

PERSONAL INFORMATION

Konstantinos Brintakis

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 Skype mprintakis

Sex Male | Date of birth 16/04/1979 | Nationality Greek

POSITION

Postdoctoral Researcher at the Ultrafast Laser Micro and Nano Processing Laboratory of IESL-FORTH

WORK EXPERIENCE

12/2018–Present

Postdoctoral Researcher

Ultrafast Laser Micro and Nano Processing Laboratory, Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Heraklion (Greece)

Working on perovskite nanoparticles for energy and sensing application (synthesis and characterization).

02/2011–09/2017

Physicist researcher, member of scientific research lab as PhD candidate

Institute of Electronic Structure & Laser (IESL) at Foundation for Research & Technology - Hellas (FORTH), Heraklion (Greece)

Member of the scientific research group of "Functional Nanocrystals and Quantum Magnetism Laboratory" at IESL-FORTH.

The main activities were the research and development of new nanotechnological materials (nanoparticles) and the characterization of their physicochemical properties.

The goal was the utilization of nanoparticles in high value-added applications like biomedical/biological and energy applications.

03/2008–10/2010

Member of scientific research lab as trainee

Institute of Electronic Structure & Laser, Foundation for Research & Technology - Hellas, Heraklion (Greece)

Member of the scientific research group of "Functional Nanocrystals and Quantum Magnetism Laboratory" at IESL-FORTH.

Production of iron oxide nanoparticles with high temperature colloidal chemistry and characterization of their physicochemical properties.

02/2009–11/2009

Assistant of aide-de-camp (administration supporting) and photographer

133 Combat Group of Hellenic Air Force, Kastelli Pediados, Crete (Greece)

Assistant of aide-de-camp (administration supporting) and photographer at 133 Combat Group of Hellenic Air Force during the command of Colonel (Pilot) Kiriakos Machairidis. The above position was given during the Compulsory Military Service in Hellenic Air Force from 11/2008 -11/2009.

2005–2007

Tutoring

Thessaloniki (Greece)

Providing tutoring lessons in physics and chemistry for secondary and high-school students, in parallel with the attending of the School of Physics.

EDUCATION AND TRAINING

02/2011–09/2017 **PhD in Physics** EQF level 8

School of Physics - Aristotle University of Thessaloniki, Thessaloniki (Greece)

The PhD was carried out at the Laboratory of "Functional Nanocrystals and Quantum Magnetism" at IESL-FORTH in Heraklion. PhD was awarded by the School of Physics at Aristotle University of Thessaloniki (AUTH).

Dissertation Title: "Growth and Organization of Hybrid Nanocrystals: Structural, Electronic and Magnetic Properties"

Supervisors:

Research Director Dr. Alexandros Lappas, IESL-FORTH

Associate Professor Mavroeidis Angelakeris, School of Physics - AUTH

Grade: Excellent

02/07/2013–06/07/2013 **Training in Powder & Electron Crystallography**

University of Patras, Greece; N.C.S.R. "DEMOKRITOS", Athens, Greece; Institute of Crystallography, Bari, Italy; NanoMEGAS, Brussels, Belgium; Excelsus Structural Solutions S.P.R.L, Brussels, Belgium, Patras (Greece)

International Workshop on Powder & Electron Crystallography

Topics covered:

- Powder Crystallography: powder diffraction (experimental methods, sample preparation, detectors, synchrotron radiation), the unit cell determination, full pattern powderdecomposition, space group determination, ab initio and non ab initio phasing techniques for powder diffraction data, computer applications. Protein Powder Diffraction: Overview, methods & applications.
- Electron Crystallography: The physical bases of the electron diffraction and their special features with respect to X-ray and neutron diffraction. The experimental diffraction methods : elements of electron microscopy, traditional diffraction techniques and modern ones (the Precession Electron Diffraction (PED) and the Automated Diffraction Tomography (ADT) methods). Phasing via electron diffraction data: computer applications

11/2006–09/2010 **Master of Science in "Materials Physics and Technology"** EQF level 7

School of Physics, Faculty of Sciences, Aristotle University of Thessaloniki, Thessaloniki (Greece)

Grade: 8.28/10

09/1998–09/2006 **Bachelor of Science in Physics** EQF level 6

School of Physics, Faculty of Sciences, Aristotle University of Thessaloniki, Thessaloniki (Greece)

Grade: 7.04/10

1994–1997 **High School degree** EQF level 4

4th General High School, Heraklion (Greece)

Grade: 17.7/20

PERSONAL SKILLS

Mother tongue(s) Greek

Foreign language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English	C2	C2	C1	C1	C1
University of Cambridge - First Certificate in English (Lower)					
German	A2	A2	A1	A1	A1
Goethe Institut - Grundstufe Zertifikat					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Job-related skills

Independent user of instrumentation and devices for the Development and the Characterization of Materials:

- Use of Glove-Box for the manipulation of sensitive chemical materials in a protected sealed environment.
- Use of Schlenk technique for handling air sensitive materials and preparing of high quality in shape and size nanoparticles (metal oxides, metals, semiconductors), complex architectures with at least two different materials and clusters of nanoparticles.
- Powder X-Ray Diffraction for the identification of the structure of a material (nanoparticles).
- Conventional Transmission Electron Microscopy (CTEM) for the study of the morphological characteristics of nanoparticles (size distribution and shape). Sample preparation, observation, study, use of appropriate software for the imaging and the statistical image analysis. Capability, also for the observation of cells.
- High Resolution Transmission Electron Microscopy (HRTEM) for the structural characterization and the study of the interface between two different material domains in nanoparticles.
- Scanning Electron Microscopy with Energy Dispersive Spectroscopy capabilities.
- SQUID Magnetometry to study the magnetic properties of materials. Programming of experimental sequences and data analysis.
- UV-Vis Spectrophotometry for the optical characterization (plasmonic) of metal-based nanoparticles.
- Knowledge of using gases (Ar, N₂, H₂) as well as liquefied gases (N₂, H₂).
- Designing of instrumentation for the materialization of experiments.
- Basic knowledge of electrical characterization instrumentation.
- Use of Cryostat for electrical and magnetic measurements.
- Use of metal evaporator for metallic deposition on a surface.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Independent user

Digital skills - Self-assessment grid

Certification of Computing knowledge – School of Physics, AUTH.

- Microsoft Office 2016 (Writing documents, reports, preparing presentations, data manipulation in excel spreadsheet etc).
- Origin Pro 2016 (Processing and analyzing the experimental data).
- Adobe Photoshop CS6 (Processing photos or HRTEM & CTEM images).
- DigitalMicrograph 2.11 (Processing and analyzing HRTEM & CTEM images).
- ImageJ 1.52 (Processing and analyzing HRTEM & CTEM images).
- Olympus Viewer 3.0 (Processing photos).

Other skills

Amateur photographer: Photographing landscapes, nature, cities, people activities, etc. Maintaining a profile in a photographic website: www.500px.com/Brintakis

Driving licence B

ADDITIONAL INFORMATION

Publications

Publications:

- A. Lappas, G. Antonaropoulos, K. Brintakis, M. Vasilakaki, K. N. Trohidou, V. Iannotti, G. Ausanio, A. Kostopoulou, M. Abeykoon, I. K. Robinson, E. S. Bozin, "Vacancy-Driven Noncubic Local Structure and Magnetic Anisotropy Tailoring in $\text{Fe}_x\text{O}-\text{Fe}_{3-x}\text{O}_4$ ", *PRX*, **2019**, 9 (4), 041044
- A. Kostopoulou, K. Brintakis, NK. Nasikas, E. Stratakis, "Perovskite nanocrystals for energy conversion and storage", *Nanophotonics*, **2019**, 8 (10), 1607-1640
- K. Brintakis, E. Gagaoudakis, A. Kostopoulou,* V. Faka, K. Argyrou, V. Binas, G. Kiriakidis, E. Stratakis,* , "Ligand-free all-inorganic metal halide nanocubes for fast, ultra-sensitive and self-powered ozone sensors", *Nanoscale Adv.*, **2019**, 1, 2699-2706.
- A. Kostopoulou, K. Brintakis, E. Fragogeorgi, A. Anthousi, L. Manna, S. Begin-Colin, C. Billotey, A. Ranella, G. Loudos, I. Athanassakis, A. Lappas, "Iron Oxide Colloidal Nanoclusters as Theranostic Vehicles and Their Interactions at the Cellular Level", *Nanomaterials*, **2018**, 8 (5), 315.
- A. Kostopoulou, M. Sygletou, K. Brintakis, A. Lappas, E. Stratakis, "Low-temperature Benchtop-synthesis of All-inorganic Perovskite Nanowires", *Nanoscale*, **2017**, 9, 18202 - 18207.
- D. Sakellari, K. Brintakis, A. Kostopoulou, E. Myrovali, K. Simeonidis, A. Lappas and M. Angelakeris, "Ferrimagnetic Nanocrystal Assemblies as Versatile Magnetic Particle Hyperthermia Mediators", *Materials Science and Engineering: C*, **2016**, 58, 187-193.
- N.V. Kuchkina, D.G. Morgan, A. Kostopoulou, A. Lappas, K. Brintakis, B.S. Boris, E.Y. Yuzik-Klimov, B.D. Stein, D.I. Svergun, A. Spilotros, M.G. Sulman, L. Zh. Nikoshvili, E.M. Sulman, Z.B. Shifrina, L.M. Bronstein, "Hydrophobic Periphery Tails of Polyphenylene-pyridyl Dendrons Control Nanoparticle Formation and Catalytic Properties", *Chem. Mater.*, **2014**, 26, 5654–5663.
- A. Kostopoulou, S. K. P. Velu, K. Thangavel, F. Orsini, K. Brintakis, S. Psycharakis, A. Ranella, L. Bordonali, A. Lappas, A. Lascialfari, "Colloidal Assemblies of Oriented Maghemite Nanocrystals and their NMR Relaxometric Properties", *Dalton Trans.*, **2014**, 43, 8395.
- A. Kostopoulou, K. Brintakis, M. Vasilakaki, K. N. Trohidou, A. P. Douvalis, A. Lascialfari, L. Manna, A. Lappas, "Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite Nanoclusters", *Nanoscale*, **2014**, 6, 3764. (Editor's choice as a "Hot Article")
- A. Kostopoulou, K. Brintakis, A. Lascialfari, M. Angelakeris, M. Vasilakaki, K. Trohidou, A.P. Douvalis, S. Psycharakis, A. Ranella, L. Manna, A. Lappas, "Iron-oxide colloidal nanoclusters: From fundamental physical properties to diagnosis and therapy", (Conference Paper), *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*, **2014**, 8955, 895517.
- N. Siadou, I. Panagiotopoulos, N. Kourkoumelis, T. Bakas, K. Brintakis, and A. Lappas, "Electric and Magnetic Properties of Sputter Deposited BiFeO_3 Films", *Adv. Mater. Sci. Eng.*, vol. 2013, Article ID 857465, 6 pages, **2013**. doi:10.1155/2013/857465

Monographs:

- PhD Dissertation: "Growth and Organization of Hybrid Nanocrystals: Structural, Electronic and Magnetic Properties", IESL-FORTH, Heraklion & School of Physics - AUTH, Heraklion-Thessaloniki **2017**. Supervisors: Research Director Dr. Alexandros Lappas, IESL-FORTH Associate Professor Dr. Mavroeidis Angelakeris, School of Physics - AUTH.
- Postgraduate MSc Thesis: "Synthesis and Characterization of Magnetic Iron Oxide Nanocrystals", IESL-FORTH, Heraklion & School of Physics - AUTH, Thessaloniki, **2010**. Supervisors: Research Director Dr. Alexandros Lappas, IESL-FORTH Associate Professor Dr. Mavroeidis Angelakeris, School of Physics - AUTH.
- Undergraduate Diploma Thesis: "Transmission and Receiving Techniques of Ultrasonic Signals", School of Physics - AUTH, Thessaloniki, **2006**. Supervisor: Associate Professor Dr. Theodoros Laopoulos, School of Physics - AUTH

Conferences (Underlined as a presenter: Orals: 4, Posters: 12)

- *Applied Nanotechnology and Nanoscience International Conference, 18-20 November 2019, Paris, France*, K. Brintakis, A. Kostopoulou, A. Argyrou, E. Stratakis, "Direct growth of ligand-free all inorganic metal halides nanostructures: a versatile method for diverse applications", *Oral*
- *Applied Nanotechnology and Nanoscience International Conference, 18-20 November 2019, Paris, France*, A. Kostopoulou, K. Brintakis, E. Stratakis, "Metal Halide Perovskite Nanocrystals: Synthesis, Photo-induced Modifications and Applications", *Poster*
- *E-MRS Spring Meeting 27-31 May 2019, Nice, France*, K. Brintakis, A. Kostopoulou, E. Stratakis, "Development of a rapid, room-temperature and self-powered metal-halide gas sensor in few steps", *Oral*
- *E-MRS Spring Meeting 27-31 May 2019, Nice, France*, A. Kostopoulou, K. Brintakis, E. Serpetzoglou, E. Stratakis, "All-inorganic perovskite-based nanosystems: from material design to potential applications", *Oral*
- *iPEN 1st Intensive Course 24-25 October 2018, Weizmann, Rehovot, Israel*, "Modern Educational – Teaching Techniques, Development of Soft Skills, ICT tools in Higher Education", I. Konidakis, K. Brintakis, A. Kostopoulou, E. Stratakis, "Ultrafast Laser Micro and Nano Processing Laboratory", *Poster*
- *NanoBio Conference 24-28 September 2018, Heraklion, Greece*, K. Brintakis, M. Sygletou, A. Kostopoulou, E. Stratakis, "Different Morphologies of All-Inorganic Perovskite Nano/Microparticles: Physical Properties and Anion Exchange", *Poster*
- *European Congress and Exhibition on Advanced Materials and Processes - EUROMAT 2017, 17-22 September 2017, Thessaloniki, Greece*, A. Kostopoulou, M. Sygletou, K. Brintakis, A. Lappas, E. Stratakis, "Low-temperature Benchtop-synthesis of All-inorganic Perovskite Nanowires", *Poster*
- *European Congress and Exhibition on Advanced Materials and Processes - EUROMAT 2017, 17-22 September 2017, Thessaloniki, Greece*, G. Antonaropoulos, K. Brintakis, E.S. Bozin, M. Abeykoon, G. Ausanio, V. Iannotti, K. N. Trohidou, A. Lappas, "Deciphering the Workings of Magnetic Nanoparticles by Unraveling their Intricate Local Structure", *Oral*
- *2nd Israel – Greece joint meeting on Nanotechnology and Bionanoscience, 25-28 October 2016, Heraklion, Greece*, K. Brintakis, A. Kostopoulou, M. Vasilakaki, K. N. Trohidou, A. Ranella, I. Athanassakis, M. Angelakeris, A. Lasciafari, A. P. Douvalis, A. Lappas, "A Maghemite Nanocrystal Cluster for MRI and Hyperthermia Theranostic Medical Approach", *Poster*
- *ETPN 2016, 12-14 October 2016, Heraklion, Greece*, K. Brintakis, A. Kostopoulou, M. Vasilakaki, K. N. Trohidou, A. Ranella, I. Athanassakis, M. Angelakeris, A. Lasciafari, A. P. Douvalis, A. Lappas, "A Maghemite Nanocrystal Cluster for MRI and Hyperthermia Theranostic Medical Approach", *Poster*
- *5th International Conference on Super-conductivity and Magnetism-ICSM 2016, Fethiye, Turkey*, G. Antonaropoulos, K. Brintakis, E.S. Bozin, M. Abeykoon, G. Ausanio, V. Iannotti, A. Lappas, "Evolution of magnetic properties among FeO@Fe₃O₄ nanoparticles with different morphological characteristics", *Oral*
- *QualityNano Final Conference, 15-17 July 2015, Heraklion, Greece*, G. Antonaropoulos, K. Brintakis, E. Aza, A. F. Martinez, A. Kostopoulou, A. Lappas "Structure and function correlations in hybrid nanocrystals", *Poster*
- *QualityNano Final Conference, 15-17 July 2015, Heraklion, Greece*, K. Brintakis, E. Aza, K. Mouratis, G. Antonaropoulos, A. F. Martinez, A. Kostopoulou, A. Lappas, "Probing Hierarchical Length-Scale Interactions in Nanocrystal Architectures", *Poster*
- *International Conference on Magnetism - ICM 2015, 5 - 10 July 2015, Barcelona, Spain*, K. Brintakis, A. Kostopoulou, M. Vasilakaki, K. N. Trohidou, A. Ranella, I. Athanassakis, M. Angelakeris, A. Lasciafari, A. P. Douvalis, A. Lappas, "Maghemite Nanocrystal Clusters for MRI Diagnosis and Hyperthermia Medical Treatment", *Poster (Best poster award)*
- *International Conference on Magnetism - ICM 2015, 5 - 10 July 2015, Barcelona, Spain*, K. Brintakis, A. Kostopoulou, M. Vasilakaki, L. Manna, A. P. Douvalis, K. N. Trohidou, A. Lappas, "On the Interplay of Dipolar Interactions and Surface Spin Disorder in Colloidal Maghemite Nanocrystal Clusters", *Poster*
- *11th International Workshop on Magnetism and Superconductivity at the nanoscale, 29 June -3 July 2015, Coma-Ruga, Spain*, A. Kostopoulou, K. Brintakis, and A. Lappas, "Hierarchical Length-scale Interactions in Colloidal Nanocrystal Clusters", *Oral*
- *International Workshop of the ARISTEIA Project COMANA, 2-5 June 2015, Aegina, Greece*, A.

- Lappas, A. Kostopoulou, K. Brintakis, M. Vasilakaki, A. P. Douvalis, K. N. Trohidou, "Hierarchical Length-scale Interactions in Colloidal Maghemite Nanocrystal Clusters", *Oral*
- *30th Panhellenic Conference on Solid-State Physics and Materials Science, 21-24 September 2014, Heraklion, Greece*, G. Antonaropoulos, K. Brintakis, A. Kostopoulou, A. Lappas, "Shaping core-shell iron oxide nanocrystals", *Poster*
 - *30th Panhellenic Conference on Solid-State Physics and Materials Science, 21-24 September 2014, Heraklion, Greece*, K. Brintakis, A. Kostopoulou, S. Psycharakis, A. Ranella, M. Vasilakaki, K.N. Trohidou, A.P. Douvalis, S.K.P. Velu, L. Bordonali, A. Lascialfari, D. Sakellari, K. Simeonidis, M. Angelakeris, I. Athanassakis, and A. Lappas, "Maghemite nanoclusters: A promising multifunctional material for biomedicine", *Oral*
 - *10th Meeting-International Conference on the Scientific and Clinical Applications of Magnetic Carriers, Dresden, 10-14 June 2014*, K. Brintakis, A. Kostopoulou, M. Vasilakaki, A. Ranella, S. K. P. Velu, L. Bordonali, I. Athanassakis, M. Angelakeris, A. Lascialfari, A. P. Douvalis, K. N. Trohidou, A. Lappas, "Multitasking Iron Oxide Magnetic Nanoclusters for Diagnosis and Medical Treatment", *Poster (Travel grant)*
 - *SPIE Photonics West: Colloidal Nanoparticles for Biomedical Applications, San Francisco, USA, 1-4 February 2014*, A. Kostopoulou, K. Brintakis, A. Lascialfari, M. Angelakeris, M. Vasilakaki, K. Trohidou, A.P. Douvalis, S. Psycharakis, A. Ranella, L. Manna, and A. Lappas, "Iron-oxide Colloidal Nanoclusters: from Fundamental Physical Properties to Diagnosis and Therapy", *Oral*
 - *Joint European Magnetic Symposia, Rhodes, Greece, 25-30 August 2013*, K. Brintakis, A. Kostopoulou, M. Vasilakaki, K.N. Trohidou, and A. Lappas", Maghemite Nanoclusters: Static, Dynamic Magnetic Properties, and Monte Carlo Simulations", *Oral*
 - *4th International Congress Nanotechnology, Medicine & Biology (BioNanoMed), Krems, Austria, 13-15 March 2013*, A. Kostopoulou, A. Lappas, K. Brintakis, S. K. P. Velu, T. Kalaivani, F. Orsini, A. Lascialfari, A. P. Douvalis, D. Sakellari, K. Simeonidis, M. Angelakeris and L. Manna, "Colloidal Nanoclusters: from Materials Design to Theranostic Applications", *Oral*
 - *5th International Conference Micro & Nano 2012, Heraklion, 7-10 October 2012*, A. Kostopoulou, A. Lappas, K. Brintakis, A. P. Douvalis, S. K. P. Velu, K. Kalaivani, F. Orsini, A. Lascialfari, D. Sakellari, K. Simeonidis, M. Angelakeris, and L. Manna, "Hydrophilic γ -Fe₂O₃ ferrimagnetic assemblies: From synthesis to theranostic applications", *Oral*
 - *5th International Conference Micro & Nano 2012, Heraklion, 7-10 October 2012*, K. Brintakis, A. Kostopoulou, A. Douvalis, and A. Lappas, "Interparticle interactions and spin-glass behavior in colloidal maghemite nanocrystals clusters", *Poster*
 - *Joint European Magnetic Symposia 2012, 9-14 September 2012, Parma, Italy*, A. Kostopoulou, A. Lappas, K. Brintakis, A. P. Douvalis, S. K. P. Velu, T. Kalaivani, F. Orsini, A. Lascialfari, D. Sakellari, K. Simeonidis, M. Angelakeris, and L. Manna, "Ferrimagnetic Maghemite Colloidal Nanocrystal Clusters: From Material Design to Imaging and Hyperthermia Treatment", *Oral*
 - *Joint European Magnetic Symposia 2012, Parma, Italy, 9-14 September 2012*, K. Brintakis, A. Kostopoulou, A. Douvalis, and A. Lappas, "Interparticle interactions and spin-glass behavior in colloidal maghemite nanocrystals clusters", *Poster*
 - *20th International Conference of Soft Magnetic Materials, Kos, Greece, 18-22 September 2011*, D. Sakellari, E. Mirovalli, K. Simeonidis, A. Kostopoulou, K. Brintakis, A. Lappas, and M. Angelakeris, "Bottom-up approach to magnetic hyperthermia agents: From maghemite nanoparticles to large-ferrimagnetic nanoclusters", *Poster*
 - *XXVI Pan-Hellenic Conference on Solid State Physics, Ioannina, Greece, 26-29 September 2010*, K. Brintakis, A. Kostopoulou, and A. Lappas, "Synthesis and Characterisation of Iron Oxide Magnetic Nanocrystals", *Poster*
 - *XXV Pan-Hellenic Conference on Solid State Physics, Thessaloniki, Greece, 20-23 September 2009*, K. Brintakis, A. Kostopoulou, and A. Lappas, "Fe₃O₄@Au Core-Shell Nanocrystals: Magnetic and Optical Properties", *Poster*
 - *XXIV Pan-Hellenic Conference on Solid State Physics, Heraklion, Greece, 21-24 September 2008*, K. Brintakis, A. Kostopoulou, G. Konstantinidis, T. Kostopoulos, Z. Hatzopoulos, and A. Lappas, "Electrical Properties of Single Metallic Nanocrystals", *Poster*

Honours and awards

- Postdoctoral IKY Scholarship 12/2020-11/2022: "Development of All-Inorganic Perovskite Nanostructures for the Detection of X- or Gamma-Rays".
- Team member that excelled in the 10 best in the category for Applied Research in the 3rd Competition "Greece innovates!" Organized by Eurobank and SEV (**2016**) 16890-APPLIED

RESEARCH: "Magnetic nanoparticle clusters as multimodal agents for biological applications of diagnosis and therapy"

- Best poster at "20th International Conference on Magnetism, At Barcelona, 5-10 July **2015**
- Editor's choice as a "Hot Article" for the paper A. Kostopoulou, K. Brintakis, M. Vasilakaki, K.N. Trohidou, A.P. Douvalis, A. Lascialfari, L. Manna, A. Lappas "Assembly-mediated Interplay of Dipolar Interactions and Surface Spin Disorder in Colloidal Maghemite Nanoclusters", *Nanoscale*, **2014**, 6, 3764-3776
- Travel grant for the "10th Meeting-International Conference on the Scientific and Clinical Applications of Magnetic Carriers, Dresden, 10-14 June **2014**"