

Rezaei A, Koulouri A, Pursiainen S. **Randomized Multiresolution Scanning in Focal and Fast E/MEG Sensing of Brain Activity with a Variable Depth.** *Brain Topography*. 2020;33(2):161-175. <https://doi.org/10.1007/s10548-020-00755-8>

Koljonen V, Koskela O, Montonen T, Rezaei A, Belay B, Figueiras E et al. **A mathematical model and iterative inversion for fluorescent optical projection tomography.** *Physics in Medicine and Biology*. 2019 Feb 18;64(4). 045017. <https://doi.org/10.1088/1361-6560/aafd63>

Jääntti V, Ylinen T, Subramaniyam NP, Kamata K, Yli-Hankala A, Kauppinen P et al. **Electroencephalographic signals during anesthesia recorded from surface and depth electrodes.** *International Journal of Radiation Biology*. 2018 Oct 3;94(10):934-943. <https://doi.org/10.1080/09553002.2018.1478159>

Abu Khamidakh AE, Rodriguez-Martinez A, Kaarniranta K, Kallioniemi A, Skottman H, Hyttinen J et al. **Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage.** *BioMedical Engineering Online*. 2018 Jul 31;17(1). 102. <https://doi.org/10.1186/s12938-018-0535-z>

Bötttrich M, Tanskanen JMA, Hyttinen JAK. **Lead field theory provides a powerful tool for designing microelectrode array impedance measurements for biological cell detection and observation.** *BioMedical Engineering Online*. 2017 Jun 26;16(1). 85. <https://doi.org/10.1186/s12938-017-0372-5>

Kauppi J-P, Pajula J, Niemi J, Hari R, Tohka J. **Functional brain segmentation using inter-subject correlation in fMRI.** *Human Brain Mapping*. 2017 May 1;38(5):2643-2665. <https://doi.org/10.1002/hbm.23549>

Vorwerk J, Engwer C, Pursiainen S, Wolters CH. **A Mixed Finite Element Method to Solve the EEG Forward Problem.** *IEEE Transactions on Medical Imaging*. 2017 Apr 1;36(4):930-941. 7731161. <https://doi.org/10.1109/TMI.2016.2624634>

Borges LR, Guerrero I, Bakic PR, Foi A, Maidment ADA, Vieira MAC. **Method for Simulating Dose Reduction in Digital Breast Tomosynthesis.** *IEEE Transactions on Medical Imaging*. 2017;36(11):2331-2342. <https://doi.org/10.1109/TMI.2017.2715826>

Ilvesmäki T, Koskinen E, Brander A, Luoto T, Öhman J, Eskola H. **Spinal cord injury induces widespread chronic changes in cerebral white matter.** *Human Brain Mapping*. 2017;38(7):3637-3647. <https://doi.org/10.1002/hbm.23619>

Lenk K, Priwitzer B, Ylä-Outinen L, Tietz LHB, Narkilahti S, Hyttinen JAK. **Simulation of developing human neuronal cell networks.** *BioMedical Engineering Online*. 2016 Aug 30;15(1). 105. <https://doi.org/10.1186/s12938-016-0226-6>

Tarao H, Miyamoto H, Korpinen L, Hayashi N, Isaka K. **Simple estimation of induced electric fields in nervous system tissues for human exposure to non-uniform electric fields at power frequency.** *Physics in Medicine and Biology*. 2016 May 25;61(12):4438-4451. <https://doi.org/10.1088/0031-9155/61/12/4438>

Farah J, Struelens L, Auvinen A, Jacob S, Koukorava C, Schnelzer M et al. **Application of the ELDO approach to assess cumulative eye lens doses for interventional cardiologists.** *Radiation Protection Dosimetry*. 2015 Apr 1;164(1-2):84-88. ncu315. <https://doi.org/10.1093/rpd/ncu315>

Sikiö M, Holli-Helenius KK, Harrison LCV, Ryymin P, Ruottinen H, Saunamäki T et al. **MR image texture in Parkinson's disease: A longitudinal study.** *Acta Radiologica*. 2015;56(1):97-104. <https://doi.org/10.1177/0284185113519775>

Brander A, Koskinen E, Luoto TM, Hakulinen U, Helminen M, Savilahti S et al. **Diffusion tensor imaging of the cervical spinal cord in healthy adult population: Normative values and measurement reproducibility at 3t mri.** *Acta Radiologica*. 2014;55(4):478-485. <https://doi.org/10.1177/0284185113499752>

Laaksomaa M, Kapanen M, Tulijoki T, Peltola S, Hyödynmaa S, Kellokumpu-Lehtinen PL. **Evaluation of overall setup accuracy and adequate setup margins in pelvic image-guided radiotherapy: Comparison of the male and female patients.** *MEDICAL DOSIMETRY*. 2014;39(1):74-78. <https://doi.org/10.1016/j.meddos.2013.09.009>

Farah J, Struelens L, Dabin J, Koukorava C, Donadille L, Jacob S et al. **A correlation study of eye lens dose and personal dose equivalent for interventional cardiologists.** Radiation Protection Dosimetry. 2013 Dec;157(4):561-569. nct180. <https://doi.org/10.1093/rpd/nct180>

Ernst O, Thuret I, Petit P, Ameer F, Loundou AD, de Kerviler E et al. **Iron overload of hematological origin: validation of a screening procedure for cardiac overload by MRI in routine clinical practice.** Diagnostic and interventional imaging. 2013 Jun;94(6):601-608.

Boulouis G, Marmin C, Lemaire S, Boury S, Sergent G, Mordon S et al. **CT and MRI imaging at the acute phase of inaugural non-traumatic hepatic haemorrhages.** JOURNAL DE RADIOLOGIE DIAGNOSTIQUE ET INTERVENTIONNELLE. 2013;94(3):292-299. <https://doi.org/10.1016/j.diii.2012.09.004>

Paci M, Sartiani L, Del Lungo M, Jaconi M, Mugelli A, Cerbai E et al. **Mathematical modelling of the action potential of human embryonic stem cell derived cardiomyocytes.** BioMedical Engineering Online. 2012 Aug 28;11. 61. <https://doi.org/10.1186/1475-925X-11-61>

Pursiainen S, Lucka F, Wolters CH. **Complete electrode model in EEG: Relationship and differences to the point electrode model.** Physics in Medicine and Biology. 2012 Feb 21;57(4):999-1017. <https://doi.org/10.1088/0031-9155/57/4/999>

Marmin C, Toledano M, Lemaire S, Boury S, Mordon S, Ernst O. **Computed tomography of the parathyroids: The value of density measurements to distinguish between parathyroid adenomas of the lymph nodes and the thyroid parenchyma.** Diagnostic and interventional imaging. 2012;93(7-8):597-603. <https://doi.org/10.1016/j.diii.2012.05.008>

Betrouni N, Lopes R, Puech P, Colin P, Mordon S. **A model to estimate the outcome of prostate cancer photodynamic therapy with TOOKAD soluble WST11.** Physics in Medicine and Biology. 2011 Aug 7;56(15):4771-4783. <https://doi.org/10.1088/0031-9155/56/15/009>

Marqa MF, Colin P, Nevoux P, Mordon SR, Betrouni N. **Focal Laser Ablation of Prostate Cancer: Numerical Simulation of Temperature and Damage Distribution.** BioMedical Engineering Online. 2011 Jun 2;10. 45. <https://doi.org/10.1186/1475-925X-10-45>

Pyysalo LM, Keski-Nisula LH, Niskakangas TT, Kähärä VJ, Öhman JE. **Long-term MRI findings of patients with embolized cerebral aneurysms.** Acta Radiologica. 2011 Mar;52(2):204-210. <https://doi.org/10.1258/ar.2010.100127>