

Program



CIPON

6TH | BRAZIL

**Iberoamerican Conference on
Advanced Oxidation Technologies**

October 7 to 11, 2024

Florianópolis/SC

Oceania Convention Center

NET ZERO CARBON EVENT



Lectures and
keynotes



Oral and poster
presentations



Other information



VI CIPOA PROGRAM

Iberoamerican Conference on Advanced Oxidation Technologies
Florianópolis, October 7 – 11th, 2024

Welcome Message

Dear Participants,

On behalf of the Organizing Committee, we extend a warm welcome to the 6th Iberoamerican Conference on Advanced Oxidation Technologies (CIPOA) in Florianópolis, Brazil. We are delighted to host you for this landmark event!

Since its first edition in Recife, Brazil, in 2013, CIPOA has traversed Latin American countries, establishing itself as a premier forum for sharing advances in Advanced Oxidation Technologies. This year's edition marks a significant milestone as the largest CIPOA yet, with the highest number of participants and abstracts.

Featuring a diverse program encompassing various Advanced Oxidation Processes, the 6th CIPOA serves as a platform for researchers and industry professionals to exchange knowledge, showcase innovative applications, and explore the latest advancements in the field.

We extend our heartfelt gratitude to all participants, sponsors, and organizers whose invaluable contributions have made this event possible. Your active involvement enriches the CIPOA experience, providing unparalleled opportunities for learning, networking, and collaboration.

Welcome to Florianópolis, and welcome to CIPOA 2024!



Sincerely yours,

Regina de Fatima Peralta Muniz Moreira

*Chairwoman of VI CIPOA
Federal University of Santa Catarina
Florianópolis - Brazil*

General Information



Event Venue

Oceania Convention Center

Address: Rua do Marisco, 550, Ingleses - Florianópolis - SC – Brazil



Event Secretariat

Attitude Promo Marketing e Eventos

E-mail: cipoa@attpromo.com.br

Phone: +55 48 99140-4388 or +55 48 3047-7600



Opening Hours - Secretariat

October 7th	from 7h30min to 18h00min
October 8th	from 8h30min to 17h30min
October 9th	from 8h30min to 12h10min
October 10th	from 8h30min to 17h30min
October 11th	from 8h00min to 16h00min



Registration and Material Delivery

Third parties will not be allowed to pick up the credentials/materials. A photo ID is required to pick up the credentials/materials. The use of a credential is essential and compulsory for access to the venue and scientific sessions.



Certificates and Declarations

Certificates can be downloaded from the website after the event ends. If you need a specific certificate, please contact the secretariat.



Opening, Closing Ceremony and Awards

Opening ceremony will be held on October 7th, from 18h00min to 22h00min at Diamond Auditorium. Closing ceremony will be held at same place on October 11th from 14h45min to 15h45min. Awards will be granted on both occasions.



Oral and Poster presentations

Oral and short oral presentations will take place in the Diamond Auditorium, Agata 2 Room, Topaz 1 and Topaz 2 simultaneously. If you are a presenter, please go to your presentation room before the start of the morning or afternoon session to upload your presentation file to the computer. We recommend using a PDF format.

Poster presentations will take place during the coffee break in the Diamond Auditorium. If you are a poster presenter, please hang your poster before the start of the morning sessions.



Lunch and Coffee Break

Lunch will be offered from Tuesday to Friday from 12h15min to 14h00min. Coffee Break will be held at Exhibition Area.



Social events

The welcome reception will be held at the Diamond Auditorium on October 7th after the opening ceremony.

The social event will be held at the Slaviero Hotel (Rua das Gaivotas, 1114 - Ingleses) on October 10th from 19h30min.

CIPOA experience is a free time in which you can do different activities on demand. Check the website and observe the conditions.

A special coffee break (sponsored by Elsevier) will be held in Auditorium on October 11th.

Tour options for pre or post event

Jo Cintra Agency (Events Department)

E-mail: eventos@jocintra.com.br

Telephone: +55 (48) 3131-8100

WhatsApp: +55 (48) 9.9188-1278

Important recommendations

- 🔪 Your belongings are your responsibility. The event organizers are not responsible for loss or misplacement.
- 🔪 To avoid inconvenience, please do not leave bags, briefcases or other personal belongings behind when you leave for breaks or meals.
- 🔪 During congress sessions, we ask that cell phones and electronic devices be set to silent or turned off.
- 🔪 Respect the session times to ensure the smooth running of the event.
- 🔪 Avoid entering or leaving the rooms during presentations to avoid interrupting the speakers.
- 🔪 Smoking is prohibited in the indoor areas of the event.
- 🔪 Wi-fi is available in all areas of the event.
- 🔪 In case of emergency, go to the secretariat for instructions.



MONDAY, OCTOBER 7th –DIAMOND AUDITORIUM



18:00 – 18:20h	Opening session Regina Peralta Moreira (VI CIPOA Chairwoman)
18:20 – 18:25h	CIPOA Awards Chair: Vítor Vilar
18:25 – 18:40h	Early career researcher (ECR) award Maria Francisca Moreira Chair: Vítor Vilar
18:40 – 18:55h	Award for distinguished scientific research in the fields of CIPOA - Marta Litter Chair: Cíntia Soares
18:55 – 19:10h	Award for distinguished education and knowledge dissemination in the fields of CIPOA Márcia Walquíria de Carvalho Dezotti Chair: Camila Costa de Amorim
19:10 – 19:25h	Award for distinguished career/excellence in implementation and practice in the fields of CIPOA Santiago Esplugas Chair: Renato Falcão Dantas
19:25 – 20:00h	Tribute to Dionysios Dionysiou Chair: Gianluca Li Puma
20:00 – 22:00h	Welcome reception

TUESDAY, OCTOBER 8th

PLENARY –DIAMOND AUDITORIUM Chair: Camila Costa de Amorim; Co-Chair: Cintia Marangoni	
08:30 – 09:10h	Merits and Limitations of Various Advanced Oxidation Processes for PFAS Degradation Plenary Speaker: Pedro Alvarez (Rice University, USA)

AGATA 2 ROOM – ORAL COMMUNICATIONS 1 Chair: Héctor Valdés Morales; Co-chair: Maria Alice Cechinel	
09:15 – 09:34h ID 18083	Sidestream ozone injection system based on NETmix technology for water treatment. Vítor Vilar (19 min)
09:34 – 09:46h ID 18914	Ozone nanobubbles for controlled harmful algal blooms mitigation in the environment. Jesús Morón López (12 min)
09:46 – 09:58h ID 17416	Hydrogen peroxide continuous dosage in the photo-Fenton process: Comparative study between lab-scale and solar reactor. Agustina Violeta Schenone (12 min)
09:58 – 10:10h ID 18531	Continuous degradation of antibiotics using sequential DBD plasma with 3-electrode Fenton electrolysis. Min Jang (12 min)
TOPAZ 1 ROOM – ORAL COMMUNICATIONS 2 Chair: Reyna Natividad-Rangel; Co-chair: Maíra Mallmann	
09:15 – 09:34h ID 19498	Replacing oxygen evolution reaction in water splitting process by produced water electrolysis with co-generation of green hydrogen: From wastewater to the future of the energetic industry. Carlos A. Martínez-Huitle (19 min)
09:34 – 09:46h ID 18728	Exsolution in $\text{LaNi}_x\text{Fe}_{1-x}\text{O}_3$ perovskite films for photocatalytic reform of H_2 . Sarah Mozzaquatro Pasini/Sérgio Gomez (12 min)

09:46 – 09:58h ID 17055	Single-step S/N-doped biochar from banana peel as green catalyst for water-splitting. Aida Maria Diez (12 min)
09:58 – 10:10h ID 18940	Effect of CeO ₂ morphology (cubs, rods and polyhedra) on the photocatalytic performance of Pd-TiO ₂ for hydrogen production. Uriel Caudillo-Flores (12 min)
TOPAZ 2 ROOM – ORAL COMMUNICATIONS 3 Chair: Maria Carla Starling; Co-Chair: Luciana Prazeres Mazur	
09:15 – 09:34h ID 17614	Green electrocatalytic wastewater refinery to synthesize value-added products by electro-Fenton degradation of acetaminophen. Hugo Olvera-Vargas (19 min)
09:34 – 09:46h ID 18187	Visible light-driven selective C-C cleavage of glycerol into formic acid using ni-poly(heptazine) imide. José Balena Gabriel (12 min)
09:46 – 09:58h ID 17392	Photocatalytic recycled membranes for municipal wastewater treatment: An economical evaluation. Caique Prado Machado de Oliveira (12 min)
09:58 – 10:10h ID 16818	Effect of deep eutectic solvents and organic acids use during the electrodialytic lithium extraction from aluminum-lithium alloy waste. Joana Almeida (12 min)
ROOM DIAMOND – ORAL COMMUNICATIONS 4 Chair: José Geraldo de Andrade Pacheco Filho; Co-chair: Sérgio Gonzalez	
09:15 – 09:34h ID 18237	Development of SiO ₂ /TiO ₂ nanostructured aerogel photocatalysts for environmental applications. Elias Paiva Ferreira Neto (19 min)
09:34 – 09:46h ID 16998	Combined oxidation process for antibiotic degradation using an environmental friendly multi-walled carbon nanotube. Melissa Vieira (12 min)

09:46 – 09:58h ID 19037	Solar redox flow cell: Cutting-edge technology for the production of cost-competitive solar fuels. Paula Dias (12 min)
09:58 – 10:10h ID 17602	BDD modified with bismuth oxyiodide quantum dots: Application in photoelectrochemical water remediation and hydrogen production. Patricio Javier Espinoza-Montero (12 min)

10:10 – 10:45h	COFFEE BREAK AND POSTER SESSION OCT 8th
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AGATA 2 ROOM 1 – SHORT ORAL COMMUNICATIONS 1 Chair/Evaluators: Maria Alejandra Ayude and Mariane Proner	
10:45 – 10:50h ID 18716	Ozonation as a pretreatment to increase the energy recovery potential of sewage sludge: A bench study with biotrickling filter sludge. Fernanda Bento Rosa Gomes
10:50 – 10:55h ID 18368	Electrospun CoFe ₂ O ₄ /LaMnO ₃ nano-heterostructures for low temperature photothermal catalytic degradation of toluene. Anifat Adenike Bankole
10:55 – 11:00h ID 16697	Antimicrobial and photocatalytic activity of BiVO ₄ thin films targeting water treatment. Guenther Viana
11:00 – 11:05h ID 16795	Generation of persulfate applying a novel electrochemical flow reactor with a NETmix static mixer. Agustina Raquel de Olivera
11:05 – 11:10h ID 17902	Removal of drugs from sewage treatment plant effluents by electrocoagulation coupled to photolysis with aeration. Luiz Thiago Vasconcelos da Silva
11:10 – 11:15h ID 17113	Sonochemical catalytic removal of antibiotics using converging ultrasound and cavitation agent with life cycle assessment. Zhiyuan Zong

11:15 – 11:20h ID 18712	Brown TiO ₂ structured catalyst supported on SiC for ethanol photo-reform using visible light. Ana Lucia de Souza Niero
11:20 – 11:25h ID 16993	Poultry slaughterhouse wastewater treatment using UV/H ₂ O ₂ process: effects on meta plasmidome and removal of antibiotic resistance genes. Beatriz Oliveira de Farias
11:25 – 11:30h ID 17358	Deep learning study for the photodegradation of a binary mixture in a heterogeneous catalyst of copper oxide nanoparticles supported onto nanozeolite. Leandro Rodrigues Oviedo
TOPAZ 1 ROOM – SHORT ORAL COMMUNICATIONS 2 Chairs/Evaluators: Julie Joseane Murcia Mesa and Leticya Laís Coelho	
10:45 – 10:50h ID 17025	Continuous-flow carbamazepine removal from contaminated wastewater by hybrid enzymatic photo-oxidative treatment. Natalia Klanovicz
10:50 – 10:55h ID 17554	Selection and pre-design of tertiary treatment technologies for wastewater from the flexographic industry. Isadora Luiza Climaco Cunha
10:55 – 11:00h ID 17492	Ciprofloxacin degradation using WO ₃ modifying carbon GDEs under photoelectro-Fenton process. João Paulo Carvalho Moura
11:00 – 11:05h ID 16812	A novel electrochemical flow reactor with improved mass transfer – The e-NETmix. Leonardo Almeida Delgado
11:05 – 11:10h ID 17475	(CoFeNiMnCr) ₃ O ₄ high entropy oxide: innovative synthesis route and application in electrocatalysis. Barbara Ljubec Božiček/Miran Čeh
11:10 – 11:15h ID 17382	Photoactivity of samarium modified TiO ₂ under UV-A radiation for the degradation of emerging contaminants in wastewater. Raíssa Braga
11:15 – 11:20h ID 17248	Advanced multiple barrier system for urban wastewater reuse: disinfection and toxicity. Iure Bernardino de Sousa

11:20 – 11:25h ID 17459	Design and implementation of a novel electrochemical microreactor for treating contaminated brines. Luana Sarinho
11:25 – 11:30h ID 17088	Manganese ferrite and reduced graphene oxide photocatalyst supported on bone char for hydroxychloroquine removal. Maria Eliana Ferreira
TOPAZ 2 ROOM– SHORT ORAL COMMUNICATIONS 3 Chairs/Evaluators: Hugo Olvera-Vargas and Natan Padoin	
10:45 – 10:50h ID 17135	Hydrogen peroxide on-site electrogeneration combined with UV process for degradation of pharmaceutical products in water. Raíssa Engroff Guimarães
10:50 – 10:55h ID 17047	Photocatalyst immobilization on vegetable-tanned bovine leather: A methodology development. Fernanda Vargas Silva
10:55 – 11:00h ID 18373	Enhanced removal of sulfonamides using heterogeneous Fenton processes coupled with basic activated biochar adsorption. Lukas Gomes Gadelha Vieira Santos
11:00 – 11:05h ID 17313	The impact of antibiotics in aquatic environments and the efficacy of Fenton-based processes for their removal. Thais De Andrade Costa
11:05 – 11:10h ID18856	Enhancing photocatalytic and bactericidal activity post-illumination of WO ₃ /TiO ₂ heterojunction. Gabriela Zanchettin
11:10 – 11:15h ID 17530	Optimizing photocatalytic activity of biodegradable PHB-TiO ₂ films: proposing a double layer structure. Lucas Capello
11:15 – 11:20h ID 18637	CuInS ₂ quantum dots as photocatalysts for heterogeneous photocatalysis of organic pollutants assisted by flow injection analysis. Cecília Balduino da Silva
11:20 – 11:25h ID17180	Biologically activated carbon (BAC) combined with a solar Fenton-based process to treat municipal wastewater containing gestodene (GES). Natalia Klanovicz
11:25 – 11:30h ID 17183	Synthesis and evaluation of Fe ₃ O ₄ @HDL@Ag/Ag ₃ PO ₄ composites for photocatalytic degradation of acetaminophen. Fabiano Scolfaro Cheri

DIAMOND AUDITORIUM– SHORT ORAL COMMUNICATIONS 4

Chairs/Evaluators: Hugo Alarcon and Agenor de Noni Jr

10:45 – 10:50h ID 17404	O ₃ /BAC filter performance to remove organophosphates and toxicity during urban wastewater treatment. Iure Bernardino De Sousa/Jacqueline Malvestiti
10:50 – 10:55h ID 18942	Indoor biological air pollutants removal by photocatalysis. Andrea Daniela Negrete Muñoz
10:55 – 11:00h ID 17526	Performance analysis of pure MIL-53(Fe) MOF and immobilized on chitosan beads for catalytic ozonation of organic contaminants. Natalia Gabriele Camparotto
11:00 – 11:05h ID 18197	Promising pollutant removal using FEL-impregnated polymeric membrane. Larissa Carreiro De Souza
11:05 – 11:10h ID 17335	Simultaneous degradation of azithromycin, clarithromycin, and sulfamethoxazole in WWTP effluent applying heterogeneous photo-Fenton process. Matheus Gabriel Guardiano
11:10 – 11:15h ID 17334	Gd-BiVO ₄ photoanode as catalyst for ciprofloxacin and sulfamethoxazole degradation through solar photoelectrocatalysis. Matheus Gabriel Guardiano
11:15 – 11:20h ID 17301	Efficiency of the catalytic ozonation with Fe foam catalyst for naproxen degradation. George Luis Morejón Aguil
11:20 – 11:25h ID 18966	Integration of UV/H ₂ O ₂ with membrane bioreactor for ethinylestradiol removal. Meliza J C Fonseca
11:25 – 11:30h ID 17525	Removal of model mixture by ozone and CeO ₂ /MnO ₂ . Itzany Janet De La Cruz Salazar

PLENARY –DIAMOND AUDITORIUM

Chair: Carlos Alberto Martinez-Huitle; Co-chair: Elias Paiva Ferreira Neto

11:35 – 12:15h	On the way of increasing TRL in electrochemical advanced processes Keynote speaker: Manuel Rodrigo (University of Castilla-La Mancha, Spain)
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12:15 – 14:00h	LUNCH
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PLENARY –DIAMOND AUDITORIUM Chair: Fiderman Machuca; Co-chair: Renato Falcão	
14:00 – 14:40h	Applications of X-ray Photoelectron Spectroscopy for Catalytic and Photocatalytic Studies Plenary Speaker: Enrique Rodriguez-Castellón (University of Málaga, Spain)

AGATA 2 ROOM – ORAL COMMUNICATIONS 5 Chair: Márcia Walkíria de Carvalho Dezotti; Co-Chair: Cintia Marangoni	
14:45 – 15:04h ID 18526	Jet-plasma catalysis system development for perfluorooctanoic acid removal: Mechanism studies via in-situ Raman spectroscopy analysis. Choe Earn Choong (19 min)
15:04 – 15:16h ID 17225	Suspect screening analysis of chlorinated antibiotics transformation products in water samples from tertiary treatment processes in Spain: The use of purpose-built database and (Q)SAR predictions. Carla Sirtori (12 min)
15:16 – 15:28h ID 20238	Recent developments on the EC-STM-TERS setups: Characterization of nitrobenzene-based self-assembled monolayer. Alice Fiocco (12 min)
15:28 – 15:40h ID 16955	Evidences of the effect of chemical surface sites of natural and cobalt-modified natural zeolite during the abatement of ozone emissions using drifts <i>operando</i> studies. Héctor Valdés (12 min)
TOPAZ 1 ROOM – ORAL COMMUNICATIONS 6 Chair: Cláudia Bianchi; Co-chair: Agenor de Noni Jr	
14:45 – 15:04h ID 17532	Radiolytic degradation of glyphosate in aqueous solution by Co-60 gamma radiation in the presence of hydrogen peroxide. Florinella Muñoz Bisesti (19 min)

15:04 – 15:16h ID 18674	Assisting the natural-based treatment of harvested rainwater by UVC photocatalytic processes. Daphne Hermosilla (12 min)
15:16 – 15:28h ID 18529	Valorization of sewage sludge on the development of metal-based hydrochar for catalytic ozonation of emerging contaminants. Rodrigo Pereira Cavalcante (12 min)
15:28 – 15:40h ID 18513	Photoelectro-reduction of nitrates from flexible Cu ₂ O/ITO/PET photoelectrodes. Katherina Changanauqui (12 min)
TOPAZ 2 ROOM– ORAL COMMUNICATIONS 7 Chair: Jorge Vazquez-Arenas; C-chair: Vivian Madeira	
14:45 – 15:04h ID 20741	Concomitant advanced oxidation process with CO ₂ electro-reduction with reticulated electrodes. Gabriela Roa (19 min)
15:04 – 15:16h ID 17535	CO ₂ photo-reduction over (Al, Cu and Fe) – pillared interlayer clay catalysts. Rosaura Peña (12 min)
15:16 – 15:28h ID 18706	Glycerol valorization over Cu and Pt catalysts under a thermal controlled photocatalytic reaction. Bruno Cesar Barroso Salgado (12 min)
15:28 – 15:40h ID 17064	Reactor engineering for the photoelectrochemical performance optimization in CO ₂ reduction to methanol and isopropanol. Jéssica Ariane De Oliveira (12 min)
DIAMOND AUDITORIUM – ORAL COMMUNICATIONS 8 Chair: Hugo Alarcon; Co-chair: Elias Paiva Ferreira Neto	
14:45 – 15:04h ID 17546	Modeling the radiation transfer in rectangular slurry photocatalytic using the six-flux model 2-dimensional (2-D) approach. Gianluca Li Puma (19 min)
15:04 – 15:16h ID 17461	Optimization of the flow in photoelectrocatalytic cells for water treatment. Cintia Casado/Javier Marugan (12 min)
15:16 – 15:28h ID 18259	Micropillar photocatalytic reactor modeling: Investigation of LEDs-to-reactor distance. Cíntia Soares (12 min)

15:28 – 15:40h ID 17345	Tuning Nb ₂ O ₅ nanoparticles' specific surface area by a machine learning approach for application in heterogeneous photocatalysis. Maurício Dalla Costa Rodrigues da Silva (12 min)
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15:45 – 16:20h	COFFEE BREAK AND POSTER SESSION OCT 8th
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PLENARY – DIAMOND AUDITORIUM	
16:20 – 16:55h	Identification of organic micropollutants degradation products in the aquatic environment by high resolution mass spectrometry Keynote speaker: Felix Javier Hernandez (Jaume I University, Spain) Chair: Carla Sirtori; Co-chair: Fernanda Fraga
16:55 – 17:30h	Elucidation of reaction mechanisms in Advanced Oxidation Processes: Synergy of steady state and fast reaction techniques Keynote speaker: C T Aravindakumar (Mahatma Gandhi University, India) Chair: Renato Falcão Dantas; Co-chair: Júlia Salla

18:00 – 18:40h	ISC - CIPOA Meeting (only for members)
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WEDNESDAY, OCTOBER 9th

PLENARY – ROOM DIAMOND

Chair: Ricardo Antonio Torres-Palma; Co-chair: Jéssica de Matos Fonseca

08:30 -09:10h	Innovative Floating Photocatalysts for Sunlight Harvesting: Towards a Sustainable Water Remediation, Healthier Lives, and Reduced Environmental Impact for Remote Communities Plenary Speaker: Cláudia Bianchi (University of Milan, Italy)
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AGATA 2 ROOM – ORAL COMMUNICATIONS 9 - OCTOBER 9th

Chair: Amilcar Machulek; Co-chair: Agenor de Noni Jr

09:15 – 09:34h ID 17019	Carbon-boosted stability of Cu-based catalysts for solar driven photocatalysis. Juan Matos Lale (19 min)
09:34 – 09:46h ID 17618	Graphitic carbon nitride rare-earth and transition metal doping for enhanced photocatalytic degradation of contaminants. Rui C Martins (12 min)
09:46 – 09:58h ID 17365	3D-printed carbon nanotubes-based catalysts and their stability for oxalic acid ozonation. Salomé Soares (12 min)
09:58 – 10:10h ID 17424	Effect of N and Fe ₃ O ₄ on BiOBr for photocatalytic degradation of endocrine disruptors. Minerva Villanueva-Rodriguez (12 min)

TOPAZ 1 ROOM – ORAL COMMUNICATIONS 10 - OCTOBER 9th

Chair: Agenor de Noni Jr; Co-chair: Daniela Gier Della Rocca

09:15 – 09:34h ID 17057	Enhanced UVC/H ₂ O ₂ applied for the degradation of benzotriazole in real aquatic matrices using Printex I6 carbon-based gas diffusion electrode. Marcos R. V. Lanza (19 min)
09:34 – 09:46h ID 17221	Uncovering electrochemical removal mechanisms in the remediation of emerging organic contaminants from a clay soil. Nazaré Couto (12 min)

09:46 – 09:58h ID 17091	Electrochemical reactor for effluent treatment: Removal of contaminants of emerging concern and <i>Escherichia coli</i> . Paula Guedes (12 min)
09:58 – 10:10h ID 17476	Kinetics and efficiency analysis of the photocatalytic degradation of two pharmaceuticals in a UV-LED reactor. Maria Lucila Satuf (12 min)
TOPAZ 2 ROOM – ORAL COMMUNICATIONS 11 - OCTOBER 9th Chair: Aracely Ramírez; Co-chair: Emmanoelle Diz Acosta	
09:15 – 09:34h ID 18970	Obtaining short chain hydrocarbons through photocatalytic CO ₂ reduction using cobalt doped TiO ₂ . Diana Andrea Nolasco Guerrero (19 min)
09:34 – 09:46h ID 18960	Photocatalytic degradation of propranolol hydrochloride by Fe ₃ O ₄ @TiO ₂ core-shell under UV-light. Gustavo Lopes Colpani (12 min)
09:46 – 09:58h ID 17360	Immobilized WO ₃ -Ag-AgCl photocatalyst for the degradation of pharmaceutical contaminants in a continuous flat plate photochemical reactor. Geovânia Cordeiro de Assis (12 min)
09:58 – 10:10h ID 17085	Solar-powered elimination of ciprofloxacin utilizing binary ZnO-based nanomaterial from aquatic environment. Nina Finčur (12 min)
DIAMOND AUDITORIUM – ORAL COMMUNICATIONS 12 - OCTOBER 9th Chair: Maria Cristina Canela; Co-chair: Jéssica Matos Fonseca	
09:15 – 09:34h ID 19023	Evidencing a dual synergistic effect of peroxymonosulfate as an activated substance and activating agent through non-radical pathways in sonocarbocatalytic processes. Ricardo Antonio Torres-Palma (19 min)
09:34 – 09:46h ID 18947	Removal of contaminants of emerging concern, disinfection, and antibiotic-resistant bacteria in UASB system effluent at natural pH by modified solar photo-Fenton with Fe ³⁺ -EDDS. Fernando Rodrigues-Silva (12 min)

09:46 – 09:58h ID 17402	Low-cost Fenton catalyst for the removal of adsorbable organic halides from industrial wastewater. João Peres Ribeiro (12 min)
09:58 – 10:10h ID 18913	Degradation pathways elucidation of the antibiotic imipenem by hybrid sono-photo-Fenton process. Jessica Nieto-Juarez (12 min)

10:15 – 10:45h	COFFEE BREAK AND POSTER SESSION OCT 9th
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AGATA 2 ROOM – SHORT ORAL COMMUNICATIONS 5 - OCTOBER 9th Chairs/Evaluators: Lucila Doumic and Rui Carlos Cardoso Martins	
10:45 – 10:50h ID 17509	Reduction of phytotoxicity in a multi-contaminant solution treated by electrochemical advanced oxidation. Camila Fernanda Zorzo
10:50 – 10:55h ID 17341	Photocatalytic degradation of atenolol with Nb and Ti-based supported nanocatalyst and doped with phosphorus. Daniel Moro Druzian
10:55 – 11:00h ID 17445	Unraveling the underlying chemistry enhancing the HOCl and •OH yields on Ru-based anodes in electrochemically assisted photolysis. Angel Eduardo Yañez-Rios
11:00 – 11:05h ID 17499	Photocatalysis of ciprofloxacin using composite g-C ₃ N ₄ /PANI. Diana Magallanes Galan
11:05 – 11:10h ID 18285	Study of Fenton systems in acetic acid for the oxidation of bonds between phenylpropane units in a lignin model. Grace Carilao
11:10 – 11:15h ID 18755	Ni-foam bifunctional catalyst for degradation of clofibrac acid by catalytic ozonation. Daynahi Franco Pelaez
11:15 – 11:20h ID 17442	Degradation of the drug prednisone in aqueous solution by combined ozonation and photolysis (O ₃ /UV). Paulo Ricardo Amador Mendes

11:20 – 11:25h ID 18298	Taking advantage of peroxymonosulfate in diverse oxidation processes for the degradation of pharmaceuticals in water. Efraím A. Serna-Galvis
11:25 – 11:30h ID 17136	Advanced UV-C/Cl oxidation as an alternative for emerging contaminants removal on potabilization treatment plants. Suzan Costa Zilli
TOPAZ 1 ROOM – ORAL COMMUNICATIONS 13 - OCTOBER 9th Chair: Araceli Hernández Ramírez; Co-chair: Darliana Mello Souza	
10:45 – 11:00h ID 17340	Hydrothermal liquefaction of coffee pulp wastes: Effect of ozonolysis pretreatment and operating conditions on biocrude yield. Jose Esteban Duran (15 min)
11:00 – 11:15h ID 17124	Degradation of carotenoids from annatto dye industry effluent by ozonation. André Luís de Castro Peixoto (15 min)
11:15 – 11:30h ID 17407	Endocrine disrupting compounds mixture degradation using MOF235(Fe)-derived α -Fe ₂ O ₃ /ZnO: Ecotoxicological assessment. Laura Hinojosa-Reyes (15 min)
TOPAZ 2 ROOM – ORAL COMMUNICATIONS 14 - OCTOBER 9th Chair: Lourdes Hurtado; Co-chair: Emanuelle Acosta	
10:45 – 11:00h ID 17449	Application of the UV/chlorine process in the treatment train for water reuse: Impact on aldehydes removal. Sandra Contreras (15 min)
11:00 – 11:15h ID 17444	Treatment of domestic wastewater from northern Mexico city including recalcitrant compounds using coagulation/flocculation and UV254 photo-assisted electrochemical process. Jorge Vazquez-Arenas (15 min)
11:15 – 11:30h ID 17965	Vanadium oxide based materials in advanced oxidation processes (AOPs): State of the art and future perspectives. Maria Olga Guerrero Perez

PLENARY – ROOM DIAMOND

Chair: Ana Rita Lado; Co-chair: Raquel Pupo Nogueira

11:35 – 12:15h

TiO₂ photocatalytic removal of hexavalent chromium and arsenic

Keynote Speaker: Marta Litter (National University of San Martin, Argentina)

12:15 – 14:00h

LUNCH

14:00 – 18:00h

CIPOA EXPERIENCE

(see more: <https://cipoa.org/site/6cipoa/cipoa-experience>)

(Free time)

THURSDAY, OCTOBER 10th

PLENARY – ROOM DIAMOND

Chair: Frederic Violleau; Co-Chair: Sérgio Yesid Gomez

08:30 – 09:10h	Global warming, energy transition and sustainable agriculture: The role of photocatalytic materials in shaping the future Plenary Speaker: Cauê Ribeiro (EMBRAPA, Brazil)
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AGATA 2 ROOM – ORAL COMMUNICATIONS 16

Chair: José Roberto Guimarães; Co-chair: Júlia Salla

09:15 – 09:34h ID 17243	Enhancing pesticide degradation at neutral pH using TiO ₂ photocatalyst modified with ferric chlorophyllin. Louidi Lauer Albornoz (19 min)
09:34 – 09:46h ID 17507	Evaluation of carbonaceous materials coupled with TiO ₂ for the coliform bacteria removal. Mónica Sirley Hernández Laverde/Julie Murcia Mesa (12 min)
09:46 – 09:58h ID 17460	Photodegradation of CECs in urban wastewater: Comparative study of light-driven AOPs in a FluHelik photoreactor. Maria J. Rivero (12 min)
09:58 – 10:10h ID 17350	Photocatalytic removal of phenol using composites of activated carbon and ferrous oxalate derived from ecuadorian black sands. Victor Hugo Guerrero/Paul Vargas (12 min)

TOPAZ 1 ROOM – ORAL COMMUNICATIONS 17

Chair: Florinella Muñoz Bisesti; Co-chair: Natan Padoin

09:15 – 09:34h ID 18080	Generation of H ₂ as renewable energy from cobalt doped ZnS as photocatalyst under UV light irradiation. Angeles Mantilla (19 min)
09:34 – 09:46h ID 19453	Heterogeneous electro-Fenton using a printex l6 carbon-based cathode modified with ferrocene for degradation of paracetamol at neutral medium. Gessica de Oliveira Santiago Santos (12 min)

09:46 – 09:58h ID 19109	Strontium-modified titanate nanowires for the photocatalytic oxidative removal of emergent pollutants from water. Olinda C. Monteiro (12 min)
09:58 – 10:10h ID 17326	Electrochemical degradation for soil treatments: PFAs in focus. Juliana Mendonça Silva de Jesus (12 min)
TOPAZ 2 ROOM – ORAL COMMUNICATIONS 18 Chair: Gabriela Roa Morales; Co-chair: Fernanda Fraga	
09:15 – 09:34h ID 17006	Toluene total catalytic oxidation by heterogeneous catalysts: The synergic effect between cobalt and Mn in a 3DOM system. Alfonso Enrique Ramirez (19 min)
09:34 – 09:46h ID 18864	Enhancing TiO ₂ heterogeneous photocatalysis for air cleaning: alkaline modification of sisal fiber supports. Maria Cristina Canela (12 min)
09:46 – 09:58h ID 17451	Air flow and potential NO _x degradation through photocatalytic walls at URJC university campus buildings. Cintia Casado/Javier Marugan (12 min)
09:58 – 10:10h ID 17065	Degradation of gaseous toluene by heterogeneous Fenton using macro structured catalysts. Luís Miguel Madeira/Olívía Salomé Soares (12 min)
ROOM DIAMOND – ORAL COMMUNICATIONS 19 Chair: Patricio Javier Espinoza-Montero; Co-chair: Elias Paiva Ferreira Neto	
09:15 – 09:34h ID 21746	Diverse mechanisms of oxidative stress mitigation in microorganisms: Insights and future applications. Jeppe L Nielsen (19 min)
09:34 – 09:46h ID 17062	Modeling polystyrene nanoplastics degradation in water via photo-Fenton treatment: A shrinking-core approach. Carla Di Luca (12 min)
09:46 – 09:58h ID 17089	Photodegradation of hydroxychloroquine using manganese ferrite and reduced graphene oxide supported on bone char. Natália Ueda Yamaguchi (12 min)

09:58 – 10:10h ID 18023	Incorporation of polydopamine and TiO ₂ in PVDF membrane for photocatalytic effect in oil/water separation. Anderson Felipe Viana da Silva (12 min)
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10:10 – 10:45	COFFEE BREAK AND POSTER SESSION OCT 10th
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ROUND TABLE 1 –DIAMOND AUDITORIUM <i>The Challenges of University- Industry Interaction</i> Q/A - Moderator: Javier Marugán; Co-chair: Maíra Mallmann	
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10:45 – 11:00h	Role of AOPs in wastewater reuse treatment solutions: Implementation of EU-Reuse Regulation. Achim Ried (Xylem, Germany)
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11:00 – 11:15h	Ozone applications in agriculture and agrifood Frederic Violleau (Purpan Engineering School, France)
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11:15 – 11:30h	The Challenges of University-Industry Interaction: Perspectives and Opportunities in the Implementation of Advanced Oxidation Technologies Silvio Weschenfelder (Petrobras, Brazil)
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11:30 – 11:45h	Technology transfer: From bench to the market Daniel Veras (Federal University of Bahia, Brazil)
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11:45 – 12:15h	Q/A – Moderator: Javier Marugán
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12:15 – 14:00h	LUNCH
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PLENARY –DIAMOND AUDITORIUM Chair: Javier Marugán; Co-chair: Cíntia Soares	
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14:00 – 14:40h	Decarbonization of the chemical industry through electrification: Barriers and opportunities Plenary Speaker: Miguel Modestino (New York University, USA)
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AGATA 2 ROOM – ORAL COMMUNICATIONS 20 Chair: Daphne Hermosilla; Co-chair: Fernanda Fraga	
14:45 – 15:04h ID 17001	Effect of radiation intensity and storage conditions on bacterial regrowth patterns. Miguel Martin Somer (19 min)
15:04 – 15:16h ID 18014	Organic pollution in water due to gold mining: A preliminary assessment of a possible AOP-based strategy to reduce/mitigate pollution. Paul Vargas Jentsch (12 min)
15:16 – 15:28h ID 18524	Highly selective photocatalytic oxidation of veratryl alcohol by band structure modulation of Bi ₄ Ti ₃ O ₁₂ through heterojunctions. Juan Camilo Murillo-Sierra (12 min)
15:28 – 15:40h ID 17450	Cathode modification for PFOA electrochemical degradation: Boosting molecule defluorination. Alicia L. Garcia-Costa (12 min)
TOPAZ 1 ROOM – ORAL COMMUNICATIONS 21 Chair: Ricardo Torres; Co-chair: Alcilene Fritz	
14:45 – 15:04h ID 18528	Fe-based hydrochar from sewage sludge waste for bisphenol-s removal by Fenton oxidation. Julia Nieto-Sandoval (19 min)
15:04 – 15:16h ID 19057	Thermal stability of TiO ₂ supported on kaolinite for application in ceramic tiles. Agenor de Noni Júnior (12 min)
15:16 – 15:28h ID 17465	Hydrodynamic cavitation for degradation of a reactive dye: Influence of auxiliaries. Maria Alejandra Ayude (12 min)
15:28 – 15:40h ID 21152	Controlled advanced electro-oxidation for removal of dissolved WSO fraction from produced water. Giuseppe Sampaio Almeida Cardoso (12 min)
TOPAZ 2 ROOM – ORAL COMMUNICATIONS 22 Chair: Olívia Salomé Pinto Soares; Co-chair: Elias Paiva Ferreira Neto	
14:45 – 15:00h ID 18525	Simulation for absorbed dose assessment, a gate for planning and evaluating new gamma-ray treatments. Roque Antonio Santos Torres (15 min)

15:00 – 15:15h ID 18496	Investigating the impact of gas fraction on photon transport in Taylor-flow reactors. Gabriela Xavier Oliveira (15 min)
15:15 – 15:30h ID 17495	Statistical analysis validates an electro-sanitation system for onboard urine treatment in buses. Raul José Alves Felisardo (15 min)
15:30 – 15:45h ID 17408	Exploring the efficiency of AOPs based on hydroxyl and sulfate radicals in brines treatment: Challenges and opportunities. Maria Isabel Nunes (15 min)
DIAMOND AUDITORIUM – ORAL COMMUNICATIONS 23 Chair: Sérgio Yesid Gomez; Co-chair: Júlia Salla	
14:45 – 15:04h ID 18473	Comparison of different TiO ₂ samples as photocatalyst for the degradation of carbaryl in a pilot plant reactor. Ariadna Alicia Morales Pérez (19 min)
15:04 – 15:16h ID 17155	Synergistic adsorption-photocatalysis process in the removal of nicosulfuron by a novel hybrid biomass@LDH/MOF nanocomposite. Joan Manuel Rodríguez-Díaz (12 min)
15:16 – 15:28h ID 18943	Mesoporous nanocrystalline TiO ₂ deposited on bacterial nanocellulose membrane scaffolds through a low-temperature method: An active membrane for methylene blue photocatalytic degradation. Melissa Méndez-Galván (12 min)
15:28 – 15:40h ID 17888	Removal of arsenic (iii) in drinking water using bismuth oxyiodide (BiOI) and scallop shell waste. Adriana C Mera (12 min)

15:45 – 16:20h	COFFEE BREAK AND POSTER SESSION OCT 10th
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PLENARY – ROOM DIAMOND

16:20 – 16:55h	<p>Hybrid methods for the optimization of photo- and electrochemical reactors</p> <p>Keynote Speaker: Natan Padoin (Federal University of Santa Catarina, Brazil)</p> <p>Chair: Gianluca Li Puma; Co-chair: Maíra Mallmann</p>
16:55 – 17:30h	<p>Cutting-edge electrochemical technologies for the production of value-added substances</p> <p>Keynote speaker: Maria Francisca Moreira (University of Porto, Portugal)</p> <p>Chair: Vítor Vilar; Co-chair: Giovanni Palmisano</p>

18:00 – 18:45h	ABPOA Meeting (only for members)
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18:45 – 19:30h	Free time
19:30 – 22:00h	Dinner/Party

FRIDAY, OCTOBER 11th

EXHIBITION AREA	
08:00 – 08:30h	<p>COFFEE WITH EDITORS</p> <p>Special Coffee-Break sponsored by Elsevier</p> <p>Chair: Regina de Fatima Peralta Muniz Moreira</p>

PLENARY – DIAMOND AUDITORIUM	
08:30 – 09:00h	<p>Opening Remarks</p> <p>Chair: Despo Fatta-Kassinou (University of Cyprus, Cyprus)</p>
09:00 – 09:20h	<p>Elsevier´s Article Transfer Service and Its Impact on Environmental and Chemical Engineering Journals</p> <p>Speaker: Giovanni Palmisano (Professor at Khalifa University and Executive Editor of the Journal of Environmental Chemical Engineering, Elsevier)</p> <p>Speaker: Leticia Coelho (Scientific Managing Editor at Elsevier)</p>
09:20 – 10:00h	<p>Questions and Answers</p> <p>Roundtable members</p> <ul style="list-style-type: none"> • Ana Rita Lado Ribeiro: Executive Editor of the Chemical Engineering Science • Camila Costa Amorim: Editor of the Chemical Engineering Science • Cíntia Marangoni: Editor of the Separation and Purification Technology • Cíntia Soares: Social Media Editor of the Chemical Engineering Science • Daphne Hermosilla: Editor – Chemical Engineering Journal Advances • Despo Fatta-Kassinou: Executive Editor of the Journal of Environmental Chemical Engineering and Editor of the Water Research • Gianluca Li Puma: Editor of the Applied Catalysis B: Environmental • Giovanni Palmisano: Executive Editor of the Journal of Environmental Chemical Engineering

	<ul style="list-style-type: none"> • Hugo Olvera-Vargas: Associate Editor of Journal of Environmental Chemical Engineering • Javier Marugán: Editor of Journal of Environmental Chemical Engineering • Leticya Lais Coelho: Scientific Managing Editor at Elsevier • Maria Francisca da Costa Moreira: Member of the Early Career Editorial Board of the Journal of Environmental Chemical Engineering • Natan Padoin: Editor of the Chemical Engineering Journal • Ricardo Torres-Palma: Editor of Journal of Environmental Chemical Engineering • Suresh Pillai: Executive Editor of the Chemical Engineering Journal • Vitor Villar: Executive Editor of the Journal of Environmental Chemical Engineering
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PLENARY – DIAMOND AUDITORIUM

Chair: Hugo Olvera-Vargas; Co-chair: Débora de Oliveira

10:00 – 10:35h	<p>Revealing the by-products formed during ozonation and its consequences</p> <p>Plenary speaker: Márcia Walquíria de Carvalho Dezotti (Federal University of Rio de Janeiro, Brazil)</p>
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10:40 – 11:15h	COFFEE BREAK + POSTER SESSION OCT 11th
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PLENARY – DIAMOND AUDITORIUM

Chair: Suresh Pillai; Co-chair: Tatyana Poznyak

11:15 – 11:55h	<p>The Role of Ozonation in Environmental Protection and Human Health: A Comparative Analysis between Iberoamerica and the Rest of the World</p> <p>Keynote speaker: Renato Falcão Dantas (State University of Campinas, Brazil)</p>
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12:15 – 14:00h	LUNCH
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PLENARY – DIAMOND AUDITORIUM Chair: Dachamir Hotza	
14:00 – 14:45h	Perspectives on Advanced Oxidation Processes for Water and Wastewater Treatments Plenary speaker: Santiago Esplugas (University of Barcelona, Spain)

14:45 – 15:45h	AWARDS AND CLOSING CEREMONY – ROOM DIAMOND
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CIPOA SCHOOL

7th October (in person, Oceania Convention Center)

Room Topaz 2



07:30 – 08:00h	Registrations for CIPOA School
08:00 – 08:10h	Opening Ceremony Camila Costa de Amorim (CIPOA School Coordinator, Federal University of Minas Gerais, Brazil) Regina de Fatima Peralta Muniz Moreira (VI CIPOA Chairwoman, Brazil) Vítor Vilar (CIPOA Coordinator, University of Porto, Portugal)
08:10 – 09:00h	How to Become a Successful and Responsible Author: Editor Perspectives Speaker: Despo Fatta-Kassinou (Professor at the University of Cyprus, Executive Editor of the Journal of Environmental Chemical Engineering and Editor of Water Research, Elsevier)

09:00 – 09:30h	<p>Analytical Interferences in Chromatography Applied to Removal Studies</p> <p>Speaker: Ana Rita Lado (University of Porto, Portugal)</p>
09:30 – 10:00h	<p>Novel Reactors for Ozonation, Photochemical, Photocatalytic and Photoelectrocatalytic Processes: Towards Process Intensification</p> <p>Speaker: Vítor Vilar (Principal Researcher at Faculty of Engineering of the University of Porto, Executive Editor of the Journal of Environmental Chemical Engineering)</p>
10:00 – 10:30h	Coffee Break
10:30 – 11:00h	<p>Design of Carbocatalysts: A challenge for the solar-driven degradation of pollutants</p> <p>Speaker: Juan Matos Lale (Autonomous University of Chile, Chile)</p>
11:00 – 11:30h	<p>Ionizing radiations applied to Advanced Oxidation Processes for environmental protection</p> <p>Speaker: Florinella Muñoz (National Polytechnic School, Ecuador)</p>
11:30 – 12:00h	<p>Electrochemical Advanced Oxidation Processes as Key Technologies for the Sustainable Management of Industrial Wastewater</p> <p>Speaker: Hugo Olvera-Vargas (Institute for Renewable Energy, Mexico)</p>
12:00 – 13:30h	Lunch time
13:30 – 14:00h	<p>Green heterogeneous catalysis (photo, electro, and bio)</p> <p>Speaker: Giovanni Palmisano (Professor at Khalifa University, Executive Editor of the Journal of Environmental Chemical Engineering)</p>

14:00 – 14:30h	<p>Advanced oxidation processes based in ultrasound waves: advances, potentialities and limitations Speaker: Ricardo Torres Palma (University of Medellín, Colombia)</p>
14:30 – 15:00h	<p>Advanced Urban Rainwater Treatment combining Nature-based Solutions and AOPs Speaker: Daphne Hermosilla (Polytechnic University of Madrid, Spain)</p>
15:00 – 18:00h	<p>Free time</p>

POSTER PRESENTATION

October 8th

16699	Pamela Becalli Vilela	Harnessing the potential of god-catalyzed reactions: A breakthrough approach for enhancing biological wastewater treatment
16707	Julia da Silveira Salla	Ozone-mediated oxidation and controlled exfoliation of graphite for the production of graphene oxide
16697	Guenther Viana	Antimicrobial and photocatalytic activity of BiVO ₄ thin films targeting water treatment
16709	Julia de Oliveira Martins Muller	How can the use of advanced oxidation technologies promote energy efficiency in a ceramic kiln?
16775	Geraldo Luz Jr	Moxifloxacin photoelectrocatalytic degradation on CuWO ₄ /g-C ₃ N ₄ photoanode
16795	Agustina Raquel de Olivera	Generation of persulfate applying a novel electrochemical flow reactor with a NETmix static mixer
16813	Mingce Long	Persulfate-based advanced oxidation processes mediated by high-valent metal-oxo
16817	Donato Alexandre Gomes Aranda	Optimal conditions for simultaneous textile effluent treatment and biomass production by combined ozonation-microalgae process
16833	Joana Almeida	Improving the sustainability of electro-based technologies for critical raw materials recovery
16842	Leticia Reggiane de Carvalho Costa	Ozonation treatment for pharmaceuticals: Optimizing mineralization conditions and assessing eco-toxicity
16880	Daniel Rodrigues	Removal of pharmaceuticals by led photo-Fenton in hospital wastewater, using a LTPE followed by HPLC-MS determination
16888	Jaqueline de Oliveira Brotto	Statistical evaluation of operating parameters in the treatment of landfill effluent containing fulvic acid using electro-oxidation
16956	Hector Valdes	Synergistic approach for efficient H ₂ production through solar photocatalysis: Cr-doped SrTiO ₃ /MXene nanocomposites

16972	Padmanaban Annamalai	Innovative Tinitex/Mn ₃ O ₄ /MXene electrode fabrication for enhanced supercapacitor performance
16987	Julian Andres Rengifo Herrera	Wet synthesis of nitrogen modified TiO ₂ . Visible light absorption is not always related to n-doped TiO ₂
16988	Julian Andres Rengifo Herrera	Can the biochar behave like a photocarbocatalyst? Quantitative and qualitative strategies to find out
16990	Ailton Jose Moreira	Efficient photolytic systems for the degradation of pharmaceuticals in effluents
16996	Joao Vitor P. Batista	Degradation of carotenoids from annato dye industry effluent by ozonation
18800	Fernando Manzotti De Souza	Study of the incorporation of Fe into TiO ₂ and ZnO in the photodegradation of caffeine in aqueous solutions.
16999	Melissa Vieira	Comparative efficiency of removal/degradation of naphthenic acids using green-functionalized carbon nanotubes and peroxymonosulfate as adsorbent and catalyst
17002	Miguel	Enhancing sodis through simplified collectors for cost-affordable UV radiation disinfection
17113	Zhiyuan Zong	Sonochemical catalytic removal of antibiotics using converging ultrasound and cavitation agent with life cycle assessment
17018	Mingce Long	Persulfate-based advanced oxidation processes mediated by high valent Mn species
17022	Kamila Jessie Sammarro Silva	An in-vitro study on photodynamic inactivation of methicilin-sensitive and -resistant staphylococcus aureus
17026	Diego A. Silva de Brito	Degradation of polyethylene microplastics by O ₃ and O ₃ /H ₂ O ₂ in secondary effluent
17027	Enrique Rodriguez-Castellon	Antibacterial activity of Fe ₃ O ₄ -nps/H ₂ O ₂ combination: A promising approach for efficient bacterial
17029	Jose Fenoll	Application of advanced oxidation processes at laboratory scale for pharmaceutical residues degradation in soils
17030	Jose Fenoll	Degradation of venlafaxine in wastewater and soil using ozonation processes
17031	Fulgencio Contreras	Remediation of pesticides contaminated soil by persulfate chemical oxidation

17032	Fulgencio Contreras	Removal of macrolide antibiotics in wastewater by solar photo-Fenton processes at neutral pH
17034	Cinthia Guadalupe Aba Guevara	Phototransformation of enalapril under natural sunlight radiation and simulated: Transformation pathways, environmental and toxicity risk
17035	Marina Aliste	Remediation of soils polluted with antibiotic residues by ozonation technique
17037	Marina Aliste	Enhanced degradation of cyantraniliprole and chlorantraniliprole in soil by solar photocatalysis
17040	Renan Tavares Figueiredo	Synthesis of TiO ₂ and Ag/TiO ₂ catalysts by solvothermal and photo-deposition method for hydrogen production from ethanolag
17041	Annabel Fernandes	Electrochemical degradation of reverse osmosis concentrates from sanitary landfill leachate
17044	Juacyara Campos	Ultraviolet radiation treatment for ecotoxicity removal of chemical additives in oil and gas produced water
17046	Antonio Kaique Canatto	Degradation of methylparaben by ozonation process at neutral pH integrated with anaerobic treatment system
17048	Amanda Martinello Neres de Souza	Metal-doped synthesized carbon quantum dots via microwave irradiation as TiO ₂ sensitizers for hydrogen photocatalytic generation
17049	Michael Neumann-Spallart	Faradaic efficiency of photoelectrochemical oxidation of organic compounds on n-type oxide semiconductor electrodes
17051	Ana Lopes	Imidacloprid photocatalytic degradation under visible light at Bi-doped SrTiO ₃ perovskite
17054	Aida Maria Diez Sarabia	Adsorption coupled to AOPs to have a quick and definitive elimination treatment of pharmaceuticals from real wastewaters
17058	Lucas Hansen	Catalytic and photocatalytic degradation of paracetamol intermediated by a novel catalyst of empirical formula CeSnO ₃
17070	Leticia Reggiane de Carvalho Costa	Enhancing tetracycline mineralization: Integrated optimization strategy with ozonation and hydrogen peroxide
17073	Andreia A. Morandim-Giannetti	Enzymatic frontiers: Optimizing effluent degradation by laccase for environmental sustainability

17077	Enelton Fagnani	Photoinduced advanced processes in times of Minamata Convention on Mercury: Perspectives and challenges
17079	Carolina Mocelin Gomes Pires	Point of zero charge evaluation on rare earth elements removal from soils applying electro mining technique
17080	Dimitrios Bikiaris	MOF-based photocatalytic degradation of the antidepressant drug duloxetine
17082	Rizos-Evangelos Bikiaris	Photocatalytic degradation of the antibiotic ceftazidime using immobilized TiO ₂ on floating polyethylene terephthalate spheres
17083	Vesna Despotović	Optimization of the photocatalytic degradation of clomazone using binary ZnO based nanomaterials in aquatic environment
17084	Daniela Šojić Merkulov	Holistic investigation of sustainable tolperisone hydrochloride degradation from water through photodegradation
17090	Diego Umberto Rizzana	Evaluation of emerging pollutant degradation through the hybrid process of reverse osmosis/electro-oxidation aiming at hospital wastewater treatment
17092	Paula Guedes	Removing cork taint from contaminated cork discs: Electrochemical process towards zero waste
17093	Kelly Christine de Paula da Rosa	Synthesis of graphene oxide from sonification and ozonation of expanded graphite sheets
17094	Giovani Maltempi Mendes	Analysis of efficiency of lignin degradation via Fenton reaction: Study of the synergistic catalytic action and reaction kinetics
17097	Kamila Jessie Sammarro Silva	Influence of PVC microplastics on photodynamic inactivation of <i>Staphylococcus aureus</i>
17098	Bruno Ramos	Exploring fluoxetine removal using an electro-Fenton-like approach: Hydrodynamics and experimental design
17107	Carolina Mocelin Gomes Pires	Electrolyte pH evaluation on lithium removal from soils by applying electric field assisted mining
17109	Joan Manuel Rodríguez Díaz	Synthesis of a layered double hydroxide (LDH) on a carbon structure for photocatalytic drug degradation

17112	Jany Hellen Ferreira de Jesus	Degradation of micropollutants in WWTP effluent by recycled sludge and its performance on CPC reactor
17123	Raquel Wielens Becker	Transformation products formed by tertiary treatment process: Strategies for tentative identification in real effluents and water matrices
17139	Ádila Sampaio Dantas	Persistence of the pesticide atrazine in aqueous media: Influence of microplastics
17172	Raissa Antonelli	<i>In-situ</i> electrochemical regeneration of antibiotic-loaded clay in a continuous reactor
17193	Mauricio Alves da Motta Sobrinho	Photocatalysis of clonazepam from Fe ₃ O ₄ @GO under UV-C radiation
17194	Leticia Dietrich	Environmental photochemical fate of bisphenol a in surface water: A kinetic study
17249	Cassandra Bonfante de Carvalho	Heterogeneous photo-Fenton for caffeine degradation: Comparison between kaolin waste and commercial anatase
17260	Vinicius Ferreira	Photocatalysts obtained by the synergistic effect of microwave, ultraviolet, and visible radiation aiming the sertraline degradation
17261	Josy Osajima	Innovative TiO ₂ composite derived from babassu mesocarp: A sustainable approach to environmental remediation
17263	Josy Osajima	Development of an efficient photocatalyst over a wide temperature range for pollutant degradation: Exploring the synergy between cassava gum and TiO ₂
17280	Richard La O	Tetracycline degradation through hydrodynamic cavitation: Operating conditions and phytotoxic investigation with <i>Lens culinaris</i>
17291	Mariana Lima	Enhancing imidacloprid degradation: A synergistic approach using ozonation and MBBR
17304	Lucas Hansen	Catalytic and photocatalytic conversion of HCO ₃ ⁻ into formaldehyde intermediated by a novel catalyst of empirical formula CeSnO ₃
17312	Marelys Milo	Degradation of tetracycline in water by the ultraviolet/sodium percarbonate (UVC/SPC) process
17314	Rosane Marina Peralta	Enhanced photodegradation of methylene blue utilizing tri-s-triazine and mellitic triimides

		heterostructures: Achieving high activity in the visible spectrum
17315	Rosane Marina Peralta	Alkaline peroxide pretreatment improves the enzymatic saccharification of peach palm (<i>Bactris gasipaes kunth</i>) wastes
17317	Cassandra Bonfante De Carvalho	Synergistic effects between different advanced oxidative treatments for degradation of rhodamine B
17320	Freije Trinidad	Effect of physico-chemical treatments on EAFs performance as catalyst for Fenton-like oxidation of bisphenol A
17321	Pamela-Guerra Blanco	Combined system of ozonation and biodegradation in continuous mode with internal recirculation for mineralization of phenols mixture
17329	Carla Orge	Halogenated organic compounds removal by catalytic processes
17339	Daniel Druzian	Synthesis and characterization of the supported nanocatalyst for photodegradation of atrazine: Experimental design and ecotoxicity
17344	Mayara Mizevski Cecco	Effect of applying electrokinetic remediation on the pH of vanadium recovery from deactivated fluidized catalytic cracking catalysts
17347	Anne Caroline Prodocimo	Synthesis and use of perovskites in the heterogeneous photocatalysis process
17351	Milton Ronaldo Perez Magdaleno	Synthesis and characterization of the BiVO ₄ /In ₂ O ₃ heterojunction for photocatalytic CO ₂ conversion in a continuous flow reactor
17352	Tatianne Ferreira de Oliveira	Valorization of baru waste (<i>Dipteryx alata Vog.</i>) for the synthesis of porous materials with potential for application in advanced oxidative processes
17353	Gabriella Ayumi Kokubun	Influence of NaCl on the photocatalytic activity of CaTiO ₃ in the degradation of red dye
17354	Tatianne Ferreira de Oliveira	The study and construction of a sustainable solar photocatalytic reactor: Degradation of penicillin and indigo carmine blue food dye
17359	João Maurício Beghetto Tomaz de Aquino	Effect of aqueous miscible organic solvent treatment (AMOST) on CuMgFe-LDH for application in Fenton degradation

17367	Robson Dias Wouters	Bimetallic nanocatalyst with titanium dioxide and zinc oxide nanoparticles: Synthesis, characterization and photocatalytic activity
17370	Gabriela Cristina Perusin Flores	Study of the electrocoagulation process applied to real effluent from the metal mechanic industry
17374	Maressa Eduarda Diniz Rinaldi	Application of TiO ₂ and Bi/TiO ₂ in the photodegradation of textile dye
17375	Eloisa Vasconcelo Carmelo	Exploring the photocatalytic potential of HKUST in the degradation of dyes in textile effluents
17378	Freije Trinidad	Development of catalytic material for heterogeneous Fenton-like degradation of bisphenol A using a brewing industry residue
17379	Marcelo	The role of rare earths in the structure of zinc oxide (ZnO): A review
17380	Giane Gonçalves Lenzi	Advanced oxidative processes in caffeine degradation: CWPO and photocatalysis
17381	Giane Gonçalves Lenzi	Ag/Nb ₂ O ₅ photocatalysts applied in Cr ⁶⁺ reduction: Effect of thermal treatment and catalyst concentration
17383	Gregori Ullmann	Radiation intensity enhancement in a photoreactor system coupled to Fresnel lens
17384	Alam Gustavo Trovó	Intensification of UVC treatment for micropollutant removal by combined use of the oxidants H ₂ O ₂ and S ₂ O ₈ ²⁻
17385	Ticiane Sauer Pokrywiecki	Assessment of advanced oxidative processes in the degradation of estrone (E1) in sanitary sewage
17389	Erica Dantas	PVDF-MIL-88A photocatalytic membrane to treat organic textile contaminant
17390	Zahara Martínez De Pedro	Removal of polystyrene nanoplastics by photo-Fenton oxidation: Structural analysis and degradation pathways
17397	Paula Ferreira	Application of polyaniline as an adsorbent and a photocatalyst for the removal of parabens from wastewaters.
17406	Laura Hinojosa Reyes	Photocatalytic degradation of nylon 6 microplastics using TiO ₂ @(Cu/Fe) HKUST-1 composite under UV-visible radiation

17409	David Luiz Arruda da Silva	Degradation of polyfluorinated substances by oxidative and reductive process
17410	Tirzhá Lins Porto Dantas	Use of metals in the green synthesis of nanophotocatalyst: State of the art
17412	Naiara Santos	The effect of photo-Fenton, heterogeneous Fenton and UV/H ₂ O ₂ processes on organic matter and surface of aged/pristine fibers
17413	Lucas Capello	PHB-TiO ₂ composite films: Study of polymeric extraction in alternative solvents and methodologies for production
17902	Luiz Thiago Vasconcelos da Silva	Removal of drugs from sewage treatment plant effluents by electrocoagulation coupled to photolysis with aeration
18716	Fernanda Bento Rosa Gomes	Ozonation as a pretreatment to increase the energy recovery potential of sewage sludge: A bench study with Biotrickling Filter Sludge
18975	Angeles Mantilla	High efficiency Cr (vi) photoreduction by using synthetic hydroxyapatite as photocatalyst
19013	Fernanda Cristina Fraga	Ag-Cu ₂ O photocatalyst: Synthesis and its application in ethylene degradation
19360	Daniela Gier Della Rocca	Effect of voltage on the electrochemical advanced oxidation for efficient synthetic oilfield produced water treatment

October 9th

16812	Leonardo Delgado	A novel electrochemical flow reactor with improved mass transfer – the e ⁻ NETmix
16993	Beatriz Oliveira de Farias	Poultry slaughterhouse wastewater treatment using UV/H ₂ O ₂ process: effects on meta plasmidome and removal of antibiotic resistance genes
17025	Natalia Klanovicz	Continuous-flow carbamazepine removal from contaminated wastewater by hybrid enzymatic photo oxidative treatment
17047	Fernanda Vargas e Silva	Photocatalyst immobilization on vegetable-tanned bovine leather: A methodology development
17088	Maria Eliana Camargo Ferreira	Manganese ferrite and reduced graphene oxide photocatalyst supported on bone char for hydroxychloroquine removal

17135	Raissa Engroff Guimarães	Hydrogen peroxide on-site electrogeneration combined with UV process for degradation of pharmaceutical products in water
17180	Thais Costa	Biologically activated carbon (BAC) combined with a solar Fenton-based process to treat municipal wastewater containing gestodene (GES)
17183	Fabiano Cheri	Synthesis and evaluation of $\text{Fe}_3\text{O}_4@\text{HDL}@Ag/\text{Ag}_3\text{PO}_4$ composites for photocatalytic degradation of acetaminophen
17248	Iure Bernardino De Sousa	Advanced multiple barrier system for urban wastewater reuse: Disinfection and toxicity
17301	George Luis-Morejón Aguila	Efficiency of the catalytic ozonation with Fe foam catalyst for naproxen degradation
17313	Thais Costa	The impact of antibiotics in aquatic environments and the efficacy of Fenton-based processes for their removal
17334	Matheus Gabriel Guardiano	Gd-BiVO_4 photoanode as catalyst for ciprofloxacin and sulfamethoxazole degradation through solar photoelectrocatalysis
17335	Matheus Gabriel Guardiano	Simultaneous degradation of azithromycin, clarithromycin, and sulfamethoxazole in WWTP effluent applying heterogeneous photo-Fenton process
17341	Daniel Druzian	Photocatalytic degradation of atenolol with Nb and Ti-based supported nanocatalyst and doped with phosphorus
17382	Raíssa-Braga	Photoactivity of samarium-modified TiO_2 under UV-A radiation for the degradation of emerging contaminants in wastewater
17358	Leandro Rodrigues Oviedo	Deep learning study for the photodegradation of a binary mixture in a heterogeneous catalyst of copper oxide nanoparticles supported onto nanozeolite
17404	Jacqueline Malvestiti	O_3/BAC filter performance to remove organophosphates and toxicity during urban wastewater treatment
17414	Deysi Amado Piña	Al/Cu pillared clay: Catalytic performance in photo-Fenton to mineralize diazinon
17415	Hanna Mahmud	Heterogeneous photocatalysis of organic dyes with green Nb_2O_5 nanoparticles

17417	Agustina Schenone	Solar photo-persulfate degradation of perfluorooctanoic acid (PFOA): A promising approach for effective contaminant removal
17419	Jhonatan Oliveira	Evaluation of quinoline degradation process using LaCuTi perovskite activated by polychromatic irradiation
17420	Sthéfany Nunes Loureiro	Mg ²⁺ and Pt ⁴⁺ doped Bi ₁₂ TiO ₂₀ photocatalysts for photodegradation of fast green dye
17422	Isabel Alcantara	Removal of ketoprofen in wastewater effluent by constructed wetland combined with photoelectro-Fenton process in near-neutral pH
17423	Lourdes Maria Muraro Favarin	Effect of pH for the methylene blue photodegradation using green Nb ₂ O ₅ -nps
17425	Adriano Losekann Mota Nunes	Green Nb ₂ O ₅ nanoparticles from <i>Carya illinoensis</i> nutshell extract: Synthesis, characterization and photocatalytic activity for the rhodamine B dye
17426	Marina Pastre	Simultaneous removal of bisphenol S, carbamazepine and clonazepam from water and wastewater using Ti-biomass based composites
17427	Lara Fabian	Degradation of antibiotics in hospital wastewater via UV-C photo peroxidation
17428	Norberto Abreu	Bismuth oxychloride heterostructures doped with copper for the photocatalytic degradation of methyl orange: On the process optimization and kinetic modeling
17429	Dimitra A Lambropoulou	Biobased poly(ethylene furanoate) polyester/TiO ₂ supported photocatalyst for the degradation of brilliant green dye
17430	Dimitra A Lambropoulou	Photocatalytic degradation of antifungal agents fluconazole and voriconazole by TiO ₂ particles: Effect of operational parameters and transformation products
17431	Vicente Iribarren	Heterojunction of BiOCl-CuO by co-precipitation method for the remotion of environmental pollutants
17432	Jose Moraes	Modeling of amicarbazone herbicide degradation by ozonation process assisted with UV light using neural artificial networks

17438	Paulo Ricardo Amador Mendes	Response surface applied to optimize prednisone removal in aqueous medium by photo-assisted peroxidation (H ₂ O ₂ /UV)
17440	Jose Moraes	Application of neural networks to data generated in the treatment of industrial wastewaters containing ciprofloxacin
17441	Guilherme Vargas	Development and application of multi-walled carbon nanotubes decorated with niobium pentoxide in the removal of sacubitril/valsartan
17443	Guilherme Vargas	Preparation of highly efficient NiFe ₂ O ₄ -Nb doped photocatalyst for the degradation of azo amaranth dye from aqueous solution
17447	Paulo Nunes	Piezophotocatalytic performance of nanostructured bismuth niobate
17448	Silma Alberton Correa	Sustainable and versatile synthesis of silver nanoparticles and their photocatalytic application
17452	Alicia L. Garcia-Costa	Nitrate catalytic photoreduction: Insights onto inhibitory byproducts
17453	Maria J. Rivero	Taping the presence of acidic pollutants in photocatalytic degradation processes
17455	Sergio Enmanuel Correia Alonso	New perspectives on electro-ozonizers: Towards the disinfection and treatment of wastewater with O ₃ (g)
17457	Androniki Rapti	Heterogeneous photocatalytic degradation of benzotriazole using TiO ₂ -based and MOF-based photocatalytic processes
17458	Renata Padilha de Souza	Conversion of plastic solid waste into carbon nanotubes for environmental catalytic applications
17459	Luana Sarinho	Design and implementation of a novel electrochemical microreactor for treating contaminated brines
17463	Renata Padilha de Souza	Superparamagnetic core-shell nanoparticles for removal of emerging contaminants by CWPO
17464	Rui Martins	Evaluation of phenolic compounds abatement by persulfate and peroxymonosulfate activated by ozone in comparison with single ozonation
17466	Zahara Martínez de Pedro	CWPO for the simultaneous degradation of cyanobacteria and cyanotoxins. Impact of cyanobacteria growth stage
17467	Maria De Los Milagros Ballari	Kinetic analysis of isopropanol and acetone mixture oxidation by photocatalytic paint

17469	Alexandra Afonso	Olive mill wastewater electro-oxidation aiming the utilization of the treated effluent in hydroponic growth of lettuces
17471	Lucrecio Fábio Dos Santos	Degradation of pharmaceutically active compound using an advanced oxidative process such as photo-assisted peroxidation
17472	Maria De Los Milagros Ballari	Effect of the carbon species equilibrium on the CO ₂ photocatalytic reduction in a TiO ₂ slurry
17473	Camilla Daniela Moura Nickel	Photocatalysis process using zeolitic imidazolate framework-8
17474	Liliane Nagi Brambilla	Tetracycline removal in aqueous solutions via electro-Fenton-like process with aluminum electrodes
17475	Miran Ceh	(CoFeNiMnCr) ₃ O ₄ high entropy oxide: Innovative synthesis route and application in electrocatalysis
17477	Barbara-Ljubec Božiček	Potential application of anodized HfNbTaTiZr high entropy alloy as photocatalyst
17479	Patricia García-Muñoz	Intensified heterogeneous AOPs for the disinfection of <i>Enterococcus faecalis</i> in aquaculture water matrices
17480	Lucrecio Fábio dos Santos	Application of photo-assisted ozonation (O ₃ /UV) in the treatment of synthetic prednisone effluent
17482	Silvia Egues	TiO ₂ /Luffa cylindrica composites for photocatalytic degradation of atrazine
17483	Lucila Doumic	Catalytic peroxidation as a feasible approach to o-phthalaldehyde (OPA) oxidation in wastewater
17484	Vinícius José Carvalho	Contaminant treatment simultaneous to NH ₃ production: An innovative approach through photoelectrocatalysis
17485	Salvio Lima de Carvalho Neto	Perovskite and graphitic carbon nitride hybrid as bifunctional dark(photo)catalyst for tetracycline fast abatement
17486	Maria Luiza Perdigão Lobato	Comparison of the photocatalytic performance of TiO ₂ and La/TiO ₂ in textile dye degradation
17487	Lucila Doumic	Prussian blue-alumina as stable Fenton-type catalysts in textile dyeing wastewater treatment
17488	Pablo Ochoa Rodriguez	Determination of the quantum efficiency in 2-chlorophenol degradation processes under led visible light, using doped TiO ₂ .

17489	Carla Di Luca	Strategies for the quantification and characterization of nanoplastics in AOPs research: A case study for polystyrene nanospheres
17490	Ivette Montero	Degradation of pantoprazole in aqueous solution using ozone and ozonation enhancement by hydrogen peroxide and nanoparticles Fe/Cu as catalysts
17491	Raul José Alves Felisardo	Exploring electrochemical treatment of synthetic and real urine matrices for paracetamol removal using boron-doped diamond
17492	João Paulo Carvalho Moura	Ciprofloxacin degradation using WO ₃ modifying carbon GDEs under photoelectro-Fenton process
17493	Sayonara Lima	Exploring photocatalytic degradation of diclofenac and assessing performance in the innovative annular spiral photoreactor
17494	Julie Joseane Murcia Mesa	Cr-doped TiO ₂ decorated with noble metals, with enhanced activity in the elimination of bacteria and yeast
17496	Diego Alex	Numerical and experimental evaluation of the initial concentration and pH effect on the oxidation of benzoic acid by UVC/H ₂ O ₂ process
17497	Vicente Alvarez Hernandez	Electrochemical peroxidation applied to real wastewater treatment of the confectionery industry
17498	Tamara Benzaquén	Photocatalysis for water pollutant removal. evaluation of electrospun fibers in a microreactor
17500	Diego Alex	Evaluation of direct photolysis of benzoic acid by UVC advanced process: Numerical and experimental analysis
17502	Deysi Amado Piña	Treatment of an effluent from a poultry slaughterhouse through a coupled ozone and photo-Fenton process using a biocatalyst
17505	Engracia	Assessing ozone treatment for hospital air quality: Sustainability study
17506	Itzany Janet De La Cruz Salazar	MOFs for the removal of emerging pollutants by catalytic ozonation
17509	Camila Fernanda Zorzo	Reduction of phytotoxicity in a multi-contaminant solution treated by electrochemical advanced oxidation

17510	Sayna Kelleny Peixoto Viana	Combination of photo-Fenton and adsorption processes for removal of sulfonamides using iron-modified biochar
17511	Tamara Benzaquén	Mn and Ti-modified SBA-15 materials: A pathway for the development of radical-specific photocatalytic reactions
17512	Elaine Basilio Figueiredo	Textile waste valorization: A potential catalyst for oxidation of organic pollutants
17513	Isabela Disigant	Enhanced photoelectrocatalytic degradation of hormonal pollutants using TiO ₂ nanotubes modified with electrodeposited UiO-66 MOF
17514	Rodrigo Prado Feitosa	A synergistic approach based on the union between TiO ₂ , ZnO, and sepiolite was applied to the removal of ciprofloxacin hydrochloride
17515	Pablo Alejandro Ochoa Rodriguez	Sustainable catalysts: Degradation of glyphosate in contaminated aqueous environments at room conditions
17516	Tirzhá Lins Porto Dantas	Photodegradation of amoxicillin using titanium nano catalysts synthesized via green route
17521	Suellen Alves	Enhanced photocatalytic activity of silver phosphate-decorated nickel phosphate microparticles synthesized via in situ ion exchange reaction
17522	María De Lourdes Maya	Harnessing metal tungstates for efficient photocatalytic degradation of propranolol
17523	Alan Camara	Alkaline treatment of PETG 3D printed structures for TiO ₂ thin films adhesion aiming the p-toluic acid photodegradation
17524	Geraldo Luz Jr	Photoelectrocatalytic properties of CuWO ₄ MnWO ₄ BiVO ₄ double heterojunction photoanode
17525	Itzany Janet De La Cruz Salazar	Removal of model mixture by ozone and CeO ₂ /MnO ₂
17526	Natalia Gabriele Camparotto	Performance analysis of pure MIL-53(Fe) MOF and immobilized on chitosan beads for catalytic ozonation of organic contaminants
17527	Leonardo Zavilenski Fogaça	Evaluation of TiO ₂ /CQD/Ag photocatalytic heterostructures for H ₂ generation through the water splitting process

17528	Gabriel Rodrigues dos Anjos Silva	Modified photocatalytic membranes applied to the treatment of petroleum refinery effluent
17529	Diana Endara	Photocatalytic oxidation of cyanide ion using a Bi ₂ O ₃ /TiO ₂ co-catalyst supported on activated carbon
17530	Lucas Capello	Optimizing photocatalytic activity of biodegradable PHB-TiO ₂ films: Proposing a double layer structure
17534	Gina	Valorization of a waste iron material as a catalyst for amoxicillin degradation by Fenton and photo-Fenton reactions
17536	Andreia Morandim-Giannetti	Characterization of sclera submitted to crosslinking using the oxidoreductase laccase
17537	Edgar Ruiz	Electro-Fenton treatment for the degradation and mineralization of a mixture of ofloxacin, norfloxacin, and ciprofloxacin
17539	Juliana Bruzaca Lima	Degradation of emerging contaminants using photocatalysts produced by an environmentally friendly route
17548	Julia da Silveira Salla	Environmentally friendly method to produce graphene oxide from graphite
17551	Gianluca Li Puma	Photocatalytic oxidation of pharmaceuticals mixtures in water
17554	Isadora Luiza Climaco Cunha	Selection and pre-design of tertiary treatment technologies for wastewater from the flexographic industry
18197	Aline Linhares	Promising pollutant removal using fel-impregnated polymeric membrane
18373	Lukas Santos	Enhanced removal of sulfonamides using heterogeneous Fenton processes coupled with basic activated biochar adsorption
18637	Cecília Balduino da Silva	CuInS ₂ quantum dots as photocatalysts for heterogeneous photocatalysis of organic pollutants assisted by flow injection analysis
18712	Ana Lucia de Souza Niero	Brown TiO ₂ structured catalyst supported on SiC for ethanol photo-reform using visible light
18856	Gabriela Zanchettin	Enhancing photocatalytic and bactericidal activity post-illumination of WO ₃ /TiO ₂ heterojunction
18942	Andrea Negrete	Indoor biological air pollutants removal by photocatalysis

18949	Uriel Caudillo-Flores	Photocatalytic hydrogen production using silver nanocubes supported on titanium dioxide
18966	Meliza Jennifer da Costa Fonseca	Integration of UV/H ₂ O ₂ with membrane bioreactor for ethinylestradiol removal

October 10th

16706	Eloisa Stephanie da Silva	Abatement of pharmaceuticals and disinfection of hospital wastewater by led photo-Fenton
17052	Danieli Brandler	Removal of congo red dye from wastewater using electrocoagulation process
17442	Paulo Ricardo Amador Mendes	Degradation of the drug prednisone in aqueous solution by combined ozonation and photolysis (O ₃ /UV).
17445	Angel-Yañez	Unraveling the underlying chemistry enhancing the HOCl and •OH yields on Ru-based anodes in electrochemically assisted photolysis
17454	Ismael	Removal of pesticides in olive soils using electrochemically generated oxidants
17499	Diana Magallanes Galan	Photocatalysis of ciprofloxacin using composite g-C ₃ N ₄ /PANI
17504	Alexandre Tadeu Paulino	Immobilization of zinc oxide in chitosan hydrogel membrane for photodegradation of food dyes
17531	Ayleen Villacres	Iron and nickel ferrites as heterogeneous catalysts for the Fenton-like oxidation of methylene blue
17561	Flávia Moura	Inorganic sulfide oxidation enhanced by modified Nb-containing photocatalysts utilizing visible light: A promising technological advancement
17569	Evanny Laryssa dos Santos	The influence of different support electrolyte compositions for tetracycline hydrochloride electro-oxidation and byproduct formation
17570	Maria Thalia Paulino De Farias	Tetracycline hydrochloride electro-oxidation: Influence of the current density in degradation efficiency and byproduct formation
17576	Marina Pastre	Optimization of the synthesis of TiO ₂ /AC composites for removal of sulfamethoxazole in water

17584	Raiane Martins Madureira	Optimizing photocatalytic performance of ZnO nanoparticles via controlled calcination time for tetracycline removal
17589	Leonardo Zavilenski Fogaça	Photocatalytic application of iron-doped clinoptilolite catalysts for reactive blue dye degradation
17612	Gustavo Henrique Medeiros	Development of a non-conventional reactor for electrochemical wastewater treatment
17620	Sofia Da Silva Alves	Comparison between ZnO and NiO prepared by SCS synthesis and their mechanism for TC - HCl photocatalytic removal
17625	Mauricio Velasquez	Magnetite as a catalyst for the partial oxidation of glycerol through heterogeneous photo-Fenton reactions
17703	Fernando Rodrigues da Silva	Assessing the environmental safety of wastewater post-treatment by advanced oxidation processes: a species sensitivity distribution approach
17912	Enrico Saggioro	KPC-producing <i>Klebsiella pneumoniae</i> and bla-KPC gene inactivation by heterogeneous photo-Fenton process mediated by mining residue
17971	Victoria Vilete	Co-action of sulfate and hydroxyl radicals in enhanced solar photo-Fenton: ARB resistance profile
17981	María De Lourdes Maya	g-C ₃ N ₄ /PDMI@MOF-74(Ni) mediated photocatalytic degradation of metoprolol and propranolol under UV/visible radiation
18026	Teresa Torres Blancas	Application of ferric zeolite as catalytic material in PAO for restoration of water quality in the Chignahuapan Lagoon
18055	Inmaculada Ortiz	Understanding the role of sacrificial agents in the photocatalytic generation of hydrogen from seawater with cadmium chalcogenides as photocatalysts
18060	Constanza Treverton Rojas	Co-precipitation synthesis of BiOI/Fe ₃ O ₄ heterojunction: Optimization and application in ciprofloxacin removal from water
18078	Luiz Thiago Vasconcelos da Silva	Study of the removal mechanism of Remazol Red RB 133 by electrocoagulation: Temperature effect

18104	Leticia Alves Da Costa Laqua	Evaluation of the photocatalytic activity of niobium oxide-containing coating
18129	Matheus Kronka	Effect of Pd nps loading onto ZrO ₂ /carbon printex I6 as a hybrid catalyst on O ₂ reduction reaction for efficient production of H ₂ O ₂
18151	Michele Coral Dutra	Mechanochemical oxidation process of pyritic waste from coal mining in a high-energy mill
18174	Elenice Hass Caetano Lacerda	Feasibility of polyurethane-supported bentonite clay modified with Nb ₂ O ₅ catalyst for degradation dye textile by photocatalysis
18194	Tainá Maria	Photocatalytic materials development based on heterojunctions g-C ₃ N ₄ /MoO ₃ and g-C ₃ N ₄ /MoS ₂ active by solar radiation
18215	Ramiro	Advancements in treatment and valorization of pomace olive oil wastewater
18219	Hernán Dario Rojas-Mantilla	Evaluation of semiconductor-modified membranes applied in the simultaneous filtration/degradation of emerging contaminants.
18257	Juan Manuel Perez Ramos	Application of advanced oxidative processes and ecotoxicological studies in effluents contaminated with malachite green
18285	Grace Carilao	Study of Fenton systems in acetic acid for the oxidation of bonds between phenylpropane units in a lignin model
18291	Maria Mejia	Facile and low-cost surface modification techniques using TiO ₂ -Fe for bacteria inactivation in hospital environments
18298	Efraím A. Serna-Galvis	Taking advantage of peroxymonosulfate in diverse oxidation processes for the degradation of pharmaceuticals in water
18299	Ernandes Rodrigues De Alencar	Saturation process of ozone and effect on quality in common beans
18323	Marcus Vinicius De Assis Silva	Kinetics of the ozone gas reaction at different flow rates in popcorn kernels and application for controlling <i>Sitophilus zeamais</i>
18336	Paloma De Jesus Cubas	Statistical optimization of g-C ₃ N ₄ /ZnCr ₂ O ₄ heterojunction preparation and improvement of photocatalytic efficiency

18344	Leandro Rodrigues Oviedo	Comparison between the photocatalytic degradation of drug and dye molecules under visible radiation: Thermodynamic studies
18368	Anifat Adenike Bankole	Electrospun CoFe ₂ O ₄ /LaMnO ₃ nano-heterostructures for low temperature photothermal catalytic degradation of toluene.
18369	Hiale	Degradation of amoxicillin and cefadroxil by the photo-Fenton process using UV-LEDs at near-neutral pH
18379	Victor Silveira	SiO ₂ @TiO ₂ core@shell photocatalytic nanoparticles: Review on fundamentals, properties and applications
18381	Daniel Alves	Incorporation of BiVO ₄ into mesocellular SiO ₂ for application in photodegradation of emerging pollutants
18382	Vivian Soares	Photoelectrocatalysis of stainless-steel electrodes electrodeposited with polypyrrole in the degradation of antibiotic tetracycline
18394	Anabela Natalia Dwojak	Development and evaluation of a photoreactor based on supported nanostructured TiO ₂ photocatalysts for treatment of pollutants in water
18406	Gina Hincapié-Mejía	Degradation of a macrolide antibiotic through the ozone process catalyzed with H ₂ O ₂ , Fe(ii) and magnetite
18410	Luca Klafke	Removal of iron from groundwater by ozonation-filtration aimed to potability water
18429	Bernardo Lyra	A systematic literature review of the Fenton-based advanced oxidation technologies for the dyes degradation from the textile industry
18436	Byron Melo	Photocatalysis as a potential mean of metallic electronic waste recovery: A review
18438	Raquel Mambrini	Application of MOF based on iron and terephthalic acid to drug removal in aqueous effluents
18443	Byron Melo	The photocatalytic potential of the ZnO/CuO heterojunction in the abatement of tetracycline hydrochloride
18464	Iza Silva	Leveraging photocatalysis for renewable fuel generation: Advancing sustainable energy production
18466	Roger Gonçalves	Increased photoelectrocatalytic effect of Nb ₂ O ₅ by cathodic treatment for pesticide removal

18476	Raquel Fernandes Pupo Nogueira	Continuous heterogeneous solar photo-Fenton reactor with electrodeposited magnetite on stainless steel mesh as catalyst
18479	Leanderson Araujo Da Silva	Determination of photoelectrochemical properties of nanostructured tungsten trioxide electrodes
18480	Maria Mejia	Implementation of photocatalytic surfaces in 3D printing materials and polyester fabric using easily impregnation methods
18482	Natália Araújo	Optimizing engine performance: A kinetic analysis by neural network of bioethanol combustion with hydrogen gaseous mixture
18487	Natália Araújo	Combustion kinetics of gasoline with commercial nanoparticle: Analysis using artificial neural network
18494	Rita De Cassia De Oliveira Sebastião	Shedding light on ethanol combustion in spark ignition engines: Determining the kinetics using artificial neural networks
18527	Roberto Luis Palomino Resendiz	Photoelectrochemical oxidation activity of Cn-TiO ₂ in the removal of cefadroxil in wastewater
18530	Julia Nieto-Sandoval	Unraveling the role of manganese oxides and oxalic acid complex in catalytic ozonation: Structural properties and mechanistic insights
18536	Rodrigo Cavalcante	Study on assisted catalytic ozonation for the removal of nanoplastics from water
18537	Luis Fernando Wentz Brum	Green synthesis, characterization and potential antimicrobial activity of Nb ₂ O ₅ nanoparticles from <i>Carya illinoensis</i> nutshell extract under irradiation
18562	Maurício Dalla Costa Rodrigues Da Silva	Green Nb ₂ O ₅ -nps for rhodamine 6G photodegradation: Synthesis, characterization, phytotoxicity and photocatalytic activity
18568	Maria Alejandra Ayude	A study of the performance of a packed bed anode in an electrochemical flow reactor for the treatment of simulated textile wastewater
18579	Hernán Darío Traid	Low cost Fenton process applied as additional stage in leachate treatment
18602	Vivian Stumpf Madeira	Low-cost photoreactor used in the degradation of diuron and 2,4-D herbicides by photolysis, ozonation and ozonation with UVC light

18626	Leonardo Navarrete	Photoelectrochemical degradation of microplastics using a boron-doped diamond modified with BiVO ₄ photoanode electrode
18645	Yudy Liceth Martinez Mena	Comparative treatment of representative active pharmaceutical ingredients in fresh urine through three advanced oxidation processes
18651	Ramon Aquino	Heterogeneous catalytic ozonation of rhodamine B using spent alkaline battery waste as catalyst
18665	Ana Paula Ferreira Da Silva	Intensified filtration process with wet peroxide oxidation for the treatment of sulfamethoxazole-polluted water using carbon nanotube composite polymeric membranes
18695	Natalie De Paula	Evaluation of ozone-treated activated alumina for fluoride ion removal from groundwater samples
18697	Ana Paula Ferreira Da Silva	From waste to value: Enhancing catalytic activity of plastic-derived carbon nanotubes for microplastic remediation
18699	Darlina Mello Souza	Ultrasound-assisted persulfate degradation of haloperidol in wastewater
18701	Luiz Fernando Belchior Ribeiro	Development of photocatalytic active SiCN-Ti e-spun fibers based on a polysilazane-derived precursor for hydrogen generation
18702	Diana Magallanes Galan	Photocatalytic activity of various g-C ₃ N ₄ materials over the removal of ciprofloxacin
18709	Carla Di Luca	Electrospun Fe-doped silica membrane for the Fenton-like oxidation of orange II
18755	Daynahi Franco Pelaez	Ni-foam bifunctional catalyst for degradation of clofibric acid by catalytic ozonation
18805	Fernando	Evaluation of the degradation of 2,4-D using 8% Ag/ZnO synthesized by a new sol-gel route
18891	John Steven Devia Orjueña	Enhancing carbamazepine degradation in aqueous solutions using hydrodynamic cavitation with ozone and UV radiation
18822	John Steven Devia Orjueña	Analysis of intensified hydrodynamic cavitation with Fenton reagent for the decrease of carbamazepine concentration
18921	Tabata Feijoo	Electrochemical determination of the antioxidant capacity of açai (<i>Euterpe oleracea</i>) as an innovative approach

18929	Laidy Tatiana Bayena-Suárez	Lidocaine degradation using Fenton-like processes with copper: Effect of the complex formation and pH of the solution
18936	Juan Fernando Suarez Ramirez	The effect of basic pH on lidocaine degradation with PMS and H ₂ O ₂ in the presence of iron ions
18952	Felipe Pereira da Silva	Membranes decorated with copper(II) complex for produced water treatment
18955	Victor Zamora Castaneda	Photoelectrocatalytic oxidation of As (III) to As (V) for adsorption removal using CuBi ₂ O ₄ /CuO/Fe ₂ O ₃
18963	Erika Gatica Alba	Development of Fenton like systems in a non-aqueous medium for oxidation of a lignin model molecule
18987	Meliza Jennifer Da Costa Fonseca	In situ electrochemical generation of hydrogen peroxide for water treatment
18995	Sayonara Lima	Criteria for ozonation processes modeling and simulation
19096	Victoria Melín	Fenton reaction driven by tannic acid and their application in biofilm removal
19077	Erika Gatica Alba	Comparative generation of OH, s-centered, and o-centered sulfate radicals via iron-doped TiO ₂ photocatalysis in the presence of persulphate and simulated solar radiation
19124	Maria Camila Mosquera Olano	Manganese-enriched carbonaceous material obtained from banana residues for carbocatalytic treatment of pharmaceuticals emerging contaminants
19264	Alanna Yabiku	Quality indices and oxidative stability of sunflower ozonized oil
19351	Cinara Cassettari	Comparative degradation of reactive and acid of dyes in textile wastewater using Fenton-combined membrane distillation
19384	Gabriel Soldi de Souza	Green chemistry approach for a greener hydrogen production cycle and water oxidation
19431	Victor de Aguiar Pedott	Oilfield produced water treatment: Exploring electro-oxidation principles, challenges, and future research prospects
19507	Robson S. Souto	Sustainable GDE based in sugarcane bagasse for on-site H ₂ O ₂ electrogeneration: Application for amoxicillin removal in flow reactors for scalable water treatment.

20647	Isabel Alcantara	Enhancing sewage treatment through integration of UV/H ₂ O ₂ process and vertical flow constructed wetland
21019	Carla Frois	Degradation of Covid-19 pharmaceutical by solar photo-Fenton process: Evaluation of experimental conditions and identification of transformation products.
21021	Kiane Cristina Leal Visconcin	The electrochemical process inactivates oxytetracycline-resistant bacteria
21069	Cinara Cassettari	Fenton process integrated with membrane distillation for textile wastewater treatment using commercial simulators
21098	Leonardo Delgado	A novel multi-layered CaTiO ₃ /WO ₃ /BiVO ₄ photoanode for enhanced glycerol valorization and hydrogen production
21102	Mariana Islongo Canabarro	Application of O ₃ , H ₂ O ₂ and UV light for degradation of recalcitrant compounds in distilled landfill leachate
21126	Carla Frois	Activation of peroxymonosulfate by FeCl ₃ -modified biochar and sunlight for degradation of CECs: Transformation products identification
21257	Roberta Yonara	Application of WO ₃ photoanodes deposited on titanium mesh for environmental remediation processes in reactors
21762	Roger Gonçalves	Boosting sulfonamides electro degradation efficiency with ruthenium-modified BiVO ₄ catalysts
21820	Rafaela Morelato	Evaluation of the point of zero charge (pHpzc) of ozone-treated activated alumina for water defluoridation
21857	Carlos Javier Escudero Santiago	Recovery and reuse of TiO ₂ photocatalyst in the treatment of slaughterhouse wastewater with sunlight
22001	Katusca Gonzales	Optimization of the combined sono-photo-Fenton process for the degradation of the antiepileptic drug primidone
22066	Nikos Bikiaris	Magnetically separable PET-TiO ₂ /Fe ₃ O ₄ photocatalyst for degradation of the antidepressant drug duloxetine

October 11th

17100	Eduarda Flach	Eco-friendly synthesis of silver nanoparticles and its application in hydrogen photogeneration
17272	Suresh C. Pillai	Fabrication of Fe ₃ O ₄ @NiAl-LDH core-shell structure demonstrating the dual catalytic photo-Fenton activity
17136	Suzan Costa Zilli	Advanced UV-C/Cl oxidation as an alternative for emerging contaminants removal on potabilization treatment plants
17619	Caio Da Silva Cuneo	Effect of fuel type in the solution combustion synthesis of n-doped ZnO and its application as a photocatalyst for tetracycline
18343	Gloria Maribel - Luna Aguilera	Gamma radiation's influence on TiO ₂ in iron oxidation within aqueous solution: Potential photocatalytic applications
18500	Rita De Cassia De Oliveira Sebastião	Kinetic study of gasoline combustion in research engine: Chemical and mechanical strategies to improve performance
18512	Thiago Schuler	Hybrid silver-loaded bacterial cellulose/organosilica photocatalytic aerogels for in-flow water purification
18671	Antonio Gascó	Assessing the treatment efficiency of heterogeneous UVA-photo-Fenton processes using different iron oxides and zero valent iron catalysts
18711	Bárbara Ferreira	Comparative study between the thermal decomposition and biodegradation of extruded polystyrene by <i>Zophobas atratus</i> larval
18724	Bárbara Ferreira	Thermal decomposition and biodegradation of polyethylene-vinyl acetate by <i>Zophobas atratus</i> larval: An economic viability study
18737	Leonardo-Marchiori	Hybrid bacterial cellulose@SiO ₂ -TiO ₂ hybrid aerogel for in-flow photo-assisted removal of water contaminants
18746	Diego Aparecido Silva De Brito	Degradation of phenacetin in wastewater by electro-oxidation: Effect of variables and evaluation of acute toxicity
18752	Raquel Mambrini	Carbon dots based on polyurethane waste used to remove environmental contaminants
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