

PAPERS

1. Aptamer/magnetic nanoparticles decorated with fluorescent gold nanoclusters for selective detection and collection of human promyelocytic leukemia (HL-60) cells from a mixture, *Nanotechnology*, Vol. 31, pp. 025605 (1–9), **2019**.
2. Selective chemotherapy and imaging of colorectal and breast cancer cells by a modified MUC-1 aptamer conjugated to the poly(ethylene glycol)-dimethacrylate coated Fe₃O₄-AuNCs nanocomposite, *New Journal of Chemistry*, Vol. 43, pp. 238–248, **2019**.
3. Combined experimental and computational study of the *in situ* adsorption of piroxicam anions on the laser-generated gold nanoparticles, *The Journal of Physical Chemistry C*, Vol. 122, pp. 8680–8692, **2018**.
4. *In situ* generation of the gold nanoparticles-bovine serum albumin (AuNPs-BSA) bioconjugated system using pulsed-laser ablation (PLA), *Materials Chemistry and Physics*, Vol. 177, pp. 360–370, **2016**.

NATIONAL PATENTS

1. Design of a bio-compatible zeolite-based adsorbent modified with eggshell nanoparticles to remove nickel, magnesium, and calcium from aqueous solutions, **2020**.
2. Increasing the efficiency of green chromium oxide production from chromite ore: A new method, **2019**.
3. An aptameric superparamagnetic-fluorescent nanocomposite for selective imaging and therapy of cancer cells, **2018**.