

PROGRESS REPORT

Scientific and Technical Production

Applications of Ionizing Radiation

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ANDRADE, LUANA dos S. *Study on ionizing radiation effects in diesel and crude oil: organic compounds: hydrocarbon, sulfur and nitrogen.*

ANDRADE, MAIRA F. de. *Comparison of the low level laser therapy effects ($\lambda=660$ nm ou $\lambda=780$ nm) in the treatment of ionizing radiation induced oral mucositis in rats.*

AREDES, VITOR O.G. *Neutronic characterization of cylindrical core of minor excess reactivity in the nuclear reactor IPEN/MB-01 from the measure of spatial and energetic distribution of neutron flux distribution.*

BELLEZZO, MURILLO. *Development of a GPU Monte Carlo software for photon transport in voxel structures.*

BERTOLINI, THARCILA C.R. *Comparative study on the adsorption of different classes of dyes in zeolites of coal ashes: kinetic and equilibrium modelling.*

BOMFIM, PAMELA K. dos S. *Development of the dental implants by powder metallurgy techniques.*

CAPELETI, FELIPE F. *Dosimetry for computed tomography and evaluation the dose profile using fricke gel dosimetry and magnetic resonance imaging.*

CARVALHO, DIEGO V. de S. *Collimator effects on image quality in industrial tomography third generation.*

CARVALHO, ROBERTO F. de. *Cloning, characterization and phylogenetic analysis of the alpha and beta subunits of the follicle stimulating hormone of Pirarucu (*Arapalma gigas*) in view of its synthesis in CHO cells.*

CASTRO, VINICIUS A. de. *Optimization of the irradiation beam in the bnct research facility at IEA-R1 reactor.*

CAVALCANTI, FABIO. *Development of a pulsed laser with emission at 1053 nm for Cavity Ring-Down Spectroscopy.*

COSTA, PRISCILA. *Development of methodology for characterization of cartridge filters from the IEA-R1 using the Monte Carlo method.*

COSTA, SANDRA M.C. *Investigation of cast iron corrosion resistance with microstructure pearlitic and bainitic in a synthetic solution of the condensate.*

FERNANDES, DANIELE G. *Isolation of antimicrobial peptides of frogs of the Brazilian fauna.*

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GERIBOLA, GUILHERME A. *Influence niobium coating on sulfidation resistance of FeCr and FeCrY alloys.*

GIAROLA, RODRIGO S. *Theoretical-experimental study of the radiometrical response on ionization chambers used in X ray beam dosimetry in diagnostic radiology.*

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GONCALVES, VINICIUS D. *Characterization of dose in patients due to production ox X-ray images used in image-guided radiotherapy - IGRT.*

GROPPO, GUILHERME H. *Availability of sup(210)Po present in phosphogypsum used in agriculture.*

HUET, SARAH D.P. *Study of hyperfine interactions in nanoparticles of Fe₃O₄ and Gd-doped Fe₃O₄ by perturbed angular correlation spectroscopy.*

JAZBINSEK, LUIZ A.R. *Investigation of alternative phosphating treatments for nickel and hexavalent chromium elimination.*

KIYAN, LUDMILA de Y.P. *Application of gamma irradiation for incorporation of rubber powder in the formulations EPDM and NBR rubber.*

KNOB, DANIEL. *Hydrogen production through water electrolysis using solar photovoltaic energy.*

KONDO, FERNANDO M. *Study of the effect of ionizing radiation for utilization of spent cracking catalysts.*

LIMA, MATEUS H. de. *Characterization of a free-air ionization chamber in direct X-ray beams as used in mammography.*

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of phosphogypsum in agriculture.

MANOCCHI, FABIO H. *222Rn monitoring in the radioactive storage IPEN.*

MASSI JUNIOR, LUIZ. *A temporary shelter with self-ruling infrastructure for victims of disasters.*

MATOS, IZABELA T. de. *Standardization of radionuclides F-18 and In-111 and determination of total internal coefficient of In-111 in a software coincidence system.*

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MIYANO, ROSANA S.L. *Studies of nickel powder compaction for production of irradiation targets.*

MUTARELLI, RITA de C. *Study of social responsibility of the Nuclear and Energy Research Institute of São Paulo (IPEN/CNEN-SP).*

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- OLIVEIRA, RICARDO de S. *Study of labelling of bombesin derivatives with 111-indium and 68-gallium and evaluation of biological properties for application in SPECT and PET.*
- PAULINO, ANDRE L. dos R. *Study of flow channel geometries in PEM fuel cells using computational fluid dynamics.*
- PEREIRA JUNIOR, SERGIO M. *Cu, Cr and As determination in preserved woods, Eucalyptus ssp, by x-ray fluorescence spectrometries.*
- PESQUEIRA, ELIANA I. de O. *Evaluation of insertion and removal forces and fracture strength of mini-implants used in orthodontic treatments in different regions of maxilla and jaw.*
- PINTO, REGIANE de S. *High power Nd:YAG laser with high stability and beam quality.*
- PORTO JUNIOR, ALMIR C.S. *Development of a system for monitoring and diagnosis using fuzzy logic in control valves of Laboratory Test Equipment of Experimental Center ARAMAR.*
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- SALUTTE, CAIO de O. *Investigation of semi-conductor oxide CeO₂ doped with Fe and La by means of perturbed angular gamma-gamma correlation technique.*
- SANTOS, IGOR P. dos. *Processing and characterization of sintered steel for use in valve seat inserts.*
- SANTOS, OLAIR dos. *Chemical treatment studies on nuclear fuel plates surface.*
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CARRIEL, RODRIGO C. *Characterization of TiO₂ thin films obtained by metal-organic chemical vapour deposition.*

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MARTINS, IGOR C.P. *Microstructural and mechanical evaluation of Incoloy 945 after heats treatment.*

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PISTARINI, LUCIANA C.Y. *Evaluation in potential of live in regenerative Walleriana degeneration peripheral nerve - with laser use low power and compound multivitamin 3-NERVE.*

PORTO, LUCIANA V.F.M. *Worst-case study for cleaning validation of equipments in the radiopharmaceutical production of lyophilized reagents. Metodology validation of total organic carbon.*

PRETTO, LUCAS R. de. *Development of an optimized algorithm for the characterization of microflow using speckle patterns present in optical coherence tomography signal.*

QUINHONEIRO, FERNANDO H.F. *A methodology approach for analysis of sustainability indicators as a tool for decision making using fuzzy logic.*

REIS JUNIOR, JOSE S.B. *Methods and software for scientific production analysis and detection of emerging research trends.*

REZENDE, RENATO P. *Weld joints stainless steel tube austenitic AISI 348 for fuel rods in nuclear reactors.*

ROCHA, ROSIANA R. *Assessment of atmospheric pollution of chemical elements by epiphytic lichen analysis at the campus of the São Paulo University.*

RODRIGUES, BRUNA T. *Study and development of methodology for fixing iodine in radioactive sources used for polymeric substrate production in brachytherapy.*

SANTOS e SILVA, ED C. *Australian snake venoms as a potencial alternative for anti-elapidic serum production.*

SANTOS, DIOGO F. dos. *Characterization of the neutronic fields obtained by means of flux traps from heavy water (D2O) inside the core of the IPEN/MB-01 nuclear reactor.*

SARTORI, MARIANA do N. *Study and development of nanocomposites PBT/bentonite clay treated by ionizing radiation - preparation and characterization.*

SEVILHANO, THAIS C. dos A. *Isolation, characterization and phylogentic analysis of the alpha and beta subunits fo luteinizing hormone of pirarucu (Arapaima gigas).*

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SILVA, ANA C.C. da. *Nanotechnology in diagnosis and therapy in Brazil.*

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SILVA, NATAN V. da. *Production and study of the antiangiogenic activity of the fusion proteins endostatin-BH3 domain of the pro-apop-*

toxic proteins PUMA and BIM.

SILVA, PAULO S.M. da. ***Design, construction and testing of a system of electrical measurements and composites study of zirconia-yttria and titanium nitride.***

SORDO FILHO, GIOVANNI del. ***Metal ion adsorption study in kaolinite for applications in water reuse.***

SOUZA, JULIANA P. de. ***Evaluation of aluminosilicate glass sintering during differential scanning calorimetry.***

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ADAME, GISELE. ***Development and validation method for extraction and quantification of phenolics compounds in sediment. Case study: Reservoir Guarapiranga, SP.***

ALCARDE, LAIS F. ***Study radiolabeling of urea-based PSMA inhibitor with 68-gallium comparative evaluation of automated and not automated methods.***

ALVES, LUANA F.N. ***Determination of metals in lubricating oils by laser induced breakdown***

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ALVES, LUCAS C. ***Characteristics of chromium from electroplating sludge: technical and economic evaluation of removal processes.***

AMBROGI, JESSICA B. ***Evaluation of essential and toxic elements in foods from São Paulo population diet, according to 2008-2009 POF.***

ANA, VANESSA DA. ***The flexibility of competence and regulatory process regarding safety and radiation protection.***

ANGELOCCI, LUCAS V. ***Clinical cases study on radiotherapy using treatment planning system AMIGOBrahy.***

ARATA, ANELYSE. ***Y-TZP dental ceramic low temperature degradation: microstructural analysis and mechanical properties evaluation.***

ARAUJO, MARIANA S. de. ***Use of rice rusk ash and spent catalyst as a source of raw material for the production and characterization of soda-lime silicate glasses destined for packaging.***

BERECZKI, ALLAN. ***Development of a polarized DPSSL laser with over 100 W of power with beam parameter near one.***

BOIANI, NATHALIA F. ***Removal of toxicity the pharmaceutical propranolol and your mixture with fluoxetine hydrochloride in aqueous solution using radiation with electron beam.***

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CASTRO, LEONARDO F. ***Self-organizing maps applied to two-phase flow on natural circulation loop study.***

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FERREIRA, MAIARA S. *Detention of chitosan of crab shell of *Charybdis hellerii* in movies polymeric obtained from use with radiation ionizing.*

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NASCIMENTO, CARLOS E. *Superabsorbent synthesis of polymeric biodegradable through reactive extrusion of Poly (vinyl alcohol) and starch, in the presence of aldehyde and glyoxilic acid, for agricultural use.*

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OCAMPO, IVETTE Z. *Comparison and validation of classical and modified techniques for studies of genotoxic potential of peptides used in radiopharmaceuticals production.*

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ZARPELON, LIA M. *Study of electrochemical and microstructural characteristics of lanthanide-based metallic hydride electrodes with alloying additions.*

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ARAKAKI, ALEXANDER R. *Synthesis and processing study of nickel oxide - doped ceria composites used as anode of intermediate temperature solid oxide fuel cells (IT-SOFC).*

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BRITO, CARLOS F. de. *Evaluation of effects of the beltway construction on the quality of water and sediment from Represa do Parque Pedroso, Santo Andre-SP, Brazil. Geochemical study of polycyclic aromatic hydrocarbons (PAHs), metals and trace elements to the public supply.*

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DRESCH, MAURO A. *Application of PtSn/C catalysis and Nafion-SiOsub(2) membranes in direct ethanol fuel cell a high temperatures.*

DUARTE, RENATO C. *Study of bioactive compounds in spices (*Syzygium aromaticum* L, *Cinnamomum zeylanicum* Blume and *Myristica fragrans* Houtt) processed by ionising radiation.*

FABBRI, ADRIANA D.T. *microbiological, physicochemical and sensorial evaluation of irradiated fruit salads ready for the consumption by immunocompromised individuals.*

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COSTA, OSVALDO L. da. *Study and development of a new methodology for production of iodine-125 from xenon-124 through the method of neutron activation.*

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