

Contents

Theme issue: Multifunctional nanostructures for diagnosis and therapy of diseases

	Article ID	Article ID
PREFACE		
Preface to 'Multifunctional nanostructures for diagnosis and therapy of diseases' NTK Thanh	20160077	Impact of biopolymer matrices on relaxometric properties of contrast agents AM Ponsiglione, M Russo, PA Netti and E Torino 20160061
ARTICLES		
Quantum dots–DNA bioconjugates: synthesis to applications A Banerjee, T Pons, N Lequeux and B Dubertret	20160064	Surface modification and cellular uptake evaluation of Au-coated Ni ₈₀ Fe ₂₀ nanodiscs for biomedical applications G Barrera, L Serpe, F Celegato, M Coïsson, K Martina, R Canaparo and P Tiberto 20160052
Polyelectrolyte coating on superparamagnetic iron oxide nanoparticles as interface between magnetic core and biorelevant media E Tombác, K Farkas, I Földesi, M Szekeres, E Illés, IY Tóth, D Nesztor and T Szabó	20160068	Antibody–drug conjugates and other nanomedicines: the frontier of gynaecological cancer treatment D Howard, J Garcia-Parra, GD Healey, C Amakiri, L Margarit, LW Francis, D Gonzalez and RS Conlan 20160054
Assessing the hyperthermic properties of magnetic heterostructures: the case of gold–iron oxide composites E Fantechi, PM Castillo, E Conca, F Cugia, C Sangregorio and MF Casula	20160058	Diagnosing clean margins through Raman spectroscopy in human and animal mammary tumour surgery: a short review IA Birtoiu, C Rizea, D Togoe, RM Munteanu, C Micsa, MI Rusu, M Tautan, L Braic, LO Scoicaru, A Parau, ND Becherescu-Barbu, MV Udrea, A Tonetto, R Notonier and CEA Grigorescu 20160067
Recent advances in the preparation and application of multifunctional iron oxide and liposome-based nanosystems for multimodal diagnosis and therapy M Marciello, J Pellico, I Fernandez-Barahona, F Herranz, J Ruiz-Cabello and M Filice	20160055	Organosilane-functionalization of nanostructured indium tin oxide films R Pruna, F Palacio, M Martínez, O Blázquez, S Hernández, B Garrido and M López 20160056
Working principle and application of magnetic separation for biomedical diagnostic at high- and low-field gradients SS Leong, SP Yeap and JK Lim	20160048	Mesoporous silica nanoparticles equipped with surface nanovalves for pH-controlled liberation of doxorubicin NV Roik and LA Belyakova 20160041