Prof. Mostafa A. El-Sayed’s Publications: (updated 1/17/2020)

Total publications: 772, total citations: 120351, h-index: 126

Publications from 1 to 12 are on research carried out as a graduate student, and postdoc and publications from 13 to 332 are on research carried out at University of California-Los Angeles (UCLA) in the field of chemical physics, spectroscopy, and electronic energy relaxation in molecules and matter in different phases while publications from 333 to present are on research carried out at the Laser Dynamics Laboratory (Georgia Tech, http://ldl.gatech.edu) started in 1994 and mostly in the field of nanoscience and nanotechnology. For more information, please visit Prof. El-Sayed’s google scholar web page.

List of Publications before joining University of California-Los Angeles:


List of Publications at University of California-Los Angeles (13-332):


List of Publications at Laser Dynamics Laboratory (LDL) at Georgia Tech:


500. Link, S., El-Sayed, M.A., Mohamed, M. B., “Simulation of the optical absorption spectra of
gold nanorods as a function of their aspect ratio and the effect of the medium dielectric constant

501. Huang, Wenyu; Qian, Wei; El-Sayed, Mostafa A., “The optically detected coherent lattice
oscillations in silver and gold monolayer periodic nanoprisn arrays: The effect of interparticle

502. Huang, Wenyu; Qian, Wei; El-Sayed, Mostafa A., “Photothermal reshaping of prismatic Au
nanoparticles in periodic monolayer arrays by femtosecond laser pulses,” Journal of Applied
Physics, 98 (11), 114301/1-114301/8, (2005).

503. Narayanan, R; El-Sayed, Mostafa A., “Raman studies on the interaction of the reactants with
the platinum nanoparticle surface during the nanocatalyzed electron transfer reaction”, Journal of

504. Narayanan R; El-Sayed M. A., “Effect of colloidal catalysis on the nanoparticle size
distribution: Dendrimer-Pd vs PVP-Pd nanoparticles catalyzing the Suzuki coupling reaction,” J.

505. Kyeong-Seok Lee and Mostafa A. El-Sayed, “Dependence of the enhanced optical scattering
efficiency relative to that of absorption for gold metal nanorods on aspect ratio, size, end-cap
shape, and medium refractive index”, Journal of Physical Chemistry B, 109 (43), 20331-20338,
(2005).

506. Wenyu Huang, Wei Qian, Mostafa A. El-Sayed, “Optically detected coherent picosecond
lattice oscillations in two dimensional arrays of gold nanocrystals of different sizes and shapes


508. Prashant K.Jain; Wei Qian, Mostafa A. El-Sayed, “Ultrafast Electron Relaxation Dynamics in

509. Darugar, Qusai; Qian, Wei; El-Sayed, Mostafa A.; Pileni, Marie-Paule. “Size-Dependent
Ultrafast Electronic Energy Relaxation and Enhanced Fluorescence of Copper Nanoparticles,”

510. Susie Eustis and Mostafa. A. El-Sayed "Why gold nanoparticles are more precious than
pretty gold: Noble metal surface plasmon resonance and its enhancement of the radiative and
nonradiative properties of nanocrystals of different shapes," Chemical Society Reviews, 35 (3),

511. Huang, X., El-Sayed, I. H., Qian, W. and El-Sayed, M. A. “Cancer Cell Imaging and
Photothermal Therapy in the Near-Infrared Region by Using Gold Nanorods,” Journal of the

***(MOST CITED 2006 JACS ARTICLE!!! - as of Mar 31, 2008)***

512. Prashant K. Jain, Wei Qian and Mostafa A. El-Sayed, M. A. “Ultrafast Cooling of
Photoexcited Electrons in Gold Nanoparticle-Thiolated DNA Conjugates Involves the Dissociation

***#1 most cited JPCB article of 2006 to date (Oct 27, 2009)***


***#2 most cited Photochemistry and Photobiology article of 2006 to date (Oct 27, 2009)***


***#12 most cited JPCB article of 2006 to date (Oct 27, 2009)***


***#5 most cited 2006 JPCB article - as of Mar 31, 2008***


***#1 most cited Nano Today article to date (Oct 27, 2009)***


***#1 most cited Plasmonics article to date (Oct 27, 2009)***


****#1 most cited Nanomedicine article to date (Oct 27, 2009)***


****(18th most accessed J. Phys. Chem. C article (Oct-Dec 2007)***


*** #1 most cited Lasers in Medical Science article of 2008 to date (Oct 27, 2009) ***


*** Frontier Article and Journal Cover *** (2nd most downloaded paper of the journal as listed in June 2010)


640. Szymanski, P.; Mahmoud, M. A.; El-Sayed, M. A. The Last Step in Converting the Surface Plasmonic Energy into Heat by Nanocages and Nanocubes on Substrates. Small 2013, 9 (23), 3934-3938.


729. N Hooshmand, SR Panikkanvalappil, MA El-Sayed, Effects of the substrate refractive index, the exciting light propagation direction, and the relative cube orientation on the plasmonic coupling

730. D Chen, X Xiong, B Zhao, MA Mahmoud, MA El-Sayed, M Liu, Probing structural evolution and charge storage mechanism of NiO2Hx electrode materials using in operando resonance Raman spectroscopy, Advanced Science, 2016, 3 (6) 1500433.


739. M He, B Li, X Cui, B Jiang, Y He, Y Chen, D O’Neil, P Szymanski, MA El-Sayed, J Huang, Z Lin, Meniscus-assisted solution printing of large-grained perovskite films for high-efficiency solar cells, Nature Communications, 2017, 8, 16045.


