

Dr. MICHAEL GOLOSOVSKY
List of Publications (2010-present)
Total number of articles in refereed journals -98

2019

Michael Golosovsky, *Citation Analysis and Dynamics of Citation Networks*, (Springer International publishing, 2019).

Alex Kindler, Michael Golosovsky, and Sorin Solomon "Early prediction of the outcome of Kickstarter campaigns: is the success due to virality?", Palgrave Communications 5:49 (2019).

2018

M. Golosovsky, "Mechanisms of complex network growth: Synthesis of the preferential attachment and fitness models", Phys. Rev. E 97, 062310 (2018).

2017

V.Lirtsman, M. Golosovsky, and D. Davidov, "Surface plasmon excitation using a Fourier-transform infrared spectrometer: Live cell and bacteria sensing", Rev. Sci. Instrum. 88, 103105 (2017).

M. Golosovsky, "Power-law citation distributions are not scale-free", Phys. Rev. E 96, 032306 (2017).

M. Golosovsky and S. Solomon, "Growing complex network of citations of scientific papers: Modeling and measurements", Phys. Rev. E 95, 012324 (2017).

A. Bein, A. Zilbershtein, M.Golosovsky, D.Davidov, B. Schwartz, "LPS Induces Hyper-Permeability of Intestinal Epithelial Cells", J. Cellular Physiology 232, 381 (2017).

S. Mercone, M. Belmeguenai, S. Malo, F. Ott, F. Cayre, M. Golosovsky, B. Leridon, C. Adamo, and P. Monod, "Investigation of ferromagnetic heterogeneities in $La_{0.7}Sr_{0.3}MnO_3$ thin films", J. Physics D 50, 045001 (2017).

2015

M. Chasnitsky, M. Golosovsky, D. Davidov, "The broadband surface plasmon wave excitation using dispersion engineering", Optics Express 23, 30570 (2015).

2014

A. Zilbershtein, A. Bein, V. Lirtsman, B. Schwartz, M. Golosovsky, D. Davidov, "Surface plasmon resonance-based infrared biosensor for cell studies with simultaneous control", J. Biomedical Optics 19, 111608 (2014).

2013

V.Yashunsky, L. Kharliker, E. Zlotkin-Rivkin, D. Rund, N. Melamed-Book, E.E. Zahavi, E. Perlson, S. Mercone, M. Golosovsky, D. Davidov, B. Aroeti, "Real-Time Sensing of Enteropathogenic *E. coli*-Induced Effects on Epithelial Host Cell Height, Cell-Substrate Interactions, and Endocytic Processes by Infrared Surface Plasmon Spectroscopy", PLOS ONE 8, e78431 (2013).

M. Golosovsky and S. Solomon, "The Transition Towards Immortality: Non-linear Autocatalytic Growth of Citations to Scientific Papers", J. Stat. Phys. Special Issue: Statistical Mechanics in Social Sciences 151, 340 (2013).

2012

M. Golosovsky and S. Solomon, "Runaway Events Dominate the Heavy Tail of Citation Distributions", *Eur. Phys. J. Special Topics* **205**, 303 (2012).

M. Golosovsky and S. Solomon, "Stochastic dynamic model of a growing network based on self-exciting point process", *Phys. Rev. Lett.* **109**, 098701 (2012).

M. Golosovsky, P. Monod, P.K. Muduli, R.C. Budhani, "Low-field microwave absorption in epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ films resulting from the angle-tuned ferromagnetic resonance in the multidomain state", *Phys. Rev. B* **85**, 184418 (2012).

V. Yashunsky, T. Marciano, V. Lirtsman, M. Golosovsky, D. Davidov, B. Aroeti, "Real-Time Sensing of Cell Morphology by Infrared Waveguide Spectroscopy", *PLOS ONE* **7**, e48454 (2012).

A. Zilbershtein, M. Golosovsky, V. Lirtsman, B. Aroeti, D. Davidov, "Quantitative surface plasmon spectroscopy: Determination of the infrared optical constants of living cells", *Vibrational Spectroscopy* **61**, 43 (2012).

V. Yashunsky, V. Lirtsman, A. Zilbershtein, A. Bein, B. Schwartz, B. Aroeti, M. Golosovsky, D. Davidov, "Surface Plasmon Based Infrared Spectroscopy for Cell Biosensing", *J. Biomedical Optics* **17**, 081409 (2012).

V. Yashunsky, A. Zilbershtein, V. Lirtsman, T. Marciano, B. Aroeti, M. Golosovsky, D. Davidov, "Infrared surface plasmon spectroscopy and biosensing" *SPIE Proc. Vol. 8234* (2012).

2011

V. Yashunsky, A. Zilbershtein, T. Marciano, V. Lirtsman, M. Golosovsky, B. Aroeti, D. Davidov, "Studying living cells by infrared surface plasmon spectroscopy", in *Plasmon: Structure, Properties, and Applications*, ed. by A.I. Turunen and J.O. Niemi, Nova Science Publishers, 2011.

Y. Neve-Oz, T. Pollok, S. Burger, M. Golosovsky, and D. Davidov, *Localized resonant states and transmission in a two-dimensional photonic quasicrystal*, Proc. of the 5th International Conference on Applied Mathematics, Simulation, Modelling (ASM 'II), Corfu, 2011, N. Mastorakis (Ed.), Vol. 1, pp. 178-182, 2011.

2010

V. Yashunsky, V. Lirtsman, M. Golosovsky, D. Davidov, and B. Aroeti, "Real-Time Monitoring of Epithelial Cell-Cell and Cell-Substrate Interactions by Infrared Surface Plasmon Spectroscopy", *Biophysical J.* **99**, 4028 (2010).

Y. Neve-Oz, T. Pollok, S. Burger, M. Golosovsky, and D. Davidov, *Resonant Transmission of Electromagnetic Waves through 2D Photonic Quasicrystals*, *J. Appl. Phys.* **107**, 063105 (2010).

D. Shaltiel, H-A Krug von Nidda, B. Rosenstein, B. Ya. Shapiro, M. Golosovsky, I. Shapiro, A. Loidl, B. Bogoslavsky, T. Fujii, T. Watanabe, and T. Tamegai "Field cooling memory effect in Bi_{2212} and Bi_{2223} single crystals", *Supercond. Sci. Technol.* **23** 075001 (2010).

M. Golosovsky, V. Yashunsky, A. Zilberstein, T. Marciano, V. Lirtsman, D. Davidov, B. Aroeti "Infrared Surface Plasmon Spectroscopy of Living Cells", in *Plasmons: Theory and Applications*, ed. by K.N. Helsey, Nova Science Publishers, 2010.

M. Golosovsky, "Hyperbolic growth of the human population of the Earth: analysis of existing models", in *History and Mathematics*, pp. 188-204. Ed. by L. Grinin, P. Herrmann, A. Korotayev, and

A. Tausch, Uchitel Publishing house, Volgograd, Russia (2010). (arXiv:0910.3056v1).