

Electromagnetic Fields

[View the current Electromagnetic Fields InDepth page on BioPortfolio.com \(PDF\)](#)
(http://www.bioportfolio.com/indepth/Electromagnetic_Fields.html) - Regularly Updated.

Recent Publications on Electromagnetic Fields:



- [Marginally unstable periodic orbits in semiclassical mushroom billiards.](#)
*Optical mushroom-shaped billiards offer a unique opportunity to isolate...*13th November, 2009
Department of Applied Physics, Yale University, New Haven, Connecticut- *Phys Rev Lett.* 2009 Oct 9;103(15):154101. Epub 2009 Oct 8.
- [Sampling distributions of random electromagnetic fields in mesoscopic or dynamical systems.](#)
*We derive the sampling probability density function (pdf) of an ideal...*13th November, 2009
Time, Quantum and Electromagnetics Division, National Physical Laboratory,- *Phys Rev E Stat Nonlin Soft Matter Phys.* 2009 Sep;80(3 Pt 2):036601. Epub
- [\[Effect of pulsed electromagnetic field on the changes of osteoclasts in ovariectomized rats bone marrow culture in vitro\]](#)
*OBJECTIVE: To investigate the effect of pulsed electromagnetic fields...*12th November, 2009
Institute of Orthopaedics, Lanzhou General Hospital of Lanzhou Military- *Zhongguo Gu Shang.* 2009 Oct;22(10):727-9.
- [DNA Fragmentation in Human Fibroblasts Under Extremely Low Frequency Electromagnetic Field Exposure.](#)
*Extremely low-frequency electromagnetic fields (ELF-EMF) were reported to...*10th November, 2009
Institute of Biochemistry and Genetics, Department of Biomedicine,- *Mutat Res.* 2009 Nov 5. ([DOI Direct Link](#))
- [Focusing of spatially inhomogeneous partially coherent, partially polarized electromagnetic fields.](#)
*We report a general framework capable of describing the focusing of...*4th November, 2009
Blackett Laboratory, Department of Physics, Imperial College London,- *J Opt Soc Am A Opt Image Sci Vis.* 2009 Nov;26(11):2470-9. doi:
- [Definition and invariance properties of the complex degree of spatial coherence.](#)
*Within the framework of the phase-space representation of random...*4th November, 2009
Physics School, Universidad Nacional de Colombia Sede Medellin, A.A. 3840- *J Opt Soc Am A Opt Image Sci Vis.* 2009 Nov;26(11):2459-65. doi:
- [Reactive power in the full Gaussian light wave.](#)
*The electric current sources that are required for the excitation of the...*4th November, 2009
- *J Opt Soc Am A Opt Image Sci Vis.* 2009 Nov;26(11):2427-33. doi:
- [Free-space asymptotic far-field series.](#)
*A systematic procedure for deriving the complete asymptotic series in...*4th November, 2009
Dipartimento di Elettronica Applicata, Universita Roma Tre, I-00146 Rome,- *J Opt Soc Am A Opt Image Sci Vis.* 2009 Nov;26(11):2410-7. doi:

- [Electromagnetic fields and modal excitations on a thin silver film.](#)
*In this paper we extend the fast-all-modes method and the numerical...*4th November, 2009
Department of Electrical Engineering, University of Washington, Seattle,- J Opt Soc Am A Opt Image Sci Vis. 2009 Nov;26(11):2362-7. doi:
- [Three-dimensional scattering by an infinite homogeneous anisotropic elliptic cylinder in terms of Mathieu functions.](#)
*A solution to the problem of three-dimensional scattering by an infinite...*4th November, 2009
School of Science, Xidian University, Xi'an, Shaanxi 710071, China.- J Opt Soc Am A Opt Image Sci Vis. 2009 Nov;26(11):2282-91. doi:
- [Stress-related endocrinological and psychopathological effects of short- and long-term 50Hz electromagnetic field exposure in rats.](#)
*It is believed that different electromagnetic fields do have beneficial...*4th November, 2009
Department of Physiology and Neurobiology, Institute of Biology, Eotvos- Brain Res Bull. 2009 Oct 31. ([DOI Direct Link](#))
- [Lack of teratogenicity after combined exposure of pregnant mice to CDMA and WCDMA radiofrequency electromagnetic fields.](#)
*Concern about the possible adverse effects of radiofrequency (RF)-field...*4th November, 2009
Division of Radiation Effects, Korea Institute of Radiological and Medical- Radiat Res. 2009 Nov;172(5):648-52. ([DOI Direct Link](#))
- [Signal transduction of the melatonin receptor MT1 is disrupted in breast cancer cells by electromagnetic fields.](#)
*The growth of estrogen-receptor positive breast cancer cells is inhibited...*3rd November, 2009
Department of Gynecology and Obstetrics, University of Gottingen,- Bioelectromagnetics. 2009 Oct 30. ([DOI Direct Link](#))
- [Degree of polarization in 3D optical fields generated from a partially polarized plane wave.](#)
*We show that, for 3D random electromagnetic fields that are created by...*3rd November, 2009
- Opt Lett. 2009 Nov 1;34(21):3394-6. doi: 10.1364/OL.34.003394.
- [Exposure to 1800 MHz radiofrequency radiation induces oxidative damage to mitochondrial DNA in primary cultured neurons.](#)
*Increasing evidence indicates that oxidative stress may be involved in the...*3rd November, 2009
Department of Occupational Health, Third Military Medical University,- Brain Res. 2009 Oct 30. ([DOI Direct Link](#))

Electromagnetic Fields Clinical Trials:



- [A Study of Therapeutic Amplitude-Modulated Electromagnetic Fields in Advanced Tumors](#)



Electromagnetic Fields Patents:

- 7602614- [Electronic module and method for the production thereof](#)
- 7608919- [Interconnect packaging systems](#)
- 7608949- [Sliding door comprising a magnetic support and/or drive system comprising a row of magnets](#)
- 7608976- [Electroactive co-polymer systems and devices using the same](#)
- 7609001- [Optical magnetron for high efficiency production of optical radiation and related methods of use](#)
- 7609065- [System and method for locating an anomaly](#)
- 7609066- [Apparatus and method for measuring micro-resistivity anisotropy](#)
- 7609109- [Contactless IC card system](#)
- 7609147- [Method and apparatus for improving wireless data transmission](#)
- 7609203- [Method for ephemeris assisted global positioning](#)
- 7609290- [Surveillance system and method](#)
- 7608798- [Plasma catalyst](#)
- 7608037- [Remotely located pleasure devices](#)
- 7608035- [Method and morphologically adaptable apparatus for altering the charge distribution upon living membranes with functional stabilization of the membrane physical electrical integrity](#)
- 7602668- [Downhole sensor networks using wireless communication](#)
- 7603950- [Device for impact detection](#)
- 7604601- [Display of catheter tip with beam direction for ultrasound system](#)
- 7605410- [Semiconductor device and manufacturing method thereof](#)
- 7605715- [Electromagnetic wellbore telemetry system for tubular strings](#)
- 7605718- [Monitoring device for transport pods](#)
- 7606137- [Cancellation systems for multicarrier transceiver arrays](#)
- 7606592- [Waveguide-based wireless distribution system and method of operation](#)
- 7606613- [Navigational guidance via computer-assisted fluoroscopic imaging](#)
- 7607238- [Digital depth gauge](#)
- 7609500- [Universal energy conditioning interposer with circuit architecture](#)
- 7609501- [Manufacture including shield structure](#)
- 7613271- [Formation of a field reversed configuration for magnetic and electrostatic confinement of plasma](#)
- 7613497- [Energy transfer amplification for intrabody devices](#)
- 7613523- [Aesthetic thermal sculpting of skin](#)
- 7615727- [Appliance for heating meals](#)
- 7615776- [Method of self-assembling electronic circuitry and circuits formed thereby](#)
- 7615841- [Design structure for coupling noise prevention](#)
- 7616017- [Probe station thermal chuck with shielding for capacitive current](#)
- 7616304- [System and method for providing a tunable optical parametric oscillator laser system that provides dual frequency output for non-linear vibrational spectroscopy and microscopy](#)
- 7616968- [System and method to facilitate overcoming a degradation in transmission through a radiating transmission line communication system](#)
- 7617005- [Methods and apparatus for thermally-induced renal neuromodulation](#)
- 7612866- [Lithography system](#)
- 7612641- [Simplified surface-mount devices and methods](#)
- 7612566- [Method and apparatus for the use of multicomponent induction tool for geosteering and](#)

[formation resistivity data interpretation in horizontal wells](#)

- 7610027- [Method and apparatus to maintain specification absorption rate at a wireless node](#)
- 7610071- [Tunable, superconducting, surface-emitting terahertz source](#)
- 7610072- [Superconductive stripline filter utilizing one or more inter-resonator coupling members](#)
- 7610097- [Electromagnetic stimulation in patients with osteoporosis](#)
- 7610100- [Methods and systems for treating osteoarthritis](#)
- 7610101- [RF rejecting lead](#)
- 7610416- [Systems and methods for controlling rise and fall times of USB signals](#)
- 7611358- [Method of coupling circuit board connectors](#)
- 7611453- [Apparatus and method for static magnetic field treatment of tissue, organs, cells, and molecules](#)
- 7612443- [Inter-chip communication](#)
- 7617474- [System and method for providing defect printability analysis of photolithographic masks with job-based automation](#)

Resources from the [NCBI](#) used in this document, [NCBI's standard disclaimer applies](#).

Nothing in this document should be used in place of personal medical advice from your own qualified medical practitioner. See BioPortfolio.com [User Agreement](#)

Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

All rights reserved. All other trademarks recognized.

BioPortfolio Limited is registered in England & Wales at Stafford House, 10 Prince of Wales Road, Dorchester, Dorset, DT1 1PW, UK. No.3312883 VAT No. GB 744 6483 10

Copyright 1997-2009 - BioPortfolio Limited.

