

2012 MIT POLYMER POSTER CONTEST SORTED BY LAST NAME A-Z

CONTESTANT DIRECTORY

<u>Name</u>	<u>Location</u>	<u>Title</u>
An, Harry	1	<i>Microfluidic Synthesis and Properties of Cell-mimicking, Soft, Hydrogel Colloids</i>
Batson, Joel M	2	<i>Synthesis of Linear Polyarenes</i>
Chen, Hsieh	3	<i>Dynamics of Polymers in Flowing Colloidal Suspensions</i>
Chen, Irene C.	4	<i>Mechanical resuscitation of self-oscillating gels</i>
Chen, Po-Yen	5	<i>Layer-by-Layer Self Assembly Nanocomposites with Incorporation of M13 Bacteriophage: Fabrication and Applications in Dye-Sensitized Solar Cells</i>
Collins, Samantha C.	6	<i>Methods for Self-Assembly of Rod-Coil Diblock Copolymer Thin Films</i>
Crouzier, Dr. Thomas	7	<i>High functionalites of mucin multilayer films assembled through sugar-lectin interactions</i>
DeMuth, Peter	8	<i>Nano-layered Microneedle Arrays: A Materials Platform for Transcutaneous Vaccine and Therapeutics Delivery</i>
Endale, Girma T	9	<i>Immune Cell multilayer assembled using layer-by-layer processing</i>
Frazier, Kelvin M.	10	<i>Immobilized SWNT by Non-Covalent Functionalization: Development of a Robust Gas Sensor</i>
Gilbert, Jonathan	11	<i>Cell Surface Polymer Backpacks</i>
Gotrik, Kevin W.	12	<i>Morphology control of BCP thin films via controlled solvent annealing</i>
Hannon, Adam F.	13	<i>Enhancing the Self-Assembly of Block Copolymer Systems Using Solvents for Nanoscale Pattern Formation: A Self-Consistent Field Theory Study</i>
Heller, Dr. Daniel A.	14	<i>Modular, Click-in-Emulsion Nanogels with Tunable Biodistribution</i>

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<u>Name</u>	<u>Location</u>	<u>Title</u>
<i>Iviglia, Giorgio</i>	15	<i>Synthesis of novel Poly(Glycerol Sebacate) - co - Polyethylene Glycol for tissue engineering</i>
<i>Jones, Jeremy J</i>	16	<i>DNA in confinement and in the presence of macromolecular crowding agent</i>
<i>Kaastrup, Kaja</i>	17	PENDING
<i>Ke, Chyan Ying</i>	18	<i>Multivalent Antigen Presentation to B Cells with X-DNA Polymerizable Nanostructures</i>
<i>Kim, YongJoo</i>	19	<i>Fast field theoretic simulation of block copolymers with the mode Monte Carlo method</i>
<i>Kim, Dr. Jungwook</i>	20	<i>Nano-structured hydrogel micro-reactors for photo-catalytic water splitting</i>
<i>Kleingartner, Justin A.</i>	21	<i>Utilizing dynamic contact angle tensiometry to quantify the kinetics of switchable surface rearrangement</i>
<i>Lam, Christopher N</i>	22	<i>Interactions Governing the Self-Assembly of Globular Protein-Polymer Block Copolymers</i>
<i>Lee, Hyomin</i>	23	<i>Poly(vinyl alcohol) based multilayer films for antifogging applications</i>
<i>Lee, Dr. Jungkyu</i>	24	PENDING
<i>Liu, David S</i>	25	<i>Exploring Composite LbL Coated Electrospun Mats for Fuel Cell Applications</i>
<i>Lobez, Jose</i>	26	<i>Efficiency Improvement of Organic Bulk Heterojunction Solar Cells by Functionalized Polythiophene Additives</i>
<i>Maloney, John M</i>	27	<i>On the Origin and Extent of Mechanical Variation among Tissue Cells</i>
<i>Mannarino, Matthew M.</i>	28	<i>Tribological and Mechanical Properties of Electrospun Nanofiber Mats</i>

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<i>Mihaila, Silvia M</i>	30	<i>Methacrylated carrageenan for tissue engineering applications</i>
<i>Morton, Stephen W.</i>	31	<i>Layer-by-Layer Nanoparticles: Towards Combination Therapy</i>
<i>Nunes Pereira, Maria Jose M.</i>	32	<i>Biocompatible elastomers for controlled release of macromolecular therapeutics</i>
<i>Park, Kyoo Chul</i>	33	<i>The drop dynamics of complex fluids on textured surfaces</i>
<i>Patel, Dr. Alpesh P</i>	34	<i>Poly(glycerol Sebacate) - carbon nanotubes nanocomposites</i>
<i>Reuel, Nigel F</i>	36	<i>Transduction of Glycan-Lectin Binding using Near Infrared Fluorescent Single Walled Carbon Nanotubes for Glycan Profiling</i>
<i>Selimovic, Dr. Selia</i>	37	<i>Surface and polymerization properties of methacrylated gelatin</i>
<i>Sing, Charles E.</i>	38	<i>Force extension response of single self-associating polymer chains</i>
<i>Smith, Jonathan D.</i>	39	<i>Liquid-Encapsulated Hydrophobic and Anti-icing Surfaces</i>
<i>Srinivasan, Siddarth</i>	40	<i>Non-Wetting Surfaces for Fluid Friction Reduction</i>
<i>Swami, Dr. Archana</i>	41	<i>Structure function correlation of polymers and formulation methods tailor made encapsulation of various therapeutic molecules.</i>
<i>Sydlik, Stefanie A</i>	42	<i>Novel Triptycene Polymers for Hydrogen Bond-based Sensing</i>
<i>Tang, Shengchang</i>	43	<i>Oxidatively-Responsive Chain Extension for Enhanced Mechanical Properties in Artificially Engineered Protein Hydrogels</i>

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<i>Thomas, Carla S.</i>	45	<i>Processing Dependent Self-Assembly of Protein-Polymer Diblock Copolymers</i>
<i>Tong, Jonathan</i>	46	<i>Polyethylene Nanofibers with Very High Thermal Conductivities</i>
<i>Van Lehn, Reid</i>	47	<i>Lateral phase separation of mixed polymer brushes</i>
<i>Wang, Muzhou</i>	48	<i>Dynamics of Rod-Coil Block Copolymers</i>
<i>Yagüe, Dr. Jose</i>	49	<i>Systematic control of mesh size by iCVD for sensor applications</i>
<i>Yang, Rong</i>	50	<i>Ultrathin Antifouling Coatings with Stable Surface Zwitterionic Functionality by initiated Chemical Vapor Deposition (iCVD)</i>
<i>Zeiger, Adam S.</i>	51	<i>Influence of the excluded volume effect on extracellular matrix fiber organization</i>
<i>Zhang, Yuxi</i>	52	<i>Production and Characterization of Electrospun Polyaniline Fibers with High Electrical Conductivity</i>
<i>Zhou, Dr. Huaxing</i>	53	<i>Chemoschromic hydrogel model networks via tetrazine-olefin cycloaddition</i>