

Publikationsliste

Publikationen: 21

Summe der Zitationen: 346

H-index (Web of Science): 10

Researcher-ID: G-1401-2013

Research Gate: Alexandra M Greiner

RG Score: 27.65; **Sum Impact Points:** 128.68

Artikel eingereicht zur Veröffentlichung in referierten Fachzeitschriften

24. **Greiner A. M.**, S. Biela, H. Chen, J. P. Spatz, R. Kemkemer. "The spatio-temporal cell polarization and migration behavior of endothelial and smooth muscle cells differs in small electrical fields", 2015, (submitted)
23. Chen. H., A. Sales, D. Kaufmann, R. Kemkemer, **A. M. Greiner**. "The proliferation of vascular cells on micro-structured polymer surfaces depends on the cell age", 2015, (submitted)
23. **Greiner A. M.**, A. Sales, H. Chen, S. Biela, R. Kemkemer. "Nano- and micro-structured (bio)materials impact the physiology and integrity of vascular cells", Jan 2016 (submitted)
22. Autenrieth T. J., S. C. Frank, **A. M. Greiner**, D. Klumpp, B. Richter , M. Hauser, S. Lee, J. Levine, M. Bastmeyer. "Actomyosin Contractility and RhoGTPases affect Cell-Polarity and directional Migration during Haptotaxis", Dec 2015 (submitted)

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21. Jaggy M., P. Zhang, **A. M. Greiner**, T. J. Autenrieth, V. Nedashkivska, A. Efremov, C. Blattner, M. Bastmeyer, P. A. Levkin. "Hierarchical Micro-Nano Surface Topography Promotes Long-term Maintenance of Undifferentiated Mouse Embryonic Stem Cells", Nov 2015, (accepted), *Nano Letters*
20. **Greiner A. M.**, F. Klein, T. Gudzenko, B. Richter, T. Striebel, B. G. Wundari, T. J. Autenrieth, M. Wegener, C. M. Franz, M. Bastmeyer. "Cell type-specific adaptation of cell and nuclear volume in micro-engineered 3D environments", Nov 2015, 69:121-132, *Biomaterials*
19. **Greiner A. M.**, S. A. Biela, H. Chen, J. P. Spatz, R. Kemkemer. "Temporal responses of human endothelial and smooth muscle cells exposed to uniaxial cyclic tensile strain", published online Feb 2015, *Experimental Biology and Medicine*
18. **Greiner A. M.**, P. Hoffmann, K. Bruellhoff, S. Jungbauer, J. P. Spatz, M. Moeller, R. Kemkemer, J. Groll. "Stable Biochemically Micro-patterned Hydrogel Layers Control Specific Cell Adhesion and Allow Long Term Cyclic Tensile Strain Experiments", Nov 2014, 14(11):1547-55, *Macromolecular Bioscience*
17. Sales A., F. Wang, H. Chen, R. Kemkemer, **A. M. Greiner**, "Cell-age and cell type-dependent behavior of human vascular cells on micro-structured or soft polymer substrates", Oct 2014, 59(1):286-289, DOI: 10.1515/bmt-2014-5003, *Biomedical Engineering/Biomedizinische Technik*
16. Hirtz M., **A. M. Greiner**, T. Landmann, M. Bastmeyer, H. Fuchs, "Click-Chemistry Based Multi-Component Microarrays by Quill-Like Pens", Jun 2014, 1(3), DOI: 10.1002/admi.201300129 *Advanced Materials Interfaces*
15. **Greiner A. M.**, M. Jaeckel, A. Scheiwe, D. R. Stamov, T. J. Autenrieth, J. Lahann, C. M. Franz, M. Bastmeyer. "Multifunctional polymer scaffolds with adjustable pore size and chemoattractant gradient for studying cell matrix invasion", Jan 2014, 35(2):611-619, *Biomaterials*

14. Richter B., T. Pauloehrl, J. Kaschke, D. Fichtner, J. Fischer, **A. M. Greiner**, D. Wedlich, M. Wegener, G. Delaittre, C. Barner-Kowollik, M. Bastmeyer. "Three-Dimensional Microscaffolds Exhibiting Spatially Resolved Surface Chemistry", Nov 2013, 25(42): 6117-6122, *Advanced Materials*
13. **Greiner A. M.**, H. Chen, J. P. Spatz, R. Kemkemer. "Cyclic Tensile Strain Controls Cell Shape and Directs Actin Stress Fiber Formation and Focal Adhesion Alignment in Spreading Cells", Oct 2013, 8(10):e77328, *PLoS One*
12. Brinkmann F., M. Hirtz, **A. M. Greiner**, M. Weschenfelder, B. Waterkotte, M. Bastmeyer, H. Fuchs. „Interdigitated Multi-Color Bioink Micropatterns by Multiplexed Polymer Pen Lithography“, Oct 2013, 9(19):3266-3275, *Small*
11. Vogt A. P., T. Tischer, U. Geckle, **A. M. Greiner**, V. Trouillet, M. Kaupp, L. Barner, T. Hofe, and C. Barner-Kowollik. "Access to Intrinsically Glucoside-Based Microspheres with Boron Affinity", Jun 2013, 34(11):916-921, *Macromolecular Rapid Communications*
10. Carisey A., **A. M. Greiner**, R. Tsang, , N. Nijenhuis, N. Heath, A. Nazgiewicz, R. Kemkemer, B. Derby, J. P. Spatz, C. Ballestrem. "Vinculin regulates the recruitment and release of core focal adhesion proteins in a force-dependent manner", Feb 2013, 18;23(4):271-81, *Current Biology*
9. **Greiner A. M.**, B. Richter, M. Bastmeyer. "Micro-Engineered 3D Scaffolds for Cell Culture Studies", Oct 2012, 12(10):1301-1314, *Macromolecular Biosciences*
8. Schuster S., R. Bernewitz, J. Zapp; **A. M. Greiner**, K. Köhler, H. P. Schuchmann, G. Guthausen. "Analysis of W1/O/W2 Double Emulsions with CLSM: Statistical Image Processing for Droplet Size Distribution", Oct 2012, 81:84-90, *Chemical Engineering Science*
7. Delaittre G., **A. M. Greiner**, T. Pauloehrl, M. Bastmeyer, C. Barner-Kowollik. "Chemical approaches to synthetic polymer surface biofunctionalization for targeted cell attachment", May 2012, 8(28):7323-7347, *Soft Matter*
6. Vogt A. P., V. Trouillet, **A. M. Greiner**, M. Kaupp, U. Geckle, L. Barner, T. Hofe, C. Barner-Kowollik."A Facile Route to Boronic Acid Functional Polymeric Microspheres via Epoxide Ring Opening", Jul 2012, 33(13):1108-1113, *Macromolecular Rapid Communication*
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4. **Goldyn, A. M.**, P. Kaiser, J. P. Spatz, C. Ballestrem, R. Kemkemer. "The kinetics of force-induced cell reorganisation depend on microtubules and actin", Apr 2010, 67(4):241-50, *Cytoskeleton*
3. **Goldyn A. M.**, B. A. Rioja, J. P. Spatz, C. Ballestrem, and R. Kemkemer. "Force-induced cell polarisation is linked to RhoA-driven microtubule-independent focal-adhesion sliding", Oct 2009, 15;122(Pt 20):3644-51, *Journal of Cell Science*
2. Ahmed W. W., T. Wolfram, **A. M. Goldyn**, K. Bruellhoff, B. A. Rioja, M. Moller, J. P. Spatz, T. A. Saif, J. Groll, and R. Kemkemer. "Myoblast morphology and organization on biochemically micro-patterned hydrogel coatings under cyclic mechanical strain", Jan 2010 Jan, 31(2):250-8 (published online Sep 2009), *Biomaterials*
1. Heuts, J., J. Salber, **A. M. Goldyn**, R. Janser, M. Moller, and D. Klee. "Bio-functionalized star PEG-coated PVDF surfaces for cytocompatibility-improved implant components", Mar 2010, 15; 92(4):1538-51 (published online May 2009), *Journal of Biomedical Materials Research Part A*

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Dissertation (Dr. rer. nat.)

A. M. Goldyn. “The spatiotemporal response of cells and their cytoskeleton to cyclic stretching”, November **2009**, Ruprecht-Karls-Universität Heidelberg / Max-Planck-Institut für Metallforschung

Diplomarbeit (Dipl. Biol)

A. M. Goldyn. “Evaluation of the Cell Response of Different Musculoskeletal Cell Types to Pro- and Anti-Adhesive Modified Poly(vinylidene-fluoride) (PVDF) Surfaces under Mechanical Stress”, April **2006**, RWTH Aachen