

# Posters 10th International Conference on the Environmental Effects of Nanoparticles and Nanomaterials (ICEENN 2015)

Code	Title	Authors
<b>A - Analysis of nanomaterials</b>		
PA1	Analysis of Silver Nanoparticles Using Asymmetric Flow Field-Flow Fractionation Coupled to Inductively Coupled Plasma-Mass Spectrometry: Investigating Sample Loss and Recovery Rates	<u>Sötebier, Carina</u> ; Bierkandt, F. S.; Rades, S.; Jakubowski, N.; Panne, U.; Weidner, Steffen M.
PA2	Automated electron microscopy image analysis - a promising tool for the characterization and quantification of carbon nanotubes in complex matrices	<u>Gogos, Alexander</u> ; Bucheli, T.; Kaegi, R.
PA3	Characterisation of sorption properties of carbon nanomaterials (CNM) using packed columns and inverse liquid chromatography	<u>Metzelder, Florian</u> ; Schmidt, T. C.
PA4	Characterization Techniques for Nanomaterials ¿ An overview	<u>Stephan, Chady</u> ; Reddy, S.; Taylor, J.
PA5	Detection of engineered cerium oxide nanoparticles in soil	<u>Praetorius, Antonia</u> ; Fabienke, W.; Gundlach-Graham, A.; Navratilova, J.; von der Kammer, F.; Günther, D.; Hofmann, T.
PA6	Determination of Mass and Density of Nanomaterials using Centrifugal Field-Flow Fractionation, single particle ICP-MS and Transmission Electron Microscopy	<u>Meier, Florian</u> ; Pfafe, T.; Moldenhauer, E.; Tadjiki, S.; Klein, T.
PA7	Dual analyte analysis of bimetallic and monometallic nanoparticle mixtures using field flow fractionation separation coupled to spICP-	<u>Merrifield, Ruth</u> ; Stephan, C.; Lead, J.
PA8	Evaluation and application of dithizone-based colorimetric sensors for silver nanoparticles in aqueous media	<u>Wasukan, Nootcharin</u> ; Srisung, S.; Kuno, M.; Kulthong, K.; Maniratanachote, R.
PA9	Characterization of surface modified Gold-Nanoparticles with Hollow-Fiber-Flow-FFF (HF5) coupled to ICP-MS	<u>Jocks, Thomas</u> ; Elsenberg, S.; McSheehy Ducos, S.; Kutscher, D.; Aljoshia-Rakim, J.; Kraus, T.
PA10	Novel method for silver separation from complex environmental samples for tracing of silver nanoparticles by multiple collector ICP-	<u>Junk, Tabea</u> ; Laycock, A. Rehkämper, M.
PA11	On the Way to Routine Analysis of Nanoparticles using spICP-MS and FFF-ICP-MS	<u>Radlinger, Gerhard</u> ; Kutscher, D.; McSheehy-Ducos, S.
PA12	Phosphorus speciation in water dispersible nano particles in arable soil	<u>Siebers, Nina</u> ; Jiang, X.; Bol, R.; Nischwitz, V.; Willbold, S.; Vereecken, H.; Amelung, W.; Klumpp, E.
PA13	Rare earth elements signatures as a nanoparticles tracing strategy in the environment	<u>Lebed, Pablo</u> ; Jensen, K. A.; Oughton, D.
PA14	Silver nanoparticles interactions with Cu(I) binding proteins and chelators followed by different analytical techniques including AF4-ICPMS	<u>Worms, Isabelle</u> ; Gallon, T.; Deniaud, A.; Veronesi, G.; Rollin-Genetet, F.; Liu, W.; Vidaud, C.; Delangle, P.; Motellier, S.; Boutry, D.; Mintz, E.; Michaud-Soret,
PA15	Size characterization and quantification of synthetic ceria nanoparticle by Field Flow Fractionation coupled to Inductively Coupled Plasma Mass Spectrometry (FFF-ICP-MS)	<u>Bolea, Eduardo</u> ; Cubel, C.; Sánchez-García, L.; Laborda, F.; Castillo, J. R.
PA16	Determination of composite nanoparticle composition using a combination of field flow fractionation and single particle ICP-MS	<u>Ranville, James</u> ; Barber, A.
<b>B - Release and transformations including its effects on aging, behavior and fate</b>		
PB1	A novel multi-isotope tracer approach proves comparative effects of ageing on ZnO nanoparticle and soluble Zn bioavailability in joint soil exposures at field relevant concentrations	<u>Laycock, Adam</u> ; Romero-Freire, A.; Najorka, J.; Svendsen, C.; van Gestel, C. A.M.; Rehkämper, M.
PB2	Aggregation kinetics of polymer-coated silver nanoparticles in NaCl solutions with ionic strength up to 1 M and natural fjord waters	<u>Lodeiro, Pablo</u> ; Achterberg, E. P.; Pampin, J.; Affatati, A.; El-Shahawi, M. S.
PB3	Association between Aqueous Phase Nanoparticles (TiO <sub>2</sub> and Si) and Dissolved Copper Assessed by Evaluation of Copper Bioavailability in Aquatic Species	<u>Patsiou, Danaï</u> ; Kalman, J.; Fernandes, T.; Henry, T.
PB4	Characterization of silver nanoparticles released from clay-based nanomaterials used as a feed additives: leachate assays	<u>Bolea, Eduardo</u> ; Abad, I.; Laborda, F.; Castillo, J. R.
PB5	Co-transport of chlordecone and sulfadiazine in an agriculture soil in the presence of functionalized multi-walled carbon nanotubes	<u>Zhang, Miaoyue</u> ; Vereecken, H.; Klumpp, E.; Kasel, D.; Engelhardt, I.
PB6	Effect of dilution and ionic strength on the behavior of cerium(IV) oxide nanoparticles in the presence of fulvic acids	<u>Oriekhova, Olena</u> ; Stoll, S.
PB7	Effect of interrupted flow on the transport of silver nanoparticles in an undisturbed sandy soil	<u>Makselon, Joanna</u> ; Engelhardt, I.; Vereecken, H.; Klumpp, E.
PB8	Fate of silver nanoparticles in waste water and biosolids followed by enhanced darkfield microscopy and hyperspectral analysis.	<u>Théoret, Trevor</u>
PB9	In situ transformation of CeO <sub>2</sub> nanoparticles embedded in an acrylic wood coating upon aging	<u>Scifo, Lorette</u> ; Chaurand, P.; Bossa, N.; Avellan, A.; Masion, A.; Auffan, M.; Borschneck, D.; Labille, J.; Bottero, J.-Y.; Rose, J.

Code	Title	Authors
PB10	Influence of colloidal iron hydroxide on the stability of engineered nanoparticles in aquatic systems	<a href="#">LIU, Junfeng</a> ; YANG, Y.; ZHANG, X.; ZHOU, L. B.
PB11	Leaching of silver from commercial toothbrush products into pH controlled solution	<a href="#">Lee, Young Su</a> ; Kim, J. Y.
PB12	Modelling the Interaction Processes between Nanoparticles and Biomacromolecules of Variable Hydrophobicity. Monte Carlo Simulations.	<a href="#">Stoll, Serge</a> ; Carnal, F.; Clavier, A.
PB13	Probabilistic modeling of environmental concentrations and risk for Nano Silica	<a href="#">Wang, Yan</a> ; Kalinina, A.; Sun, T.; Nowack, B.
PB14	Release of (nanoscale) - TiO <sub>2</sub> particles from landfills	<a href="#">Kaeqi, Ralf</a> ; Sinnet, B.; Burkhardt, M.
PB15	Release of radiolabeled, multiwalled carbon nanotubes from polypropylene composites: consequences for the environment	<a href="#">Hennig, Michael Patrick</a> ; Siebers, N.; Treidy, S.; Schäffer, A.; Maes, H. M.
PB16	Silver nanoparticles biological fate data: From methodological perspective	<a href="#">Novak, Sara</a> ; Anita, J.; Drobne, D.
PB17	Sorption behavior of functionalized carbon nanotubes: effect of dispersion	<a href="#">Kah, Mélanie</a> ; Hofmann, T.; Zhang, X.
PB18	The distribution of silver nanoparticles in soil and groundwater systems	<a href="#">Penssler, Eva</a> ; Kathmann, W.; Lange, J.; Roß-Nickoll, M.; Schäffer, A.; Maes, H. M.
PB19	Getting Out of a Sticky Situation (or not): Can nanoparticle attachment to soil surfaces help predict plant uptake patterns?	<a href="#">Turner, Amalia</a> ; Wiesner, M
PB20	The interactions between surfactants and nanoparticles (NPs) and the resulted effects on the behavior and fate of NPs in different aqueous matrices	<a href="#">Li, Xuankun</a> ; Yoneda, M.; Shimada, Y.; Matsui, Y.
PB21	Transformations of Ceria nanoparticles as a result of phosphate ageing studies	<a href="#">Romer, Isabella</a> ; Briffa, S.; Valsami-Jones, E.
PB22	Transport of waste-generated colloids leachate through porous media.	<a href="#">Anderson, Amandine</a> ; Martins, J.; Brault, M.; Hennebert, P.; Merdy, P.
PB23	FENOMENO- Fate and effect of wastewater-borne manufactured nanomaterials in aquatic ecosystems	<a href="#">Loureiro, Susana</a> ; Engelhard, C.; Witte, K.; Kuhnert, K.-D.; Kunze, J.; Gethmann, C. F.; Schlechtriem, C.; Wanzenböck, J.; Lamatsch, D.; Vogt, R.; Lopes, I.; Schönherr, H.
<b>C - Toxicology and ecotoxicology</b>		
PC1	Amorphous Food-Grade Silica Nanoparticles Influence Proliferation and the EGFR Signaling Pathway in Human Gastric Carcinoma Cells	<a href="#">Wittig, Anja</a> ; Del Favero, G.; Gehrke, H.; Al-Rawi, M.; Diabaté, S.; Weiss, C.; Marko, D.
PC2	Biological effect and adsorption of TiO <sub>2</sub> nanoparticles on two aquatic invertebrates after acute exposure	<a href="#">Novak, Sara</a> ; Drobne, D.; Hocevar, M.; Vrecko, V.
PC3	Biological effects of self-heating of functionalized magnetic nanoparticles tested on Escherichia coli and Staphylococcus aureus for hyperthermia application	<a href="#">Nguyen, Nhung</a> ; S. A. Darwish, M.; Sevcu, A.
PC4	Characterization of combustion emission nanoparticles from indoor and outdoor wood burning boilers and possible inhalation health risks	<a href="#">Panessa-Warren, Barbara</a> ; Warren, J.; Butcher, T.; Trojanowski, R.; Kisslinger, K.
PC5	Characterization of silver exposure in soils from silver nanoparticle ecotoxicity assays	<a href="#">Schwertfeger, Dina</a> ; Velicogna, J.; Dias Samarajeewa, A.; McShane, H.; Beaudette, L. A.; Scroggins, R.; Princz, J.
PC6	Ecotoxicology of Sediment-associated Carbon Nanotubes	<a href="#">Ashri, Naif</a> ; Hartl, M.; Fernandes, T.
PC7	Effects of environmental relevant concentrations of nanomaterials on soil microorganisms	<a href="#">Grün, Anna-Lena</a> ; Boariu, A.; Meier, F.; Schmidt, M.; Schloter, M.; Emmerling, C.
PC8	Effects on health of earthworms (Lumbricus rubellus) contaminated by Ag and Co nanoparticles detected by histology	<a href="#">Carbone, Serena</a> ; Laudicina, V. A.; Badalucco, L.; Gatti, A.; Ferrando, S.; Gambardella, C.; Vittori
PC9	Environmental hazard identification of silver nanoparticles: FP 7 Nanovalid Project experience	<a href="#">Jemec, Anita</a> ; Böhme, S.; Drobne, D.; Heinlaan, M.; Geppert, M.; Kahru, A.; Kühnel, D.; Schirmer, K.; Singh, S.; Potthoff, A.
PC10	From natural biofilm to grazer fish: a first step for gold nanoparticles trophic transfer	<a href="#">Perrier, Fanny</a>
PC11	Gene expression profiling of neurotoxicity from copper oxide nanoparticles in human neuroblastoma cells	<a href="#">Cho, Eunmin</a>
PC12	Joint effects of nanoparticles and respective ionic counterparts to Daphnia magna	<a href="#">Loureiro, Susana</a> ; Lopes, S.; Pinheiro, C.; Soares, A.
PC13	In vivo effects of intravenously injected polymer-coated TiO <sub>2</sub> nanoparticles on goldfish (carassius auratus) immunity	<a href="#">Goss, Greg</a> ; Ortega, V.; Boyle, D.; Stafford, J.
PC14	Neurotoxic mechanism and gene expression profiling of zinc oxide nanoparticles in human neuroblastoma cells	<a href="#">Cho, Eunmin</a> ; Yang, S. I.
PC15	Phytotoxicity of multi-walled carbon nanotubes in soybean (Glycine max.)	<a href="#">Zaytseva, Olga</a> ; Neumann, G.

<u>Code</u>	<u>Title</u>	<u>Authors</u>
PC16	Pulse exposure of silver nanoparticles in acute and chronic toxicity tests with <i>D. magna</i>	<u>Sørensen, Sara</u> ; Rasmussen, R.; Baun, A.
PC17	The Effect of AgNP in Biosolid-amended Agricultural Soil to Plants, Soil Invertebrates and the Indigenous Soil Microbial Community	<u>Schwertfeger, Dina</u> ; Velicogna, Jessica; Samarajeewa, A. D.; Beaudette, L. A.; Scroggins, R.; Princz, J.
PC18	The effect of dysprosium nanoparticles on the biodegradation ability of wood and litter-decomposing basidiomycetous white-rot fungi	<u>Kinnunen, Anu</u> ; Kähkönen, M. A.; Hatakka, A.
PC19	The evaluation of dithizone derivative toward silver nanoparticles	<u>Srisung, Sujittra</u> ; Wasukan, N.; Kulthong, K.; Maniratanachote, R.
PC20	The importance of chemical speciation, surface properties and corrosion of copper, manganese and aluminum metal nanoparticles on lung cell toxicity	<u>Hedberg, Jonas</u> ; Karlsson, H.; Hedberg, Y.; Cappellini, F.; Blomberg, E.; Odnevall Wallinder, I.
PC21	The potential toxicity of titanium dioxide nanoparticles functionalized by esterification with ligands bearing -COOH, and -NH <sub>3</sub> to <i>Daphnia magna</i> . Safety by design considerations.	<u>Fernandes, Teresa F.</u> ; Gajda-Meissner, Z.; Hartl, M. G. J.
PC22	The use of <sup>110m</sup> Ag to compare the diet based and waterborne bioavailability of Ag nanoparticles to the Atlantic salmon ( <i>Salmo salar</i> )	<u>Oughton, Deborah, H.</u> ; Teien, H.-C.; Rosseland, B.-O.; Kleiven, M.
PC23	Toxic effects of silver nanoparticles in zebrafish ( <i>Danio rerio</i> ) embryo: a correlation to internal dose and distribution patterns	<u>Kühnel, Dana</u> ; Stärk, H.-J.; Reemtsma, T.; Böhme, S.
PC24	Toxicity and bioaccumulation of functionalized multi-walled carbon nanotubes in <i>Daphnia magna</i>	<u>Jang, Minhee</u> ; Hwang, Y.
PC25	Toxicity of copper nanoparticles in zebrafish embryos: influence of pH and effects of repeat pulse exposures	<u>Boyle, David</u> ; Handy, R.
PC26	Toxicity of graphene materials to freshwater algae ( <i>Chlorella pyrenoidosa</i> )	<u>Xing, Baoshan</u> ; Zhao, J.; Zheng, H.; Cao, X.; Wang, Z.
PC27	Toxicity of selected nano-objects and their aggregates and agglomerates to freshwater invertebrates	<u>Fernandes, Teresa F.</u> ; Ricottone, V.; Stone, V.; Henry, T.
PC28	Toxicity screening of coated and uncoated copper oxide engineered nanomaterials to the earthworm ( <i>Eisenia fetida</i> ) using standardised OECD test methods with additional endpoints	<u>Tatsi, Kristi</u> ; Hutchinson, T.; Shaw, B.; Correia, M.; Handy, R.
PC29	Translocation of titanium dioxide nanoparticles from the host plant to larvae of butterfly in food chains	<u>Irie, Masaru</u> ; Kubo-Irie, M.; Yokoyama, M.; Takeda, K.
PC30	The GUIDEnano strategy for human and environmental hazard assessment of nanomaterial-enabled products along the life cycle	<u>Diez-Ortiz, Maria</u> ; Janer, G.; Fernández-Cruz, M. L.; Hernández-Moreno, D.; Izquierdo, J. J.; Spurgeon, D.; Park, M.; Ferraz, N.; Catalán, J.; Vázquez-Campos, S.; Svendsen, C.

Code	Title	Authors
<b>D - Natural colloids and related processes</b>		
PD1	Arsenic speciation in contaminated soils by AF4/SP-ICPMS and XAS techniques: Role of colloids in the mobilization of arsenic	<u>Gomez Gonzalez, Miguel Angel</u> ; Laborda, F.; Bolea, E.; Garcia-Guinea, J.; Garrido, F.
PD2	Degradation products of natural organic matter as iron lignads in offshore regions	<u>Rathgeb, Anna</u> ; Causon, T.; Krachler, R.; Hann, S.
PD3	NANOHETER - an ERA-NET SIINN Programme (2013-2016), on the evaluation of manufactured nanoparticles heteroaggregation with suspended particulate matter and dissolved organic matter in natural surface waters	<u>Labille, Jerome</u> ; Slomberg, D.; Ollivier, P.; Sani-Kast, N.; Praetorius, A.; Scheringer, M.; Radakovitch, O.; Ilina, S.; Brant, J.; Bottero, J.-Y.
<b>E - Social, ethical and regulatory aspects</b>		
PE1	Challenges and recommendations for an appropriate environmental enforcement of manufactured nanomaterials	<u>Schwirn, Kathrin</u> ; Völker, D.
PE2	Development of a relevant tiered risk assessment framework for nanotechnologies	<u>Vinas, Natalia</u> ; Kennedy, A.; Diamond, S.; Collier, Z.; Coleman, J.; Moser, R.; Poda, A.; Chappell, M.; Bednar, A.; Stanley, J.; Steevens, J.
PE3	Potential Nanomaterial Enhanced Conflicts	<u>Lützhöft, Hans-Christian</u> ; Hartmann, N. B.; Hansen, S. F.; Baun, A.
PE4	Treatment and Disposal of Nano-Consumer Products - Regulatory Aspects	<u>Gruber, Iris</u> ; Part, F.; Huber-Humer, M.
<b>F - Innovation and applications of nanotechnology to environmental issues</b>		
PF1	Accelerated microwave assisted synthesis of alumino-germanates nanotubes (imogolites)	<u>Avellan, Astrid</u> ; Levard, C.; Chanéac, C.; Rose, J.; Masion, A.
PF2	Aquifer modification: an approach to improve the mobility of	<u>Micic Batka, Vesna</u> ; Schmid, D.; Velimirovic, M.;
PF3	Enhanced Removal of Arsenic by Mg/Al Layered Double Hydroxide Nanocomposites	<u>Lee, Sang-Ho</u> ; Choi, H.
PF4	Enhancing the stability and antibiofilm activity of DspB by immobilization on carboxymethyl chitosan nanoparticles	<u>Tan, Yulong</u> ; Ma, S.; Liu, C.; Han, F.; Yu, W.
PF5	Influence of Al <sub>2</sub> O <sub>3</sub> additives on the properties of nanocrystalline powder system ZrO <sub>2</sub> - 2Y <sub>2</sub> O <sub>3</sub> - 4CeO <sub>2</sub>	<u>Makarova, Ekaterina</u>
PF6	Isotopically-labeled core-shell-shell (Ag <sub>107</sub> @Au@Ag <sub>109</sub> ) nanoparticles: a tool to investigate ion and particle bioavailability	<u>Merrifield, Ruth</u> ; Lead, J.