

**Journal Articles**

- D. Seeber, J. Jevtic, and A. Menon, "Floating shield current suppression trap," *Magnetic Resonance Engineering*, vol. 21B(1) pp. 26-31, April 2004.
- J. Nehrbass, J. Jevtic, and R. Lee, "Reducing the phase error for finite-difference methods without increasing the order," *IEEE Trans. Antennas Propagat.*, AP-46, pp. 1194-1201, August 1998.
- R. Lee, Z. Chen, J. Jevtic, and J. F. Lee, "Important considerations in the evaluation of absorbing boundary conditions," invited paper, *Electromagnetics*, vol. 16, pp. 417-433, July/August 1996.
- J. Jevtic and R. Lee, "Solenoidal edge elements," invited paper, special section of *Radio Science* on numerical methods in electromagnetics, July/August 1996.
- J. Jevtic and R. Lee, "An analytic characterization of the error in the measured equation of invariance," *IEEE Trans. Antennas Propagat.*, AP-43, pp. 1109-1115, October 1995.
- J. Jevtic and R. Lee, "How invariant is the measured equation of invariance?," *IEEE Microwave and Guided Wave Letters*, vol. 5, pp 45-47, February 1995.
- J. Jevtic and R. Lee, "A theoretical and numerical analysis of the measured equation of invariance," *IEEE Trans. Antennas Propagat.*, AP-42, pp. 1097-1105, August 1994.
- J. Jevtic and R. Lee, "On the choice of metrons in the MEI method," *COMPEL - Int. Journal Comp. and Math. in Electrical and Electronic Eng.*, vol. 13, Supplement A, pp. 217-222, 1994.

### Conference Papers

- B. Muthuswamy, J. Jevtic, et. al., "Memristor Modeling," IEEE ISCAS, Melbourne, Australia, June 2014.
- J. Jevtic, A. Menon, V. Pikelja, "Dielectric Resonator Antenna for High-power RF Plasma Applications," IEEE ICOPS/BEAMS, Washington, DC, May 2014.
- J. Reed, J. Jevtic, "Simultaneous Two-frequency Excitation of a Tesla Coil," IEEE ICOPS/BEAMS, Washington, DC, May 2014.
- J. Jevtic, A. Menon, V. Pikelja, "Microwave Induced Plasma Source for Optical Emission and Mass Spectroscopy," SCIX 2013, Milwaukee, WI, October 2013.
- C. Matthews, E. Schilling, and J. Jevtic, "Bimodal Tesla Coil," NCUR 2013, La Crosse, WI, April 2013.
- M. Sahajwani, A. Menon, J. Jevtic, P. Braid, and R. Marsland, "A Simple Model of an Analog Fiber-optic Link for MRI," ISMRM 15<sup>th</sup> Scientific Meeting and Exhibition, Berlin, Germany, May 2007.
- J. Jevtic, V. Pikelja, R. Duensing, "A 16 channel head coil," ISMRM 14<sup>th</sup> Scientific Meeting and Exhibition, Seattle, Washington, May 2006.
- J. Jevtic, V. Pikelja, "High impedance power splitter for transmitting phased-arrays," ISMRM 13<sup>th</sup> Scientific Meeting and Exhibition, Miami, Florida, May 2005.
- J. Jevtic, V. Pikelja, "RF end-cap design for phased-array coils," ISMRM 12<sup>th</sup> Scientific Meeting and Exhibition, Kyoto, Japan, May 2004.
- J. Jevtic, V. Pikelja, A. Menon, D. Seeber, N. Tatum, W. Johnson, "Design guidelines for the capacitive decoupling network," ISMRM 11<sup>th</sup> Scientific Meeting and Exhibition, Toronto, Canada, May 2003.
- D. Seeber, J. Jevtic, A. Menon, "New RF coil topology for high performance SENSE in 3D," ISMRM 11<sup>th</sup> Scientific Meeting and Exhibition, Toronto, Canada, May 2003.
- D. Seeber, J. Jevtic, A. Menon, "Floating RF balun for suppression of shield currents," ISMRM 11<sup>th</sup> Scientific Meeting and Exhibition, Toronto, Canada, May 2003.
- D. Seeber, J. Jevtic, A. Menon, V. Pikelja, W. Johnson, "Cable routing in MRI phased-array coils," ISMRM 11<sup>th</sup> Scientific Meeting and Exhibition, Toronto, Canada, May 2003.

- A. Menon, D. Seeber, J. Jevtic, “*Sensitivity shaping using a current divider,*” ISMRM 11<sup>th</sup> Scientific Meeting and Exhibition, Toronto, Canada, May 2003.
- D.Kacher, L. Zhao, W. Kyriakos, B. Madore, J. Jevtic, R. Mulkern, C. Guttman, F. Jolesz, “*Use of parallel imaging to reduce scanning time for single-slab 3D FSE FLAIR,*” ASNR 39<sup>th</sup> Annual Meeting, Boston, MA, April 2001.
- J. Jevtic, “*Ladder networks for capacitive decoupling in phased-array coils,*” ISMRM 9<sup>th</sup> Scientific Meeting and Exhibition, Glasgow, Scotland, April 2001.
- J. Jevtic, J. Nehrbass, and R. Lee, “*An improved finite difference Helmholtz equation,*” Joint AP-S Symposium and URSI Radio Science Meeting, Baltimore, MD, July 1996.
- J. Jevtic and R. Lee, “*Further insights into higher order solenoidal edge elements,*” invited paper, Progress in Electromagnetic Research Symposium, Seattle, WA, July 1995.
- R. Lee, J. Jevtic, and Z. Chen, “*The effect of numerical dispersion on boundary conditions for wave problems,*” invited paper, Progress in Electromagnetic Research Symposium, Seattle, WA, July 1995.
- J. Jevtic, “*An investigation of the convergence properties of the measured equation of invariance,*” student paper competition, National Radio Science Meeting, Boulder, CO, January 1995.
- R. Lee and J. Jevtic, “*Several approaches to improving the solution in the measured equation of invariance,*” invited paper, Joint AP-S Symposium and URSI Radio Science Meeting, Seattle, WA, June 1994.
- J. Jevtic and R. Lee, “*On the choice of metrons in the MEI method,*” Second Workshop on Finite Element Methods in Electromagnetic Wave Problems, Siena, Italy, May 1994.
- J. Jevtic and R. Lee, “*An analysis of the measured equation of invariance,*” Joint AP-S Symposium and URSI Radio Science Meeting, Ann Arbor, MI, June 1993.
- J. Jevtic and R. Lee, “*Higher order divergenceless edge elements,*” Joint AP-S Symposium and URSI Radio Science Meeting, Ann Arbor, MI, June 1993.
- J. Jevtic, “*Power handling capability of varactor phase shifters in phased-array radar antennas,*” Electrical Engineering Symposium, Zagreb, Yugoslavia, 1990.

**Issued US Patents**

- B. Quon, J. Jevtic, S. Antley, E. Strang, "*Inductively Coupled High-density Plasma Source*," US 7,482,757 (Tokyo Electron Limited) issued January 27, 2009.
- J. Jevtic, N. Tatum, "*Optical Interface for Local MRI Coils*," US 7,345,485 (Philips Electronics) issued March 18, 2008.
- J. Jevtic, V. Pikelja, "*Phased-array MRI Coil with Controllable Coupled Ring Resonator*," US 7,227,360 (Invivo Corporation) issued June 5, 2007.
- J. Jevtic, A. Mitrovic, "*Apparatus and Method of Improving Impedance Matching between an RF signal and a Multi-segmented Electrode*," US 7,109,788 (Tokyo Electron Limited) issued September 19, 2006.
- J. Jevtic, "*Phased Array Local Coil for MRI Imaging Having Non-overlapping Regions of Sensitivity*," US 7,091,721 (Invivo Corporation) issued August 15, 2006.
- A. Mitrovic, J. Jevtic, R. Parsons, M. Sirkis, "*Addition of Power at Selected Harmonics of Plasma Processor Drive Frequency*," US 6,917,204 (Tokyo Electron Limited) issued June 12, 2005.
- A. Menon, D. Seeber, J. Jevtic, "*Modular Local Coil Set for MRI*," US 6,867,593 (IGC-Medical Advances, Inc.) issued March 15, 2005.
- V. Pikelja, D. Seeber, J. Jevtic, A. Menon, W. Johnson, "Cable Routing and Potential Equalizing Ring for MRI Coils," US 6,781,379 (IGC-MAI) issued Aug. 24, 2004.
- J. Jevtic, A. Menon, D. Seeber, M. Mercier, S. Zwolinski, M. Gyori, "Retracting MRI Head Coil," US 6,762,606 (IGC-MAI) issued July 13, 2004.
- J. Jevtic, A. Menon, D. Seeber, "Decoupling Circuit for MRI Local Coils," US 6,747,452 (IGC-MAI) issued Jun 8, 2004.
- J. Jevtic, D. Seeber, A. Menon, "Loop MRI Coil with Improved Homogeneity," US 6,727,701 (IGC-MAI) issued Apr. 27, 2004.
- D. Seeber, A. Menon, J. Jevtic, "Floating Radio Frequency Trap for Shield Currents," US 6,605,775 (IGC-MAI) issued Aug. 12, 2003.