UPCON2016 CONFERENCE PROGRAMME

Day 1 –23rd May 2016					The programme of UPCON conference –**Monday**		
	S	START	END		EVENT	Time [h:m]	Session chairs
		8:00	9:00		Registration	Open	
		9:00	9:15		Welcome : **Hans Gorris, Tero Soukka, Artur Bednarkiewicz**	0:15	
Materials, materials characterisation & spectroscopy	1	9:15	10:00	**K1**	*EFFICIENT TAILORING OF UPCONVERSION ENERGY TRANSFER IN RARE EARTH NANOCRYSTALS BY ENGINEERING LOCAL STRUCTURE AND CORE/SHELL ARCHITECTURE* **Chun-Hua Yan**	0:45	Hans Gorris
		10:00	10:30	**I1**	*SYNTHESIS AND PROPERTIES OF $NaREF_4$ CORE/SHELL NANOCRYSTALS* S. Dühnen, T. Rinkel, A. Naduviledathu Raj, **Markus Haase**	0:30	
		10:30	11:00	**I2**	*ENERGY-CASCADED UPCONVERSION IN LAYERED ONION-LIKE FLUORIDE NANOCRYSTALS* **Guanying Chen**	0:30	
		11:00	11:20		Coffee break (coffee/tea, cookies)	0:20	
	2	11:20	11:40	**O1**	*POWER-DEPENDENT CHARACTERIZATION OF UPCONVERSION NANOPARTICLES IN THE VIS AND IR SPECTRAL REGION: NEW SETUP FOR ABSOLUTE QUANTUM YIELD MEASUREMENTS* **Christian Würth,** M. Kaiser, M. Kraft, V. Muhr, S. Wilhelm, T. Hirsch , **Ute Resch-Genger**	0:20	Ute Resch Genger
		11:40	12:00	**O2**	*PARTICLE SIZE DEPENDENT ABSOLUTE PHOTOLUMINESCENCE QUANTUM YIELDS AND LIFETIMES OF HEXAGONAL β-$NaYF_4$: 2 % Er^{3+}, 20% Yb^{3+} UPCONVERSION NANOPARTICLES IN CYCLOHEXANE AND WATER* **Marco Kraft**, Christian Würth, Martin Kaiser, Verena Muhr, Thomas Hirsch, **Ute Resch-Genger**	0:20	
		12:00	12:20	**O3**	*Optimization of biofunctional upconversion nanoplatform - role of the shell* **Hong Zhang**	0:20	
		12:20	12:40	**O4**	*THE ROLE OF Yb^{3+} SENSITIZER IN WATER-BASED QUENCHING OF UPCONVERSION PHOTOLUMINESCENCE* **N. Perälä, Riikka Arppe**, I. Hyppänen, M. Kaiser, C. Würth, U. Resch-Genger, M. Schäferling, T. Soukka	0:20	
		12:40	13:00	**O5**	*ELECTROPHORETIC CHARACTERIZATION OF PHOTON UPCONVERTING NANOPARTICLES AND THEIR BIOCONJUGATES* **Antonín Hlaváček,** J. Přikryl, F. Foret	0.20	
		13:00	14:00		Lunch time	1:00	
Instrumentation, applications, characterisation	3	14:00	14:45	**K2**	*INTEGRATED ANALYTICAL DEVICES POWERED BY UPCONVERSION NANOTECHNOLOGY* **Dayong Jin**	0:45	Artur Bednarkiewicz
		14:45	15:15	**I3**	*HIGH-THROUGHPUT DESIGN OF UPCONVERTING NANOPARTICLES FOR NEAR-INFRARED IMAGING IN HIGHLY SCATTERING MEDIA* **Emory M. Chan,** E. S. Levy, C. Tajon, T. S. Bischof, A. Fernandez-Bravo, P. James Schuck, B. E. Cohen	0:30	
		15:15	15:45	**I4**	*UPCONVERTING NANOPARTICLES PROVIDES MEANS FOR DEEP-TISSUE OPTICAL IMAGING AND PHOTOACTIVATION* **Stefan Andersson-Engels**, Haichun Liu, Monirehalsadat Mousavi	0:30	
		15:45	16:00		Coffee break (coffee/tea, cookies)	0:15	
	4	16:00	16:20	**O6**	*IN SITU SINGLE PARTICLE POLARIZED SPECTROSCOPY OF OPTICALLY TRAPPED UPCONVERTING NANORODS* **Paloma Rodríguez-Sevilla,** L. Labrador-Páez, D. Wawrzyńczyk, M. Nyk, M. Samoć, A. Kumar Kar, M. D. Mackenzie, L. Paterson, D. Jaque, P. Haro-González	0:20	Hans Tanke
		16:20	16:40	**O7**	*LANTHANIDE DOPED NANOPARTICLES - THE SOLUTION TO PHOTODYNAMIC HYBRIDOMA CELLS' SELECTION* A. Kowalczyk, M. Skowicki, S. Zelewski, K. Prorok, M. Misiak, **Tomasz Lipinski, Artur Bednarkiewicz**	0:20	
		16:40	17:00	**O8**	*1.39 μM EXCITED Tm^{3+} DOPED NANOPARTICLES FOR SUBTISSUE THERMAL SENSING WITH DEEP PENETRATION AND HIGH CONTRAST* **Carlos Jacinto,** A. F. Pereira, J. F. Silva, A. S. Gouveia-Neto, M. V. D. Vermelho	0:20	
		17:00	19:30		COST Management meeting, free time for other participants	2:30	
		20:00	23:00		Joined conference dinner	3:00	

Day 2 –24th May 2016					The programme of UPCON conference –**Tuesday**		
Materials, characterisation, spectroscopy, UC enhancement	5	9:00	9:45	**K3**	*ON UPCONVERTING Ln^{3+} BASED NANOPARTICLES; A CRITICAL PERSPECTIVE ON SYNTHESIS, CHARACTERISATION, AND APPLICATIONS* **Frank C.J.M. van Veggel**	0:45	Tero Soukka
		9:45	10:15	**I5**	*OPTICAL TRAPPING FOR SINGLE UP-CONVERTING PARTICLE SPECTROSCOPY: FUNDAMENTALS AND BIO-APPLICATIONS* **Daniel Jaque**, P. Rodríguez-Sevilla, M. Pedroni, A. Speghini, M. Bettinelli, P. Haro-González, Yuhai Zhang, Liu Xiaogang and J. García Solé	0:30	
		10:15	10:35	**O9**	*ELECTROPHORESIS COMBINED WITH UPCONVERSION SCANNING AS A POWERFUL TOOL FOR THE SEPARATION, CHARACTERIZATION AND HIGHLY SENSITIVE DETECTION OF UCNPS* **Hans Gorris,** A. Hlaváček	0:20	
		10:45	11:00		Coffee break (coffee/tea, cookies)	0:15	
	6	11:00	11:20	**O10**	*SIZE DEPENDENT UPCONVERSION NANOTHERMOMETRY BASED ON (Sr,Yb,Er)F_2 NANOPARTICLES* **Sangeetha Balabhadra,** M. L. Debasu, J. Rocha, M. Bettinelli, L. D. Carlos	0:20	Jose Garcia Sole
		11:20	11:40	**O11**	*SYNTHESIS AND CHARACTERISATION OF VISIBLE/NEAR INFRARED LUMINESCENT ERBIUM COORDINATION COMPLEXES* **Bahman Golesorkhi,** Y. Suffren, L. Guénée, H. Nozary, A. Hauser, C. Piguet	0:20	
		11:40	12:00	**O12**	*NANOPROBES FOR SENSING AND IMAGING OF INTRACELLULAR Ph BASED ON POLYETHYLENEIMINE-COATED PHOTON UPCONVERSION NANOPARTICLES CONJUGATED TO A Ph SENSITIVE RHODAMINE DYE* **Michael Schäferling,** T. Deguchi, S. Christ, R. Peltomaa, N. Prabhakar, J. Rosenholm, R. Arppe, T. Soukka, T. Näreoja	0:20	
		12:00	12:20	**O13**	*ENHANCED UP-CONVERSION EMISSION IN Yb^{3+}/Tm^{3+},Yb^{3+}/Er^{3+} AND Yb^{3+}/Ho^{3+}-DOPED $GDVO_4$ BY Li^+ CO-DOPING* **Miroslav Dramicanin,** T. Gavrilović, D. Jovanović	0:20	
		12:20	12:40	**O14**	*FLUORESCENCE ENHANCEMENT AND ENERGY PROPAGATION IN PLASMONIC NETWORKS* **Sebastian Maćkowski,** K. Ciszak, A. Prymaczek, J. Grzelak, M. Nyk, D. Piatkowski	0:20	
		12:45	13:45		Lunch time	1:00	
Chemistry, Physics and modelling of LnNPs	7	13:45	14:30	**K4**	*REAL-TIME SPECTROSCOPIC MONITORING AND MATHEMATICAL MODELLING OF THE SYNTHESIS AND MODIFICATION OF $NAYF_4$ NANOCRYSTALS* P. Stanley May, P. B. May, **Mary T. Berry**	0:45	Frank C.J.M. van Veggel
		14:30	15:00	**I6**	*SOPHISTICATION IN LANTHANIDE COORDINATION CHEMISTRY: A PREREQUISITE FOR IMPLEMENTING UPCONVERSION AT THE MOLECULAR LEVEL* **Claude Piguet**	0:30	
		15:00	15:30	**I7**	*SPECTROSCOPIC IMAGING OF SURFACE PLASMON POLARITON ENHANCED ENERGY TRANSFER UCPONVERSION IN $NAYF_4$:YB^{3+},LN^{3+} NANOPARTICLES* **Steve Smith**	0:30	
		15:30	15:50	**O15**	*MODELLING THE NANOSCALE EFFECT ON THE UPCONVERSION OF β-$NaYF_4$:Yb^{3+},Er^{3+}* **Stanley May,** Md Yeathad Hossan, A. Hor, S. Smith	0:20	
		15:50	16:10		Coffee break (coffee/tea, cookies)	0:20	
	8	16:10	17:10		Future perspectives of UCNPs – panel discussion	1:00	AB,HG,TS
		17:15			Poster session – poster shall be fixed to boards in the morning, 3 prizes for best posters will be granted and announced at the end of the conference		

Day 3 –25th May 2016					The programme of UPCON conference – **Wednesday**		
	S						
Bioassays, bio-applications, toxicity, functional NPs	9	9:00	9:30	**I8**	*UPCONVERTING PHOSPHOR BASED LATERAL FLOW ASSAYS FOR MONITORING IMMUNOTHERAPY* ***Hans Tanke,*** C. J. de Dood, E. M. Tjon Kon Fat, P. L.A.M. Corstjens	0:30	Dayong Jin
		9:30	10:00	**I9**	*UPCONVERSION LUMINESCENCE IN ULTRASENSITIVE SOLID-PHASE IMMUNOASSAY* *N. Sirkka, A. Lyytikäinen, T. Savukoski, H. Päkkilä, R. Arppe,* ***Tero Soukka***	0:30	
		10:00	10:20	**O16**	*SIZE-DEPENDENT CYTOTOXICITY OF BARE $NaGdF_4:Yb^{+3}:Er^{+3}$ NANOCRYSTALS ON MACROPHAGES* **Edyta Wysokińska,** J. Cichos , E. Zioło , L. Strządała , M. Karbowiak , W. Kałas	0:20	
		10:20	10:40	**O17**	*ENHANCING THE FUNCTIONALITY OF THE UPCONVERSION NANOPARTICLES* **Julia Pérez-Prieto**	0:20	
		10:40	11:00		Coffee break (coffee/tea, cookies)	0:20	
Biosensing, biodetection, bioimaging, therapies, theranostics	10	11:00	11:20	**O18**	*FRET AND PHOTOLUMINESCENCE LIFETIMES OF UPCONVERTING NANOPARTICLES: FROM PHOTOPHYSICAL PROPERTIES TO BIOSENSING* **Niko Hildebrandt**	0:20	Chun-Hua Yan
		11:20	11:40	**O19**	*HYBRID UPCONVERTING NANOCOMPOSITE FOR PHOTODYNAMIC THERAPY* **Marta Maria Natile,** G. Sotgiu, G. Varchi, L. Armelao	0:20	
		11:40	12:00	**O20**	*INCREASING PENETRATION DEPTH IN BIOLOGICAL TISSUE IMAGING USING 808-NM EXCITED $Nd^{3+}/Yb^{3+}/Er^{3+}$-DOPED UPCONVERTING NANOPARTICLES* **Monirehalsadat Mousavi,** G. Sotgiu, G. Varchi, L. Armelao	0:20	
		12:00	12:20	**O21**	*OPTIMIZING UPCONVERTING NANOPARTICLES FOR FRET-BASED ASSAYS* **Oleksii Dukhno,** F. Przybilla, Y. Arntz, M. Collot, A. Klymchenko, M. Buchner , V. Muhr , T. Hirsch, Y. Mely	0:20	
		12:20	12:40	**O22**	*LIVE-CELL IMAGING WITH UPCONVERTING NANOPARTICLES: 2D AND 3D SINGLE-PARTICLE TRACKING* Y. Han Song, H. Li Jo, J. Park, **Kang Taek Lee**	0:20	
		12:40	13:00	**O23**	*MULTIFUNCTIONAL OPTO-MAGNETIC NANOPARTICLES FOR THERANOSTIC APPLICATIONS* **Bożena Sikora,** P. Kowalik, J. Mikulski, K. Fronc, I. Kamińska, M. Szewczyk, G. Gruzeł, A. Konopka, K. Zajdel, M. Naurecka, R. Minikayev, T. Wojciechowski, M. Parlińska-Wojtan, A. Sienkiewicz M. Łapiński, M. Kwaśny, A. Borodziuk, M. Duda, K. Łysiak, A. Gardias, J. Rybusinski, J. Szczytko, A. Twardowski, M. Frontczak-Baniewicz, P. Stępień, G. Wilczyński, W. Paszkowicz, and D. Elbaum	0:20	
		13:00	13:20	**O24**	*LIPID ENCAPSULATION AND RUTHENIUM DECORATION OF UPCONVERTING NANOPARTICLES (UCNPs) FOR PHOTO-ACTIVATED CHEMOTHERAPY (PACT)* **Michael Meijer,** MM. Natile, S. Bonnet	0:20	
		13:20	13:30		Closing of Conference, announcement of next UPCON conference and school	0:10	
		13:30	14:45		Lunch time	1:15	

LIST OF ABSTRACTS

WITH PRESENTING AUTHORS

Keynote and invited talks (chronological order)

Presentation No.	First Name	Last Name	Abstract title
K 1	Chun-Hua	Yan	EFFICIENT TAILORING OF UPCONVERSION ENERGY TRANSFER IN RARE EARTH NANOCRYSTALS BY ENGINEERING LOCAL STRUCTURE AND CORE/SHELL ARCHITECTURE
K 2	Dayong	Jin	INTEGRATED ANALYTICAL DEVICES POWERED BY UPCONVERSION NANOTECHNOLOGY
K 3	Frank C.J.M.	van Veggel	ON UPCONVERTING Ln^{3+} BASED NANOPARTICLES; A CRITICAL PERSPECTIVE ON SYNTHESIS, CHARACTERISATION, AND APPLICATIONS
K 4	Mary T.	Berry	REAL-TIME SPECTROSCOPIC MONITORING AND MATHEMATICAL MODELLING OF THE SYNTHESIS AND MODIFICATION OF $NAYF_4$ NANOCRYSTALS
I 1	Markus	Haase	SYNTHESIS AND PROPERTIES OF $NaREF_4$ CORE/SHELL NANOCRYSTALS
I 2	Guanying	Chen	ENERGY-CASCADED UPCONVERSION IN LAYERED ONION-LIKE FLUORIDE NANOCRYSTALS
I 3	Emory M.	Chan	HIGH-THROUGHPUT DESIGN OF UPCONVERTING NANOPARTICLES FOR NEAR-INFRARED IMAGING IN HIGHLY SCATTERING MEDIA
I 4	Stefan	Andersson-Engels	UPCONVERTING NANOPARTICLES PROVIDES MEANS FOR DEEP-TISSUE OPTICAL IMAGING AND PHOTOACTIVATION
I 5	Daniel	Jaque	OPTICAL TRAPPING FOR SINGLE UP-CONVERTING PARTICLE SPECTROSCOPY: FUNDAMENTALS AND BIO-APPLICATIONS
I 6	Claude	Piguet	SOPHISTICATION IN LANTHANIDE COORDINATION CHEMISTRY: A PREREQUISITE FOR IMPLEMENTING UPCONVERSION AT THE MOLECULAR LEVEL
I 7	Steve	Smith	SPECTROSCOPIC IMAGING OF SURFACE PLASMON POLARITON ENHANCED ENERGY TRANSFER UPCONVERSION IN $NaYF_4:Yb^{3+},Ln^{3+}$ NANOPARTICLES
I 8	Hans J.	Tanke	MONITORING OF IMMUNE THERAPY USING UCNP BASED LATERAL FLOW ASSAYS
I 9	Tero	Soukka	UPCONVERSION LUMINESCENCE IN ULTRASENSITIVE SOLID-PHASE IMMUNOASSAY

Oral presentations (chronological order)

Presentation No.	First Name	Last Name	Abstract title
O 1	Christian	Würth	POWER-DEPENDENT CHARACTERIZATION OF UPCONVERSION NANOPARTICLES IN THE VIS AND IR SPECTRAL REGION: NEW SETUP FOR ABSOLUTE QUANTUM YIELD MEASUREMENTS
O 2	Marco	Kraft	PARTICLE SIZE DEPENDENT ABSOLUTE PHOTOLUMINESCENCE QUANTUM YIELDS AND LIFETIMES OF HEXAGONAL β-

			$NaYF_4$: 2 % Er^{3+}, 20 % Yb^{3+} UPCONVERSION NANOPARTICLES IN CYCLOHEXANE AND WATER
O3	Hong	Zhang	OPTIMIZATION OF BIOFUNCTIONAL UPCONVERSION NANOPLATFORM - ROLE OF THE SHELL
O 4	Riikka	Arppe	THE ROLE OF Yb^{3+} SENSITIZER IN WATER-BASED QUENCHING OF UPCONVERSION PHOTOLUMINESCENCE
O 5	Antonín	Hlaváček	ELECTROPHORETIC CHARACTERIZATION OF PHOTON UPCONVERTING NANOPARTICLES AND THEIR BIOCONJUGATES
O 6	Paloma	Rodríguez-Sevilla	IN SITU SINGLE PARTICLE POLARIZED SPECTROSCOPY OF OPTICALLY TRAPPED UPCONVERTING NANORODS
O 7	Artur	Bednarkiewicz	LANTHANIDE DOPED NANOPARTICLES – THE SOLUTION TO PHOTODYNAMIC HYBRIDOMA CELLS SELECTION
O 8	Carlos	Jacinto	1.39 μm EXCITED Tm^{3+} DOPED NANOPARTICLES FOR SUBTISSUE THERMAL SENSING WITH DEEP PENETRATION AND HIGH CONTRAST
O 9	Hans Heiner	Gorris	ELECTROPHORESIS COMBINED WITH UPCONVERSION SCANNING AS A POWERFUL TOOL FOR THE SEPARATION, CHARACTERIZATION AND HIGHLY SENSITIVE DETECTION OF UCNPS
O 10	Sangeetha	Balabhadra	SIZE DEPENDENT UPCONVERSION NANOTHERMOMETRY BASED ON (Sr,Yb,Er)F_2 NANOPARTICLES
O 11	Bahman	Golesorkhi	SYNTHESIS AND CHARACTERISATION OF VISIBLE/NEAR INFRARED LUMINESCENT ERBIUM COORDINATION COMPLEXES
O 12	Michael	Schäferling	NANOPROBES FOR SENSING AND IMAGING OF INTRACELLULAR PH BASED ON POLYETHYLENEIMINE-COATED PHOTON UPCONVERSION NANOPARTICLES CONJUGATED TO A PH SENSITIVE RHODAMINE DYE
O 13	Miroslav	Dramićanin	ENHANCED UP-CONVERSION EMISSION IN Yb^{3+}/Tm^{3+}, Yb^{3+}/Er^{3+} AND Yb^{3+}/Ho^{3+}-DOPED $GdVO_4$ BY Li^+ CO-DOPING
O 14	Sebastian	Maćkowski	FLUORESCENCE ENHANCEMENT AND ENERGY PROPAGATION IN PLASMONIC NETWORKS
O 15	Stanley	May	MODELLING THE NANOSCALE EFFECT ON THE UPCONVERSION OF β-$NaYF_4$:Yb^{3+},Er^{3+}
O 16	Edyta	Wysokińska	SIZE-DEPENDENT CYTOTOXICITY OF BARE $NaGdF_4$:Yb^{3+}:Er^{3+} NANOCRYSTALS ON MACROPHAGES
O 17	Julia	Pérez-Prieto	ENHANCING THE FUNCTIONALITY OF THE UPCONVERSION NANOPARTICLES
O 18	Niko	Hildebrandt	FRET AND PHOTOLUMINESCENCE LIFETIMES OF UPCONVERTING NANOPARTICLES: FROM PHOTOPHYSICAL PROPERTIES TO BIOSENSING
O 19	Marta Maria	Natile	HYBRID UPCONVERTING NANOCOMPOSITE FOR PHOTODYNAMIC THERAPY
O 20	Monirehalsadat	Mousavi	INCREASING PENETRATION DEPTH IN BIOLOGICAL TISSUE IMAGING USING 808-NM EXCITED $Nd^{3+}/Yb^{3+}/Er^{3+}$-DOPED UPCONVERTING NANOPARTICLES
O 21	Oleksii	Dukhno	OPTIMIZING UPCONVERTING NANOPARTICLES FOR FRET-BASED ASSAYS
O 22	Kang Taek	Lee	LIVE-CELL IMAGING WITH UPCONVERTING NANOPARTICLES: 2D AND 3D SINGLE-PARTICLE TRACKING
O 23	Bozena	Sikora	MULTIFUNCTIONAL OPTO-MAGNETIC NANOPARTICLES FOR THERANOSTIC APPLICATIONS
O 24	Michael S.	Meijer	LIPID ENCAPSULATION AND RUTHENIUM DECORATION OF UPCONVERTING NANOPARTICLES (UCNPS) FOR PHOTO-ACTIVATED CHEMOTHERAPY (PACT)

Poster presentations

Presentation No.	First Name	Last Name	Abstract title
P 1	Alpan	Bek	UPCONVERSION BY FANO RESONANT ALL-PLASMONIC AND MOLECULAR-PLASMONIC HYBRID NANOSTRUCTURES
P 2	Anna	Borodziuk	LANTHANIDE-DOPED UPCONVERSION $NaYF_4$ NANOPARTICLES FOR PHOTODYNAMIC THERAPY
P 3	Dmitry	Busko	CHARACTERISATION OF UPCONVERTING MATERIALS: FROM MACRO TO NANOSCALE
P 4	Veronika	Čunderlová	PREPARATION OF AVIDIN MODIFIED PHOTON UPCONVERSION NANOPARTICLES
P 5	Bartłomiej	Czaban	U PCONVERSION QUANTUM YIELD MEASUREMENTS – INSTRUMENTATION, MEASUREMENTS AND ISSUES
P 6	Anna	Ekner-Grzyb	*IN VITRO* CYTOTOXICITY EVALUATION OF UPCONVERTING $CaLuF_5$ AND $SrLuF_5$ NANOPARTICLES DOPED BY Yb^{3+} AND Ho^{3+}, Tm^{3+} OR Er^{3+} IONS
P 7	Nestor	Estebanez	FUNCTIONAL POLYMER-CAPPED UPCONVERSION NANOPARTICLES
P 8	Srećko	Gajović	ASSESSING UPCONVERTING NANOPARTICLE BIOCOMPATIBILITY FOR NEURAL STEM CELL IMAGING
P 9	Maciej	Gawłowski	BIO-FUNCTIONALIZATION OF UCNPs WITH PROTEIN G NOVEL APPROACH FOR UNIVERSAL IMMUNODETECTING AGENT
P 10	María	González-Béjar	ASSEMBLY OF UPCONVERSION AND LUMINISCENT NANOPARTICLES
P 11	Justyna	Grzelak	ENERGY TRANSFER BETWEEN UP-CONVERTING NANOCRYSTAL AND ORGANIC POLYMER
P 12	Tomasz	Grzyb	SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY OF UPCONVERTING NANOFLUORIDES
P 13	Ricardas	Rotomskis	BIOCOMPATABLE NaGdF:Yb,Er@NaGdF UPCONVERTING NANOPARTICLES FOR DUAL IMAGING
P 14	Daniel	Horák	SILICA-MODIFIED MONODISPERSE HEXAGONAL LANTHANIDE NANOCRYSTALS: SYNTHESIS AND BIOLOGICAL PROPERTIES
P 15	Dragana	Jovanović	LOW-TEMPERATURE SYNTHESIS OF MULTIFUNCTIONAL Tm^{3+}/Yb^{3+}, Er^{3+}/Yb^{3+}, Ho^{3+}/Yb^{3+} DOPED-$REVO_4$ (RE = Gd^{3+}, Y^{3+}, Lu^{3+}) ULTRASMALL COLLOIDAL UPCONVERTING NANOPARTICLES
P 16	Beatriz	Julián-López	NEW SYNTHETIC ROUTES TOWARDS RATIONAL DESIGN OF EFFICIENT UCNPs
P 17	Magdalena	Duda	ENERGY TRANSFER BETWEEN ORGANIC DYES ("ANTENNA") ATTACHED TO THE SURFACE OF UPCONVERTING NANOPARTICLES
P 18	Cynthia Elisabeth	Kembuan	STRUCTURED METAL NANOSHELL PARTICLES FOR CONTROLLED ENHANCEMENT OF PHOTON UP-CONVERSION AND Cu DETECTION
P 19	Uliana	Kostiv	RGDS- AND TAT-CONJUGATED $NAYF_4:Yb^{3+}/Er^{3+}\&SiO_2$ NANOPARTICLES: PREPARATION AND BIOLOGICAL PROPERTIES
P 20	Agnieszka	Kowalczyk	RATIOMETRIC DETECTION OF MONOCLONAL ANTIBODIES WITH LIPOPOLYSACCHARIDE FUNCTIONALIZED UPCONVERTING NANOPARTICLES
P 21	Przemysław	Kowalik	MULTIFUNCTIONAL OPTO-MAGNETIC UP-CONVERTING $NaYF_4\&Fe_3O_4/SiO_2$ NANOPARTICLES – SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL APPLICATIONS
P 22	Bettina	Grauel	Nd AS SENSITIZER IN $NaYF_4$:Yb,Er,Nd TRI-DOPED UPCONVERSION NANOCRYSTALS
P 23	Sergey	Kuznetsov	DEVELOPMENT OF EFFICIENT UP-CONVERSION LUMINOPHORES BASED ON CUBIC $NAYF_4$:YB:ER AND

			SRF_2:YB:ER FOR BIOMEDICAL APPLICATIONS
P 24	Satu	Lahtinen	SENSITIZING LONG-LIFETIME LUMINESCENT EUROPIUM(III) COMPLEX THROUGH INFRARED EXCITED PHOTON UPCONVERSION
P 25	Tero	Laihinen	EXTENSIVE STUDY OF $NaYF_4:Yb^{3+},R^{3+}$ UP-CONVERSION LUMINESCENCE MATERIALS
P 26	Karol	Lemański	UPCONVERSION EMISSION OF THE CRYSTALLINE POWDERS OF GaN DOPED WITH LANTHANIDE IONS
P 27	Tomasz	Lipiński	NEW APPROACH FOR THE FUNCTIONALIZATION OF LANTHANIDE $UCNP_S$
P 28	Boris	Majaron	EFFECT OF THE COMPOSITION OF AQUEOUS MEDIA ON THE DISSOLUTION OF UPCONVERTING $NaYF_4:Yb^{3+},Tm^{3+}$ NANOPARTICLES
P 29	Giacomo	Lucchini	ALKALINE-EARTH FLUORIDE NANOPARTICLES ACTIVATED WITH Ln^{3+} IONS FOR MULTIMODAL BIOIMAGING
P 30	Manoj	Kumar Mahata	INTENSE YELLOW LIGHT EMITTING $YVO_4:Ho^{3+}/Yb^{3+}$ DUAL MODE PHOSPHOR
P 31	Lukasz	Marciniak	UP-CONVERTING RARE EARTH DOPED PHOSPHATES FOR NON-CONTACT TEMPERATURE SENSING
P 32	Marta	Markowska	POLYMER COATED $NaGdF_4:Yb^{+3}:Er^{+3}$ NANOCRYSTALS
P 33	Matthias	Mickert	HIGHLY SENSITIVE LASER SCANNING OF PHOTON-UPCONVERTING NANOPARTICLES ON A MACROSCOPIC SCALE
P 34	Małgorzata	Misiak	ENHANCEMENT OF UP-CONVERSION LUMINESCENCE IN Yb^{3+} Tm^{3+} CO-DOPED CaF_2 NANOCRYSTALS BY SYNTHESIS MODULATION
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