54-C | Heloísa Comelli Grahl | Interactions of the anionic surfactant sodium dodecyl sulfate (SDS) with ethyl (hydroxyethyl) cellulose (EHEC): effects of counter-ions and temperature |
| 55-C | Izabelli Cristiani Barcelar Zakaluk | Freeze-thawing on polyvinyl alcohol hydrogel films before |
| 56-C | Rodrigo P. Feitosa | Hybrid hydrogels based on cashew gum and Iaponite: a study on water absorption and reusability, for application as soil conditioners |
| 57-C | Ismael Bellettini | Ethyl hydroxyethyl cellulose (EHEC) films containing α -tocopherol: effects on stability, release in vitro and properties of the film |