

### **Randomized Multiresolution Scanning in Focal and Fast E/MEG Sensing of Brain Activity with a Variable Depth**

Rezaei, A., Koulouri, A. & Pursiainen, S., 2020, In : Brain Topography. 33, 2, p. 161-175 15 p.

Research output: Contribution to journal > Article > Scientific > peer-review

### **A mathematical model and iterative inversion for fluorescent optical projection tomography**

Koljonen, V., Koskela, O., Montonen, T., Rezaei, A., Belay, B., Figueiras, E., Hyttinen, J. & Pursiainen, S., 18 Feb 2019, In : Physics in Medicine and Biology. 64, 4, 045017.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Electroencephalographic signals during anesthesia recorded from surface and depth electrodes**

Jääntti, V., Ylisen, T., Subramaniam, N. P., Kamata, K., Yli-Hankala, A., Kauppinen, P. & Sonkajärvi, E., 3 Oct 2018, In : International Journal of Radiation Biology. 94, 10, p. 934-943 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage**

Abu Khamidakh, A. E., Rodriguez-Martinez, A., Kaarniranta, K., Kallioniemi, A., Skottman, H., Hyttinen, J. & Juuti-Uusitalo, K., 31 Jul 2018, In : BioMedical Engineering Online. 17, 1, 102.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Lead field theory provides a powerful tool for designing microelectrode array impedance measurements for biological cell detection and observation**

Böttrich, M., Tanskanen, J. M. A. & Hyttinen, J. A. K., 26 Jun 2017, In : BioMedical Engineering Online. 16, 1, 85.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Functional brain segmentation using inter-subject correlation in fMRI**

Kauppi, J-P., Pajula, J., Niemi, J., Hari, R. & Tohka, J., 1 May 2017, In : Human Brain Mapping. 38, 5, p. 2643-2665 23 p.

Research output: Contribution to journal > Article > Scientific > peer-review

### **A Mixed Finite Element Method to Solve the EEG Forward Problem**

Vorwerk, J., Engwer, C., Pursiainen, S. & Wolters, C. H., 1 Apr 2017, In : IEEE Transactions on Medical Imaging. 36, 4, p. 930-941 12 p., 7731161.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Method for Simulating Dose Reduction in Digital Breast Tomosynthesis**

Borges, L. R., Guerrero, I., Bakic, P. R., Foi, A., Maidment, A. D. A. & Vieira, M. A. C., 2017, In : IEEE Transactions on Medical Imaging. 36, 11, p. 2331-2342

Research output: Contribution to journal > Article > Scientific > peer-review

### **Spinal cord injury induces widespread chronic changes in cerebral white matter**

Ilvesmäki, T., Koskinen, E., Brander, A., Luoto, T., Öhman, J. & Eskola, H., 2017, In : Human Brain Mapping. 38, 7, p. 3637-3647

Research output: Contribution to journal > Article > Scientific > peer-review

### **Simulation of developing human neuronal cell networks**

Lenk, K., Priwitzer, B., Ylä-Outinen, L., Tietz, L. H. B., Narkilahti, S. & Hyttinen, J. A. K., 30 Aug 2016, In : BioMedical Engineering Online. 15, 1, 105.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Simple estimation of induced electric fields in nervous system tissues for human exposure to non-uniform electric fields at power frequency**

Tarao, H., Miyamoto, H., Korpinen, L., Hayashi, N. & Isaka, K., 25 May 2016, In : Physics in Medicine and Biology. 61, 12, p. 4438-4451 14 p.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Application of the ELDO approach to assess cumulative eye lens doses for interventional cardiologists**

Farah, J., Struelens, L., Auvinen, A., Jacob, S., Koukorava, C., Schnelzer, M., Vanhavere, F. & Clairand, I., 1 Apr 2015, In : Radiation Protection Dosimetry. 164, 1-2, p. 84-88 5 p., ncu315.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **MR image texture in Parkinson's disease: A longitudinal study**

Sikiö, M., Holli-Helenius, K. K., Harrison, L. C. V., Ryymin, P., Ruottinen, H., Saunamäki, T., Eskola, H. J., Elovaara, I. & Dastidar, P., 2015, In : Acta Radiologica. 56, 1, p. 97-104 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Diffusion tensor imaging of the cervical spinal cord in healthy adult population: Normative values and measurement reproducibility at 3t mri**

Brander, A., Koskinen, E., Luoto, T. M., Hakulinen, U., Helminen, M., Savilahti, S., Ryymin, P., Dastidar, P. & Öhman, J., 2014, In : Acta Radiologica. 55, 4, p. 478-485 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Evaluation of overall setup accuracy and adequate setup margins in pelvic image-guided radiotherapy: Comparison of the male and female patients**

Laaksomaa, M., Kapanen, M., Tulijoki, T., Peltola, S., Hyödynmaa, S. & Kellokumpu-Lehtinen, P. L., 2014, In : MEDICAL DOSIMETRY. 39, 1, p. 74-78 5 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **A correlation study of eye lens dose and personal dose equivalent for interventional cardiologists**

Farah, J., Struelens, L., Dabin, J., Koukorava, C., Donadille, L., Jacob, S., Schnelzer, M., Auvinen, A., Vanhavere, F. & Clairand, I., Dec 2013, In : Radiation Protection Dosimetry. 157, 4, p. 561-569 9 p., nct180.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Iron overload of hematological origin: validation of a screening procedure for cardiac overload by MRI in routine clinical practice.**

Ernst, O., Thuret, I., Petit, P., Ameur, F., Loundou, A. D., de Kerviler, E., Izzillo, R., Willig, A. L., Pascal, L., Verlhac, S., Mordon, S., Fenaux, P. & Rose, C., Jun 2013, In : Diagnostic and interventional imaging. 94, 6, p. 601-608 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **CT and MRI imaging at the acute phase of inaugural non-traumatic hepatic haemorrhages**

Boulouis, G., Marmin, C., Lemaire, S., Boury, S., Sergent, G., Mordon, S. & Ernst, O., 2013, In : JOURNAL DE RADIOLOGIE DIAGNOSTIQUE ET INTERVENTIONNELLE. 94, 3, p. 292-299 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Mathematical modelling of the action potential of human embryonic stem cell derived cardiomyocytes**

Paci, M., Sartiani, L., Del Lungo, M., Jaconi, M., Mugelli, A., Cerbai, E. & Severi, S., 28 Aug 2012, In : BioMedical Engineering Online. 11, 61.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Complete electrode model in EEG: Relationship and differences to the point electrode model**

Pursiainen, S., Lucka, F. & Wolters, C. H., 21 Feb 2012, In : Physics in Medicine and Biology. 57, 4, p. 999-1017 19 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Computed tomography of the parathyroids: The value of density measurements to distinguish between parathyroid adenomas of the lymph nodes and the thyroid parenchyma**

Marmin, C., Toledano, M., Lemaire, S., Boury, S., Mordon, S. & Ernst, O., 2012, In : Diagnostic and interventional imaging. 93, 7-8, p. 597-603 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **A model to estimate the outcome of prostate cancer photodynamic therapy with TOOKAD soluble WST11**

Betrouni, N., Lopes, R., Puech, P., Colin, P. & Mordon, S., 7 Aug 2011, In : Physics in Medicine and Biology. 56, 15, p. 4771-4783 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Focal Laser Ablation of Prostate Cancer: Numerical Simulation of Temperature and Damage Distribution**

Marqa, M. F., Colin, P., Nevoux, P., Mordon, S. R. & Betrouni, N., 2 Jun 2011, In : BioMedical Engineering Online. 10, 45.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Long-term MRI findings of patients with embolized cerebral aneurysms**

Pyysalo, L. M., Keski-Nisula, L. H., Niskakangas, T. T., Kähärä, V. J. & Öhman, J. E., Mar 2011, In : Acta Radiologica. 52, 2, p. 204-210 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review