

## Research Interest

- Nanofabrication via directed self-assembly of (bio-) copolymers at different dimensions and length scales
- Functional nanostructured hybrid (bio-) materials
- Nanoparticles synthesis, size control and assembly at 1D-, 2D-, and 3D-dimensions
- Fabrication of nano-objects as markers to study complex biological systems
- Bio-inspired hybrid materials based on dendrimers templating inorganic moieties
- Nanofibers fabrication via electrospinning for biomaterial applications
- Exploration of simple synthetic approaches (in-situ) combined with external stimuli to fabricate functional nanocomponents possessing unique physical properties for new generation miniaturized devices
- Rheology of polymeric materials and hybrid systems

## Publication list

### Books

Simon F Peter, Fahmi Amir

Polymere-Chemie und Strukturen: Herstellung, Charakterisierung und Werkstoffe.

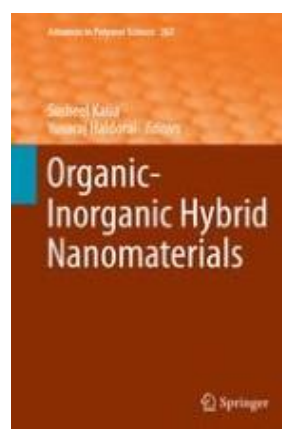
**John Wiley & Sons.** 2019; ISBN: 978-3-527-33462-9



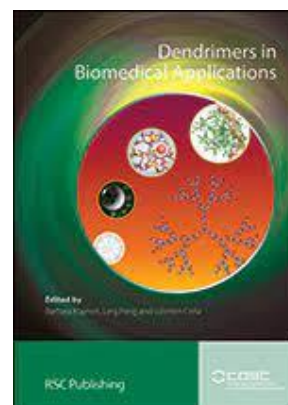
Fahmi A. Frontiers in Nanofabrication via Self-Assembly of Hybrid Materials into Low Dimensional Nanostructures. Organic-Inorganic Hybrid Nanomaterials. 2014; 351-79.

**Springer** ISBN: 978-3-379-13592-2

(Chapter in book)



Fahmi A, Appelhans D, Danani A, Pavan GM, Voit B. Dendrimer-Based Hybrid Fibers as Potential Platform for 1D-objects in Nanotechnology. *Dendrimers in Biomedical Applications*. **Royal Chemical Society**. 2013; 14-29. ISBN: 978-1-84973-611-4 (Chapter in book)



Christopher P Martin, Matthew O. Blunt, Emmanuelle Vaujour, Amir Fahmi, Anthony D'Aleo, Luisa De Cola, Fritz Vögtle, Philip Moriarty (2011). *Self-Organised Nanoparticle Assemblies: A Panoply of Patterns*. 2013  
**Elsevier**. ISBN: 978-0444558756  
(Chapter in book)



## Articles according to Google Scholar

### 2021

Nirwan VP, Filova E, Al-Kattan A, Kabashin AV, Fahmi A. Smart Electrospun Hybrid Nanofibers Functionalized with Ligand-Free Titanium Nitride (TiN) Nanoparticles for Tissue Engineering. **Nanomaterials**. 2021; 11(2):519

Malysheva K, Kwaśniak K, Gnilitzkyi I, Barylyak A, Zinchenko V, Fahmi A, Korchynskyi O, Bobitski Y. Functionalization of Polycaprolactone Electrospun Osteoplastic Scaffolds with Fluorapatite and Hydroxyapatite Nanoparticles: Biocompatibility Comparison of Human Versus Mouse Mesenchymal Stem Cells. **Materials**. 2021; 14(6):1333

Novik H, Clerici M, Fahmi A, Buzgo M, Simate A. High-Throughput Electrospinning of Bioactive Scaffolds for Bone Regeneration. **Proceedings**. 2021; 78(1):24

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Nirwan VP, Pandey S, Hey-Hawkins E, Fahmi A. Hybrid 2D nanofibers based on poly (ethylene oxide)/polystyrene matrix and poly (ferrocenylphosphinoboranes) as functional agents. **Journal of Applied Polymer Science**. 2020; 137(37):49091

Shammas M, Zinicovscaia I, Humelnicu D, Cepoi L, Nirwan V, Demčák Š, Fahmi A. Bioinspired electrospun hybrid nanofibers based on biomass templated within polymeric matrix for metal removal from wastewater. **Polymer Bulletin**. 2020; 77(6):3207-22

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Pacaud M, Hervé-Aubert K, Soucé M, Makki AA, Bonnier F, Fahmi A, Feofanov A, Chourpa I. One-step synthesis of gold nanoflowers of tunable size and absorption wavelength in the red & deep red range for SERS spectroscopy. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**. 2020; 225:117502.

Falanga A, Siciliano A, Vitiello M, Franci G, Del Genio V, Galdiero S, Guida M, Carraturo F, Fahmi A, Galdiero E. Ecotoxicity Evaluation of Pristine and Indolicidin-coated Silver Nanoparticles in Aquatic and Terrestrial Ecosystem. **Int J Nanomedicine**. 2020; 15:8097-8108

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E. Petrova, D. Kotsikau, V. Pankov, A. Fahmi, Influence of synthesis methods on structural and magnetic characteristics of Mg–Zn-ferrite nanopowders, **Journal of Magnetism and Magnetic Materials**. 2019; 473:85-91

Goonoo N, Fahmi A, Jonas U, Gimié F, Arsa IA, Bénard S, Schönherr H, Bhaw-Luximon A. Improved Multicellular Response, Biomimetic Mineralization, Angiogenesis, and Reduced Foreign Body Response of Modified Polydioxanone Scaffolds for Skeletal Tissue Regeneration. **ACS Appl Mater Interfaces**. 2019; 11(6):5834-5850

Fahmi A, Lapeika V, Karalius N, Tamulienė J, Plėšnienė L, Franckevičius M, Rastenienė L, Vaišnoras DR. Irradiation-induced electrical conductivity anisotropy of the Ib synthetic diamond. **LNFK-43: 43-ioji Lietuvos nacionalinė fizikos konferencija, Kaunas, 2019 m. spalio 3-5 d.: pranešimų medžiaga. Kaunas: Technologija. 2019**

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## 2016

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