

Rezaei, A., Koulouri, A., & Pursiainen, S. (2020). Randomized Multiresolution Scanning in Focal and Fast E/MEG Sensing of Brain Activity with a Variable Depth. *Brain Topography*, 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., ... Pursiainen, S. (2019). A mathematical model and iterative inversion for fluorescent optical projection tomography. *Physics in Medicine and Biology*, 64(4), [045017]. <https://doi.org/10.1088/1361-6560/aafd63>

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

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

Böttrich, M., Tanskanen, J. M. A., & Hyttinen, J. A. K. (2017). Lead field theory provides a powerful tool for designing microelectrode array impedance measurements for biological cell detection and observation. *BioMedical Engineering Online*, 16(1), [85]. <https://doi.org/10.1186/s12938-017-0372-5>

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

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

Borges, L. R., Guerrero, I., Bakic, P. R., Foi, A., Maidment, A. D. A., & Vieira, M. A. C. (2017). Method for Simulating Dose Reduction in Digital Breast Tomosynthesis. *IEEE Transactions on Medical Imaging*, 36(11), 2331-2342. <https://doi.org/10.1109/TMI.2017.2715826>

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

Lenk, K., Priwitzer, B., Ylä-Outinen, L., Tietz, L. H. B., Narkilahti, S., & Hyttinen, J. A. K. (2016). Simulation of developing human neuronal cell networks. *BioMedical Engineering Online*, 15(1), [105]. <https://doi.org/10.1186/s12938-016-0226-6>

Tarao, H., Miyamoto, H., Korpinen, L., Hayashi, N., & Isaka, K. (2016). 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*, 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., ... Clairand, I. (2015). Application of the ELDO approach to assess cumulative eye lens doses for interventional cardiologists. *Radiation Protection Dosimetry*, 164 (1-2), 84-88. [ncu315]. <https://doi.org/10.1093/rpd/ncu315>

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

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

Laaksomaa, M., Kapanen, M., Tulijoki, T., Peltola, S., Hyödynmaa, S., & Kellokumpu-Lehtinen, P. L. (2014). Evaluation of overall setup accuracy and adequate setup margins in pelvic image-guided radiotherapy: Comparison of the male and female patients. *MEDICAL DOSIMETRY*, *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., ... Clairand, I. (2013). A correlation study of eye lens dose and personal dose equivalent for interventional cardiologists. *Radiation Protection Dosimetry*, *157*(4), 561-569. [nct180]. <https://doi.org/10.1093/rpd/nct180>

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

Boulouis, G., Marmin, C., Lemaire, S., Boury, S., Sergent, G., Mordon, S., & Ernst, O. (2013). CT and MRI imaging at the acute phase of inaugural non-traumatic hepatic haemorrhages. *JOURNAL DE RADIOLOGIE DIAGNOSTIQUE ET INTERVENTIONNELLE*, *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., & Severi, S. (2012). Mathematical modelling of the action potential of human embryonic stem cell derived cardiomyocytes. *BioMedical Engineering Online*, *11*, [61]. <https://doi.org/10.1186/1475-925X-11-61>

Pursiainen, S., Lucka, F., & Wolters, C. H. (2012). Complete electrode model in EEG: Relationship and differences to the point electrode model. *Physics in Medicine and Biology*, *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. (2012). 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*, *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. (2011). A model to estimate the outcome of prostate cancer photodynamic therapy with TOOKAD soluble WST11. *Physics in Medicine and Biology*, *56*(15), 4771-4783. <https://doi.org/10.1088/0031-9155/56/15/009>

Marqa, M. F., Colin, P., Nevoux, P., Mordon, S. R., & Betrouni, N. (2011). Focal Laser Ablation of Prostate Cancer: Numerical Simulation of Temperature and Damage Distribution. *BioMedical Engineering Online*, *10*, [45]. <https://doi.org/10.1186/1475-925X-10-45>

Pyysalo, L. M., Keski-Nisula, L. H., Niskakangas, T. T., Kähärä, V. J., & Öhman, J. E. (2011). Long-term MRI findings of patients with embolized cerebral aneurysms. *Acta Radiologica*, *52*(2), 204-210. <https://doi.org/10.1258/ar.2010.100127>