

## CURRICULUM VITAE

### Yiannis Deligiannakis, Ph.D.

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### Standard academic and research record

#### ACCADEMIC BACKGROUND-EDUCATION

1981-1985 B.Sc. University of Ioannina, Ioannina, Greece (Physics)  
1989-1990 Ms.Sc.: Institute of Materials Science, NCSR Demokritos Athens, Greece (*Molecular Physical Chemistry*).  
1990-1994 Ph.D. Institute of Materials Science, NCSR Demokritos Athens, Greece  
1994-1997 Post Doctoral Researcher (Individual Marie-Curie Fellowship) :Centre des Etudes Nucleaires SBE-CEA-Saclay France.  
1997-1998 Post Doctoral Researcher (Marie-Curie Fellowship EU Return Grant) : Institute of Materials Science, NCSR Demokritos Athens, Greece  
1999-2000 Senior Researcher :Universite Orsay-Saclay France.

#### ACADEMIC APPOINTMENTS

**2014-** Professor Dept. Physics Univ. Ioannina, , Greece.  
**2012-2013 Visiting Professor** Department of Mechanical and Process Engineering  
ETH Zurich, Switzerland  
**2010-2014 Professor** Dept. ENRM, Univ. Patras, Greece.  
**2006-2010 Associate Professor** Dept. ENRM, University of Ionnina.  
**2000-2006 Assistant Professor** Dept. of Environmental & Natural Resources Management [ENRM],  
University of Ionnina, Greece.

#### ACADEMIC ACTIVITY

Supervisor of **13** PhD Theses (9 accomplished, 4 in progress)  
Supervisor of **8** M.Sc. Theses (6 accomplished, 2 in progress)  
Supervisor of **86** Diploma theses (81 accomplished, 5 in progress)

#### FOREIGN STAYS-VISITS

**2012-2013-** Particle Technology Laboratory ETH Zurich Dept of Mechanical and Process Engineering  
**2010-**Institute of Physical and Theoretical Chemistry Center of Magnetic Resonance Goethe-University Frankfurt.  
**2009-** Frumkin Inst. of Physical Chemistry, Russian Academy of Sci. Moscow Russia.  
**2007-** Dept. of Chemistry Lomonosof University, Moscow Russia.  
**2003** -Section De Bioenergetique, Centre des Etudes Nucleaires, Saclay, France.  
**2002**–Dept. of Chemistry University of Wrochlaw, Poland .  
**2001**–Dept. of Physical Chemistry, Weissman Institute, Rehovot, Israel.

#### LAB OF PHYSICAL CHEMISTRY OF MATERIALS & ENVIRONMENT: RESEARCH INTERESTS AND ACTIVIY

<http://nano-fsp-epr.physics.uoi.gr/>

#### *Physics of Nanomaterials -Flame Spray Pyrolysis technology.*

Single- and Double Nozzle production of Semiconducting [BiVO<sub>4</sub>, SnO<sub>2</sub>, TiO<sub>2</sub>, ZnO, BiBeO<sub>3</sub>] or metallic [Pt, Au, Ag] nanomaterials and their heterostructures. Z-scheme photoresponsive nanodevices. Superparamagnetic nanomaterials. Plasmonic phenomena, Hydrogen Atom Transfer physics.

• **Development and Environmental Applications of NanoMaterials:** H<sub>2</sub> production from molecular-mnoparticle structures. Functionalised Carbon Nanotubes, Graphenes. Surface properties, modelling, Heavy

metal (Pd, Cd, Zn, Cu, Fe) remediation of aqueous solution. Modified clays (Laponite, Montmorillonites) modified SiO<sub>2</sub>, modified MCM-41.

- **Natural Organic Matter-Humic Substances:** Technological applications. Isolation, characterisation, physicochemical properties. NICA-Donnan modelling, heavy metal binding. Fractionation of HA.
- **Heavy Metal-Remediation of waters.** Pb, Cd, Cu, Zn, Fe adsorption of oxides, clays and soil constituents. Biogeochemical cycles of metals in the environment.
- **Development and applications of Advanced Electron Paramagnetic Resonance Spectroscopy.** Spin Physics, Spin dynamics, spin lattice phenomena, Pulsed EPR spectroscopy, ESEEM, HYSCORE, study of interfacial phenomena, radical reactions, transient intermediates in (photo)catalytic cycles. High temperature EPR spectroscopy, Parallel Mode EPR on Integer Spins.
- **Physical Chemistry of Molecular Catalysis:** Catalytic decomposition of Chlorophenols. Heme, Non-Heme catalysts. Mechanistic studies, high-valent Fe-species. *SiO<sub>2</sub>-Grafted Cu catalysts:* catalysis of phenols. Mechanistic studies, surface geometry.

### PATENT HOLDING

Patent #	Title		CODE Nr
EP.1	European Patent	<i>VISIBLE LIGHT PHOTOACTIVE NANOPARTICLES AND METHODS FOR THE PREPARATION THEREOF</i> Fujiwara, K.; <b>Deligiannakis, Y.</b> S.E. Pratsinis	EP2013083
EP.2	European Patent	<i>A LOW-COST HYBRID NANOANTIOXIDANT MATERIAL WITH LONG-LASTING ANTIRADICAL CAPACITY PRODUCED BY SiO<sub>2</sub> AND GALLIC ACID POLYPHENOL [SIGANTIOX®]</i> <b>Deligiannakis, Y.</b> ; Sotiriou, G.; S.E. Pratsinis	EP 12007181
GRP.1	Greek Patent	<i>ADSORBING MATERIAL FOR REMOVAL OF AMMONIA, PHOSPHORUS [BEPHOS®]</i> <b>Deligiannakis, Y.</b> , Zaharias, I.; Drosos, M.; Zambaras, M.	1007843
GRP.2	Greek Patent	<i>HYBRID ANTIBACTERIAL NANOMATERIAL (SIGABAC)®</i> Louloudi, M.; <b>Deligiannakis, Y.</b> ; Stathi, P.; Hamalaki, A.; Bourtzis, K.	20130100459

### MEMBERSHIP IN INTERNATIONAL SCIENTIFIC ASSOCIATIONS

- 1] [2004-today] Member of the American Chemical Society
- 2] [1994-today] Member of the International EPR [ESR] Society
- 3] [2001-today] National Coordinator of the Greek branch of the International Humic Substance Society (IHSS) (<http://www.ihss.gatech.edu>.)

### INVITED PRESENTATION IN ESTABLISHED INTERNATIONAL CONFERENCES

- 1] **Y. Deligiannakis** *Plasmonically Enhanced Hydrogen Atom Transfer by Near IR Irradiation.* (**Session lecture**) in Materials Research Society Sept 2013 Boston USA.
- 2] **Y. Deligiannakis** *Electron Spin Echo Envelope Modulation (ESEEM) Spectroscopy of Biomimetic Materials: Spin Delocalisation via H-Bonds* (**Session lecture**) in Joint EUROMAR 2010 and 17<sup>th</sup> ISMAR Conference FLORENCE July 4-9, 2010
- 3] **Y. Deligiannakis** *Ionic-H Bonds Determine the Interfacial Association of Pesticides with Soil Oxides* (**Session lecture**) in Advances of Molecular Modeling of Biogeochemical Interfaces Perspectives for soil research Jena, Germany 2009 (6-7/10/2009)
- 4] **Y. Deligiannakis** *A Water Soluble Humic Acid Like Polymer* 14<sup>th</sup>- (**Session lecture**) in 14<sup>th</sup> International Humic Substances Society (IHSS) meeting Moscow, Russia 2008 (14-19/9/2008)

### Funded Projects

- [2012-2015] THALIS “Development of Hybrid Meso and Nanoporous Materials for Environmental and Catalytic Applications” (**Coordinator**)
- [2012-2015] SYNERGASIA “Development of Pyrolytic Carbon Materials for Environmental and Catalytic Applications”
- [2011-2012] “Development of low-Tg Glasses exploiting Red Mud wastes for HeavyMetal Remediation” Grant funded by ALUMINION S.A. (**Coordinator**)
  - IKY-DAAD (Greece-Germany) 2010-2012. *STUDIES OF ENVIRONMENTAL AND TECHNOLOGICAL MATERIALS WITH ADVANCED EPR SPECTROSCOPIES* (**Coordinator**)

- **NATO (Greece-Russia) 2007-2009. NOVEL HYBRID CATALYTIC MATERIALS FOR DECOMPOSITION OF ORGANIC POLLUTANTS CBP.EAP.CLG.983239(Coordinator)**
- **PICS (Greece-France)** Programme Internationale pour la Cooperation Scientifique (2002-2006). *Advanced Non Destructive Spectroscopic Methods* (Dr. S. Basava, CNRS Direction des Affaires Internationales).
- **Bilateral Collaboration (Greece-Poland)** (2002-2003). *Physicochemical Study of Soil Organic Matter* (Prof. A. Jejerski, Dept of Chemistry Univ. of Wrochlaw).
- **E.U. COST P15** (2003-2008) «*Advanced Electron Paramagnetic Resonance in Chemistry Physics and Biology*». Management Comitee member (Coordinator) Working Group 2.
- **“PYTHAGORAS” II-EPEAEK** (2005-2007) «*Development of Methodology for Photocatalytic Degradation of Organic Pollutants Combining Spectroscopic & Analytical Techniques*». (Coordinator)
- **“PENED”** (2005-2008) «*Vitrified Clays for Long Term Heavy Metal Remediation*» (Coordinator)
- **“PYTHAGORAS” II-EPEAEK** (2004-2006) «*Novel Hybrid Catalytic Materials for Catalytic Environmental Applications*». (Coordinator)
- **EPEAEK-II** «*Research Infrastructure of the Dept. Of Environment & Natural Resources Management*” (2001-2003). (Coordinator)
- **EPEAEK-II** «*Research Infrastructure of the Post Graduate Programme Sustainable Management of Protected Areas*” (2003-2004). (Coordinator)

### Organisation of Scientific Conferences

1. Chair: 17<sup>th</sup> IHSS Conference – Sept 2014 Ioannina Greece, <http://www.ihss2014.org/>
2. [Scientific committee member] 5<sup>th</sup>-Panhelelnic Conference On Porous Materials June-2011-Crete
3. [Member of the organising committee] EUROMAR 2012-Crete
2. [Member of the organising committee] COST-P14 7th EFEP Conference Andwerp Belgium September 7-11, 2009.
3. [Organiser] Workshop of Work-Group-II COST-P14 Budapest Hungary, 25-28 Oct. 2005.
4. [Member of the organising committee] AMPERE Summer School, Applications of Magnetic Resonance in Novel Materials Nafplion (Greece) September 3-9, 2000
5. [Member of the organising committee] 5th International Symposium on Applied Bioinorganic Chemistry Corfu, Greece, April 13 17 1999.
6. [Member of the organising committee] Xth International Photosynthesis Congress, Montpellier, France, 20-25 August 1995.

### LIST OF (ISI) PUBLICATIONS h-index=28, citations >2100

<b>2015</b>	
<b>J. 132</b>	E. Seristastidou, D. Papagiannis, M.Louloudi, <b>Y.Deligiannakis*</b> <i>Resolving the Elusive Transient States Ensuing the High-Oxidation States of Mn-Catalysts</i> <b>J. AM. CHEM. SOC.</b> (2015) (submitted)
<b>J.131</b>	Y. Georgiou, E. Mouzourakis, A. B. Bourlinos, C. Daikopoulos, R. Zboril, M. A. Karakassides, A. P. Douvalis, Th. Bakas, <b>Y. Deligiannakis*</b> <i>Surface decoration of amine-rich carbon nitride with iron nanoparticles for Arsenite (As<sup>III</sup>) uptake: the evolution of the Fe-phases under ambient conditions</i> <b>J. PHYS. CHEM. C</b> , 2015 (submitted)
<b>J.130</b>	K.C. Christofridis, L.L. Bonilla, M.Louloudi, <b>Y.Deligiannakis</b> <i>Axial ligand effect on the catalytic activity of biomimetic Feporphyrin catalyst: An experimental and DFT study</i> <b>JOURNAL of CATALYSIS</b> (2015) (submitted)
<b>J.129</b>	Bletsa, E., Solakidou, M., <b>Deligiannakis, Y.*</b> <i>Electron Paramagnetic Resonance study of the Spin and Redox Evolution of a Fe-Phtalolyanine</i> <b>CHEMICAL PHYSICS LETTERS</b> (2015) (accepted)
<b>J.128</b>	Giannakas, A., M. Antonopoulou, Daikopoulos, C., <b>Deligiannakis, Y.*</b> , Konstantinou, I. <i>EPR and catalytic performance study of B-doped, B-N co-doped and B-N-F tri-doped TiO<sub>2</sub> towards simultaneous Cr(VI) reduction and benzoic acid oxidation</i> <b>APPLIED CATALYSIS B: ENVIRONMENTAL</b> (2015) (accepted)
<b>J.127</b>	Georgios A. Sotiriou, Christoph O. Blattmann and <b>Yiannis Deligiannakis *</b> <i>Nanoantioxidant-driven plasmon enhanced proton-coupled electron transfer</i> <b>NANOSCALE</b> (Advance Article) (2015) DOI: 10.1039/C5NR04942C in press
<b>J.126</b>	M.-S. Vidali, E. Bletsa, A. Kouloumpis, C. G. Skoutelis, <b>Y.Deligiannakis*</b> , D. Gournis and D. Vlastos <i>Induction of micronuclei by multi-walled carbon nanotubes interacting with humic acids in cultured hu-</i>

	<i>man lymphocytes</i> <b>ENVIRON. SCI.: NANO</b> , 2015, (Advance Article) DOI: 10.1039/C5EN00138B in press
J.125	Stathi, P., Gournis, D., <b>Deligiannakis, Y.</b> , Rudolf, P. <i>Stabilization of Phenolic Radicals on Graphene Oxide: An XPS and EPR Study</i> <b>LANGMUIR</b> 2015 31 (38), pp. 10508-10516
J.124	Georgiou, Y., Dimos, K., Beltsios, K., Karakassides, M.A., <b>Deligiannakis, Y.*</b> . <i>Hybrid [polysulfone-Zero Valent Iron] membranes: Synthesis, characterization and application for As<sup>III</sup> remediation.</i> <b>CHEMICAL ENGINEERING JOURNAL</b> 281, 2015, p. 650-660
J.123	Bletsa, E., Stathi, P., Dimos, K., Louloudi, M., <b>Deligiannakis, Y.*</b> <i>Interfacial Hydrogen Atom Transfer by nanohybrids based on Humic Acid Like Polycondensates</i> 2015 <b>JOURNAL OF COLLOID AND INTERFACE SCIENCE</b> 455, pp. 163-171
J.122	<i>Adsorption of phenol and methylene blue from aqueous solutions by pyrolytic tire char: Equilibrium and kinetic studies</i> Makrigianni, V., Giannakas, A., Deligiannakis, Y., Konstantinou, I. 2015 <b>JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING</b> 3 (1), pp. 574-582
J.121	Makrigianni, V., Giannakas, A., Daikopoulos, C., <b>Deligiannakis, Y.</b> , Konstantinou, I. <i>Preparation, characterization and photocatalytic performance of pyrolytic-tire-char/TiO<sub>2</sub> composites, toward phenol oxidation in aqueous solutions</i> 2015 <b>APPLIED CATALYSIS B: ENVIRONMENTAL</b> 174-175, pp. 244-252
J.120	Seristatidou, E., Mavrogiorgou, A., Konstantinou, I., Louloudi, M., <b>Deligiannakis, Y.</b> <i>Recycled carbon (RC) materials made functional: An efficient heterogeneous Mn-RC catalyst</i> 2015 <b>JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL</b> 403, 9464, pp. 84-92
J.119	Stathi, P., <b>Deligiannakis, Y.</b> , Avgouropoulos, G., Louloudi, M. <i>Efficient H<sub>2</sub> production from formic acid by a supported iron catalyst on silica</i> 2015 <b>APPLIED CATALYSIS A: GENERAL</b> 498, pp. 176-184
J.118	Antonopoulou, M., Skoutelis, C.G., Daikopoulos, C., <b>Deligiannakis, Y.</b> , Konstantinou, I.K. <i>Probing the photolytic-photocatalytic degradation mechanism of DEET in the presence of natural or synthetic humic macromolecules using molecular-scavenging techniques and EPR spectroscopy</i> 2015 <b>JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING</b> in press
J.117	Christoforidis, K.C., Louloudi, M., <b>Deligiannakis, Y.*</b> . <i>Effect of humic acid on chemical oxidation of organic pollutants by Fe(II) and H<sub>2</sub>O<sub>2</sub>: A dual mechanism</i> 2015 <b>JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING</b> Article in Press
J.116	Stathi, P., <b>Deligiannakis, Y.</b> , Louloudi, M. <i>Co-catalytic enhancement of H<sub>2</sub> production by SiO<sub>2</sub> nanoparticles</i> 2014 <b>CATALYSIS TODAY</b> 2015, 242 pp. 146-152

<b>2014</b>	
J.115	J. T. N. Knijnenburg, E. Seristatidou, F. M. Hilty, F. Krumeich, <b>Y. Deligiannakis *</b> <i>Proton-Promoted Iron Dissolution from Nanoparticles and the Influence by the Local Iron Environment</i> <b>J. PHYS. CHEM. C</b> , 2014, 118 (41), pp 24072–24080
J.114	<b>Y. Deligiannakis*</b> , G. A. Sotiriou, S. E. Pratsinis <i>Nanoantioxidant materials for theranostics: Near-infrared plasmon enhanced proton-coupled electron transfer</i> <b>MATERIALS RESEARCH SOC. BULLETIN</b> (2014), pp.1627-1629
J.113	Daikopoulos, C. , Georgiou, Y. , Bourlinos, A.B. , Baikousi, M. , Karakassides, M.A. , Zboril, R. , Steriotis, T.A. , <b>Deligiannakis, Y.*</b> <i>Arsenite remediation by an amine-rich graphitic carbon nitride synthesized by a novel low-temperature method</i> <b>CHEMICAL ENGINEERING JOURNAL</b> 256, 2014, Pages 347-355
J.112	Spyrou, K., Potsi, G., Diamanti, E.K., <b>Y. Deligiannakis</b> , Gournis, D., Rudolf, P. <i>Towards novel multi-functional pillared nanostructures: Effective intercalation of adamantylamine in graphene oxide and smectite clays</i> 2014 <b>ADVANCED FUNCTIONAL MATERIALS</b> 24 (37), pp. 5841-5850
J.111	Skoutelis, C.G., Antonopoulou, M., Giannakas, A.E., <b>Deligiannakis, Y.</b> , Konstantinou, I.K. <i>Document Mechanism of synergistic photocatalytic Cr(VI)-reduction and benzoic acid oxidati?n by visible light active TiO<sub>2</sub> photocatalysts</i> 2014 <b>JOURNAL OF ADVANCED OXIDATION TECHNOLOGIES</b> 17 (2), pp. 202-211
J.110	Mavrogiorgou, A., Papastergiou, M., <b>Deligiannakis, Y.</b> , Louloudi, M. <i>Activated carbon functionalized with Mn(II) Schiff base complexes as efficient alkene oxidation catalysts: Solid support matters</i> 2014 <b>JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL</b> 393, pp. 8-17
J.109	Drosos, M., Leenheer, J.A., Avgeropoulos, A., <b>Deligiannakis, Y.</b> <i>H-binding of size- and polarity-fractionated soil and lignite humic acids after removal of metal and ash components</i> 2014 <b>ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH</b> 21 (5), pp. 3963-3971
J.108	C. Daikopoulos, A. B. Bourlinos, Y. Georgiou, <b>Y. Deligiannakis</b> , R. Zborzil, M.I A. Karakassides <i>A functionalized phosphonate-rich organosilica layered hybrid (PSLH) fabricated through a mild process.</i> <b>J. HAZARDOUS MATERIALS</b> (2014) 270, pp. 118-126
J.107	K. Fujiwara, <b>Y. Deligiannakis</b> , S. E. Pratsinis <i>Visible-light photoactive TiO<sub>2</sub>/Ag/TiO<sub>x</sub> core-shell particles made by scalable spray flames</i> <b>APPLIED CATALYSIS B: ENVIRONMENTAL</b> (2014) 154-155, pp. 9-15
J.106	Zamparas, M., Drosos, M., <b>Deligiannakis, Y.</b> , Zacharias, I. <i>Eutrophication control using a novel bentonite humic-acid composite material Bephos™</i> 2014 <b>JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING</b> in press

<b>J.105</b>	G. Bilis, P. Stathi, A. Mavrogiorgou, <b>Y. Deligiannakis*</b> , M. Louloudi <i>Improved Robustness of Heterogeneous Fe-non-heme Oxidation Catalysts: a Catalytic and EPR study</i> <b>APPLIED CATALYSIS A: GENERAL</b> 470, (2014), 376-389
<b>J.104</b>	Tsoufis, T., Ampoumogli, A., Gournis, D., Georgakilas, V., Jankovic, L., Christoforidis, K.C., <b>Deligiannakis, Y.*</b> <i>Direct observation of spin-injection in tyrosinate-functionalized single-wall carbon nanotubes</i> <b>CARBON</b> 67, (2014),424-433.
<b>2013</b>	
<b>J.103</b>	Stathi, P., Mitrikas, G., Sanakis, Y., Louloudi, M., <b>Deligiannakis, Y.*</b> <i>Back-clocking of Fe<sup>2+</sup>/Fe<sup>1+</sup> spin states in a H<sub>2</sub>-producing catalyst by advanced EPR</i> <b>MOLECULAR PHYSICS</b> (2013) 111, 18-19, 1 2013, 2942-2949
<b>J.102</b>	Antonopoulou, M., Giannakas, A., <b>Deligiannakis, Y.</b> , Konstantinou, I. <i>Kinetic and mechanistic investigation of photocatalytic degradation of the N,N-diethyl-m-toluamide</i> <b>CHEMICAL ENGINEERING JOURNAL</b> 2013, 231, 314-325
<b>J.101</b>	Baikousi, M., Daikopoulos, C., Georgiou, Y., Bourlinos, A., Zbořil, R., <b>Deligiannakis, Y.</b> , Karakassides, M.A. <i>Novel ordered mesoporous carbon with innate functionalities and superior heavy metal uptake</i> <b>JOURNAL OF PHYSICAL CHEMISTRY C</b> (2013) 117 (33), pp. 16961-16971
<b>J..100</b>	A.E. Giannakas, E. Seristatidou, <b>Deligiannakis, Y.</b> , I. Konstantinou <i>Photocatalytic activity of N-doped and N-F co-doped TiO<sub>2</sub> and reduction of ofchromium(VI) in aqueous solution: An EPR study</i> <b>APPLIED CATALYSIS B: ENVIRONMENTAL</b> 132-133, 2013, 460-468
<b>J.99</b>	Giannakas, A.E., Antonopoulou, M., <b>Deligiannakis, Y.</b> , Konstantinou, I. <i>Preparation, characterization of N-I co-doped TiO<sub>2</sub> and catalytic performance toward simultaneous Cr(VI) reduction and benzoic acid oxidation</i> <b>APPLIED CATALYSIS B: ENVIRONMENTAL</b> (2013), 140-141, 636-645.
<b>J.98</b>	Drosos, M., Leenheer, J.A., Avgeropoulos, A., <b>Deligiannakis, Y.</b> <i>H-binding of size- and polarity-fractionated soil and lignite humic acids after removal of metal and ash components</i> <b>ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH</b> 2013, Pages 1-9.
<b>J.97</b>	Zamparas, M., Drosos, M., Georgiou, Y., <b>Deligiannakis, Y.*</b> , Zacharias, I. <i>A novel bentonite-humic acid composite material Bephos™ for removal of phosphate and ammonium from eutrophic waters</i> <b>CHEMICAL ENGINEERING JOURNAL</b> 2013, 225, 43-51
<b>J.96</b>	Zamparas, M., <b>Deligiannakis, Y.</b> , Zacharias, I <i>Phosphate adsorption from natural waters and evaluation of sediment capping using modified clays</i> <b>DESALINATION AND WATER TREATMENT</b> (2013) 51 (13-15), pp. 2895-2902.
<b>J.95</b>	Gianni, A., Zamparas, M., Papadas, I.T., Kehayias, G., <b>Deligiannakis, Y.</b> , Zacharias, I. <i>Monitoring and Modeling of Metal Concentration Distributions in Anoxic Basins:Aitoliko Lagoon, Greece</i> <b>AQUATIC GEOCHEMISTRY</b> (2013) 19 77-95.
<b>2012</b>	
<b>J.94</b>	<b>Deligiannakis, Y.*</b> , Sotiriou, G.A., Pratsinis, S.E. <i>Antioxidant and antiradical SiO<sub>2</sub> nanoparticles covalently functionalized with gallic acid</i> <b>ACS APPLIED MATERIALS AND INTERFACES</b> (2012) 4 (12), pp. 6609-6617
<b>J.93</b>	Zamparas, M., Gianni, A., Stathi, P., <b>Deligiannakis, Y.</b> , Zacharias, I. <i>Removal of phosphate from natural waters using innovative modified bentonites</i> <b>APPLIED CLAY SCIENCE</b> (2012) 62-63, pp. 101-106
<b>J.92</b>	Tselepidou, A., Drosos, M., Stathi, P., Bourlinos, A.B., Zboril, R., <b>Deligiannakis, Y*</b> <i>A water-dispersible, carboxylate-rich carbonaceous solid: Synthesis, heavy metal uptake and EPR study</i> <b>J. MATERIALS SCIENCE</b> (2012) 47, 3140-3149.
<b>J.91</b>	M. Baikousi, K. Dimos, A.B. Bourlinos, R. Zbořil, I. Papadas, <b>Y. Deligiannakis</b> , M.A. Karakassides <i>Surface decoration of carbon nanosheets with amino-functionalized organosilica nanoparticles</i> <b>APPLIED SURFACE SCIENCE</b> (2012) 258 (8), 3703-3709
<b>J.90</b>	Giannakopoulos, E., <b>Deligiannakis, Y*</b> <i>Electrochemical interfacial adsorption mechanism of polyphenolic molecules onto Hanging Mercury Drop Electrode surface (HMDE)</i> <b>JOURNAL of ELECTROANALYTICAL CHEMISTRY</b> (2012) 664, pp. 117-125
<b>2011</b>	
<b>J.89</b>	Bourlinos, AB ; Zboril, R; Kubala, M; Stathi, P; <b>Deligiannakis, Y.</b> , Karakassides, MA; Steriotis, TA; Stubos, AK <i>Fabrication of fluorescent nanodiamond@C core-shell hybrids via mild carbonization of sodium cholate-nanodiamond complexes</i> <b>JOURNAL OF MATERIALS SCIENCE</b> 46, 7912-7916 (2011).
<b>J.88</b>	M. Drosos, M Jerzykiewitz, <b>Deligiannakis, Y*</b> . <i>Progress Towards Synthetic Modelling of Humic Acid: Peering into the Physicochemical Polymerization Mechanism.</i> <b>COLLOIDS SURFACES-A PHYSICOCHEMICAL ENGIN Asp.</b> (2011) 384, 254-265
<b>J.87</b>	Giannakopoulos, E., <b>Deligiannakis, Y*</b> <i>Interfacial thermodynamics of gallic acid adsorption on a chargeable hydrophobic surface</i> <b>Journal of Colloid and Interface Science</b> (2011) 358 (2), pp. 575-581
<b>J.86</b>	K. C. Christoforidis, E. Seresatidou, I. Konstantinou, E. Milaeva M. Lououdi*, <b>Y. Deligiannakis*</b> <i>Mechanism of Catalytic Degradation of 2,4,6-Trichlorophenol by a Fe-porphyrin catalyst</i> <b>Appl. Catalysis B-Environmental</b> (2011) 101, 417-424

<b>2010</b>	
<b>J.85</b>	Panagiota Stathi, Konstantinos C. Christoforidis, <b>Yiannis Deligiannakis*</b> <i>A General Mechanism of Interaction of Carbonates with Non-polar S-Containing Pesticides.</i> <b>GEODERMA</b> (2010) 169, 10-19.
<b>J.84</b>	P. Stathi, I.Papadas, A. Tselepidoy, <b>Yiannis Deligiannakis*</b> <i>Heavy-Metal Uptake by a High Cation-Exchange-Capacity Montmorillonite: The Role of Permanent Charge Sites</i> <b>Global Nest Journal</b> (2010) 12, 246, 255.
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