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1	Using a fuzzy logic-based temperature controller to synthesize iron oxide nanoparticles	Diego Fernando Coral
2	Correlated electronic and magnetooptical properties in quasi-2D structure of MnGaGe coatings prepared by magnetron sputtering.	Ravel de Moraes Telles Araujo
3	Using Synchrotron X-Ray Powder Diffraction to shed light on the phase-separation dynamics of highly-correlated manganites	Guilherme Kuhl Soares
4	X-ray study of surface structural and electronic fluctuations in the two-dimensional magnetic semiconductor Ni ₃ TeO ₆	Luisa Vargas Costa Freitas
5	Flow into the tubules: microbe–mineral interactions in deep sea fossils	Thales Chamarelli Felipe
6	Enhancing Spatial Resolution in Infrared Microspectroscopy Through Experimental PSF Estimation	Bruno Bassi Millan Torres
7	Decoding Chemical Dialogue at the Root-Fungus-Bacteria Interface via Synchrotron Imaging on a Microchip Platform	Djanira Rodrigues Negrao
8	Dynamics of magnetic and structural transitions in phase separated system	Vinicius Gomes Goursand
9	Development of a Multipoint Probe with DS18B20 Sensors for Measuring Soil Heat Flux	Jose Carlos Gomes Roberto
10	In-Situ Spatially Resolved Co and Cu K-Edge XANES of Co ₃ O ₄ /Cu _x O Catalysts for Electrochemical Nitrate-to-Ammonia Conversion	Rafael Galiza Yoshimura
11	Time-resolved tomography of carbonate rock dissolution under dynamic reactive flow at the Mogno beamline	Jair Rodrigues Neyra
12	Tracking the Translocation and Accumulation of Polymeric Nanocarriers Using Vanadium Tracer in Soybean Plants	Felipe Breda Alves
13	Mechanisms of Foliar Uptake of Tannin-Based Colloids for Controlled Nutrient Delivery in Plants.	Vanessa Silveira de Alencar Silva
14	In situ strain analysis by synchrotron X-ray diffraction, the digital Image correlation technique, and its implementation at PAINEIRA	Felipe Dias Faglion
15	Visualization of intra- and extraradicular structures of arbuscular mycorrhizal fungi by synchrotron X-ray tomography	Maria Clara Rufino dos Santos

16	Investigating a Soda-Lime-Silicate Glass and Glass-Ceramic under Extreme Conditions with Synchrotron Radiation	Rafael Abel da Silveira
17	Water-Based Polymeric Colloids and Plants: A Sustainable Pathway for Agricultural Technologies	Eduardo Ferreira Molina
18	Characterization of agarose nanoparticles obtained by w/o/w microemulsion	Andreios Onuzak Aires
19	USAXS and XPCS studies of gold nanoparticles confined into polyelectrolyte complex coacervate	Lucas Aguiar Portela
20	Unveiling laticifer networks in Swartzia langsdorffii fruit: Non-destructive 3D Imaging using synchrotron X-ray Nanotomography	Dalton Guimarães Veloso
21	Time-resolved synchrotron investigation of acid-induced mineral dissolution in rio bonito sandstones: implications for CO2 storage	Aluizio Jose Salvador
22	Assessment of the impact of the absence of soluble epoxide hydrolase enzyme in jawbone osteocytes in senescent mice	Mariana Quirino Silveira Soares
23	Investigation of Inorganic Nanostructured Sunscreens Formulated with Amazonian Rainforest Oils	Renata C. K. Kaminski
24	Study of microstructural alterations in carbonate rocks through synchrotron X-ray tomography during reactive flow experiments	Ketlyn Marley Gomes Oliveira
25	Probing Strain-Induced Structural and Electronic Modulations in P3HT:PCBM Nanofibers Using Synchrotron X-ray Diffraction	Yngrid Synara de Sena Silva
26	In-Depth Characterization of Lignocellulosic Materials Using the Single-Point μ FTIR Microspectroscopy Technique	Cícero Naves de Ávila Neto
27	Morphology and chemical composition of biomass burning aerosols	Lucas Cardoso Ramos
28	Was There a Barbecue? Understanding Human–Megafauna Interaction at the Santa Elina Archaeological Site during the Pleistocene	Mirian Liza Alves Forancelli Pacheco
29	A multi-scale analysis of the developing <i>Thoropa miliariseye</i> using X-ray ptychography and X-ray fluorescence	Tayane Tanure França
30	Visualizing how Mn-rich niches are formed in a cell model of lung carcinoma using Carnuba beamline: understanding the connection between Mn and malignancy in cancer	Isabella Cristina Abrahão dos Santos
31	High-Resolution 3D imaging of floral vascularization: Insights into meristic variation and organ fasciation in <i>Solanum</i> species	Fernando Israel Carneiro

32	Chemical Investigation of the Indium–Organic Complex Photoresist/Silicon Interface as a Function of EUV Irradiation and Depth	Cláudio César Weber Backes
33	Precision Anatomy of Drosophila using 3D Synchrotron-Based Microtomography	Samara Cristina Santos de Oliveira Marins
34	Crystal Truncation Rod Study of a Multi-Quantum-Level System on the Surface of MnBi_2Te_4 Topological Insulator Thin Films	Eduarda Policarpo Magalhães Campos
35	Phase Retrieval for propagation-based biological images: Comparative experimental analysis using PM and GPM transfer functions	Thaina Christyne de Alvarenga Ribeiro
36	Essential Oils as a Promising Strategy Against <i>Aedes aegypti</i> : Insights from Synchrotron Micro-CT	Katrine de Paiva Soares
37	Synchrotron X-ray Microtomography Reveals Structural Basis of Fire Retardant Toxicity in <i>Phaseolus vulgaris</i> Seeds	André Pereira de Almeida
38	Ex situ synchrotron investigation of heterostructured Cerium metal-organic framework photocatalyst systems	João Victor Viana da Silva
39	In Situ Probing of Structural and Electronic Transformations Driving Iridium Nanoparticle Exsolution	Keyla Teixeira Santos
40	MOGNO Beamline Synchrotron-Based X-Ray Microtomography Applied to Herpetological and Embryological Research	Gustavo Colaço Gonçalves
41	Efeito protetor do losartan nas artérias de ratos submetidos à radioterapia torácica	Elcio Antonio Correa Ribeiro
42	Comparação de segmentação automática e manual de imagens de micro-CT provenientes de aquisição esparsa de amostra biológica	Pedro Henrique Andrade dos Santos Monteiro
43	“Advanced Characterization of Metal–Organic Nanostructures (Nano-MOFs) and Their Potential for Sustainable Agriculture: An Integrated Approach Using Electron Microscopy and Application Studies.”	Maria Augusta Sant ana Carvalho
44	From Conventional CT to Synchrotron Perspectives: Advancing the Study of Female Genitalia in Rare Spiders	Cláudia Cristina Monteiro Castelo Branco Xavier
45	Efficient photocatalytic degradation of methylene blue using wet-chemically synthed CaSnO_3 nanoparticles	Monica Andrea Vargas
46	Physicochemical Characterization of Size-Segregated Atmospheric Aerosols by NEXAFS and XPS	João Basso Marques
47	Synchrotron NanoCT and FTIR Spectroscopy for Multiscale Analysis of Enamel Demineralization	Izabel Regina Fischer Rubira-Bullen

48	De morfologia animal à catálise: como a experiência com raios X em síncrotron permite atuar em diversas áreas.	Marcos Vinicius Colaco Goncalves
49	Circular Dichroism Analysis of Nucleic Acids Purified with Magnetic Beads under Different Lysis Conditions	Carolina Belén Otonelo
50	The mobility paradox: tracing calcium foliar absorption and transport in tomato plants	Eduardo Santos
51	Considering soil aggregates as composite materials to study the role of microplastics in the water-stable aggregates	Walter Ruggeri Waldman
52	Pressure-Induced Structural Transitions in Tantalum- and Antimony-Based Trirutile Oxides	Otávio Luiz Canton
53	Magnetic Affinity-Based Purification of His-Tagged Proteins Using Ni ²⁺ -Functionalized Nanoparticles: Insights from FTIR and Circular Dichroism at Sirius	Carla Layana
54	Competitive adsorption of phosphate and organic acids on Iron (Fe-) and Aluminum (Al-) oxy(hydroxides): Experimental, spectroscopic, and simulation insights	Yahaya Mohammad Yusuf
55	High pressure study of the halide perovskite Rb ₃ BiCl ₆ .	Vasco Stascxak Neto
56	High Pressure Single Crystal and Powder X-ray Diffraction comparative study in metal halide Rb ₂ InCl ₅ .H ₂ O perovskite	Maria Fernanda Oliveira Martínez
57	Phosphogypsum Application in Coffee Fields and its Impact on Carbon Sequestration & Storage	kaoutar boufous
58	Microscale Heterogeneous Distribution and Speciation of Phosphorus in tropical Soil Amended with Silicate-Enriched TSP	kaoutar benghzial
59	Surface characterization of Apeiba tibourbou leaves by scanning electron microscopy (SEM) and its relationship with chemical characterization	Carla Grazieli Azevedo da Silva
60	Porous media study with simultaneous NMR and X-ray tomography experiments using synchrotron light	Everton Lucas-Oliveira
61	Waveguiding hyperbolic phonon-polaritons in 2D Van der Waals heterostructures	Yuri Bernardes Marçal
62	Optimizing AFM Tip Geometry for Near-Field Interactions in Nanophotonics: Enhancing IR and THz Response through Modeling	João Victor Cunha Roppa
63	Tunable of optical properties in quasi-1D V ₂ O ₅ nanostructures by alkali ion intercalation	Marcus Vinicius de Paiva

64	Linking soil pore architecture assessed by synchrotron X-ray computed tomography to nitrous oxide pathways under land use systems in the Amazon biome	Thaís Nascimento Pessoa
65	3D Histoarchitecture of the Mouse Heart via Synchrotron Tomography	Murilo Carvalho
66	Modulating exsolution dynamics through composition control in high-entropy spinel oxides	Guilherme Boenny Strapasson
67	Integration of the high-pressure sample preparation for Oil & Gas experiments at Porous Media support Laboratory and users of the Mogno beamline	Tálisson Carvalho Borges
68	In situ and Operando Study of Reversible Metal Exsolution in High Entropy Oxides During Ethanol Steam Reforming	Fabiane de Jesus Trindade
69	Processing Single-Crystal Diffuse Scattering for 3D- Δ PDF Studies	Stefano Calabrez Mendes
70	Correlative cryogenic soft X-ray tomography and super-resolution fluorescence microscopy reveal the intracellular localization and stability of cubosome nanoparticles in complex media	Leandro R.S. Barbosa
71	In-situ X-ray powder diffraction studies of new electrode materials for symmetrical solid oxide fuel cells: phase transitions and chemical stability under both cathodic and anodic conditions	Santiago J.A. Figueroa
72	Applying new segmentation tools to soil aggregate images acquired at the MOGNO beamline	Aline Barbosa de Oliveira
73	Advanced characterization of defect energy levels in luminescence materials using synchrotron X-ray spectroscopy.	Giordano Frederico Da Cunha Bispo
74	A operando SOFC cell design for the QUATI beamline	Renato Oliveira
75	Charge ordering of underdoped YBa ₂ Cu ₃ O _{7-δ} thin films probed by Resonant Inelastic X-ray Spectroscopy	Natália Pincelli Westin
76	Esteato-Chip: A microfluidic 3D model for investigating NAFLD with FTIR imaging at IMBUA	Giovanna Blazutti Elias
77	The tetrahedral-hexahedral-octahedral transition of GeO ₂ glass at high pressure	Xinguo Hong