Prof. Mostafa A. El-Sayed’s Publications: (updated 3/21/2020)

Total publications: 775, total citations: >122130, h-index: 127

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 at Los Angeles (1956-1961)


List of Publications after joining the faculty of School of Chemistry and Biochemistry at University of California at Los Angeles (1961-1994)


296. L.L. Sweetman and M.A. El-Sayed, “The Binding Site of the Strongly bound Eu3+ in Eu3+-


298. Shuguang Wu and Mostafa A. El-Sayed, “CD spectrum of Bacteriorhodopsin; Best evidence

Gobind Khorana, “Effects of individual genetic substitutions of arginine residues on the
deprotonation and reprotonation kinetics of the Schiff base during the bacteriorhodopsin

300. Shuguang Wu, Du-Jeon Jang, M. A. El-Sayed, Thomas Marti, Tatsushi Mogi and H. Gobind
Khorana, “The use of tryptophan mutants in identifying the 296 nm transient absorbing species


of the axial and equatorial conformers of iodocyclohexane,” Chem. Phys. Lett., Vol. 183, No. 3,


Possible Structural Formulas, and Unimolecular and Collision-Induced Dissociation of Negatively

Deprotonation Step L550 •Æ M412 in the Bacteriorhodopsin Photocycle,” J. Phys. Chem. 95,

in a transition state; Using the molecular rotation as a clock and translational energy release as
an energy monitor: The photodissociation of iodo benzene,” J. Chem. Phys., 96(1), 856-858,

309. N. Zhang, L. L. Sweetman, E. S. Awad, and M. A. El-Sayed, “Nature of the individual Ca2+

310. Shuguang Wu, Yuejin Chang, M. A. El-Sayed, Thomas Marti, Tatsushu Mogi and H. Gobind
Khorana, “Effects of tryptophan mutation on the deprotonation and reprotonation kinetics of the


484. Susie Eustis; Galina Krylova; Anna Eremenko; Natalie Smirnova; Alexander W. Schill; Mostafa El-Sayed, “Growth and Fragmentation of Silver Nanoparticles in their Synthesis with a fs


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


***#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 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.


647. Nashed, R.; Alamgir, F. M.; Seung-Soon, J.; Ismail, Y.; El-Sayed, M. A.; Allam, N. In Towards a perfect system for solar hydrogen production: an example of synergy on the atomic scale, SPIE


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.


