

ASTRID PROPOSALS - 2016

Project acronym	Project title	Name of Project Manager			Country of Home institution
		Family Name	First Name	Home Institution	
ISA-16-1001	Photoabsorption spectra of lactones	Malgorzata	Smialek-Telega	The Open University	UK
ISA-16-1002	Synchrotron Radiation Circular Dichroism Spectroscopy of Voltage-Gated Sodium Channels: Ion Binding, Proteins Folding and Stability, Consequences of Disease-related mutants, and Drug Interactions	Wallace	Bonnie	Birkbeck College, University of London	UK
ISA-16-1003	Synchrotron Radiation Circular Dichroism Spectroscopy of Oriented Membrane Proteins, Proteins in Monolayers, Langmuir Bilayers, Crystals, and Fibres	Wallace	Bonnie	Birkbeck College, University of London	UK
ISA-16-1004	Synchrotron Radiation Circular Dichroism Spectroscopy of Soluble and Intrinsically-Disordered Protein Structure, Stability, and Folding	Wallace	Bonnie	Birkbeck College, University of London	UK
ISA-16-1005	CD Characteriation of unusual DNA structures	Aldrich-Wright	Janice	Western Sydney University	AU
ISA-16-1006	Soft x-ray absorption spectroscopy studies of carbon containing low-k dielectric materials	Hughes	Greg	Dublin City University	IE
ISA-16-1007	Growth and functionalisation of a variety of single-layer transition metal dichalcogenides	Duesberg	Georg	Trinity College Dublin	IE
ISA-16-1008	XPS Studies of iron carbide growth and surface chemistry as a model for Fischer-Tropsch synthesis	Weststrate	Kees-Jan	Syngaschem BV	NL
ISA-16-1009	Exploring the lowest-lying electronic states of cork TCA contaminant and its derivatives	Limao-Viera	Paulo	Universidade NOVA de Lisboa	PT
ISA-16-1010	Surface resonance and interface states in the photoemission spectrum of the half metallic Heusler compound Co ₂ FexMn _{1-x} Si	Jourdan	Martin	Johannes Gutenberg University Mainz	D
ISA-16-1011	High-resolution VUV spectroscopy of quinone and derivatives	Ferreira da Silva	Filipe	Universidade NOVA de Lisboa	PT
ISA-16-1012	Electronic properties of thin superconducting films as a platform for studying topological superconductivity	Ako Khajetoorians	Alexander		NL
ISA-16-1013	Asymmetric Photolysis of Nucleotide Precursor Molecules	Meierhenrich	Uwe	Université de Nice--Sophia Antipolis	FR
ISA-16-1014	SRCD to study the action of Plantaricin 149 and analogs antimicrobial peptides on model membranes	Lopez	Jose Luiz	University of Sao Paulo	BR
ISA-16-1015	Investigating the conformational behavior and thermal stability of thermophilic enzymes using SRCD	Lopez	Jose Luiz	University of Sao Paulo	BR
ISA-16-1016	Growth and encapsulation of epitaxial silicene on h-BN terminated surfaces	Wiggers	Frank	University of Twente	NL
ISA-16-1017	Electronic structure of novel two--dimensional materials, topological insulators and Dirac materials	Hofmann	Philip	IFA	DK
ISA-16-1018	The toxic amyloid aggregates of Huntington's disease: nanoscale characterisation of oligomers, fibrils and inclusions	Bortolini	Christian	iNANO	DK
ISA-16-1019	Structural changes on protein fibrils induced by different environmental conditions	Marasini	Carlotta	University of Copenhagen	DK
ISA-16-1020	Effect of temperature and different environment conditions on protein fibrils surface and alignment.	Marasini	Carlotta	University of Copenhagen	DK
ISA-16-1021	Biomimetic lipidic self-assembly materials for encapsulation of therapeutic proteins and peptides	Conn	Charlotte	RMIT University	AU
ISA-16-1022	Chemistry and photo-chemistry of nucleobases and chemotherapy agents.	Wells	Justin	Norwegian University of Science and Tec	NO

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ISA-16-1023	Band gap tuning of amorphous Al oxides by Zr alloying	Canulescu	Stela	DTU	DK
ISA-16-1024	Kinetics of DNA duplex formation studied by stopped flow VUV CD spectroscopy	Brøndsted Nielsen	Steen	IFA	DK
ISA-16-1025	Electronic coupling between cytosine bases in RNA single strands revealed from synchrotron radiation circular dichroism	Brøndsted Nielsen	Steen	IFA	DK
ISA-16-1026	Circular dichroism spectroscopy of chlorophylls a and b: Solvent effects and electronic communication between two or more chromophores	Stockett	Mark	IFA	DK
ISA-16-1027	Investigation of the Human Galectin-4 interactions with carbohydrates by SRCD	Suemy Kumagai	Patricia	University of Sao Paulo	BR
ISA-16-1028	Continuation of the Proposal (2015) entitled 'Vacuum ultraviolet study of some organic polyatomic molecules, with particular reference to Rydberg states in conjugated and heterocyclic systems.'	Palmer	Michael	School of Chemistry	UK
ISA-16-1029	Static and stopped flow measurements of silver induced folding of the protein SilE.	Scott	David	University of Nottingham	UK
ISA-16-1030	Interaction of nitric oxide with a model VQ _x -anatase TiO ₂ (001) catalyst.	Wendt	Stefan	Interdisciplinary Nanoscience Center	DK
ISA-16-1031	Characterization of V2O5-TiO2 model catalysts prepared by V2O5 powder evaporation	Wendt	Stefan	Interdisciplinary Nanoscience Center	DK
ISA-16-1032	Elementary processes of water photoelectrolysis on ferroelectric thin films	Domenichini	Bruno	ICB UMR 6303 CNRS-Université de Bourgogne-Franche Comté	FR
ISA-16-1033	A Fundamental Understanding of the Transition Polarizations of Biomolecules in the Far UltraViolet	Dafforn	Tim	University of Birmingham	UK
ISA-16-1034	EXOcube – Exposure of Organisms/Organics cube: Photostability of membrane molecules in space	Elsaesser	Andreas	Leiden University - Leiden Observatory	NL
ISA-16-1035	Using Jacalin and related family members to identify the contributions of fold motif and aromatic residue content in SRCD data	Janes	Robert	University of London	UK
ISA-16-1036	Understanding the interaction of the saliva protein statherin binding to the mineral hydroxyapatite of tooth enamel; towards developing an artificial saliva.	Janes	Robert	University of London	UK
ISA-16-1037	Ultrathin films growth and interface studies, related to the manufacturing of high current interest functional semiconductor systems.	Silva	Ana	Universidade Nova de Lisboa	PT
ISA-16-1038	Synchrotron Radiation Circular Dichroism Spectroscopy of Pore-forming Antimicrobial Peptides	Ulmschneider	Martin	Johns Hopkins University	US
ISA-16-1039	"CD and Anisotropy Spectra for Continuous Flow Asymmetric Photolysis of Petroleum-derived Carboxylic Acids"	Evans	Amanda	California State University Fullerton	US
ISA-16-1040	Tuning self-assembled nanostructure of antimicrobial peptides for its antibacterial activity	Liu	Lei	iNANO	DK
ISA-16-1041	Natural polyether ionophorous antibiotic Monensin: complexation properties towards lanthanide cations in solution evaluated by SRCD spectroscopy	Pantcheva	Ivayla	University of Sofia	BG
ISA-16-1042	Ordering and charge-transfer dynamics of ionic liquids on ZnO() and (0001) surfaces: Understanding interfacial properties in novel LEDs and solar cells	Syres	Karen	University of Central Lancashire	UK
ISA-16-1043	Investigating the origin of the magneto-transport phase transition in the transition metal dichalcogenide, Fe-doped TaS2	Wells	Justin	Norwegian University of Science and Technology	NO
ISA-16-1044	VUV spectroscopy and irradiation of condensed polycyclic aromatic hydrocarbons under conditions pertinent to the interstellar medium and icy outer Solar System bodies	Dawes	Anita	The Open University	UK

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ISA-16-1045	Evolution of interface states in (TCI/normal) heterostructures	Polley	Craig	Lund University	SE
ISA-16-1046	Structural and orientational changes prior to and during the formation of silk-Laponite nanocomposite gels	Dicko	Cedric	Lund University	SE
ISA-16-1047	Photoabsorption Spectroscopy of Electron-Irradiated Ices for the forthcoming JUICE Mission	Ioppolo	Sergio	The Open University	UK
ISA-16-1048	A photoemission study of interface formation in the MoS ₂ and HfSe ₂ transition metal dichalcogenides.	Cafolla	Tony	Dublin City University	IE
ISA-16-1049	How does the topography of the interstellar dust grains influence the structure of their icy mantles? The	Pascual	Natalia	The Open University	UK
ISA-16-1050	Probing the band structure of δ-layers	Miwa	Jill	IFA	DK
ISA-16-1051	On the wavelength dependence of mutagenic thymine dimer production: An Synchrotron Radiation Circular Dichroism study	Vrønning Hoffmann	Søren	IFA	DK
ISA-16-1052	Structural analysis of membrane-associated peptide autoantigens and protein mutations causing demyelinating disease	Kursula	Petri	University of Bergen	NO
ISA-16-1053	Characteristics and reduction behavior of the √5 surface oxide structure on Pd-alloy surfaces	Venvik	Hilde	Norwegian University of Science and Technology (NTNU)	NO
ISA-16-1054	The adsorption and decomposition of small hydrocarbons on K-covered Co single crystal surfaces	Venvik	Hilde	Norwegian University of Science and Tec	NO
ISA-16-1055	SRCD in understanding of the allosteric effect and metal binding in artificial metalloenzymes and metalloproteins	Gyurcsik	Béla	University of Szeged	HU
ISA-16-1056	Study of the electron-phonon interaction on interface superconductivity FeSe/SrTiQ heterostructure	Guan	Dandan	Department of Physics	CN
ISA-16-1057	Shining Light on the Origin of Life	Keiding	Søren	AU, Kemi	DK
ISA-16-1058	Peptides and proteins of pharmaceutical relevance at oil-water interfaces.	Fanø	Mathias	KU	DK
ISA-16-1059	Angular resolved photoemission spectroscopy of surface-doped iron-based superconductor materials	Wiebe	Jens	Universität Hamburg	DE
ISA-16-1060	XPS studies of in situ synthesis of monolayer graphene on industrial grade stainless steel samples	Hornekær	Liv	IFA	DK
ISA-16-1061	Growth of periodic 2D heterostructures on Ir(111)	Hornekær	Liv	IFA	DK