

Curriculum Vitae

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Main research interests:

Microwave and Optoelectronic Semiconductor Devices
Microwave Planar Antennas and Components
Mobile and Wireless Communications
Biological Effects of Non Ionizing Radiation

Papers published in periodicals and in conference digests.

Salles, A. A. de, Bulla, G., Fernández, C. R., "Electromagnetic Absorption in the Head of Adults and Children due to Mobile Phone Operation Close to the Head". Electromagnetic Biology and Medicine. , v.25, p.349 - 360, 2006.

Salles, A.A. de , Fernández, C. R., "Exclusion Zones Close to Wireless Communication Transmitters Aiming to Reduce Human Health Risks". Electromagnetic Biology and Medicine. v.25, p.339 - 347, 2006.

Ferreira, A.R. , Fernández, C. R., Salles, A. A. de, "Oxidative Stress effects on the central nervous system of rats after acute exposure to ultra high frequency electromagnetic fields". Bioelectromagnetics. , v.27, p.487 - 493, 2006.

Ferreira, A.R., Fernández, C. R., Salles, A. A. de, "Ultra high frequency-electromagnetic field irradiation during pregnancy leads to an increase in erythrocytes micronuclei incidence in rat offspring". Life Sciences. , v.80, p.43 - 50, 2006.

Bulla, G., Pedra, A. C., Salles, A . A. de, Monser, G., Fernández, C.E., "Comparison of Electromagnetic Absorption Characteristics in the Head of Adult and Children for 1800 MHz and 850 MHz Mobile Phones", In: 2006 Microwave Optoelectronics and Magnetism Conference (MOMAG 2006) Proc., Belo Horizonte, Minas Gerais, Brazil August 21-24, 2006.

Fernández, C., Bulla, G., Pedra, A. C., Salles, A. A. de, "Comparison of Electromagnetic Absorption Characteristics in the Head of Adult and Children for 1800 MHz Mobile Phones" , In:2005 International Microwave and Optoelectronics Conference (IMOC 2005) Proc., Brasilia, Brazil, July 2005.

Ferreira, A.R., Fernández, C. R., Salles, A. A. de, "Ultra high frequency electromagnetic field effects in erythrocytesmicronuclei frequency and birth rate of rats prenatally irradiated", In: 2005 SBMO/IEEE MTT-S International Conference on Microwave and Optoelectronics Proc., 2005, Brasilia, DF, Brazil, v.1, p.529 – 533.

Fernández, C. R. , Bonadiman, M. , Salles, A. A. de, "FDTD simulations and measurements for cell phone with planar antennas". Annales des Télécommunications. Paris, France, v. 59, n. 9, 2004, pp.1012 – 1030.

Salles, A. A de, Fernández, C. R., Bonadiman, M., "FDTD Simulations and Measurements on Planar Antennas for Mobile Phones", In: 2003 SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference Proc, Foz do Iguassú, Paraná, Brazil, vol. II, 2003, pp-1043-1048.

Salles, A. A. de, Fernández, C. R., Bonadiman, M., "FDTD Simulations and Measurements for Cell Phone with Planar Antennas", In: 4 ème Conférence Européene sur les Méthodes Numériques en Electromagnétisme, 2003, Toulouse, France, Numelec 2003, Toulouse, France: Ecole Nationale Supérieure d'Electrotechnique, d'Electronique, d'Informatique et d'Hydraulique, v. I.

Salles, A. A. de, Bonadiman, M., Fernández, C. R., "Far Field, Near Field and SAR Simulation for Cell Phones Operating Close to the Head", In: ITS 2002 – International Telecommunications Symposium Proceedings. Natal, Universidade Federal do Rio Grande do Norte, Brazil, 2002, v.1, pp.89 – 94.

Salles, A. A. de, "Biological Effects of Microwaves and RF" ("Invited Paper"), In: 1999 SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference Proceedings, Rio de Janeiro, Brazil, 1999, v.1. , pp.611 – 617.

Salles, A. A. de, "Noise Performance of HBT as Photodetector in Analog Fiber-Optic Communications Link", In: 1997 SBMO/IEEE MTT-S International Microwave and Optoelectronic Conference Digest, Natal, RN, Brazil, 1997, pp.338 – 343.

Barros Jr, L. M., Paollela, L.M., Herczfeld, P., Salles, A. A. de, "The Optical Performance of Microwave Transistors", In: 1996 IEEE MTT-S International Microwave Symposium Digest, San Francisco, USA, v.3, 1996, pp.1445 - 1448.

Salles, A. A. de, "Improved Model for the GaAs HBT Frequency Performance Under Optical Illumination", In: 1995 SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference Proceedings, Rio de Janeiro, Brazil, v.2., 1995, pp.767 – 772.

Salles, A. A. de, Spalding, L. N., "A Simple Model for the GaAs HBT High-Frequency Performance under Optical Illumination", In: Microwave and Optical Technology Letters. New York, USA. , v.7, n.9, 1994. pp.392 – 395.

Salles, A. A. de, "Microwave Photonics R & D in Brazil" ("Invited Paper"), In: Microwave and Optical Technology Letters. New York, USA., v.6, n.1, 1993, pp.50 – 55.

Salles, A. A. de, "Optical Control of Heterostructure Millimeter-Wave Transistors" ("Invited Paper"), In: 1991 SBMO International Microwave Conference Proceedings, Rio de Janeiro, Brazil, 1991, v.1. pp.598 – 607.

Salles, A. A. de, Romero, M. A., "Theory and Experiment for the HEMTs Under Optical Illumination", In: 1991 IEEE MTT-S International Microwave Symposium Digest, Boston USA, 1991, v.2, pp.495 – 498.

Salles, A. A. de, Romero, M. A., "AlGaAs/GaAs HEMT's Under Optical Illumination", In: IEEE Transactions on Microwave Theory and Techniques, New York, USA, v.39, n.12, 1991, pp.2010 – 2017.

Salles, A. A. de, "InGaAsP DC-PBH Semiconductor Laser Diode Frequency Response Model", In: IEEE Transactions on Microwave Theory and Techniques, New York, USA, v.38, n.5, 1990, pp.677 - 679.

Salles, A. A. de, Seeds, A. J., "Optical Control of Microwave Semiconductor Devices" ("Invited Paper"), In: IEEE Transactions on Microwave Theory and Techniques. New York, USA, v.38, n.5, 1990, pp.577 – 585.

Salles, A. A. de, "Optical Effects in HEMTs", In: Microwave and Optical Technology Letters. New York, USA, v.3, n.10, 1990, pp.350 – 354.

Salles, A. A. de, "Teaching Electromagnetics to Undergraduates in Brazil" ("Invited Paper"). In: IEEE Transactions on Education, New York, USA, v.33, n.1, 1990, pp.24 – 25.

Salles, A. A. de, Rocco, M. T. M., "Dual Gate MESFET for Flat Microwave Response of Directly Modulated Laser Diode", In: Microwave and Optical Technology Letters. New York, USA: , v.2, n.12, 1989, pp.415 - 418.

Salles, A. A. de, "Microwaves In Brazil: Significant Research And Development Activities" (Invited Paper), In: 1988 IEEE MTT-S International Microwave Symposium Digest, v.1, New York, USA, 1988, pp.1019 – 1022.

Salles, A. A. de, Carvalho, M. C. R., "Flat Microwave Response Of Directly Modulated Laser Diodes", In: 1986 IEEE MTT-S International Microwave Symposium Digest, Baltimore, USA, 1986, v.1, pp.523 – 526.

Salles, A. A. de, "An Analysis Of The Optical Injection Locking Of GaAs Mesfet Oscillators" (Invited Paper), In: Proceedings of 1984 SPIE: Optical Technology for Microwave Applications. Arlington, Virginia, USA, 1984, v.477, pp.114 – 118.

Salles, A. A. de, "Optical Control Of GaAs Mesfets", In: IEEE Transactions on Microwave Theory and Techniques. New York, USA. v.31, n.10, 1983, pp.812 – 820.

Salles, A. A. de, "Design And Performance Of Dual Gate GaAs Mesfet Up-Converter". In: 1983 IEEE MTT-S International Microwave Symposium Digest, Boston , Massachusetts, USA.

Forrest, J. R., Salles, A. A. de, "Optical Control of Signal Processing", In: Electronics Product Design, USA: , v.11, n.12, 1982, pp.65 – 66.

Forrest, J. R., Salles, A. A. de, "Optoelectronic devices for microwave control", In: International Fiber Optics and Communications Magazine, USA, v.4, 1982, pp.130 – 134.

Austin, J., Schoenenberger, J.G., Salles, A. A. de, Forrest, J. R., "A High Phase Accuracy Active Phased Array Module For Multi-Function Radars", In: 1982 IEEE MTT-S International Microwave Symposium Digest, Dallas ,USA, 1982, v.1, p.175 - 181.

Forrest, J. R., Salles, A. A. de, Austin, J., Price, D., Schoenenberger, J.G., "Optical Fibre Networks For Signal Distribution And Control In Phased Array Radars". In: RADAR 1982 IEE International Conference Proc.. London, England, UK. IEE, 1982, v.1, pp.408 –412.

Salles, A. A. de, Forrest, J. R., "Initial Observations Of Optical Injection Locking Of GaAs Metal Semiconductor Fet Oscillators". In: Applied Physics Letters, The Institute of Physics, USA, v.38, n.5, 1981, pp.392 – 394.

Forrest, J. R., Salles, A. A. de, "Optics Control Microwaves", In: Microwave Systems News, USA, EW Communications Inc., v.11, n.6, 1981, pp.112 – 122.

Salles, A. A. de, Forrest, J. R., Theory And Experiment For The GaAs Mesfet Under Optical Illumination, In: 11th European Microwave Conference Proceedings, 1981, Amsterdam, Holland, EuMC, 1981, v.1, pp.280 – 285.

Salles, A. A. de, Assis, M. S., "Some Topics On The Application Of Millimeter Waves In Tropical And Equatorial Regions", In: 1971 IECE International Symposium on Antennas and Propagation Proceedings , Sendai , Japan, v.1, 1971, pp.241 – 242.