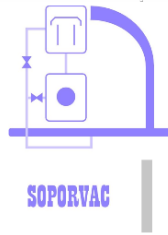




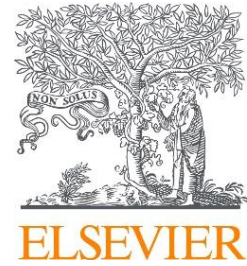
Scientific Programme

20TH INTERNATIONAL CONFERENCE ON SURFACE MODIFICATION OF
MATERIALS BY ION BEAMS

Lisbon, 9-14 th of July 2017



SOCIEDADE
PORTUGUESA
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Monday - July 10: Ion Beam Processing

08:30	Opening Cerimony by Professor Arlindo Oliveira, President of Instituto Superior Técnico, Universidade de Lisboa			
09:00	Session I Chair: William Weber	PL: Leonard Feldman (USA) - Modern Materials and Ion Beams		
09:45		I: André Vantomme (Belgium) - Tailoring the nickel silicide reaction mechanism and texture by ion implantation		
10:15		I: Jani Kotakoski (Austria) - Ion beam manipulation of graphene – from substitutional doping to amorphization		
10:45	Coffee-break			
11:15	Session IIa Chair: Flyura Djurabekova	O01: Ye Yuan (Germany)* Application of Ion Beams to Fabricate and Modify Properties of Dilute Ferromagnet	Session IIb Chair: Nathalie Moncoffre	O04: Jerome Leveueur (New Zealand) Synthesis of multi-compound magnetic nanomaterials with successive ion implantation
11:35		O02: Kenta Kakitani (Japan)* The interface between Platinum nanoparticle catalysts and an Ar+- irradiated carbon		O05: Marika Schleberger (Germany) Defect engineering in 2D materials by energetic ions
11:55		O03: Miguel Sequeira (Portugal)* Swift Heavy Ion Track Morphology in Gallium Nitride		O06: Alma Daultbekova (Kazakhstan) Synthesis of nanoprecipitates in SiO ₂ /Si track templates by electrochemical depositions
12:15	Lunch			
14:00	Session IIIa Chair: Kevin O'Donnell	I: Andrés Redondo-Cubero (Spain) Modulation of semiconductor surfaces and interfaces at the nanoscale: from patterning to intermixing	Session IIIb Chair: Bernd Rauschenbach	I: Tieshan Wang (China) Surface and sub-surface evolution of Hydrogen ion-implanted Tungsten correlating to ion energy, fluence and flux
14:30		O07: Andrzej Turos (Poland) Damage buildup in ion bombarded ZnO		O11: Kaushik Vaideeswaran (Switzerland) Multi-charged ion implantation of nitrogen in brass alloys for improved tribology
14:50		O08: Nabih Ben Sedrine (Portugal) Ion implantation for tailoring nitride semiconductor nanostructures Towards optoelectronics nanodevices		O12: Takuya Washihira (Japan) Composite divertor materials for nuclear fusion reactor
15:10		O09: Noriaki Matsunami (Japan) Modifications of WN _x O _y films by ion impact		O13: Marta Dias (Portugal)* Helium and deuterium irradiation effects in W-Ta composites produced by pulse plasma
15:30		O10: Adrian Kozanecki (Poland) Backscattering analysis of short period ZnO/MgO superlattices		O14: Valery Mikoushkin (Russia) Formation of a GaAs _{1-x} N _x nanolayer on the GaAs surface by low energy N ₂ ⁺ ion implantation
15:50	Coffee-break			
16:20	Session IVa Chair: Andrés Redondo-Cubero	O15: Alain Claverie (France) Effect of the order of He and H ion sequential Implantations on damage generation	Session IVb Chair: Andrzej Turos	O19: Joyful Mdhuli (South Africa)* Modification of ultra-pure type IIa Diamond Induced by proton irradiation
16:40		O16: Jie Lian (USA) Ion beam irradiation-induced polygonization and gas bubble formation of U ₃ Si ₂		O20: Tan Yang (China) Tailoring optical properties of atomically-thin WS ₂ via ion irradiation
17:00		O17: Erik Pollmann (Germany)* Ion induced growth of ultra thin molybdenum disulfide layers on highly oriented pyrolytic graphite		O21: Magdalena Krupska (Poland)* 1MeV Kr ⁺ ion irradiation induced intermixing in Fe ₃ O ₄ /MgO(001) and Fe ₃ O ₄ /Fe/MgO(001) thin films
17:20		O18: Kaviyarasu Kasinathan (South Africa) Structural, optical and magnetic properties of Fe implanted CeO ₂ nanocrystals		O22: Giuseppe D'Arrigo (Italy) Amorphous Ge ₂ Sb ₂ Te ₅ mechanical modification properties induced by Ge ions implantation

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Tuesday - July 11: Theory and Fundamentals

09:00	Session V	PL: William Weber (USA) - Functional Nanostructures in Ceramic Oxides using Ion Beams	
09:45	Chair: Leonard Feldman	I: Stefan Facsko (Germany) - Nanoscale surface patterning by non-equilibrium self-assembly of ion-induced vacuum	
10:15		I: Flyura Djurabekova (Finland) - Enhanced emission of Ag nanoclusters from a solid Ar matrix	
10:45	Coffee-break		
11:15	Session VIa	O23: Maurizio Dapor (Italy) - Role of the electron cloud polarization on the radial dose along proton tracks	Session VIb
11:35	Chair: Kai Nordlund	O24: Ezekiel Omotoso (South Africa) - Electrical characterization of deep level defects created by bombarding the n-type ⁴ H-SiC with 1.8 MeV proton irradiations	Chair: Yanwen Zhang
11:55		O25: Dong-Hai Zhang (China) - Fragmentation of carbon on elemental targets at 290 A/MeV	O26: Nathalie Moncoffre (France) - Effects of swift heavy ion irradiation on the structural modification of nuclear materials
12:15	Lunch		
			O27: Guanghua Du (China) - Ion Transportation and charge inversion in single conical nanopores
			O28: Isabelle Monnet (France) - From surface to bulk modifications under swift heavy ion irradiation of insulating material

Tuesday - July 11: Nano Science & Technology

14:00	Session VIIa Chair: Stefan Facsko	I-07: Vladimir Ovchinnikov (Russia) - On the role of nanoscale dynamic effects under cascade-forming irradiation	Session VIIb Chair: Wolfgang Ensinger	I-08: Jeroen van Kan (Singapore) - Ion source development for nuclear microscopes: the road map towards single digit nanometer spot sizes
14:30		O-29: Kai Nordlund (Finland) - Molecular dynamics simulations of antiproton transmission through energy degrading		O-33: Justine Renaud (France)* - Focused ion beam technique for controlled fabrication of nitrogen vacancy center
14:50		O-30: Stephan Mändl (Germany) - Dynamic evolution of secondary electron emission during ion bombardment		O-34: Daryush Ila (USA) - Ion beam assisted production of high volume fraction quantum dots
15:10		O-31: Pengfei Wang (China)* - Ultrafast and highly selective alkali metal ionic transport through polymer film with latent tracks		O-35: Wolfgang Skorupa (Germany) - Ion beam based methods for materials research and investigation of pipe organ materials
15:30		O-32: Nikolay Sobolev (Russia) - Defect engineering in the technology of Si-based emitting diodes with luminescence		O-36: Yanwen Zhang (USA) - Structural modification of concentrated solid-solution alloys using ion beams
15:50	Moderators: Katharina Lorenz & Kevin O'Donnell	Poster Session I-SA: Ion Beam Processing		
19:30	International Committee Meeting			

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Wednesday - July 12: Biomedical and Applications

09:00	Session VIII Chair: Inigo Braceras	PL-03: Giovanni Marletta (Italy) - Ion beams for nanomedicine: driving biosystem at nanostructured interfaces		
09:45		I-09: Paul Chu (China) - Plasma surface modification of biomaterials		
10:15		I-10: Noriaki Toyoda (Japan) - Enhancement of cell adhesion on PEEK with gas cluster ion beam irradiation		
10:45	Coffee-break			
11:15	Session IXa Chair: Paul Chu	O-37: L.D. Yu (Thailand) - Ultra-low-energy C-ion beam modification effect on DNA cooperated with Geant4-DNA	Session IXb Chair: João Cruz	O-40: Rantej Bali (Germany) - Ion induced magnetic phase transitions in B2 alloys
11:35		O-38: Emel Sokullu (Turkey) - Surface characterization and bioactivity behavior of gold implanted poly(L-lactose)		O-41: Sérgio Magalhães (Portugal)* - Crystal damage analysis of Ar implanted Al _{1-x} GaxN (0≤x≤1) by X-ray diffraction
11:55		O-39: Wolfgang Ensinger (Germany) - Sputtering of nanostructured silver coatings for the preparation of Ag-containing DLC		O-42: Jinglai Duan (China) - Sharp nanoridge boosted cascaded optical field enhancement in nanopillar-nanogroove plasmonic hierarchical architecture for quantitative and ultrasensitive SERS detection
12:15	Lunch			
14:00-23:00	Social Program and Banquet			

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Thursday - July 13: Ion Beam and Plasma Processing

09:00	Session X	PL-04: Ronghua Wei (USA) - Overview of plasma surface engineering research at Southwest Research Institute			
09:45	Chair: Eduardo Alves	I-11: Marek Rubel (Sweden) - Ion beam techniques in studies of the modification of wall materials in controlled fusion devices			
10:15		I-12: Xiubo Tian (China) - High pulsed current glow or arc discharge for plasma based surface engineering			
10:45	Coffee-break				
11:15	Session Xla	O-43: Bernd Rauschenbach (Germany) - Sculptured thin films by low energy ion beam sputtering	Chair: Krish Bharuth-Ram	O-46: Trevor Derry (South Africa) - Allotrope conversion and surface hardness increase in ion implanted boron nitride	
11:35	Chair: Ronghua Wei	Oral44: Marc Veillerot (France) - Modifications of meso-porous silicon under different ion beams used for SIMS analysis		O-47: Darina Manova (Germany) - High current nitrogen ion implantation into austenitic stainless steel	
11:55		O-45: Marco Peres (Portugal) - <i>In-situ</i> optical and electrical characterisation of β -Ga ₂ O ₃ during proton irradiation		O-48: Yoshihito Tsukagoshi (Japan) - Effects of ion bombardment on internal stress of sputtered thin films	
12:15	Lunch				
14:00	Session Xlla	I-13: Stéphanie Pellegrino (France) - JANNUS at Saclay-Orsay, France, a multi-accelerators facility for materials irradiation	Chair: Marek Rubel	I-14: Mario Ueda (Brazil) - Recent experiments on plasma immersion ion implantation (and deposition) using discharges inside metal tubes	
14:30		O-49: Philipp Schumacher (Germany) - Ion-beam assisted deposition using ion mass and ion energy selective hyperthermal nitrogen ions		O-53: Luc Pichon (France) - Plasma based ion implantation of nitrogen in Ni-based superalloy Haynes@230	
14:50		Chair: Xiubo Tian		O-50: Miki Shinooka (Japan) - Effects of excess energy on thin film formation of Fe based alloy	O-54: Iñigo Braceras (Spain) - Corrosion preserving high density plasma treatment of precipitation hardening steel
15:10		O-51: Julien Idé (Belgium) - Glass properties enhancement by means of ion implantation: a theoretical study		O-57: Chunzhi Gong (China) - Effect of ignition pulse on microstructure and properties of CrN films using double pulse discharge	
15:30		O-52: Mohamed El Bouanani (USA) - Interplay between Ar sputtering and surface chemistry: work function modification		O-56: Gennady Remnev (Russia) - Effect of intense ion irradiation on the microstructure, mechanical and optical properties of Al-Si-N films	
15:50-18:30	Moderators: Eduardo Alves & André Vantomme	Poster Session II-SB: Other Topics			

Friday - July 14: Nano Science and Technology

09:00	Session XIII	PL-05: David Jamieson (Australia) - Quantum computer devices built from shallow implanted single atoms		
09:45	Chair: André Vantomme	I-15: Kevin O'Donnell (UK) - Hysteretic photochromic switching of Eu-Mg defects in gallium nitride-reflections on a classical qubit		
10:15	Coffee-break			
10:40	Session XIVa Chair: Daryush Ila	I-16: Jerome Leveueur (New Zealand) - Structural and chemical changes of cellulose and nano-cellulose under ion implantations	Session XIVb Chair: Katharina Lorenz	I-17: Aliz Simon (Austria) - Cross-cutting materials science coordinated by the IAEA
11:10		O-57: Robert Harrison (UK) - A new in-situ dual ion beam system for investigation of ion implantation and damage		O-60: Kulik Miroslaw (Russia) - Dielectric functions in near region E1 and E1+Δ of CP and chemical composition
11:30		O-58: Vladimir Uglov (Belarus) - Compression plasma flows generated by quasi-stationary plasma accelerators		O-61: Jerzy Zuk (Poland) - Structure and optical properties of SiO ₂ films with ZnSe nanocrystals formed by ion implantations
11:50		O-59: Pawel Horodek (Russia) - Application of positron annihilation spectroscopy in investigations of the long range effect		O-62: Micaela Fonseca (Portugal) - Aluminium depth profiling in implanted AlGaN alloys
12:10-12:30	Closing Remarks			

POSTER SESSION I-A: Tuesday 11 July 2017 (15:50-18:30)

Session	First Name	Last Name	Poster Title	ABS
SA-P01*	Adéla	Jagerová	Damage accumulation and structural modification in various GaN crystallographic orientation	51
SA-P02	Alexander	Suvorov	Experimental studies of channeling implantation of Al ions into ⁴ H-SiC	186
SA-P03*	Alexei	Shestakov	The oscillations of magnetization and derivative of microwave absorption in Hg _{0.76} Cd _{0.24} Te implanted with Ag ⁺ ions	129
SA-P04*	Alexey	Shevelev	Joint influence of steered vacuum arc and negative repetitively pulsed bias on titanium nanoparticle assembling	71
SA-P05*	André	Ruza	Implantation in copper based high entropy alloys	216
SA-P06	Bruno	Teixeira	Tuning the magnetic anisotropy in perpendicular magnetic tunnel junctions by means of ion implantation	145
SA-P07*	Daniela	Pereira	Electrical and structural characterization of molybdenum oxide lamellar crystals	88
SA-P08	Danil	Ignatov	Low-energy immersion ion-plasma nitriding in the plasma of non-self-sustained arc discharge with hot filament and hollow cathodes	74
SA-P09	Debasree	Chowdhury	Nanostructuring of semiconductor surfaces with sputter-threshold energy Ar ⁺ ion irradiation	134
SA-P10	Der-Sheng	Chao	Effects of He-ion energy on blistering characteristics in H/He and He/H Co-implanted Si	33
SA-P11	Dilnoza	Tashmukhamedova	Electronic structure of nanoscale structures are created on the basis of silicon	142
SA-P12*	Djibril Ndiack	Faye	Structural and optical characterization of praseodymium doped GaN nanowires and thin films	89
SA-P13	Elnar	Imametdinov	Modification of surface graphite by nitrogen and argon plasma on air	97
SA-P14	Haowen	Zhong	The influence of grain size to the surface modification of intense pulsed ion beam treatment	127
SA-P15	Hiroshi	Koshikawa	Preparation of conductive layer on polyimide ion-track membrane by Ar ion implantation	210
SA-P16	Jakub	Ossowski	Molecule-metal interface stability revealed by static SIMS	212
SA-P17	João	Cruz	Very high fluence nitrogen implantations in metals and the deficiency method	135
SA-P18	Katarzyna	Olejniczak	The uniformity of electrical properties of asymmetric track-etched single nanopores	207
SA-P19	Kevin	Homewood	Band edge modified rare earths implanted in silicon for mid-infrared photodetectors	63
SA-P20	Kingo	Azuma	A plasma based ion implantation in aluminum plasma generated by high-power pulse	159
SA-P21	Koumei	Baba	Preparation of Fluorine and iodine containing diamond-like carbon films by PSII, based on trifluoriodomethane	58
SA-P22	Krishanlal	Bharuth-Ram	Morphological changes in embedded Fe clusters in MgO following swift heavy ion irradiation	198
SA-P23	L.D.	Yu	Ion beam gem-technology	29
SA-P24	Magdalena	Krupska	Surface stability of Fe, Pd and (Fe,Pd) films grown on Si substrates	101
SA-P25	Manon	Lourenco	Silicon light emitting diodes made by rare earth ion implantation	64
SA-P26*	Maria	Fialho	Implantation temperature study of Al _x Ga _{1-x} N films grown by MOCVD	217
SA-P27	Mariapompea	Cutroneo	Direct patterning on graphene oxide using ion beam lithography	116
SA-P28	Mario	Ueda	Results of measurements of morphology, microstructure and nanoindentation in samples subjected to plasma immersion ion implantation inside metal tubes	96
SA-P29	Michail	Zhidkov	Pulsed ion beam induced changes in a topography of the surface layers of titanium	98
SA-P30	Mohamed	El Bouanani	Ion irradiation and thermal processing for controlled crystallization of Ruthenium and hafnium silicates based thin films and their properties	223
SA-P31	Nabiha	Ben Sedrine	ZnO nanoripples produced by medium energy ion beam sputtering: damage and roughness evolution	118
SA-P32*	Norberto	Catarino	Helium and deuterium irradiation effects in tungsten-based alloys with Titanium	62
SA-P33	Omar	El Bounagui	Monte Carlo simulations of electronic energy loss of the heavy ions in polymers	160
SA-P34	Pavol	Noga	Synthesis of Al ₆₄ Cu ₂₀ Co ₁₆ complex metallic alloy thin films aided by MeV ion beam annealing	125
SA-P35	Petr	Malinsky	Graphene oxide layers modified by helium energetic ions	111
SA-P36*	R.E.	Rojas-Hernandez	Optical properties of titania and aluminosilicate glass films doped with Er and Yb	225
SA-P37	Rodrigo	Mateus	Helium load on W-O coatings using multiple implantation stages	154
SA-P38*	Romana	Mikšová	A structural study and ion irradiation of the silicon crystal layer	50
SA-P39	Rui	Martins	Ni-Ti alloy surface modification by plasma immersion ion implantation: superelasticity	80

SA-P40	Sagar	Sen	Influence of swift heavy ions on the optical and electronic properties of Cr doped TiO ₂ thin film prepared by pulsed laser deposition technique	231
SA-P41*	Samira	Ourlabah	Effective charge parameter for Li and O ions in aluminum, silver, gold, polypropylene and makrofol foils	38
SA-P42	Sergei	Ghyngazov	Ion processing of alumina ceramics by high-power pulsed beams	20
SA-P43	Setsuo	Nakao	Effects of source gases on microstructure of diamond-like carbon films prepared by plasma based ion implantation and deposition	130
SA-P44	Shengqiang	Zhou	Turn on/off the high-temperature ferromagnetism in Si _{1-x} Mn _x thin films through Mn-ion implantation	25
SA-P45	Solmaz	Mustafaeva	X-ray conductivity of AgGaS ₂ single crystals	106
SA-P46	Stefan	Facsko	Self-organized semiconductor surface patterning of pure and compound semiconductors	141
SA-P47	Takaomi	Matsutani	Surface modification of triacetylcellulose by nitrogen ion for diaphragm of environmental cell transmission electron microscope	104
SA-P48	Tohru	Nakamura	Homogeneity evaluation in Mg implanted GaN Layer by on-wafer measured diode forward diode current mapping	47
SA-P49	Vladimir	Ovchinnikov	Computer 3D analysis of the field ion microscopy images of platinum irradiated with Ar ⁺ ions (E = 30 keV)	119
SA-P50	Valery	Mikoushkin	Modification of the GaAs native oxide surface layer into the layer of the Ga ₂ O ₃	187
SA-P51	Valery	Mikoushkin	Formation of a p-Layer on the GaAs surface by an Ar ⁺ ion beam	188
SA-P52	Vladimir	Kozlov	Characterization of surface layers created in silicon diode structures by argon	17
SA-P53	Wolfgang	Ensinger	Ion beam sputter deposition of nanofilms onto rings and tubes for corrosion protection	46
SA-P54	Xiaoyun	Le	Lattice damage and strain in RbTiOPO ₄ crystals induced by carbon ion implantation	107
SA-P55	Yoshihiro	Oka	Preparation of colloidal Ag nanoparticle solution by cavitation bubble plasma sputtering	202
SA-P56	Yoshikazu	Teranishi	Effect of ion implantation on ceramics materials	208
SA-P57	Yu	Xiao	Microstructure evolution on surface morphology of metallic material under intense pulsed ion beam irradiation	110
SA-P58	Yuhong	Li	Redox response of Lu _{2-x} C _x Ti ₂ O ₇ pyrochlores under irradiation	3
SA-P59	Yuki	Torita	Rutherford backscattering study on high dose Mg-ion implanted GaN bulk single crystal	70
SA-P60	Yury	Danilov	Ion-dose dependence of laser annealing effects for Mn ⁺ -Implanted GaAs	136
SA-P61	Yutaka	Inouchi	Brittleness modification of synthetic quartz glass surface by ion beams	126
SA-62	Cédric	Mastail	Influence of deposition parameters on the Tilt-angle of TiN nano-columns grown at oblique angle deposition: kMC simulations vs. experiments	200

POSTER SESSION II-B: Thursday 13 July 2017 (15:50-18:30)

Session	First Name	Last Name	Poster Title	ABS
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SB-P02	Alexander	Ryabchikov	High intensity, low ion energy implantation of nitrogen in AISI 5140 alloy steel	72
SB-P03	Alma	Dauletbekova	Depth profiles of aggregate centers and nanodefects in LiF crystals irradiated with MeV energy Kr, Ar and C ions	100
SB-P04	Amir Hoshang	Ramezani	The effects of nitrogen on the structure, morphology and electrical resistivity of the tantalum	1
SB-P05*	Anastasiia	Bakaeva	Surface microstructure and trapping after high flux He-D plasma exposure of tungsten	16
SB-P06	Andrii	Dubinko	Characterization of microstructure and nano-hardness of ITER specification tungsten under annealing up to 1800 °C	124
SB-P07	Cheng	Jin-Xia	The odd-even effect of fragmentation cross sections for ³⁶ Ar and ⁴⁰ Ar	44
SB-P08	Hugo	Silva	Study of implanted and evaporated targets for elastic cross section measurements	209
SB-P09	Ishmumin	Yadgarov	Influence of graphene vacancies and divacancies on sputtering of graphene	105
SB-P10	Jean-Gabriel	Mattei	Structural and chemical investigations of III-N semiconductor, InGaN/GaN quantum	196
SB-P11	Jie	Liu	Swift heavy ions induced surface modification analysed by AFM and Raman	83
SB-P12	Johan	Malherbe	Ion bombardment of carbons	40
SB-P13	Nurken	Aktaev	Thermo elastic tension formation in a sample under the action of high-intensity ion beam	206
SB-P14	Saphina	Biira	Effect of chemical vapour deposition parameters on the growth and structure of ZrC coatings	220
SB-P15	Shengxia	Zhang	Stability of swift heavy ion induced latent tracks in muscovite mica under TEM investigations	85

SB-P16*	Tie-Jun	Wang	Swift heavy ion-irradiation on Ce:Lu ₂ SiO ₅ crystals: near-surface structure	109
SB-P17	Tobias	Stohr	Ion beam induced degradation of ionoluminescent oxides and nitrides used for beam monitoring	192
SB-P18	Victor	Bernstein	Molecular dynamics study of ultrafast thermalization of the subsurface excitation volume following keV collision of C ₆₀ ⁻ with a Au(001) target	197
SB-P19	Victoria	Golovchuk	Transition from insulating-to-metallic conductivity in near-surface layer of zinc oxide	15
SB-P20	Vladislav	Medvedev	Low energy, high intensity metal ion implantation method for deep dopant containing layers formation	73
SB-P21	Andrii	Leonovych	Biocompatibility of Zr covering for medical prosthetist provided by plasma deposition	221
SB-P22	Emel	Sokullu	Ion beam modified chitosan membranes for tissue engineering	190
SB-P23	Iñigo	Braceras	Plasma nitriding of the inner surface of stainless steel pipes	144
SB-P24	Iñigo	Braceras	Active screen plasma treatment of ⁴² CrMo ₄ (AISI 4140) and tribo-corrosion performance	161
SB-P25	Andrzej	Olejniczak	Localized reduction of graphene oxide by swift heavy-ion irradiation	184
SB-P26	Chibu	Umerah	Optical properties of Infrasil silica after implantation by localized high fluence MeV Au and MeV Ag ions	68
SB-P27	Denise	Erb	Bottom-up fabrication of periodic nanostructure arrays based on reverse epitaxy	42
SB-P28*	Dirkjan	Verheij	Radiation detectors based on GaN microwires	169
SB-P29	Giuseppe	D'Arrigo	Monitoring of mechanical modification properties induced by Ge ions implantation on stoichiometric Ge ₂ Sb ₂ Te ₅	183
SB-P30	Hoje	Kwon	Preparation of TiO ₂ coated carbon nanotube-based electrode for energy storage	65
SB-P31	Hoje	Kwon	NiO-coated graphite sheets with hierarchical and porous structures	147
SB-P32	Jerome	Leveneuer	Synthesis of multi-compound magnetic nanomaterials with successive ion implantation	204
SB-P33	Jianrong	Sun	Structural changes and defects evolution in Ti ₃ AlC ₂ induced by self-ion irradiation	94
SB-P34	Jianrong	Sun	Effects of swift heavy ion irradiation in a FeSiNbZrB amorphous alloy	95
SB-P35*	Leandro	Tanure	Nano-hardness and electron backscatter diffraction analysis of ultra-fine grain tungsten	87
SB-P36	Lukasz	Kurpaska	Functional properties of Ar-ion modified single-crystals of YSZ	35
SB-P37	Lukasz	Kurpaska	Influence of consolidation process on functional properties of steels	137
SB-P38	Miao	Zhang	Strained bubbles on germanium induced by hydrogen ion implantation	49
SB-P39	Pawel	Horodek	Positron beam studies of radiation damage induced by heavy ions in iron	24
SB-P40	Shuyi	Ma	The preparation of α-Fe ₂ O ₃ hollow spheres and its gas sensing properties	81
SB-P41*	Thabsile	Thabethe	The surface structural modification of W deposited on 6H-SiC due to annealing in Argon, Hydrogen and vacuum using AFM technique	164
SB-P42*	Torsten	Walbert	Ion track-etched polymers as templates for electroless fabrication of metal nanotube arrays	191
SB-P43	Victoria	Corregidor	Ion beams to study mixed cation/mixed halide perovskite layers	168
SB-P44	Vladimir	Uglov	Blister formation in ZrN/SiN multilayers after He irradiation	26
SB-P45	Vladimir	Uglov	Features of microstructure of zirconium and silicon nitrides multilayers irradiation by xenon ions	27
SB-P46	Wang	Xue-Lin	Effects of MeV Cu ⁺ ion irradiation on MoSe ₂ nanostructure	53
SB-P47*	Giovanni	Ceccio	Ion energy distribution from laser-generated plasma at 10 ¹⁰ W/cm ²	123
SB-P48	Gregoire	Chene	Radiation tests for space-dedicated materials at Liege SANA Ion Beam Facility	226
SB-P49	Guangfu	Wang	Setups of ion beam induced luminescence in Beijing Normal University and their applications for ion irradiation effects study	112
SB-P50*	Hélio	Luis	Micro-AMS analysis of low dose Pt implantation in Si	121
SB-P51	Roger	Webb	SIMPE - Single Ion Multispecies Positioning at Low Energy - a single ion implanter for quantum technologies	156
SB-P52	Steven	Jepeal	Exploration of the use of intermediate energy light ion beams for the study of reactors	148

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