

Magnetically Stimulated Soft Matter
May 11-12, 2015
UGA, Athens, GA

Presenter Name	Poster#	Authors	Institution	Poster title
Asheghali, Darya	1	Darya Asheghali, Alex Tokarev, Oleksandr Trotsenko, Sergiy Minko	The University of Georgia, Athens, GA, USA	Magnetospinning of micro- and nanofibers
Bohorquez, Ana C.	2	Ana C. Bohorquez, Francisco Delgado, Paul Carney, and Carlos Rinaldi.	J. Crayton Pruitt Family Department of Biomedical Engineering, University of Florida, Gainesville.	Treating Diffuse Infiltrative Pontine Glioma through Magnetically Mediated Energy Delivery Using EGFR-Targeted Magnetic Nanoparticles
Brahmbatt, Khushboo	3	Khushboo Brahmbatt, Wujun Zhao, Zhaojie Deng, Leidong Mao, and Eric Freeman	The University of Georgia, Athens, GA, USA	Magnetically responsive droplet interface bilayer networks
Chen, Hongmin	4	Hongmin Chen[1], Jeff Wang[1], Yen-Jun Chuang[2], Zipeng Zhen[1], Feng Liu[2], Zhengwei Pan[2], and Jin Xie[1].	[1] Department of Chemistry, The University of Georgia, Athens, GA 30602, USA. [2] Department of Physics and Astronomy, University of Georgia, Athens, GA 30602, USA	Nanoscintillator-mediated X-ray inducible photodynamic therapy for <i>in vivo</i> cancer treatment
Cheng, Rui	5	Rui Cheng*, Weijie Huang*, Leidong Mao and Yiping Zhao (*equal contribution).	The University of Georgia, Athens, GA, USA.	Acceleration of thrombolysis by magnetically stimulated nanomotors
Cowger, A. Taku	6	Taku A. Cowger, Wei Tang, Zipeng Zhen, Kai Hu, David E. Rink, Trever J. Todd, Geoffrey D. Wang, Weizhong Zhang, Hongmin Chen and Jin Xie	Department of Chemistry, The University of Georgia, Athens, GA 30602, USA.	Casein-Coated Fe ₃ C ₂ Nanoparticles with Superior r ₂ Relaxivity for Liver-Specific Magnetic Resonance Imaging
Cruz-Acuna, Melissa	7	Melissa Cruz-Acuña, Lorena Maldonado-Camargo, Jon Dobson, and Carlos Rinaldi.	The University of Florida, Gainesville, FL.	Preparation and Characterization of Magnetic Gene Transfection Agents Consisting of Polyethylenimine and Chitosan Coated Iron Oxide Nanoparticles
Das, Raja	8	Raja Das[1], Ling Li[2], Veerle Keppens[2], David Mandrus[2], Hung T. Diep[3], Manh-Huong Phan[1], and Hariharan Srikanth[1]	[1] Department of Physics, University of South Florida, Tampa, FL 33620, USA [2] Department of Materials Science and Engineering, The University of Tennessee, Knoxville, Tennessee 37996, USA [3] Laboratoire de Physique Theorique et Modelisation, Universite de Cergy-Pontoise, CNRS, UMR 80892, Avenue Adolphe Chauvin, 95302 Cergy-Pontoise Cedex, France	Nature of the structural transition and ferromagnetic clustering in multiferroic EuTiO ₃
Deng, Zhaojie	9	Zhaojie Deng, Sam Arsenault, Taotao Zhu, Rui Cheng, James Griffith, Jonathan Arnold and Leidong Mao	The University of Georgia, Athens, GA, USA.	Single cell measurements on the biological clock by microfluidics
Devkota, Jagan	10	Jagan Devkota, P. Mukherjee, H. Srikanth, and M. H. Phan	Department of Physics, University of South Florida, Tampa, FL 33620, USA	A novel biosensing platform for detection of magnetically labeled cancer cells and biomolecules
Dhavalikar, Rohan	11	Rohan Dhavalikar, Nicolas Garraud, David P. Arnold and Carlos Rinaldi.	University of Florida, Gainesville, FL, USA.	TBD
Geng, Rugang	12	S. Liang, B. Yang, S. Yang, R. Geng, R. C. Subedi, X. Li, X. Han, T. Nguyen	The University of Georgia, Athens, GA, USA.	Spin Orbit Coupling and Interface Effect in Fullerene-based Spin Valves
Geryak, Ren	13	Ren Geryak, Jeffrey Geldmeier, and Vladimir V.	Georgia Institute of Technology, GA, USA.	Remote Giant Multispectral Plasmonic Shifts of Labile Hinged Nanorod Array via
Guz, Nataliia	14	N. Guz, S. Bakshi, A. Zakharchenko, D. Kolpashchikov, S. Minko, and E. Katz	Clarkson University	Controlled DNA delivery and detection triggered by magnetic field
Han, Koohee	15	Koohee Han[1, 2], C. Wyatt Shields IV [2, 3], Bhuvnesh Bharti [1, 2], Nidhi Diwaker [2], Gabriel López [2, 3], and Orlin D. Velev [1, 2],	[1] Department of Chemical and Biomolecular Engineering, North Carolina State University, Raleigh, NC, USA; [2] NSF Research Triangle MRSEC, Durham, NC, USA; [3] Department of Biomedical Engineering, Duke University, Durham, NC, USA;	Magnetic field directed self-assembly and manipulation of motile microbots from metallo-dielectric microcubes
Huang, Jing	16	Jing Huang, Weiping Qian, Liya Wang, Hui Wu, Hongyu Zhou, Andrew Y. Wang, Lily Yang and Hui Mao	Emory University School of Medicine, Atlanta, GA, USA	Targeted Delivery of Cisplatin with Milk Protein Coated Magnetic Iron Oxide Nanoparticle for Improving Pancreatic Cancer Treatment
Huang, Weijie	17	Weijie Huang, Yiping Zhao	Department of Physics and Astronomy, The University of Georgia, Athens, GA, USA.	The tPA loaded Fe ₃ O ₄ nanorods for targeted stroke treatment
Jons, Alexander	18	Alexander Jones and Dr. Suraj Sharma	The University of Georgia, Athens, GA, USA.	The Modification of Albumin-based Bioplastics with Magnetized Silver Nanoparticles
Kalappattil, Vijaysankar	19	Vijaysankar Kalappattil[1], Rugang Geng[2], Tho D. Nguyen[2], Sayan Chandra[1], Hariharan Srikanth[1], and Manh-Huong Phan[1]	[1] Department of Physics, University of South Florida, Tampa, FL 33620, USA [2] Department of Physics and Astronomy, University of Georgia, Athens, GA 30602, USA	Surface magnetism and strain-induced anisotropy in La _{0.67} Sr _{0.33} MnO ₃ thin films

Magnetically Stimulated Soft Matter
May 11-12, 2015
UGA, Athens, GA

Lam, Andreina Chiu	20	Andreina Chiu Lam, Lorena Maldonado-Camargo and Carlos Rinaldi	The University of Florida, Gainesville FL, USA.	Optimizing the methods of nanoparticle coating with poly(ethylene glycol) to minimize non-specific uptake
Li, Yucheng	21	Yuancheng Li, Hongyu Zhou, Liya Wang, Jing Huang, Lily Yang, and Hui Mao	Emory University, Atlanta, GA, USA.	IGF-1R Conjugated 'Anti-biofouling' Iron Oxide Nanoparticles for Improved Tumor Targeting and MRI of Pancreatic Cancer"
Maldonado, Lorena	22	Lorena Maldonado-Camargo and Carlos Rinaldi	University of Florida, Gainesville, FL, USA.	Rotational diffusivity of polymer grafted particles in polymer melts
Meng, Qingying	23	Qingying Meng, Forrest Goodfellow , Steven Stice, Roozbeh Abedini-Nassab, Daniel Joh, Ashutosh Chilkoti, David Murdoch, and Benjamin B. Yellen.	The University of Georgia, Athens, GA, USA.	In Vivo Tracking of SPIO-Labeled Human Neural Progenitor Stem Cells in Chick Embryo
Nassab, Roozbeh Abedini	24	Pavel Aprelev, Jake Townsend, Ruslan Burtovyy, Igor Luzinov, and Kostya Kornev	Duke University, Durham, NC, USA.	Large Automated Single Cell Arrays based on Magnetophoretic Circuits
Pavel, Aprelev	25		Clemson University [1] Department of Radiology and Imaging Sciences, Emory University School of Medicine, Atlanta, Georgia 30322, USA	New insights on properties of complex liquids and magnetic nanorods with Magnetic Rotational Spectroscopy
Reuven, Darkeyah	26	Darkeyah Reuven[1,2], Liya Wang[1,2], Hui Mao[1,2]	[2] Center for Systems Imaging, Emory University School of Medicine, Atlanta, Georgia 30322, USA	Fluorinated Graphene Nanoribbon with a Novel MRI Contrast Enhancing Property
Roy, Anandi	27	Anandi Roy, Jason Locklin, Rugang Geng and Tho Nguyen.	Department of Chemistry, The University of Georgia, Athens, GA 30602, USA. [1] Department of Physics & Astronomy, University of Georgia, Athens, GA 30602, USA	Large magnetoresistance ratios in organic spin valve devices with covalently immobilized poly-3-methylthiophenes
Subedi, Ram Chandra	28	S. H. Liang [1], Q. T. Zhang [2,3], L. You [2], R. Geng [1], R. C. Subedi [1], J. L. Wang [2], X. F. Han [3] and T. D. Nguyen [1]	[2] School of Materials Science and Engineering, Nanyang Technological University, Singapore 639798, Singapore [3] Beijing National Laboratory of Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China	Giant Magnetoresistance in Double Organic-spacer-layers Spin Valves (DOSVs)
Tang, Wei	29	Wei Tang, Zipeng Zhen, Trever Todd Weizhong Zhang, and Jin Xie	Department of Chemistry, The University of Georgia, Athens, GA 30602, USA.	Tumor Vasculature Targeted Photodynamic Therapy for Enhanced Delivery of Nanoparticles
Tokarev, Alexander	30	Alexander Tokarev, Yu Gu, Andrey Zakharchenko, Oleksandr Trotsenko, Igor Luzinov, Konstantin G.	The University of Georgia, Athens, GA, UGA	Reconfigurable Anisotropic Coatings via Magnetic Field-Directed Assembly and Translocation of Locking Magnetic Chains
Trotsenko, Oleksandr	31	Oleksandr Trotsenko, Alexander Tokarev, Alexey Gruzd, Timothy Enright and Sergiy Minko	The University of Georgia, Athens, GA, UGA	Magnetic Field Assisted Assembly of Highly Ordered Percolated Nanostructures and Their Application for Transparent Conductive Thin Films
Unni, Mythreyi	32	Mythreyi Unni, and Carlos Rinaldi	University of Florida, Gainesville, Florida, USA	Optimizing Thermal Decomposition Synthesis Conditions to Enhance Energy Dissipation in Single-Core Magnetic Nanoparticles
Wang, Jeff	33	Jeff Wang[1], Hongmin Chen[1], Wei Tang[1], Trever Todd[1], Zipeng Zhen[1], Khan Hekmatyar[2], Taku Cowger[1], Weizhong Zhang[1], John Stickney[1], and Jin Xie[1]	[1] Department of Chemistry, The University of Georgia, Athens, GA 30602, USA. [2] Bio-Imaging Research Center, The University of Georgia, Athens, GA, USA.	Gd-Encapsulated Carbonaceous Dots with Efficient Renal Clearance for Magnetic Resonance Imaging
Zakharchenko, Andrey	34	Olena Kudina, Andrey Zakharchenko, Oleksandr Trotsenko, Dr. Alexander Tokarev, Dr. Leonid Ionov, Georgi Stoychev, Nikolay Puretskiy, Prof. Scott W. Pryor, Prof. Andriy Voronov, and Prof. Sergiy Minko	The University of Georgia, Athens, GA, UGA	Highly Efficient Phase Boundary Biocatalysis with Enzymogel Nanoparticles
Zhao, Wujun	35	Wujun Zhao[1], Taotao Zhu[1], Troy D. Querec[2], Elizabeth R. Unger[2] and Leidong Mao[1]	[1] The University of Georgia, Athens, GA, USA; [2] Centers for Disease Control and Prevention, Atlanta, GA, USA.	Label-free and continuous-flow ferrohydrodynamic screening of cancer cells in biocompatible ferrofluids