

## Prof. Mostafa A. El-Sayed's Publications: (updated 12/27/17)

**Total publications: 750, total citations: 98065, H-index: 114**

Publications from 1 to 332 are on research carried out at 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 LDL (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 at UCLA (1-332):

1. M.A.El-Sayed and R. K. Sheline, "The Infrared Spectrum and Structure of Hexacyanonickelate(I) Ion,  $[\text{Ni}(\text{CN})_6]^{-4}$ ," J. Amer. Chem. Soc., 78 (1956).
2. M.A.El-Sayed and R. Wolfgang, "Chemical Reaction of Recoil Tritium with Gaseous Alkanes," J. Amer. Chem. Soc. 79, 3286 (1957).
3. M.A.El-Sayed, Peter Estrup, and R. Wolfgang, "Mechanism of the Reaction of Recoil Hydrogen in the Gaseous Phase," J. Phys. Chem., 62, 1356 (1958).
4. M.A.El-Sayed, "A Nuclear Method for Determining Very Low Vapor Pressures," Nucl. Instru., 3, 359 (1958).
5. M.A.El-Sayed and R. K. Sheline, "The Infrared Spectrum and Structure of the  $[\text{Ni}(\text{CN})_4]^{-4}$  Ion," J. Amer. Chem. Soc., 80, 2047 (1958).
6. M.A.El-Sayed and R.K. Sheline, "The Position of the CN Stretching Frequency in Organic and Inorganic Molecules," J. Inorg. Nucl. Chem., 6, 187 (1958).
7. M.A.El-Sayed, "The Relation Between the CN Stretching Frequency and Hammett's  $\rho$ ," J. Inorg. Nucl. Chem., 10, 168 (1959).
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9. M.A.El-Sayed, M. Kasha, and Y. Tanaka, "Ionization Potentials of Benzene, Hexadeuterobenzene, and Pyridine from their Observed Rydberg Series in the 600-2000 Å," J. Chem. Phys., 34, 334 (1961).
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13. M.A.El-Sayed, "The Effect of Reducing the Symmetry on the Spectra of Benzene in the 1500-2000 Å Region: Spectra of Pyridine, Pyrimidine, and Pyrazine," J. Chem. Phys., 36, 552 (1962).
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15. M.A.El-Sayed, "Perturbational Enhancement of the Coupling Between the Lowest Two Electronic p,p\* States in Naphthalene," *J. Chem. Phys.*, 36, 1943 (1962).
16. M.A.El-Sayed and H. D. Kaesz, "Assignment of the CO Stretching Absorptions in C<sub>4v</sub> Metal Pentacarbonyl Derivatives," *J. Mol. Spect.*, 9, 310 (1962).
17. M.A.El-Sayed, M. T. Wauk, and G. W. Robinson, "Retardation of Singlet and Triplet Excitation Migration in Organic Crystals by Isotopic Dilution," *Mol. Phys.*, 5, 205 (1962).
18. W.Rhodes and M. A. El-Sayed, "Observed Electronic Transitions in Hexahelicene," *J. Mol. Spect.*, 9, 42 (1962).
19. M.A.El-Sayed, "Intramolecular Resonance Interaction Between Fundamental Vibrations of Polyatomic Molecules," *J. Chem. Phys.*, 37, 680 (1962).
20. G.Dodson, M. A. El-Sayed, I. Stolz, and R. K. Sheline, "Photochemical Formation of Some Metal Hexacarbonylacetonitrile Derivatives," *Inorg. Chem.*, 1, 526 (1962).
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26. M.A.El-Sayed, "Comments on Contaminating the Ground State with Triplet Character," *J. Chem. Phys.*, 38, 3032 (1963).
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