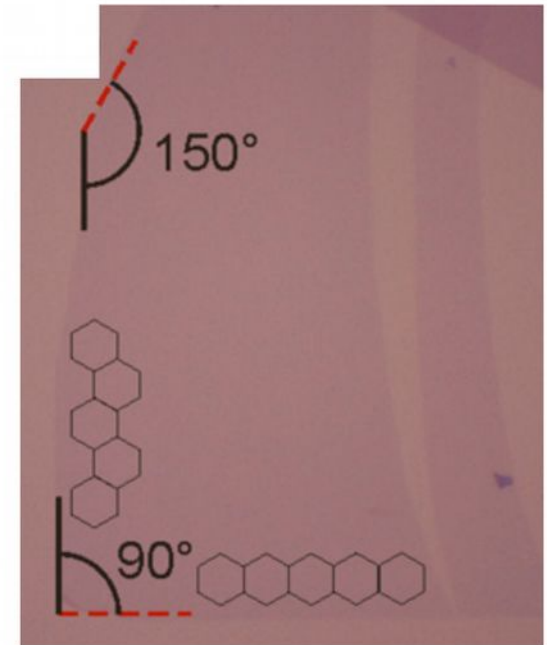
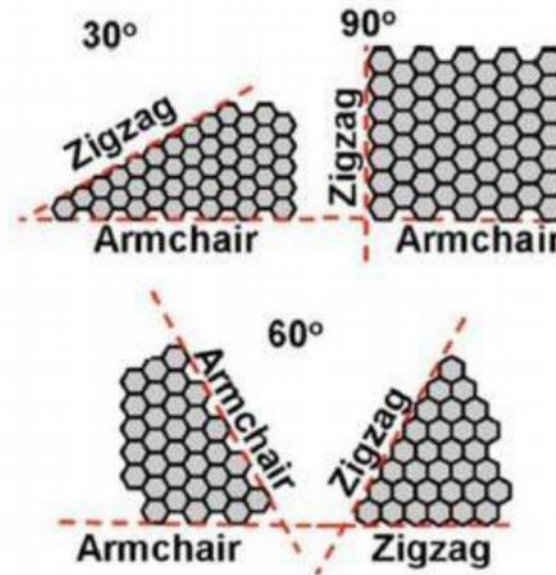
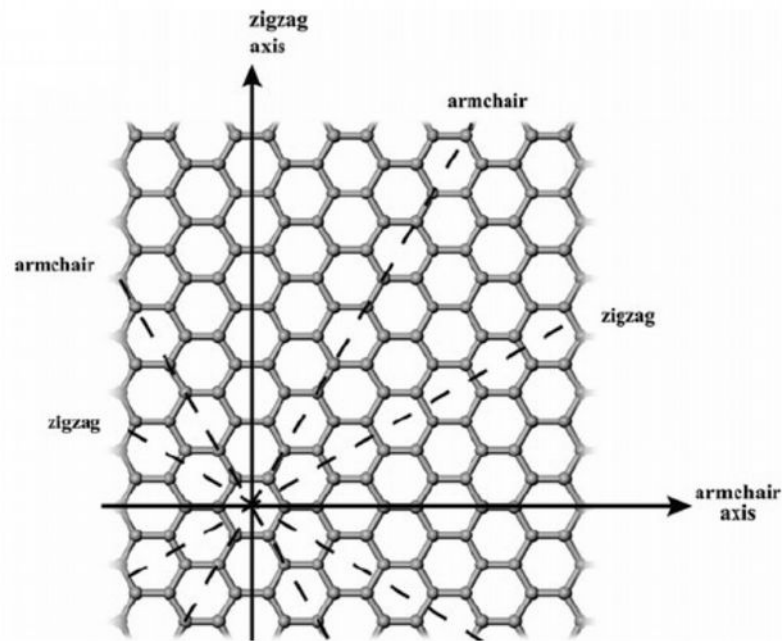


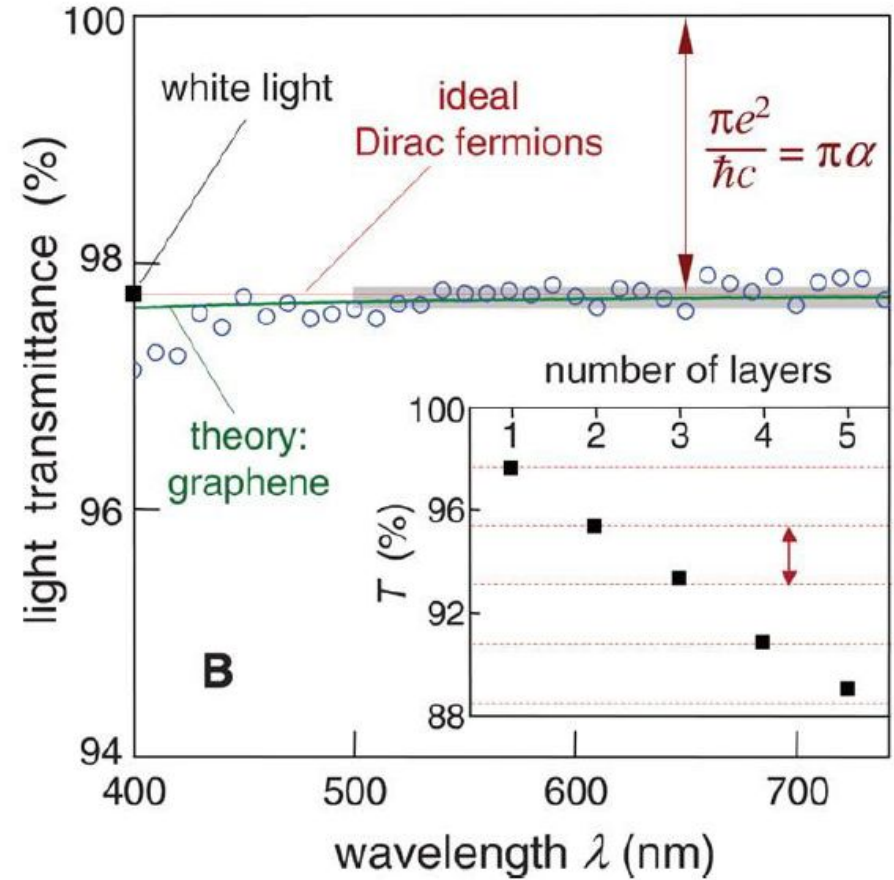
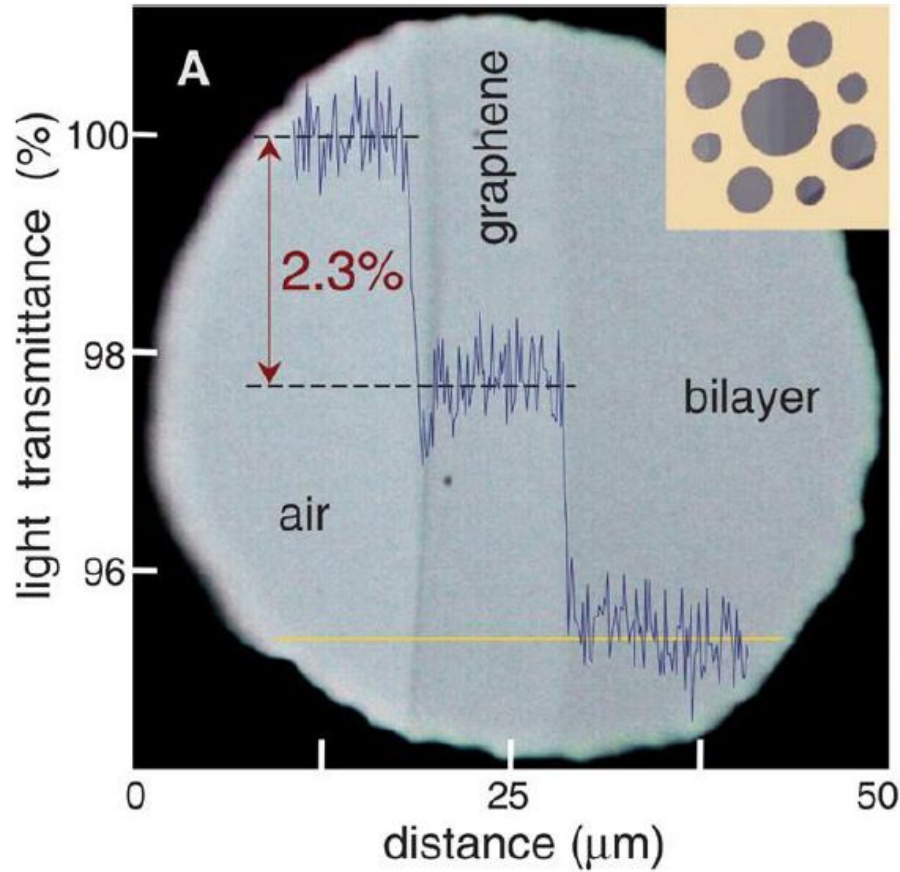
Φ – 575 Διάλεξη 03

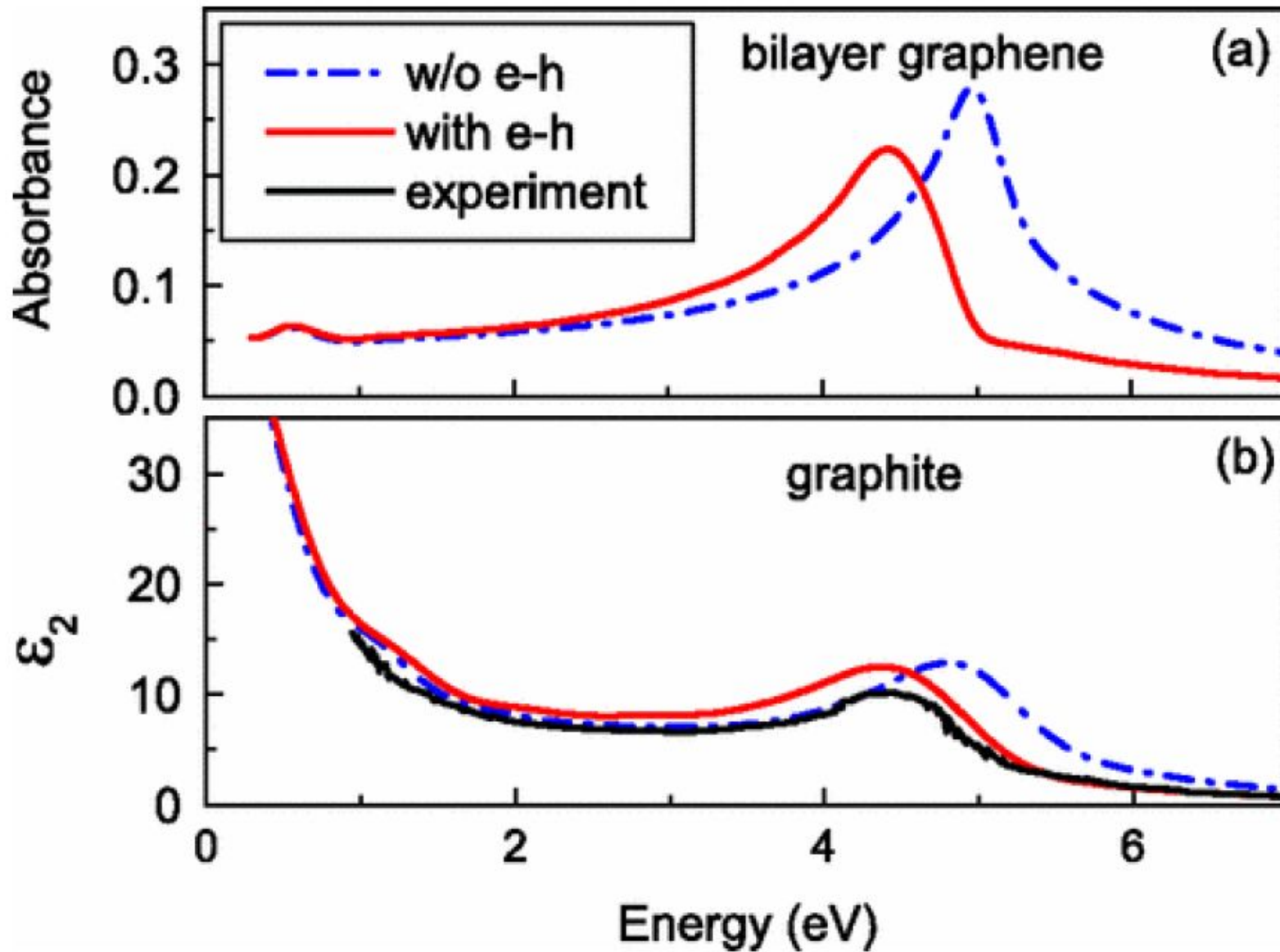
Φυσική διατάξεων δισδιάστατων ημιαγωγών

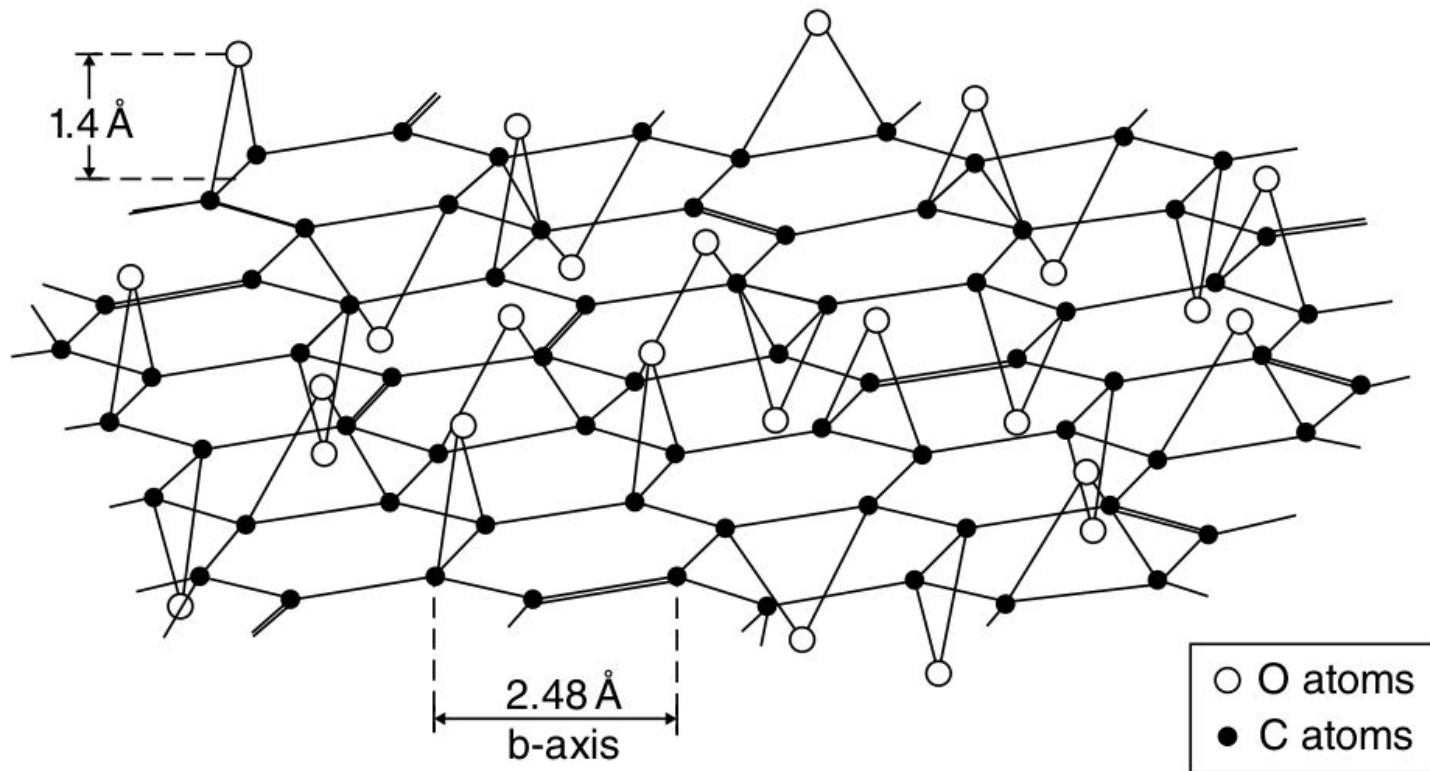
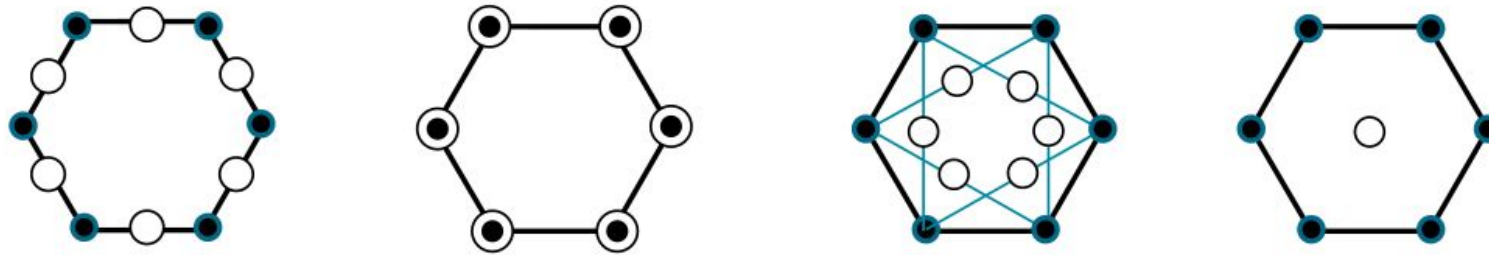
Γιώργος Δεληγεώργης (deligeo@physics.uoc.gr)

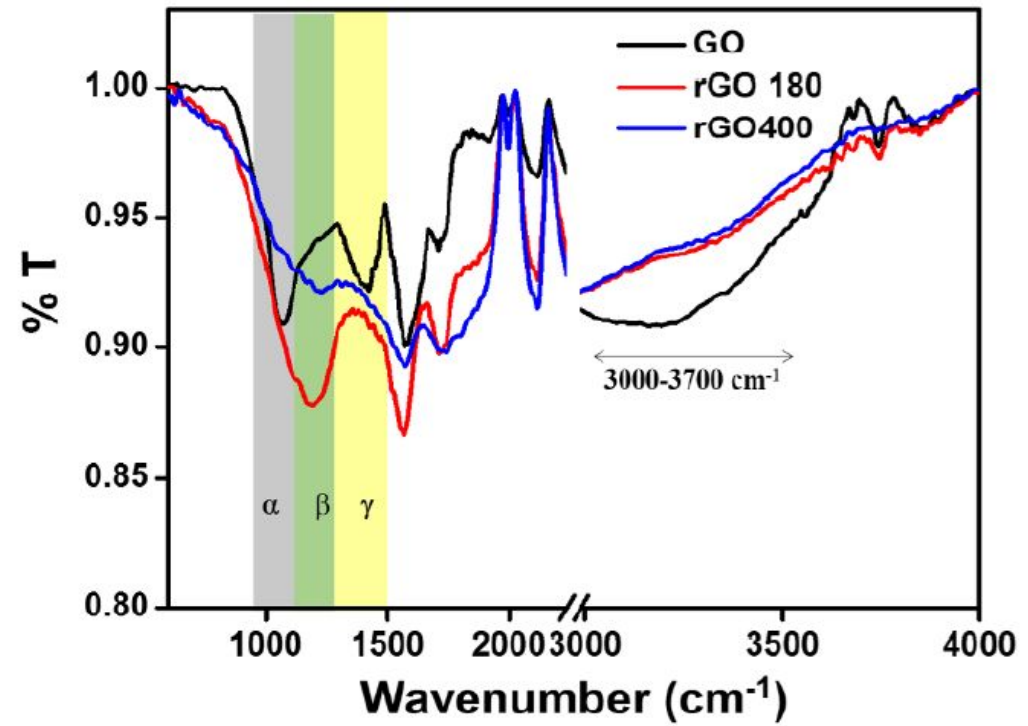
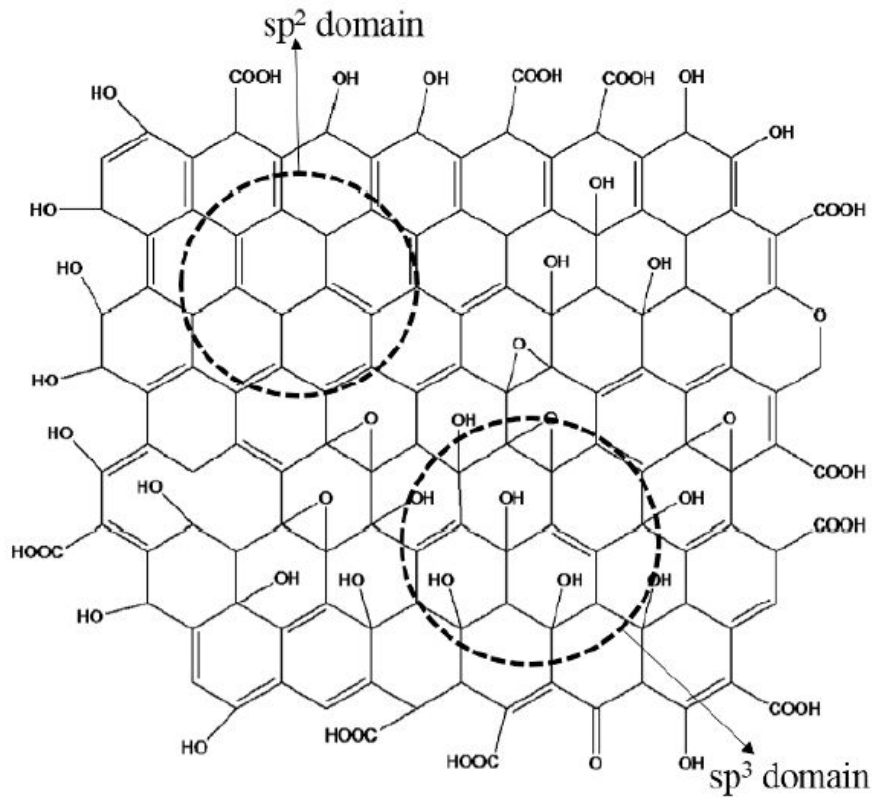


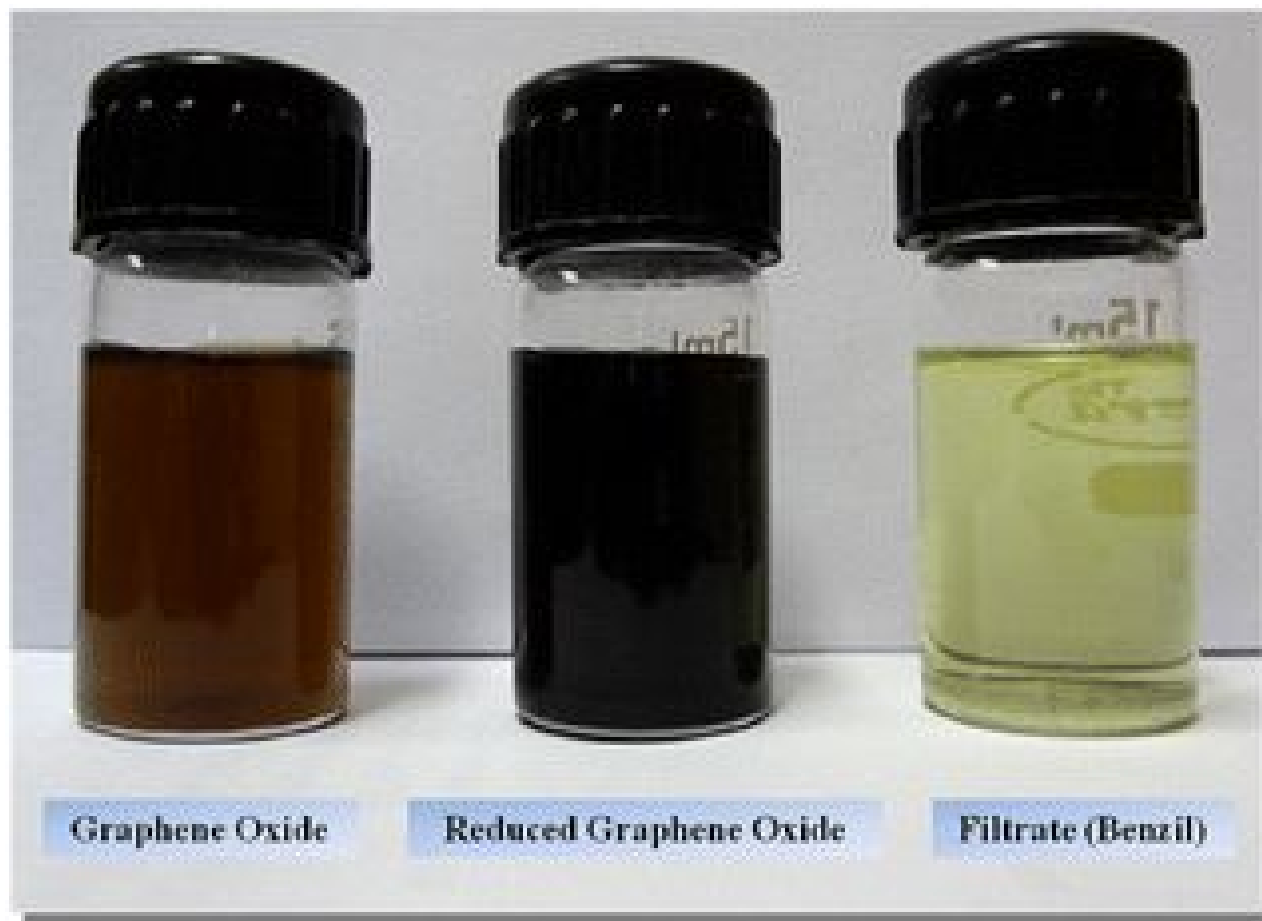












- J. C. Meyer, A. K. Geim, M. I. Katsnelson, K. S. Novoselov, T. J. Booth, and S. Roth, “The structure of suspended graphene sheets,” *Nature*, vol. 446, no. 7131, pp. 60–63, Mar. 2007.
- E. H. Hwang, S. Adam, and S. Das Sarma, “Carrier Transport in Two-Dimensional Graphene Layers,” *Phys. Rev. Lett.*, vol. 98, no. 18, p. 186806, May 2007.
- Nair R. R., Blake P., Grigorenko A. N., Novoselov K. S., Booth T. J., Stauber T., Peres N. M. R., and Geim A. K. Fine structure constant defines visual transparency of graphene. *Science* 320 1308. (2008).
- T. Stauber, N. M. R. Peres, and A. K. Geim. Optical conductivity of graphene in the visible region of the spectrum. *Physics Review B*, vol 78, P8 (2008).
- G. L. Klimchitskaya, and V. M. Mostepanenko. Conductivity of pure graphene: Theoretical approach using the polarization tensor. *Physics Review B* 93,245419 (2016).
- M K Kavitha and Manu Jaiswal, “Graphene: A review of optical properties and photonic applications” *Asian Journal of Physics Vol. 25, No 7 (2016)* 809-831 Available on: www.asianjournalofphysics.in
- B. Krauss, P. Nemes-Incze, V. Skakalova, L. P. Biro, K. von Klitzing, and J. H. Smet, “Raman Scattering at Pure Graphene Zigzag Edges,” *Nano Letters*, vol. 0, no. 0, 0.
- A. V. Naumov, “Optical Properties of Graphene Oxide,” in *Graphene Oxide*, John Wiley & Sons, Ltd, 2016, pp. 147–174.
- M. Freitag, T. Low, F. Xia, and P. Avouris, “Photoconductivity of biased graphene,” *Nature Photonics*, vol. 7, no. 1, pp. 53–59, 2013.
- G. Yang, Y. Zhang, and X. Yan, “Electronic structure and optical properties of Graphene Monoxide,” *arXiv:1209.0555*, Sep. 2012.
- K. F. Mak, L. Ju, F. Wang, and T. F. Heinz, “Optical spectroscopy of graphene: From the far infrared to the ultraviolet,” *Solid State Communications*, vol. 152, no. 15, pp. 1341–1349, Aug. 2012.
- K. Kim, S.-H. Cho, and C.-W. Lee, “Nonlinear optics: Graphene-silicon fusion,” *Nature Photonics*, vol. 6, no. 8, pp. 502–503, 2012.