

# Curriculum Vitae

Lars Peter Grüner Hanson, October 2024

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## Degrees

M.Sc., *Physics*. Minors: *Math* and *computer science*. University of Copenhagen, 1995.  
Ph.D., *Chemistry*. University of Copenhagen, 2000.

## Experience

Feb 69	Born in Denmark.
Feb 94 - May 95	Diploma work. <i>Max-Planck-Institut für Quantenoptik</i> , Garching, Germany.
Jul 95	M.Sc. <i>Physics</i> . Minors: <i>Math</i> and <i>computer science</i> .
Oct 95 - Jan 96	Promotion stipend. <i>Max-Planck-Institut für Quantenoptik</i> .
Feb 96 - Aug 96	Introductory stipend, <i>DRCMR</i> , Hvidovre Hospital
Oct 96 - Oct 99	Ph.D. study, <i>University of Copenhagen</i> .
Oct 98 - Apr 99	Visiting Ph.D. student <i>Lucas MR Center</i> , Stanford University, California.
Oct 99 - Oct 00	Post doc, <i>DRCMR</i> , Hvidovre Hospital.
Feb 00	Ph.D. <i>Chemistry</i> , <i>University of Copenhagen</i> .
Oct 00 - Oct 06	Chief physicist. <i>DRCMR</i> , Hvidovre Hospital.
Mar 08 - Mar 13	Board member and secretary for the Danish Society for Magnetic Resonance in Medicine.
Nov 06 - present	Senior Researcher and Group Leader (Acquisition technology). <i>DRCMR</i> , Hvidovre Hospital.
Oct 09 - present	Assoc. Prof. at the Technical University of Denmark.
Aug 14 - Oct 16	Member of the ESMRMB Nomination and Awards Committee.
May 14 - May 19	Board member of the ISMRM study group on detection and correction of motion. Chairman 2017-18.
Feb 19 - present	Academic Editor, <i>Concepts of Magn Reson Part B</i> (Clarivate JIF: 0.9).
Sep 23 - present	Head of DTU/KU Biomedical Engineering MSc studies.

## International event organization

Workshop on Applications of Human Ultra-High Field MRI (program responsible, Copenhagen/Denmark 2010).  
4th International DNP Symposium (organizing committee member, Helsingør/Denmark 2013).  
ESMRMB Lectures on Acquisition Strategies for Hyperpolarized Spin Systems (organizing committee member, Lyngby/Denmark 2013).  
ESMRMB Lectures on MRI simulation (course organizer, Bonn/Germany 2013 & Lyngby/Denmark 2015).  
2nd European Congress of Medical Physics (scientific committee, Copenhagen/Denmark 2018)

## Awards

Oct. 2009: The European Society for Magnetic Resonance in Medicine and Biology's Info-RESO Award for software available at <http://www.drcmr.dk/bloch>

**Publications****Reports**

- L. G. Hanson**, *Wave packet dynamics in two-electron atoms; Influence of a strongly driven core resonance* (1995), diploma work. Supervisors: N. O. Andersen (*University of Copenhagen*) and P. Lambropoulos (*Max-Planck-Institut für Quantenoptik*).
- L. G. Hanson**, *Fast volumetric magnetic resonance spectroscopic imaging; Methodological developments for echo planar spectroscopy* (2000), thesis. Supervisors: K. Schaumburg and O. B. Paulson (*University of Copenhagen*).

**Papers in refereed journals (ISI h-index 20)**

- L. G. Hanson**, J. Zhang and P. Lambropoulos, *Theory of core-resonant ionization*, Euro Phys Lett, **30**(2), 81-86 (1995).
- L. G. Hanson** and P. Lambropoulos, *Non-dispersing wave packets in two-electron atoms; atomic mode-locking by loss-modulation*, Phys Rev Lett, **74**, 5009-12 (1995).
- L. G. Hanson**, J. Zhang and P. Lambropoulos, *Manifestations of atomic and core resonances in photoelectron energy spectra*, Phys Rev A, **55**, 2232-44 (1997)
- L. G. Hanson**, K. Schaumburg and O. B. Paulson, *Reconstruction strategy for echo planar spectroscopy and its application to partially undersampled imaging*, Magn Reson Med, **44**, 412-17 (2000). <http://eprints.drcmr.dk/19/>.
- L. G. Hanson**, E. Adalsteinsson, A. Pfefferbaum and D. M. Spielman, *Optimal voxel size for measuring global gray and white matter proton metabolite concentrations using chemical shift imaging*, Magn Reson Med, **44**, 10-18 (2000). <http://eprints.drcmr.dk/20/>.
- T. N. Sager, S. Topp, L. Torup, **L. G. Hanson**, B. Egestad and A. Møller, *Evaluation of CAI damage using single-voxel 1H-MRS and un-biased stereology: Can non-invasive measures of N-acetyl-aspartate following global ischemia be used as a reliable measure of neuronal damage?* Brain Res, **892**, 166-75 (2000).
- I. K. Andersen, A. Szymkowiak, C. E. Rasmussen, **L. G. Hanson**, J. Marstrand and L. K. Hansen, *Perfusion quantification using Gaussian process deconvolution*, Magn Reson Med, **48**, 351-61 (2002).
- A. P. Born, I. Law, T. E. Lund, E. Rostrup, **L. G. Hanson**, G. Wildschjøditz, H. C. Lou and O. B. Paulson, *Cortical deactivation induced by visual stimulation in human slow-wave sleep*, Neuroimage, **17**(3), 1325-35 (2002).
- H. K. Mathiesen, T. Tscherning, P. S. Sørensen, H. B. W. Larsson, E. Rostrup, O. B. Paulson, and **L. G. Hanson**, *Multi-slice echo planar spectroscopic MR imaging provides both global and local metabolite measures in multiple sclerosis*, Magn Reson Med, **53**, 750-59 (2005).
- T. Stavngaard, L. V. Sjøgaard, J. Mortensen, **L. G. Hanson**, J. Schmideskamp, A. K. Berthelsen and A. Dirksen, *Hyperpolarised <sup>3</sup>He MRI and <sup>81m</sup>Kr SPECT in chronic obstructive pulmonary disease*, Eur J Nucl Med Mol Imaging, **32**, 448-57 (2005).
- H. K. Mathiesen, A. S. Nielsen, K. Nielsen and **L. G. Hanson**, *MR-spektroskopi til vurdering af kognitive forstyrrelser*, Ugeskr Laeger, **168**, 357-59 (2006).
- H. K. Mathiesen, A. Jønsson, T. Tscherning, **L. G. Hanson**, J. Andresen, M. Blinkenberg, O. B. Paulson and P. S. Sørensen, *Correlation of global N-acetyl aspartate with cognitive impairment in multiple sclerosis*, Arch Neurol, **63**, 533-36 (2006).
- P. S. Sørensen, A. Jønsson, H. K. Mathiesen, M. Blinkenberg, J. Andresen, **L. G. Hanson** and M. Ravnborg, *The relationship between MRI and PET changes and cognitive disturbances in MS*, J Neurol Sci, **245**, 99-102 (2006).

- K. Nielsen, E. Rostrup, J. L. Frederiksen, S. Knudsen, H. K. Mathiesen, **L. G. Hanson** and O. B. Paulson, *Magnetic resonance imaging at 3.0 Tesla Detects More Lesions in Acute Optic Neuritis Than at 1.5 Tesla*, *Invest Radiol*, 41(2), 76-82 (2006).
- L. G. Hanson**, T. E. Lund and C. G. Hanson, *Encoding of electrophysiology and other signals in MR images*, *J Magn Reson Imag*, 25(5), 1059-66 (2007). <http://eprints.drcmr.dk/18/>.
- L. G. Hanson**, *A graphical simulator for teaching basic and advanced MRI techniques*, *RadioGraphics*, 27(6):e27 (2007). Software available at <http://www.drcmr.dk/bloch>.
- L. G. Hanson**, *Is Quantum Mechanics necessary for understanding magnetic resonance?* *Concepts in Magn Reson A*, 32A(5), 329-40 (2008). <http://eprints.drcmr.dk/22/>.
- R. de Nijs, M. J. Miranda, L. K. Hansen and **L. G. Hanson**, *Motion correction of Single Voxel Spectroscopy by Independent Component Analysis applied to spectra from non-anesthetized pediatric subjects*, *Magn Reson Med*, 62(5), 1147-1154 (2009).
- C. í Dali, **L. G. Hanson**, N. Barton, J. Fogh, N. Nair and A. M. Lund, *Brain N-acetylaspartate levels correlate with motor function in metachromatic leukodystrophy*, *Neurology*, 75, 1896-903 (2010).
- M. Blinkenberg, H. K. Mathiesen, T. Tscherning, A. Jønsson, C. Svarer, S. Holm, F. Sellebjerg, O. B. Paulson, **L. G. Hanson** and P. S. Sørensen, *Cerebral metabolism, magnetic resonance spectroscopy and cognitive dysfunction in early multiple sclerosis: An exploratory study*, *Neurol Res*, 34(1), 52-8 (2012).
- M. B. Axelsen, M. Stoltenberg, R. Poggenborg, O. Kubassova, M. Boesen, H. Bliddal, K. Hørslev-Petersen, **L. G. Hanson** and M. Østergaard, *Dynamic gadolinium enhanced magnetic resonance imaging allows accurate assessment of the synovial inflammatory activity in rheumatoid arthritis knee joints - a comparison with synovial histology*, *Scand J Rheumatol*, 41(2), 89-94 (2012).
- M. B. Axelsen, R. Poggenborg, M. Stoltenberg, O. Kubassova, M. Boesen, K. Hørslev-Petersen, H. Bliddal, **L. G. Hanson** and M. Østergaard, *Reliability and responsiveness of dynamic contrast enhanced magnetic resonance imaging in rheumatoid arthritis*, *Scand J Rheumatol*, 42(2), 115-22 (2013).
- H. Lund, M. Krakauer, A. Skimminge, F. Sellebjerg, E. Garde, H. R. Siebner, O. B. Paulson, D. Hesse and **L. G. Hanson**, *Blood-brain barrier permeability of normal appearing white matter in relapsing-remitting multiple sclerosis*, *PLoS One*, 8(2), e56375 (2013)
- X. Wu, **L. G. Hanson**, A. Skimminge, P. S. Sørensen, O. B. Paulson, H. K. Mathiesen and M. Blinkenberg, *Cortical N-acetyl aspartate is a predictor of long-term clinical disability in multiple sclerosis*, *Neurol Res*, 36(8), 701-8 (2014).
- N. Hastrup, S. Khalilieh, D. C. Dale, **L. G. Hanson**, P. Magnusson, A. Tzontcheva, J. Tseng, S. Huyck, E. Rosenberg, and K. Krogsgaard, *The effects of the CXCR2 antagonist, MK-7123, on bone marrow functions in healthy subjects*, *Cytokine*, 72(2), 197-203 (2015).
- A. Jorgensen, P. Magnusson, **L. G. Hanson**, T. Kirkegaard, H. Benveniste, H. Lee, C. Svarer, J. D. Mikkelsen, A. Fink-Jensen, G. M. Knudsen, O. B. Paulson, T. Bolwig and M. B. Jorgensen, *Regional brain volumes, diffusivity, and metabolite changes after electroconvulsive therapy for severe depression*, *Acta Psychiatr Scand*, 133(2), 154-64 (2016).
- A. Herskind, A. Ritterband-Rosenbaum, M. Willerslev-Olsen, J. Lorentzen, **L. G. Hanson**, G. Lichtwark and J. B. Nielsen, *Muscle growth is reduced in 15-month-old children with cerebral palsy*, *Dev Med Child Neurol*, 58(5), 485-91 (2016).
- M. Andersen, **L. G. Hanson**, K. H. Madsen, J. Wezel, V. Boer, T. van der Velden, M. van Osch, D. Klomp, A. G. Webb, and M. J. Versluis, *Measuring motion-induced  $B_0$  -fluctuations in the brain using field probes*. *Magn Reson Med*, 75(5), 2020-30 (2016).

- S. Møller-Bisgaard, B. Ejbjerg, I. Eshed, K. Hørslev-Petersen, M. Hetland, A.-G. Jurik, H. Thomsen, T. Torfing, K. Stengaard-Pedersen, P. Junker, N. S. Krogh, T. Lottenburger, T. Ellingsen, L. Andersen, H. Skjødt, A. Svendsen, U. Tarp, I. Hansen, J. Pødenphant, J. Pedersen, H. Lindegaard, **L. G. Hanson**, A. Vestergaard, D. Glinatsi, and M. Østergaard, *Effect of a treat-to-target strategy based on methotrexate and intraarticular betamethasone with or without additional cyclosporine on MRI-assessed synovitis, osteitis, tenosynovitis, bone erosion and joint space narrowing in early rheumatoid arthritis – results from a 2 year randomized double blind placebo controlled trial (CIMESTRA)*, *Scand J Rheumatol*, 46(5), 335-45 (2017).
- C. Göksu, K. Scheffler, P. Ehses, A. Thielscher, and **L. G. Hanson**, *Sensitivity Analysis of Magnetic Field Measurements for Magnetic Resonance Electrical Impedance Tomography (MREIT)*, *Magn Reson Med*, 79(2), 748-60 (2018).
- C. Göksu, **L. G. Hanson**, H. R. Siebner, P. Ehses, K. Scheffler and A. Thielscher, *Human in-vivo brain magnetic resonance current density imaging (MRCDI)*, *NeuroImage*, 171, 26-39 (2018).
- J. E. Wilhjelm, J. Dunn-Henriksen and **L. G. Hanson**, *A virtual scanner for teaching fundamental magnetic resonance in biomedical engineering*, *Comput Appl Eng Educ*, 26(6), 2197-209 (2018).
- L. Oltedal, K. L. Narr, C. Abbott, A. Anand, M. Argyelan, H. Bartsch, U. Dannlowski, A. Dols, P. van Eijndhoven, L. Emsell, V. J. Erchinger, R. Espinoza, T. Hahn, **L. G. Hanson**, G. Hellemann, M. B. Jorgensen, U. Kessler, M. L. Oudega, O. B. Paulson, R. Redlich, P. Sienaert, M. L. Stek, I. Tendolkar, M. Vandenbulcke, K. J. Oedegaard, A. M. Dale, *Volume of the human hippocampus and clinical response following electroconvulsive therapy*, *Biol Psychiatry*, 84(8), 574-81 (2018).
- A. Eldirdiri, S. Posse, **L. G. Hanson**, R. B. Hansen, P. Holst, C. Schøier, A. T. Kristensen, H. H. Johannesen, A. Kjaer, A. E. Hansen and J. H. Ardenkjær-Larsen, *Development of a Symmetric Echo Planar Spectroscopy Imaging Framework for Hyperpolarized  $^{13}\text{C}$  Imaging in a Clinical PET/MR Scanner*, *Tomography*, 4(3), 110-22 (2018).
- J. O. Pedersen, C. G. Hanson, R. Xue and **L. G. Hanson**, *General Purpose Electronics for Real-Time Processing and Encoding of non-MR Data in MR Acquisitions*, *Concepts in Magn Reson B*, 48B(2), e21385 (2018).
- P. Magnusson, V. Boer, A. Marsman, O. B. Paulson, **L. G. Hanson** and E. T. Petersen, *Gamma-aminobutyric acid edited echo-planar spectroscopic imaging (EPSI) with MEGA-LASER at 7T*, *Magn Reson Med* 81(2), 773-80 (2019).
- D. M. Kirkegaard-Klitbo, K. V. Danielsen, **L. G. Hanson**, L. L. Gluud, H. R. Siebner, F. Bendtsen and T. Benfield, *MR-skanning til diagnostik af nonalkoholisk fedtleversygdom*, *Ugeskr Læger* 181:V11180792 (2019).
- C. Göksu, K. Scheffler, H. R. Siebner, A. Thielscher, and **L. G. Hanson**, *The stray magnetic fields in Magnetic Resonance Current Density Imaging (MRCDI)*, *Phys Med*, 59:142-150 (2019).
- R. B. Hansen, J. D. Sánchez-Heredia, N. Bøgh, E. S. S. Hansen, C. Laustsen, **L. G. Hanson** and J. H. Ardenkjær-Larsen, *Coil profile estimation strategies for parallel imaging with hyperpolarized  $^{13}\text{C}$  MRI*, *Magn Reson Med*, 82(6):2104-17 (2019).
- C. Pasquinelli, **L. G. Hanson**, H. R. Siebner, H. J. Lee and A. Thielscher, *Safety of transcranial focused ultrasound stimulation: A systematic review of the state of knowledge from both human and animal studies*, *Brain Stimul*, 12(6):1367-80 (2019).

- J. O. Pedersen, C. G. Hanson, R. Xue and **L. G. Hanson**, *Inductive measurement and encoding of  $k$ -space trajectories in MR raw data*, Magn Reson Mater Phy, 32:655-67 (2019).
- O. T. Ousdal, M. Argyelan, K. L. Narr, C. Abbott, B. Wade, M. Vandenbulcke, M. Urretavizcaya, I. Tendolkar, A. Takamiya, M. L. Stek, C. Soriano-Mas, R. Redlich, O. B. Paulson, M. L. Oudega, N. Opel, P. Nordanskog, T. Kishimoto, R. Kampe, A. Jorgensen, **L. G. Hanson**, J. P. Hamilton, R. Espinoza, L. Emsell, P. van Eijndhoven, A. Dols, U. Dannlowski, N. Cardoner, F. Bouckaert, A. Anand, H. Bartsch, U. Kessler, K. J. Oedegaard, A. M. Dale and L. Olteidal, *Brain changes induced by Electroconvulsive Therapy are broadly distributed*, Biol Psychiatry, 87(5):451-61 (2020).
- R. B. Olin, J. D. Sánchez-Heredia, R. Schulte, N. Bøgh, E. S. S. Hansen, C. Laustsen, **L. G. Hanson** and J. H. Ardenkjær-Larsen, *Three-dimensional accelerated acquisition for hyperpolarized  $^{13}\text{C}$  MR with blipped stack-of-spirals and conjugate-gradient SENSE*, Magn Reson Med, 84(5):519-34 (2020).
- C. Pasquinelli, H. Montanaro, H. J. Lee, **L. G. Hanson**, H. Kim, N. Kuster, H. R. Siebner, E. Neufeld and A. Thielscher, *Transducer modeling for accurate acoustic simulations of transcranial focused ultrasound stimulation*, J Neural Eng, 17(4):046010 (2020).
- J. D. Sánchez-Heredia, R. B. Olin, M. A. McLean, C. Laustsen, A. E. Hansen, **L. G. Hanson** and J. H. Ardenkjær-Larsen, *Multi-Site Benchmarking of Clinical  $^{13}\text{C}$  RF Coils at 3T*, J Magn Reson, 318:106798 (2020).
- F. Gregersen, C. Göksu, G. Schaefer, R. Xue, A. Thielscher, and **L. G. Hanson**, *Safety evaluation of a new setup for Transcranial Electric Stimulation during Magnetic Resonance Imaging*, Brain Stimulation, 14(3):488-97, (2021).
- N. Opel, K. L. Narr, C. Abbott, M. Argyelan, R. Espinoza, L. Emsell, F. Bouckaert, P. Sienaert, M. Vandenbulcke, P. Nordanskog, J. Repple, E. Kavakbasi, M. B. Jorgensen, O. B. Paulson, **L. G. Hanson**, A. Dols, E. van Exel, M. L. Oudega, A. Takamiya, T. Kishimoto, O. T. Ousdal, J. Haavik, Å. Hammar, K. J. Oedegaard, U. Kessler, H. Bartsch, A. M. Dale, B. T. Baune, U. Dannlowski, L. Olteidal and R. Redlich, *Elevated body weight modulates subcortical volume change and associated clinical response following electroconvulsive therapy*, J Psychiatry Neurosci 46(4):E418-E426 (2021).
- C. Göksu, K. Scheffler, F. Gregersen, H. H. Eroglu, R. Heule, H. R. Siebner, **L. G. Hanson** and A. Thielscher, *Sensitivity and resolution improvement for in vivo magnetic resonance current-density imaging of the human brain*, Magn Reson Med 86(6):3131-3146 (2021).
- H. H. Eroglu, O. Puonti, C. Göksu, F. Gregersen, H. R. Siebner, **L. G. Hanson** and A. Thielscher, *On the Reconstruction of Magnetic Resonance Current Density Images of the Human Brain: Pitfalls and Perspectives*, Neuroimage 243:118517 (2021)
- S. Rahbek, K. H. Madsen, H. Lundell, F. Mahmood and **L. G. Hanson**, *Data-driven separation of MRI signal components for tissue characterization*, J Magn Reson 333:107103 (2021)
- M. Laustsen, M. Andersen, R. Xue, K. H. Madsen and **L. G. Hanson**, *Tracking of rigid head motion during MRI using an EEG system*. Magn Reson Med 88(2):986-1001 (2022).
- S. Rahbek, T. Schakel, F. Mahmood, K. H. Madsen, M. E. P. Philippens, **L. G. Hanson**, *Optimized flip angle schemes for the split acquisition of fast spin-echo signals (SPLICE) sequence and application to diffusion-weighted imaging*, Magn Reson Med 89(4), p. 1469 (2023)
- S. Rahbek, F. Mahmood, M. R. Tomaszewski, **L. G. Hanson**, and K. H. Madsen, *Decomposition-based framework for tumor classification and prediction of treatment response from longitudinal MRI*, Phys Med Biol 68:025006 (2023).

- S. Hosseini, O. Puonti, B. Treeby, **L. G. Hanson** and A. Thielscher, *A Head Template for Computational Dose Modelling for Transcranial Focused Ultrasound Stimulation*. *NeuroImage* 277:120227 (2023).
- C. Göksu, F. Gregersen, K. Scheffler, H. H. Eroglu, R. Heule, H. R. Siebner, **L. G. Hanson** and A. Thielscher, *Volumetric measurements of weak current-induced magnetic fields in the human brain at high resolution*, *Magn Reson Med* 90(5):1874-1888 (2023).
- F. Gregersen, H. H. Eroglu, C. Göksu, O. Puonti, Z. Zuo, A. Thielscher and **L. G. Hanson**, *MR imaging of the magnetic fields induced by injected currents can guide improvements of individualized head volume conductor models*, *Imag Neurosci* 2:1-15 (2024).
- Y. Zhao, M. H. Lerche, M. Karlsson, R. B. Hansen, E. S. S. Hansen, M. Aastrup, M. Redda, C. Laustsen, **L. G. Hanson** and J. H. Ardenkjær-Larsen, *Hyperpolarized Water for Coronary Artery Angiography and Whole-Heart Myocardial Perfusion Quantification*, *Tomography* 10(7):1113-1122 (2024).
- Y. Zhao, R. B. Hansen, E. S. S. Hansen, C. Laustsen, **L. G. Hanson** and J. H. Ardenkjær-Larsen, *3D quantitative myocardial perfusion imaging with hyperpolarized HP001(bis-1,1-(hydroxymethyl)-[1-13C]cyclopropane-d8): Application of gradient echo and balanced SSFP sequences*, *Magn Reson Med* (2024).

### Patent applications

- L. G. Hanson**, T. E. Lund and C. G. Hanson, *Encoding and transmission of signals as RF signals for detection using an MR apparatus*, PCT/DK2005/000343, WO/2005/116676, 2005.

### Longer conference papers

- L. G. Hanson** and P. Lambropoulos, *Wave packet dynamics in two-electron atoms; Influence of a strongly driven core resonance*, NATO ASI Series: Proceedings of SILAP IV (1995), Kluwer Academic Publishers, Amsterdam.
- P. Willendrup, C. Svarer, **L. G. Hanson** and O. B. Paulson, *A simple approach to combined inhomogeneity correction and tissue segmentation*, in "Brain imaging using PET", In: Senda M, Kimura Y, Herscovitch P (eds). *Brain imaging using PET*, Academic Press, 159-62 (2002).
- R. Engholm, A. Dubinskiy, R. Larsen, **L. G. Hanson** and B. Christoffersen, *An Adipose Segmentation and Quantification Scheme for the Abdominal Region in Minipigs*, Proceedings of the SPIE, 6144, 1228-38 (2006).
- J. E. Wilhjelm, **L. G. Hanson**, K.-Å. Henneberg, J. A. Jensen, R. Larsen, L. Højgaard, *A Spiral And Discipline-Oriented Curriculum In Medical Imaging*, Proceedings of the 7th International CDIO Conference 2011.
- L. G. Hanson**, *An active learning approach to education in MRI technology for the biomedical engineering curriculum*, <http://eprints.drcomr.dk/46/>, 11th Active Learning in Engineering Education Workshop (ALE), 2012.
- L. G. Hanson**, *MRI safety in practice: The EU directive on work in electromagnetic fields – practical and clinical aspects*, <http://eprints.drcomr.dk/47/>, syllabus contribution, ISMRM Safety workshop, 2012.

### Unrefereed publications

- L. G. Hanson**, J. Zhang and P. Lambropoulos, *Comment on "Observation of Continuum-Continuum Autler-Townes Splitting"*, *Phys Rev Lett*, 77(1), 202 (1996).

- L. G. Hanson**, *MR-skanning: Billeder fra den forbudte side af bølgelængdegrænsen*, GAMMA –Tidsskrift for fysik 143, p. 8-26, 2006. <http://eprints.drcmr.dk/21/>.
- L. G. Hanson**, *Bloch simulator and viewer*, Educational software for illustrating basic phenomena involved in magnetic resonance imaging. <http://www.drcmr.dk/bloch>, 2007
- L. G. Hanson**, *Introduktion til teknikken bag MR-skanning*, Introduction to MRI in Danish, <http://www.drcmr.dk/Intro.pdf>, 44 pages, revised 2009.
- L. G. Hanson**, *Introduction to Magnetic Resonance Imaging Techniques*, Educational material for technical and non-technical students, <http://eprints.drcmr.dk/37/>, translation by Theis Groth, 48 pages, 2009.
- J. E. Wilhjelm, J. Dunn-Henriksen and **L. G. Hanson**, *En MR-skanner man kan lege med*, MTI - Medicinsk Teknologi og Informatik, 6(6), p. 10-12, 2009.
- L. G. Hanson**, *MR-skanning ved 7 tesla feltstyrke etableres i Danmark*, MTI – Medicinsk Teknologi&Informatik, 7(4), p. 20-22, 2010.
- L. G. Hanson**, *Tools and methods for teaching magnetic resonance concepts and techniques*, European Medical Physics News, Summer 2012, p. 17-19, 2012.
- L. G. Hanson**, *The ups and downs of NMR described by classical and quantum mechanics*, book chapter in “Anthropic Awareness - The Human Aspects of Scientific Thinking in NMR Spectroscopy and Mass Spectrometry” edited by C. Szantay, Jr, Elsevier, ISBN: 978-0-12-419963-7, p. 141-171, 2015.
- S. Busoni, M. Bock, M. Chmelik, N. Colgan, T. De Bondt, **L. G. Hanson**, M. Israel, H. Kugel, M. Maieron, L. N. Mazzoni, I. Seimenis, P. Vestergaard, *ADDENDUM to EFOMP Policy statement No. 14* “The role of the Medical Physicist in the management of safety within the magnetic resonance imaging environment: EFOMP recommendations”, Phys Med 89, p. 303-305, 2021. <https://doi.org/10.1016/j.ejmp.2021.07.017>
- L. G. Hanson**, K.-Å. Henneberg, T. Alkjær, *En ingeniøruddannelse der giver livskvalitet*, Medicoteknik 11(2):25-28 (2024).