

We continue inform about our Advanced FULLERENES Products which will be important for Scientific & Industrial Application and please see information ( incl. ARTICLES and References ) regarding EndoMetalloFullerene Gd@C82 having a great Business Potential, f.e. ARTICLES where were used Our Company FULLERENES Materials ( very important Article concerning of the Practical Application of Gd@C82 in the Neutron Capture Therapy - please see details Below ) and also the Article describing an effective Application of Gd@C82 compound in MATERIALS SCIENCE ( As a New Paramagnetic Material ) :

## BIO - MEDICINE

### Neutron Capture Therapy

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" Gd@C82 MetalloFullerene for Neutron Capture Therapy - Fullerene Solubilization by PEG-b-PAMA and resultant Efficacy in Vitro " - Y.Horiguchi et al.

( see ATTACHMENT, where successfully was used Gd@C82 from our Company "MTR Ltd." )

and please pay attention that Gd@C82 was easily dissolved in Water in the presence of PEG-b-PAMA and then this Complex by using the Neutron Irradiation of cultured Cells showed a very Effective Cytotoxicity, confirming a potentially valuable approach to Gd-based Neutron Capture Therapy

( In our ATTACHMENT you can find the Abstract and also a full Text of this important ARTICLE ).

Also, we would like to note that Gd@C82 Derivatives such as Gd@C82 (OH)<sub>n</sub> & Gd@C82 are Water Soluble

Derivatives and they can be successfully used as an effective MRI Contrast Agents & Anti - Oxidants & Cancer

Therapy Agents etc. etc.

### A New MRI ( Magnetic Resonance Imaging ) Contrast Agents

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" Adaption of the structure of Carbon NanoHybrids toward High-Relaxivity for a New MRI contrast Agent "

J.Li et al. " RSC Advances ", 6, 58028-33, 2016

" A Highly Soluble GadoFullerene salt and its Magnetic Properties " - Y.Feng et al. "  
Dalton Transactions ", 2015

{ Gd@C82 - Gadolinium ( Gd ) EndoHedral MetalloFullerenes:  
GadoFullerenes as an Effective Magnetic Materials } - please see ATTACHMENT with  
important Resume that prepared paramagnetic Fibers and Films of the Gd@C82-  
Complexes can be successfully used as a New Magnetic Materials

Cancer Therapy Agents  
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" Biological Characterization of [ Gd@C82(OH)22 ]n NanoParticles as Fullerene  
Derivatives for Cancer Therapy ", Meng et al., " Integr.Biol ( Camb ) ", 2013, 5(1), 43-47

High - Efficient ANTI - OXIDANTS  
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" Gd@C82/(Ethylenediamine )8 NanoParticle: A New High-Efficient Water Soluble ROS  
Scavenger " Li et al., " ACS Appl.Mater.Interfaces ", 8(39), 25770-76, 2016

ORGANIC PHOTO-VOLTAICS  
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" A Novel Organic Electrical Memory Device based on the MetalloFullerene-grafted  
Polymer Gd@C82 - PVK"

Yue et al. " Organic Electronics, 15(12), 2014, 3482-86

For each Order we attach the SET of precision Analytical Data, including Mass  
Spectrometry & UV-VIS-NIR  
Spectroscopy Analysis.