



## Kalina Jordanova

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### Publications

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#### PUBLICATIONS

- **Engineering the Colloidal Properties of Iron Oxide Nanoparticles for High T1 MRI Contrast at 64 mT.** *ACS applied nano materials*  
Oberdick, S. D., Erich, G. G., Stockdale, A. R., Betz, K. M., Jordanova, K. V., Korovich, A. G., Mefford, O. T., Parigi, G., Poorman, M. E., Zabow, G., Keenan, K. E.  
2025; 8 (38): 18424-18433
- **Open-source, customizable phantom for low-field magnetic resonance imaging.** *Magma (New York, N.Y.)*  
Jordanova, K. V., Russek, S. E., Keenan, K. E.  
2025
- **Paramagnetic salt and agarose recipes for phantoms with desired T1 and T2 values for low-field MRI.** *NMR in biomedicine*  
Jordanova, K. V., Fraenza, C. C., Martin, M. N., Tian, Y., Shen, S., Vaughn, C. E., Walsh, K. J., Walsh, C., Sappo, C. R., Ogier, S. E., Poorman, M. E., Teixeira, R. P., Grissom, et al  
2024: e5281
- **Iron oxide nanoparticles as positive T1 contrast agents for low-field magnetic resonance imaging at 64 mT.** *Scientific reports*  
Oberdick, S. D., Jordanova, K. V., Lundstrom, J. T., Parigi, G., Poorman, M. E., Zabow, G., Keenan, K. E.  
2023; 13 (1): 11520
- **In vivo quantitative MRI: T1 and T2 measurements of the human brain at 0.064 T.** *Magma (New York, N.Y.)*  
Jordanova, K. V., Martin, M. N., Ogier, S. E., Poorman, M. E., Keenan, K. E.  
2023; 36 (3): 487-498
- **Relaxation measurements of an MRI system phantom at low magnetic field strengths** *MAGNETIC RESONANCE MATERIALS IN PHYSICS BIOLOGY AND MEDICINE*  
Martin, M. N., Jordanova, K. V., Kos, A. B., Russek, S. E., Keenan, K. E., Stupic, K. F.  
2023; 36 (3): 477-485
- **Unfolding-synthesis technique for digital pulse processing, Part 2: Synthesis** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Jordanov, V. T., Jordanova, K. V.  
2022; 1044
- **Challenges in ensuring the generalizability of image quantitation methods for MRI.** *Medical physics*  
Keenan, K. E., Delfino, J. G., Jordanova, K. V., Poorman, M. E., Chirra, P., Chaudhari, A. S., Baessler, B., Winfield, J., Viswanath, S. E., deSouza, N. M.  
2021
- **Measuring B-1 distributions by B-1 phase encoding** *MAGNETIC RESONANCE IN MEDICINE*  
Jordanova, K. V., Nishimura, D. G., Kerr, A. B.  
2017; 77 (1): 229-236

- **Lowering the B1 threshold for improved BEAR B1 mapping.** *Magnetic resonance in medicine*  
Jordanova, K. V., Nishimura, D. G., Kerr, A. B.  
2016; 75 (3): 1262-1268
- **B-1 Estimation Using Adiabatic Refocusing: BEAR MAGNETIC RESONANCE IN MEDICINE**  
Jordanova, K. V., Nishimura, D. G., Kerr, A. B.  
2014; 72 (5): 1302-1310