Stanford

Olga (Volotskova) Stafford

Clinical Assistant Professor, Radiation Oncology - Radiation Physics

Bio

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Radiation Oncology - Radiation Physics

Publications

PUBLICATIONS

- **Efficient Radioisotope Energy Transfer by Gold Nanoclusters for Molecular Imaging** *SMALL*
  Volotskova, O., Sun, C., Stafford, J. H., Koh, A. L., Ma, X., Cheng, Z., Cui, B., Pratx, G., Xing, L.
  2015; 11 (32): 4002-4008
- **Differential Effects of Cold Atmospheric Plasma in the Treatment of Malignant Glioma** *Plos One*
  Sui, A., Volotskova, O., Cheng, X., Khasla, S. S., Bian, K., Murad, F., Keidar, M., Sherman, J. H.
  2015
- **Synergistic Assembly of Heavy Metal Clusters and Luminescent Organic Bridging Ligands in Metal-Organic Frameworks for Highly Efficient X-ray Scintillation** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
  Wang, C., Volotskova, O., Lu, K., Ahmad, M., Sun, C., Xing, L., Lin, W.
  2014; 136 (17): 6171-6174
- **Hard X-ray-induced optical luminescence via biomolecule-directed metal clusters** *CHEMICAL COMMUNICATIONS*
  Osakada, Y., Pratx, G., Sun, C., Sakamoto, M., Ahmad, M., Volotskova, O., Ong, Q., Teranishi, T., Harada, Y., Xing, L., Cui, B.
  2014; 50 (27): 3549-3551
- **Cold atmospheric plasma in cancer therapy** *Physics of Plasmas*
  Keidar, M. n., Shashurin, A. n., Volotskova, O. n., Stepp, M. n., Srinivasan, P. n., Sandler, A. n., Trink, B. n.
  2013; 20: 1-8
- **Targeting the cancer cell cycle by cold atmospheric plasma** *Scientific Reports*
  Volotskova, O., Hawley, T., Stepp, M., Keidar, M.
  2012; 2
- **Integrin activation by cold atmospheric plasma** *New Journal of Physics*
  O. Volotskova, M. A. Stepp, M. Keidar
  2012; 14: 053019
- **Arc plasma synthesis of carbon nanostructures: where is the frontier?** *J. Phys. D: Appl. Phys.*
  M. Keidar, A. Shashurin, Jian Li, Olga Volotskova, M. Kundrapu, T. S. Zhuang
  2011; 44: 174006
- **Controlling Diameter Distribution of Catalyst Nanoparticles in Arc Discharge** *Journal of Nanoscience and Nanotechnology*
  J. Lee, O. Volotskova, A. Shashurin, M. Keidar

2011; 11: 1-6

- **Plasma-Controlled Cell Migration: Localization of Cold Plasma?Cell Interaction Region** *Plasma Medicine*
  O. Volotskova, A. Shashurin, M. A. Stepp, S. Pal-Ghosh, M. Keidar
  2011; 1: 85-89
- **Ignition and temperature behavior of a single-wall carbon nanotube sample** *Nanotechnology*
  O. Volotskova, A. Shashurin, M. Keidar, Y. Raitses, V. Demidov, S. Adams
  2010; 21: 095705
- **The large-scale production of graphene flakes using magnetically-enhanced arc discharge between carbon electrodes** *Carbon*
  I. Levchenko, O. Volotskova, A. Shashurin, Y. Raitses, K. Ostrikov, M. Keidar
  2010; 48: 4556?4577
- **Single-step synthesis and magnetic separation of graphene and carbon nanotubes in arc discharge plasmas** *Nanoscale (part the web Nobel prize collection on graphene 2010)*
  O. Volotskova, I. Levchenko, A. Shashurin, Y. Raitses, K. Ostrikov, M. Keidar
  2010; 2 (10): 2281-2285
- **Mechanism of carbon nanostructure synthesis in arc plasma** *Physics of Plasmas*
  M. Keidar, A. Shashurin, O. Volotskova, Y. Raitses, I. I. Beilis
  2010; 17: 57101
- **Tailored Distribution of Single-Wall Carbon Nanotubes from Arc Plasma Synthesis Using Magnetic Fields** *ACS Nano*
  O. Volotskova, J. A. Fagan, J. Y. Huh, F. R. Phelan Jr., A. Shashurin, M. Keidar
  2010; 4 (9): 5187-5192