

Posters

8th international conference Solid state surfaces and interfaces
25-28 November 2013, Smolenice Castle, Slovakia

1	Ait Djafer Amina Zouina	Optical and electrical properties of TiC coatings deposited by RF magnetron sputtering	UMBB, Algeria
2	Arabi Nour El Houda	Influence of annealing temperature on optical and structural properties of sol gel TiO ₂ thin films	Ecole préparatoire aux sciences et technique d'Annaba, Algeria
3	Štefan Beňačka	Properties of superconducting YBa ₂ Cu ₃ O ₇ and ferromagnetic La _{0.7} Sr _{0.3} MnO ₃ single layer thin films and YBa ₂ Cu ₃ O ₇ /La _{0.7} Sr _{0.3} MnO ₃ bilayer thin films and nanostrips	Institute of Electrical Engineering, SAS, Bratislava, Slovak Republic
4	Bohumil Bohunicky	KVANT spol. s r.o. Company presentation	FMFI UK Bratislava, Slovakia
5	Boukezzata Assia	Title will be formulated later	Research center in Technology of the Semiconductors for Energetic (C.R.T.S.E), Algiers, Algeria
6	Gabriel Cibira	Photovoltaic module parameters acquisition using Matlab® modelling	University of Žilina, Liptovský Mikuláš, Slovakia
7	Dinara Dallaeva	AFM imaging and fractal analysis of surface roughness of AlN epilayer on sapphire substrate	Brno University of Technology, FEKT, Brno, Czech Republic
8	Aleksandra Drygala	Characterization of laser textured surface for solar cells	Institute of Engineering Materials and Biomaterials, Silesian University of Technology, Gliwice, Poland
9	Milan Držík	Effect of ZnO passivation layer on piezoelectric properties of AlGaN	International Laser Centre, Bratislava, Slovakia
10	František Dubecký	M/SI-GaAs/M devices: Contact chemistry and electronic transport	IEE SAS, Bratislava, Slovakia
11	Medi El Mahdi	Optimum conditions of Pegylation of mesoporous P-type silicon as function of temperature and pH	Faculté de Physique of USTHB, Alger, Algérie
12	Farida Hamadi	Effect of Pulsed Laser- Titanium interaction on the composition of the formed oxide layers	CDTA, Laser Material processing, Algiers, Algeria
13	Farida Hamadi	3D Modeling of kerf front movements during laser cutting	CDTA, Laser Material processing, Algiers, Algeria
14	Sona Flickyngerova	Nanostructured Ultra-Thin Films of Gold Prepared by Sputtering	Institute of Electronics and Photonics, Slovak University of Technology, Bratislava, Slovakia

15	Kinga Freindl	Oxygen adsorption on Fe(110) revisited	Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Kraków, Poland
16	<u>Maroš Gregor</u>	Influence of MgO surface layer on superconducting properties of MgB ₂ thin films.s	Faculty of mathematics, physics and informatics, Comenius University, Bratislava, Slovakia
17	Ján Greguš	Defect states and the UV band shift in annealed ZnO films	Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia
18	Noubeil Guermat	Modeling and Experimental Study of The Hexamethyldisiloxane Thin Film For Humidity Sensors	Département d'Electronique, Faculté de Technologie, Université de M'sila, Algérie
19	Brahimi Hakim	Study of the effect of the annealing temperature of the green luminescence of ZnO thin films.	Centre de Recherche Nucléaire d'Alger; Alger, ALGERIA
20	Ladislav Harmatha	Capacitance properties and simulation of AlGa _N /Ga _N Schottky heterostructure	Slovak University of Technology in Bratislava, Faculty of Electrical Engineering and Information Technology, Institute of Electronics and Photonics, Slovakia
21	Jaroslava Škriniarová	Structural Properties of ZnO Thin Films Deposited on GaP Nanowires by Magnetron Sputtering	Inst. of Electronics and Photonics, Slovak University of Technology, Bratislava, Slovakia
22	Hitoum Nabil	Simulation model for surface potential decay of corona-charged medical polymers	University Constantine 1, Microsystems and Instrumentation Laboratory (LMI), Electronic Department, Constantine, Algeria
23	Zs. J. Horváth	Evaluation of memory hysteresis of non-volatile structures	Óbuda University, Kandó Kálmán Faculty of Electrical Engineering, Institute of Microelectronics and Technology, Budapest, Hungary
24	Ivan Hotovy	Patterning of titanium oxide surfaces using electron beam lithography and dry etching for gas sensing applications	Institute of Electronics and Photonics, Slovak University of Technology, Bratislava, Slovakia
26	Jozef Huran	Structural characterization of PECVD amorphous silicon carbide thin films heavily irradiated with neutrons	Institute of Electrical Engineering, Slovak Academy of Sciences, Bratislava, Slovakia

27	Byeong-Kwon Ju	SF6/CHF3 plasma treated nano-scale random pattern for enhanced light extraction in organic light-emitting diodes	Display and Nanosystem Laboratory, College of Engineering, Korea University and the Institute of High Technology Materials and Devices, Korea University, Republic of Korea
28	Heike Angermann	Texturization and passivation of crystalline silicon substrates for photovoltaic applications	1) HTW Berlin - University of Applied Sciences, Berlin, Germany 2) Helmholtz Center Berlin for Materials and Energy (HZB), Berlin, Germany
29	Peter Jančovič	Resistive switching in HfO ₂ -based metal-insulator-metal structures	Institute of Electrical Engineering, Slovak Academy of Sciences, Bratislava, Slovakia
30	Jie Li	Proximity effect in bi-layer Yba ₂ Cu ₃ O ₇ -delta and La _{0.67} Ca _{0.33} MnO ₃ grown on SiTiO ₃ (110)	Institute of Physics, The Chinese Academy of Sciences, Beijing National Laboratory for Condensed Matter Physics, Beijing, China
31	Lasmi Kahina	Fabrication of sub-micron pyramid arrays by electrochemical etching	Centre de Recherche en Technologie des Semi-conducteurs pour l'Energétique,(CRTSE), Alger, Algeria
32	Marián Varga	Diamond growth on copper rods from polymer composite nanofibers	Institute of Physics of the ASCR, v.v.i., Prague, Czech Republic
33	Andrii Klimov	Superconductor/Ferromagnet Bilayers NbN/NiCu and NbTiN/NiCu for nanostructured single photon detectors.	Institute of Electron Technology, Warsaw, Poland
34	Martin Kopáni	IR spectroscopy of HfO ₂ /SiO ₂ /Si structures	Faculty of Medicine, Comenius University, Bratislava, Slovakia
35	Ivan Košč	Double layer films based on TiO ₂ and NiOx for gas detection	Slovak University of Technology, Faculty of Electrical Engineering and Information Technology, Bratislava, Slovakia
36	Mário Kotlár	The layers of carbon nanomaterials as the base of Ohmic contacts to p-GaN	Institute of Electronics and Photonics, Slovak University of Technology, Bratislava, Slovakia
37	Agáta Laurenčíková	Formation of Au seeds for GaP nanowires growth by different methods	Institute of Electrical Engineering of SAS, Bratislava, Slovakia
38	Hyun Jun Lee	The effect of composite nanofiber layer base on Polyacrylonitrile with SU-8 for light out coupling enhancement.	Innovation Building, Korea University Natural and Science Campus,Seongbuk-Gu, SEOUL, Republic of Korea

39	Jie Li	Proximity effect in bilayers of YBa ₂ Cu ₃ O _{7-δ} and La _{0.67} Ca _{0.33} MnO ₃ grown on SrTiO ₃ (110) substrate	Institute of Physics, The Chinese Academy of Sciences, Beijing National Laboratory for Condensed Matter Physics, Beijing, China
40	Krzysztof Lukaszewicz	Characteristics of CrAlSiN+DLC coating deposited by lateral rotating cathode arc PVD and PACVD process	Institute of Engineering Materials and Biomaterials, Silesian University of Technology, Gliwice, Poland
41	Madaoui Noureddine	Structural, mechanical and electrochemical comparison of TiN and TiCN coatings on XC48 steel substrates in salt water	Division Milieux Ionisés, Centre de Développement des Technologies Avancées CDTA, Alger, Algérie
42	El-Mahdi Media	Optimum conditions of pegylation of mesoporous P-type silicon as function of temperature and pH	Faculté de Physique USTHB, Alger Algérie
44	Marian Marton	DEPOSITION OF BORON DOPED DIAMOND THIN FILMS AND VARIOUS CARBON NANOMATERIALS ON GRAPHITE FOAM BY HFCVD	Faculty of Electrical Engineering and Information Technology, SUT Bratislava, Slovak Republic
45	Pavol Michniak	EFFECT OF HFCVD DEPOSITION CONDITIONS ON THE MORPHOLOGY AND STRUCTURE OF CARBON NANOWALL THIN FILMS	Faculty of Electrical Engineering and Information Technology, SUT, Bratislava, Slovak Republic
46	Miroslav Mikolášek	Capacitance study of inversion at the amorphous/crystalline silicon heterojunction passivated by different thicknesses of i-layer	Institute of Electronics and Photonics, Slovak University of Technology, Bratislava, Slovakia
47	Miroslav Mikolášek	Suppression of the interface recombination by implanted buffer layer for back contacted silicon heterojunction solar cells	Institute of Electronics and Photonics, Slovak University of Technology, Bratislava, Slovakia
48	Milan Mikula	Dye-Sensitized Solar Cells Based on Nano-Oxides on Plastic PET Substrate	Department of Printing Arts Technology and Photochemistry IPM, Faculty of Chemical and Food Technology and Department of Microelectronic, Faculty of Electronics and Informatics SUT, Bratislava, Slovakia
49	Vadym Mitin	Structure, surface morphology, intrinsic stresses, electrical and optical properties of Ge/GaAs(100) thin films	V.Lashkaryov Institute of Semiconductor Physics, National Academy of Sciences of Ukraine, Kyiv, Ukraine

50	Marián Molnár	Simulation study of interface traps and bulk traps in the n++ GaN/InAlN/GaN High electron mobility transistor	Institute of Electronics and Photonics, Slovak University of Technology in Bratislava, Slovakia
51	Ratiba Outemzabet	Reflectance modelling of electrochemically P type porosified silicon by Drude-Lorentz model	Université des Sciences et de la Technologie Houari Boumedienne, Faculté de Physique, Laboratoire des Matériaux Semiconducteurs et Oxydes métalliques, Alger Algérie
52	J. Pavelka	Noise sources in interface between mono-crystalline and amorphous semiconductors	CEITEC, Brno University of Technology, Brno, Czech Republic
53	Stanislav Pecko	German irradiated and hydrogen implantation damaged reactor pressure vessel steels from positron annihilation spectroscopy point of view	Institute of Nuclear and Physical Engineering, SUT, Slovakia
54	Milan Perný	Amorphous SiC Thin Films Prepared at Different Temperatures for PV Applications	Faculty of Electrical Engineering and Information Technology Bratislava, Slovakia
55	Milan Perný	Electric characterization of bulk organic solar cell in the dark and under illumination	Faculty of Electrical Engineering and Information Technology Bratislava, Slovakia
57	Štěpán Potocký	Transformation of polymer composite nanofibers to diamond fibres and layers by microwave plasma-enhanced CVD process	Institute of Physics, Academy of Science of the Czech Republic, Czech Republic
58	Martin Predanocý	Structural evolution of sputtered nickel oxide thin films and their application for gas detection	Institute of Electronics and Photonics, SUT Bratislava, Slovakia
59	Vilmos Rakovics	Near infrared luminescence of CdS:Cu thin films prepared by chemical bath deposition	HAS, Research Centre for Natural Sciences, Institute for Technical Physics and Materials Science, H-1025 Budapest, Hungary
60	István Réti	Near infrared luminescence of CdS:Cu thin films prepared by chemical bath deposition	Institute of Technical Physics and Materials Science, Research Center for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary
61	Tomáš Roch	Influence of ex-situ annealing on structure, texture and morphology of TiO ₂ thin films with Pt interlayer grown on sapphire substrates	Department of Experimental Physics, Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava, Slovakia
62	Jaroslav Rusnák	Advanced equipment for measurements of solar cell parameters	Institute of Physics SAS, Bratislava, Slovakia

63	Benzeghda Sabah	Three-Dimensional simulation of AlGaN MSM ultraviolet Photodetectors	Department of Electronics, University Mentouri Constantine Route Ain El Bey, Algeria
64	Veronika Sabelová	Near-surface investigation of implanted iron – chromium alloys using positron annihilation spectroscopy and nanoindentation technique	Faculty of Electrical Engineering and Information Technology, Institute of Nuclear and Physical Engineering, Bratislava, Slovakia
65	Nadia Saoula	Characterization of TiN, TiC and TiCN coatings deposited by magnetron sputtering deposition technique	Centre de Developpement des Technologies Avancees, Alger, Algerie
66	Alexander Šatka	Electron beam induced current near planar Schottky nano-contact	SUT, FEEIT, Bratislava, Slovakia
67	Leonid Satrapinaskyy	Preparation and characterization of hydrogen gas sensor based on a single TiO ₂ nanotube	Department of Experimental Physics, FMPI Comenius University, Bratislava, Slovak Republic
68	Libor Ladányi	STUDIES ON THE INFLUENCE OF NON-IDEAL INTERFACES ON TRANSFER CHARACTERISTICS OF MULTILAYER SOLAR CELLS	Institute of Aurel Stodola of ŽU, Liptovský Mikuláš, Slovak Republic
69	Lubomír Scholtz	Influence of interfacial roughness on optical characteristics of thin-film wavelength blocking filters for passive optical networks	Institute of Aurel Stodola of ŽU, Liptovský Mikuláš, Slovak Republic
70	Dana Skácelová	Modification of (111) and (100) silicon in atmospheric pressure plasma	Department of Physical Electronics, Faculty of Science, Masaryk University Brno, Czech Republic
71	Smaali-Lafane Assia	Properties of ZnO and ZnO:V Thin Films Deposited on Silicon Substrate by Pulsed Laser Ablation	Division Milieux Ionisés Centre de Développement des Technologies Avancées (CDTA) Alger, ALGERIE
72	Stanislav Sojak	Study of ions implanted Fe-Cr alloys with application of positron annihilation spectroscopy	Institute of Nuclear and Physical Engineering, Faculty of Electrical Engineering and Information Technology, SUT Bratislava, Slovakia
73	Michaela Sojkova	New way of TI-based films patterning	Institute of Electrical Engineering SAS, Bratislava, Slovak Republic
74	Nika Spiridis	Au(111) films on W(110) – reconstruction, dislocations and adsorption of Co and Ag	Jerzy Haber Institute of Catalysis & Surface Chemistry, Polish Academy of Sciences, Krakow, Poland

75	Vladimír Štrbík	Correlation of electrical and magnetic properties above 400 K in epitaxial LSMO thin films	Institute of Electrical Engineering, Slovak Academy of Sciences, Bratislava, Slovakia
76	Razika TALA-IGHIL	ZnO thin layers for photovoltaic application	Université M'hamed Bougara UMBB Institute of electrical & electronic engineering Unité de recherche matériaux pour l'environnement Boumerdes, ALGERIA
77	Jana Šimeg Veterníková	Surface study of radiation damaged oxide dispersion strengthened steels	Institute of Nuclear and Physical Engineering, FEII SUT Bratislava, Slovakia
78	Andrej Vincze	Effect of ZnO passivation layer on piezoelectric properties of AlGaIn/GaN	International Laser Centre, Bratislava, Slovakia
79	Marian Vojs	Characterization of nitrogen doped diamond films deposited by pulsed linear antenna microwave plasma chemical vapor deposition from H ₂ /CH ₄ /CO ₂ /N ₂ gas chemistry	Faculty of Electrical Engineering and Information Technology, SUT, Bratislava, Slovakia
80	Youn-Yeol Yu	Plasma treated graphene oxide as a hole transport layer in organic solar cells	Display and Nanosystem Laboratory College of Engineering, Korea University, Seoul, Republic of Korea
81	Lukasz Zarodkiewicz	COMEF Scientific and Research Equipment – company presentation	Poland
82	Martin Žemlička	Superconducting properties of Magnesium Diboride Thin Film Measured By Using Coplanar Waveguide Resonator	FMPI of Comenius University, Bratislava, Slovakia
83	Robert Brunner	Photoluminescence of a-Si:H	Institute of Physics SAS, Bratislava, Slovakia
84	Hobar Farida	Three-Dimensional simulation of AlGaIn MSM ultraviolet Photodetectors	Constantine ALGERIA
85	Ju Hyun Hwang	SF ₆ /CHF ₃ plasma treated nanoscale random pattern for enhanced light extraction in organic light-emitting diodes	Display and Nanosystem Laboratory College of Engineering Korea University Seoul, Republic of Korea
86	Nour el Houda Arabi	Influence of annealing temperature on optical and structural properties of sol gel TiO ₂ thin films	Ecole préparatoire aux sciences et technique d'Annaba Algeria
87	I. Novotný	Surface morphology and crystalline structure of sputtered ZnO nanocoatings	Slovak University of Technology Institute of Electronics and Photonics FEI, Bratislava, Slovakia
88	Nabila ZOUADI	CO ₂ detection with CN _x thin films deposited on porous silicon	CRTSE, Algiers, Algeria

89	Noura Barkahoum Touahri	CATALYTIC PROPERTIES OF Ni AND Rh MODIFIED BARIUM HEXAALUMINATS FOR CPO	UMBB (Université M'Hamed Bougara Boumerdes), Laboratoire des Matériaux Catalytiques et Catalyse en Chimie Organique; Faculté de chimie, ALGER ALGERIE.
90	Emil Pincik	Interaction of KCN solutions with Si-based semiconductors	Institute of Physics SAS, Bratislava, Slovakia