

## 10.5. Literatura

1. Dreaden, E.C., Alkilany, A.M., Huang, X., Murphy, C.J., El-Sayed, M.A. The golden age: Gold nanoparticles for biomedicine (2012) *Chemical Society Reviews*, 41 (7), pp. 2740–2779.
2. Huang, X., El-Sayed, I.H., Qian, W., El-Sayed, M.A. Cancer cell imaging and photothermal therapy in the near-infrared region by using gold nanorods (2006) *Journal of the American Chemical Society*, 128 (6), pp. 2115–2120.
3. Schmidt, G.: *Nanoparticles From Theory to Application*, 2. vyd. WILEY-VCH, Weinheim 2010.
4. Mao, X., Ma, Y., Zhang, A., Zhang, L., Zeng, L., Liu, G. Disposable nucleic acid biosensors based on gold nanoparticle probes and lateral flow strip (2009) *Analytical Chemistry*, 81 (4), pp. 1660–1668.
5. Li, J.F., Huang, Y.F., Ding, Y., Yang, Z.L., Li, S.B., Zhou, X.S., Fan, F.R., Zhang, W., Zhou, Z.Y., Wu, D.Y., Ren, B., Wang, Z.L., Tian, Z.Q. Shell-isolated nanoparticle-enhanced Raman spectroscopy (2010) *Nature*, 464 (7287), pp. 392–395.
6. Hlaváček, A., Skládal, P. The application of quantum dots in bioanalytical chemistry [Kvantové tečky: Příprava, konjugace a využití v bioanalytické chemii a biologii] (2011) *Chemicke Listy*, 105 (8), pp. 611–615.
7. Lowe J. P., Peterson K.: *Quantum Chemistry*, 3. vyd. Elsevier, Amsterdam 2006.
8. Giepmans, B.N.G., Adams, S.R., Ellisman, M.H., Tsien, R.Y. The fluorescent toolbox for assessing protein location and function (2006) *Science*, 312 (5771), pp. 217–224.
9. Reiss, P., Protičre, M., Li, L. Core/shell semiconductor nanocrystals (2009) *Small*, 5 (2), pp. 154–168.

10. Resch-Genger, U., Grabolle, M., Cavaliere-Jaricot, S., Nitschke, R., Nann, T. Quantum dots versus organic dyes as fluorescent labels (2008) *Nature Methods*, 5 (9), pp. 763–775.
11. Jaiswal, J.K., Mattossi, H., Mauro, J.M., Simon, S.M. Long-term multiple color imaging of live cells using quantum dot bioconjugates (2003) *Nature Biotechnology*, 21 (1), pp. 47–51.
12. Jaiswal, J.K., Simon, S.M. Potentials and pitfalls of fluorescent quantum dots for biological imaging (2004) *Trends in Cell Biology*, 14 (9), pp. 497–504.
13. Park, Y.I., Lee, K.T., Suh, Y.D., Hyeon, T. Upconverting nanoparticles: A versatile platform for wide-field two-photon microscopy and multi-modal *in vivo* imaging (2015) *Chemical Society Reviews*, 44 (6), pp. 1302–1317.
14. Zhou, J., Liu, Q., Feng, W., Sun, Y., Li, F. Upconversion luminescent materials: Advances and applications (2015) *Chemical Reviews*, 115 (1), pp. 395–465.
15. Sedlmeier, A., Gorris, H.H. Surface modification and characterization of photon-upconverting nanoparticles for bioanalytical applications (2015) *Chemical Society Reviews*, 44 (6), pp. 1526–1560.
16. Cohen, B.E. Biological imaging: Beyond fluorescence (2010) *Nature*, 467 (7314), pp. 407–408.
17. Hlaváček, A. Nanočástice vykazující fotonovou up-konverzi: Nový typ luminiscenční značky pro zobrazování jednotlivých biomolekul? (2015) *Bioprospect*, 25 (2), pp. 38–41.
18. Zhan, Q., He, S., Qian, J., Cheng, H., Cai, F. Optimization of optical excitation of upconversion nanoparticles for rapid microscopy and deeper tissue imaging with higher quantum yield (2013) *Theranostics*, 3 (5), pp. 306–316.