Publications and conferences

❖ Peer reviewed papers

1. Phuriwat Jittiarporn, Simona Badilescu, **Mohammed Alsawafta**, Lek Sikong, Vo-Van Truong, Electrochromic Properties of Sol-Gel Prepared Hybrid Transition Metal Oxides : A Short Review, Journal of Science: Advanced Materials and Devices-Elsevier (2017), doi: 10.1016/j.jsamd.2017.08.005.

2. Afaf Almoabadi, **Mohammed Alsawafta**, Simona Badilescu, Victor Stancovski, Tanu Sharma, Ralf Brüning, Vo-Van Truong, Sub-zero temperature dip-coating of sol-gel vanadium pentoxide. Effect of the low-temperature deposition on the structure, morphology and electrochromic properties of the film, Journal of Nanomaterials. 2016, 4595869.

3. **Mohammed Alsawafta**, Afaf Almoabadi, Simona Badilescu, and Vo-Van Truong, Improved electrochromic properties of vanadium pentoxide nanotubes prepared through the thermal treatment of sol-gel dip-coated thin films. Journal of The Electrochemical Society, 2015, 162 (7),H466-H472

4. **Mohammed Alsawafta,** Mamoun Wahbeh, Vo-Van Truong, Investigation of the validity of the universal scaling law on linear chains of silver nanoparticles, Journal of Nanomaterials.2014, 983413

5. Youseef Mosaddeghian Golestani, **Mohammed Alsawafta,** Simona Badilescu, Victor Stancovski, and Vo-Van Truong, Microstructure and electrochromic properties of nanostructured tungsten oxide thin films prepared by the vacuum filtration and transfer method, Journal of The Electrochemical Society, 2014,161, H909-H916

6. **Mohammed Alsawafta,** Youseef Mosaddeghian Golestani, T. Phonemac, Simona Badilescu, Victor Stancovski, and Vo-Van Truong, Electrochromic Properties of Sol-Gel Synthesized Macroporous Tungsten Oxide Films Doped with Gold Nanoparticles. Journal of The Electrochemical Society, 2014, 161, H276-H283

7. **Mohammed Alsawafta**, Simona Badilescu, Vo-Van Truong and Muthukumaram Packirisamy, Growth of Gold Crystals under the Presence of Bubbles Trapped under the Surface of Gold –Poly (vinyl alcohol) Nanocomposite Films. Progress in Nanotechnology and Nanomaterials.2013, 3, 69-76

8. **Mohammed Alsawafta**, Simona Badilescu, Vo-Van Truong and Muthukumaram Packirisamy, Effect of hydrogen nanobubbles on the morphology of gold – gelatin bionanocomposite films and their optical properties. IOP_Nanotechnology .2012, 23, 065305

9. **Mohammed Alsawafta**, MamounWahbeh and Vo-Van Truong, Theoretical study of optical properties of metallic ellipsoidal nanoparticles by discreet dipole approximation. Journal of Nanomaterials.2011, 457968

10. **Mohammed Alsawafta**, Simona Badilescu, Abhilash Paneri, Vo-Van Truong and Muthukumaram Packirisamy, Gold-poly(methyl methacrylate) nanocomposite films for plasmonic biosensing applications. Polymers, 2011, 3(4), 1833-1848

11. **Mohammed Alsawafta**, Mamoun Wahbeh, and Vo-Van Truong, Simulated optical properties of gold nanocubes and nanobars by discrete dipole approximation, Journal of Nanomaterials. 2011. 283230

12. **Mohammed Alsawafta**, Simona Badilescu, Muthukumaram Packirisamy, and Vo-Van Truong, Kinetics at the nanoscale: formation and aqueous oxidation of copper nanoparticles. Reac Kinet Mech Cat.2011, 104,437-450

13. Alexandre Dazzia, Rui Prazeresa, François Glotina, Jean-Michel Ortega, **Mohammed Alsawafta**, and Maria-Angeles de Frutos. Chemical mapping of the distribution of viruses into infected bacteria with a photothermal method. Ultramicroscopy.2008, 108, 635-641

❖ Conference papers

1. Afaf Almoabadi, **Mohammed Alsawafta**, Simona Badilescu, Victor Stancovski, Tanu Sharma, Ralf Brüning and Vo-Van Truong, Electrochromic and electrical properties of layered and tubular vanadium pentoxide thin films. Photonics North 2015, doi: 10.1109/PN.2015.7292513

2. **Mohammed Alsawafta**, Mamoun Wahbeh and Vo-Van Truong, Effect of symmetry breaking and substrate on the optical properties of silver sphere-like nanoparticles in different surrounding media. Proc. SPIE 9288, Photonics North 2014, 92881A; doi:10.1117/12.2086149

3. **Mohammed Alsawafta**, Youseef Golestani, Thanavady Phonemac, Simona Badilescu, Victor Stancovski and Vo-Van Truong. Propriétés électrochromes de films d`oxyde de tungstène macroporeux dopés aux nanoparticules d`or, ACFAS, 2014

4. **Mohammed Alsawafta**, Simona Badilescu, Muthukumaran Pakirisamy and Vo-Van Truong, Effect of the hydrogen bubbles on the morphological features and optical properties of gold-polymer nanocomposites. Nanoquebec Conference.2012

5. **Mohammed Alsawafta**, Hamid SadAbadi, Simona Badilescu, Muthukumaran Pakirisamy, and Vo-Van Truong, Synthesis of stable copper nanoparticle in aqueous solution in a microfluidic reactor. Proc. ICNFA, 2011,63

6. **Mohammed Alsawafta**, Mamoun Wahbeh, Sushil .K. Misra, and Vo-Van Truong, Effect of target size on the optical response of ultrafine metallic spherical particles arranged in a two-dimensional array. Proc. SPIE 8007, 80071H (2011), doi:10.1117/12.905099

7. Mamoun Wahbeh, **Mohammed Alsawafta**, Sushil .K. Misra, and Vo-Van Truong, Optical properties of two-dimensional and three-dimensional arrays of noble metal nanoparticles by the discrete dipole approximation method. Proc. SPIE 8007, 80071I (2011), doi:10.1117/12.905102