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Academic background and appointments

2016-2019 Chair of Institute of Chemistry, The Hebrew University of Jerusalem

2016- Head of the 3D and functional printing center of the Hebrew University

2005 Professor, Institute of Chemistry, The Hebrew University of Jerusalem

1998- 2004 Associate Professor of Applied Chemistry at the Institute of Chemistry,
The Hebrew University of Jerusalem.

1991-1997 Senior Lecturer of Applied Chemistry, Casali Institute of Applied Chemistry,
The Hebrew University of Jerusalem.

1986-1991 Lecturer of Applied Chemistry , Casali Institute of Applied Chemistry,
The Hebrew University of Jerusalem.

1980-1984 Ph.D. in Applied Chemistry, The Hebrew University of Jerusalem

1978-1980 MSc. in Applied Chemistry, The Hebrew University of Jerusalem

1975-1978 BSc. in Chemistry, The Hebrew University of Jerusalem

General description of PI research

The research is focused on the preparation of micro and nanomaterials and their applications functional inks such as printed electronics, 2D, 3D and 4D printing, and in cosmetics, pharmaceuticals and agriculture. SM is the author of over 280 publications and the editor of 4 books, two are on printing: The Chemistry of Inkjet Inks and Nanomaterials for Functional and 3D Printing.

For full list of publication see:

<https://scholars.huji.ac.il/magdassi/publications> .

Additional outcome of the research is more than 70 **inventions** (over 300 worldwide applications, 37 granted US patents). For full list of patents see:

https://worldwide.espacenet.com/searchResults?bookmarkedResults=true&submitted=true&DB=EPODOC&locale=en_EP&sf=q&IA=magdassi&PGS=10&ST=quick).

In addition to basic scientific research, SM conducts industrial R&D projects with various companies, which led to many commercial activities, including licensing agreements, worldwide sales and establishing new start-up companies.

LIST OF PUBLICATIONS SINCE 2014

BOOKS

1. "Surface Activity of Proteins: Chemical and Physicochemical Modifications", 1996 , Marcel Dekker Inc., NY, S. Magdassi (ed.).
2. "Novel Cosmetic Delivery Systems", 1998, Marcel Dekker Inc., NY. S. Magdassi and E. Touitou (eds.).
3. "The chemistry of Inkjet Inks", World scientific. 2010,. S. Magdassi (ed.).
4. "Nanomaterials for functional and 3D printing", Wiley, S. Magdassi and A. Kamyshny (eds.).

PUBLICATIONS IN JOURNALS

183. H.M. Lim, J.Y. Tan, S.K. Batabyal, S. Magdassi, S.G. Mhaisalkar, L.H. Wong, Photoactive Nanocrystals by Low-Temperature Welding of Copper Sulfide Nanoparticles and Indium Sulfide Nanosheets, *ChemSusChem*, 7, 3290-3294 (2014), DOI: 10.1002/cssc.201402333. **Selected for back cover page.**
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189. Y. Farraj, M. Grouchko and S. Magdassi, Self-Reduction of Copper Complex MOD Ink for Inkjet Printing Conductive Patterns on Plastics, *Chemical Communications*, 51, 1587 – 1590 (2015), DOI: 10.1039/C4CC08749F.
190. I. Cooperstein, M. Layani and S. Magdassi, 3D printing of porous structures by UV-curable O/W emulsion for fabrication of conductive objects", *Journal of Materials Chemistry C*, 3, 2040 – 2044, (2015), DOI: 10.1039/C4TC02215G.Selected as Hot Article for 2015.
191. C. Liu, I Balin, S. Magdassi, I. Abdulhalim, and Y. Long, Vanadium dioxide nanogrid films for high transparency smart architectural window applications, *Optics Express*, 23, A124-A132 (2015)
192. E. Portnoy, E. Nizri, J. Golenser, M. Shmuel, S. Magdassi, Sara Eyal, Imaging the urinary pathways in mice by liposomal indocyanine green, *Nanomedicine*, 11,1057-64 (2015) . DOI: 10.1016/j.nano.2015.02.019
193. X. Cao, M. N. Thet, Y. Zhang, S. C. J. Loo, S. Magdassi, Q. Yan and Y. Long, Solution-Based Fabrication of VO₂ (M) Nanoparticles via Lyophilisation, *RSC Advances*, 5, 25669-25675, (2015), DOI: 10.1039/C4RA16840B
194. S. Perni, V. Thenault, K. Margulis-Goshen, S. Magdassi and P. Prokopovich, Antimicrobial Activity of Bone Cements with Embedded Organic Nanoparticles, *International Journal of Nanomedicine* , 10, 6317-6329, (2015).
195. N. Wang, S. Liu, X. Zeng S. Magdassi, and Y. Long, Mg/W codoped Vanadium Dioxide Thin Films with Enhanced Visible Transmittance and Low Phase Transition Temperature, *J. Materials Chemistry C*,3, 6771-6777 (2015), DOI: 10.1039/C5TC01062D.
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200. S. Aharon, M. Layani, B.Cohen, E. Shukrun, S. Magdassi and L. Etgar, Self-Assembly of Perovskite for Fabrication of Semitransparent Perovskite Solar Cells, *Advanced Materials Interfaces*, 2, 1500118, (2015). DOI: 10.1002/admi.20150011, Selected for cover page
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204. E. Portnoy, N. Vakruk, A. Bishara, M. Shmuel, S. Magdassi, J. Golenser, S. Eyal, Indocyanine Green Liposomes for Diagnosis and Therapeutic Monitoring of Cerebral Malaria, *Theranostics*, 6(2), 167-176, (2016).
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214. T. Yeshua, C. Lehmann, U. Hübner, S. Azoubel, S. Magdassi, E. B. Campbell, S. Reich, and A. Lewis, Nanodrawing of Aligned Single Carbon Nanotubes with a Nanopen, *Nano Lett.*, 16, 1517–1522 (2016) DOI: 10.1021/acs.nanolett.5b03424
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247. N. Armon, E. Greenberg, M. Layani, Y. Rosen, S. Magdassi, H. Shpaysman, Continuous Nanoparticle Assembly by a Modulated Photo-Induced Microbubble for Fabrication of Micrometric Conductive Patterns, *ACS Applied Materials & Interfaces*, 9, 44214-44221, 2017. doi: 10.1021/acsami.7b14614.

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