Monitoring of the IST RTD implementation in 2006
Publications - Articles

No	Title of the article	Journal								Authors									
					Pages		Date			Author_1		Author_2		Author_3		Author_4		Author_5	
		Name	Volume	Issues	from	to	Day	Month	Year	Initials	Surname	Initials	Surname	Initials	Surname	Initials	Surname	Initials	Surname
1	Metal/Metal-oxide/Metal etalon structures grown by pulsed laser deposition	Applied Physics A	79	4 to 6	1395	1397		September	2004	N.A.	Vainos	A.	Tsigara	J.	Manasis	A.	Giannoudakos	G.	Mousdis
2	Pulsed laser deposited lead germanate glass systems	Applied Physics A	79	4 to 6	1319	1321		September	2004	A.	Tsigara	L.	Velli	A.	Giannoudakos	C.	Varsamis	N.A.	Vainos
3	Cobalt chloride based nanocomposite humidity sensors	Glass Technology - European Journal of Glass Science and Technology Part A	46	2	171	174		April	2005	G.	Manasis	A.	Tsigara	A.	Giannoudakos	G.	Anyfantis	N.A.	Vainos
4	Fullerenes-Organic glassy polymer composites: Synthesis and Nonlinear Optical Properties	Glass Technology - European Journal of Glass Science and Technology Part A	46	2	62	66		April	2005	K.	Gatsouli	A.	Pispas	N.A.	Vainos	G.	Mousdis	S.	Couris
5	Laser ablative processing: A route to innovative photonics	Pulsed laser deposition of optoelectronic films, Optoelectronic Materials and Devices Series	2						2005	N.A.	Vainos								
6	$NiCl_2/SiO_2$ Sol-Gel Material for Ammonia Sensing	Advanced Environmental, Chemical, and Biological Sensing Technologies IV, Proc. of SPIE	6377							A.	Tsigara	L.	Athanasekos	G.	Mousdis	G.	Manasis	N.A.	Vainos
7	Diffractive optical elements for photonic gas sensors	Nanosensing: Materials and Devices II,	6008		282	292		November	2005	N.A.	Madamopoulos	G.	Siganakis	N.A.	Vainos	S.	Pispas	K.	Kibasi
8	Polymer based photonic sensors for physicochemical monitoring	Advanced Environmental, Chemical, and Biological Sensing Technologies III	5993		31	39		November	2005	N.A.	Madamopoulos	S.	Pispas	N.A.	Vainos	L.	Athanasekos	K.	Kibasi
9	Optical fiber long-period grating humidity sensor utilizing PEO/$CoCl_2$ outcladding overlayers	Optical Fibers: Technology, Proc SPIE	5952		126	132		September	2005	M.	Konstantaki	S.	Pispas	N.A.	Vainos	S.	Pissadakis	N.	Madamopoulos
10	Hybrid polymer/cobalt chloride humidity sensors based on optical diffraction	Sensors and Actuators B	120		470				2007	A.	Tsigara	G.	Mountrichas	S.	Pispas	A.	Nichelatti	N.A.	Vainos
11	$SiO_2/NiCl_2$ nanocomposites for optical detection of ammonia and cross sensitivity effects of relative humidity	Sensors and Actuators B					To be submitted			A.	Tsigara	L.	Athanasekos	M.	Hands	A.	Meristoudi	N.A.	Vainos
12	Detection of nitro-aromatic compounds by optical gas sensors based on sensitive or photoluminescent polymers	SPIE proceedings	6189						2006	T	Lamarque	P	Le Barny	E	Obert	E	Chastaing	B	Loiseaux
13	Stable aqueous dispersions of C_{60} fullerene by the use of a block copolymer	Journal of Physics: Conference series	10		163	166			2005	G.	Mountrichas	S.	Pispas	E.I.	Kamitsos	E.	Xenogiannopoulou	S.	Couris
14	Nonlinear optical properties of fullerene-Organic glassy polymer composites	Glass Technology	46		62	66			2005	K.	Gatsouli	S.	Pispas	G.	Mousdis	N.A.	Vainos	S.	Couris
15	Transient nonlinear optical response of novel neutral unsymmetrical nickel dithiolene complexes	Chemical Physics Letters	428		109	113			2006	P.	Aloukos	S.	Couris	J.B.	Koutselas	G.C.	Anyfantis	G.C.	Papavassiliou
16	Third-order nonlinear optical properties of thin sputtered gold films	Optics Communications	275	1	217	222	1	July	2007	E.	Xenogiannopoulou	P.	Aloukos	S.	Couris	E.	Kaminska	A.	Piotrowska
17	Unsymmetrical single-component nickel 1,2-dithilolene complexes with extended tetrachalcogenafulvalenedithiolato ligands	Z. Naturforsch	62b		200	204			2007	G.C.	Anyfantis	G.C.	Papavassiliou	P.	Aloukos	S.	Couris	Y.F.	Weng
18	Aqueous dispersions of C_{60} fullerene by use of amphiphilic block copolymers: Preparation and nonlinear optical properties	Journal of Chemical Physics	111	17	4315	4319			2007	G.	Mountrichas	S.	Pispas	E.	Xenogiannopoulou	P.	Aloukos	S.	Couris
19	Third-order nonlinear optical response of gold island films	To Be submitted								K.	Iliopoulos	S.	Couris	T.	Karakouz	A.	Vaskevich	I.	Rubinstein
20	Nonlinear optical properties of water-soluble C_{60} colloids	To Be submitted								P.	Aloukos	E.	Xenogiannopoulou	S.	Couris	G.	Mountrichas	S.	Pispas
21	p-type conducting ZnO: fabrication and characterisation	phys. stat. sol. (c)	2		1119	1124			2005	E	Kamińska	A	Piotrowska	J	Kossut	R	Butkute	W	Dobrowolski
22	Transparent p-type ZnO by oxidation of Zn-based compounds	AIP Conf. Proc.	772		185	186			2005	E	Kamińska	J	Kossut	A	Piotrowska	E	Przeździecka	W	Dobrowolski
23	Transparent p-type ZnO films obtained by oxidation of sputter-deposited Zn3N2	Sol. State. Commun.	135		11	15			2005	E	Kamińska	A	Piotrowska	J	Kossut	A	Barcz	R	Butkute
24	p-type in ZnO:N by codoping with Cr	Mat. Res. Soc. Symp. Proc.	786		E6.1.1	E6.1.6			2004	E	Kamińska	A	Piotrowska	J	Kossut	R	Butkute	W	Dobrowolski
25	ZnO-based p-n Junctions with p-type ZnO by ZnTe Oxidation	Mat. Res. Soc. Symp. Proc.	891		EE08-11.1	EE08-11.6			2006	E	Kamińska	E	Przeździecka	A	Piotrowska	J	Kossut	E	Dynowska
26	Towards efficient p-type doping of ZnO with group-V atoms: N vs As and Sb	AIP Conf. Proc. (ICPS-28)					in press			E	Kamińska	E	Przeździecka	A	Piotrowska	J	Kossut	E	Dynowska
27	Ultrathin Gold Island Films on Silanized Glass.Morphology and Optical Properties	Chemistry of Materials	16	18	3476	3483	18	June	2004	I	Doron-Mor	Z	Barkay	N	Filip-Granit	A	Vaskevich	I	Rubinstein
28	Preparative Manipulation of Gold Nanoparticles by Reversible Binding to a Polymeric Solid Support	Chemistry - A European Journal	11	9	2836	2841	3	March	2005	O	Abed	A	Vaskevich	R	Arad-Ellin	A	Shanzer	I	Rubinstein
29	Transmission Localized Surface Plasmon Resonance (T-LSPR) Transducers for Sensing in Vapor Phase	in preparation								T	Karakouz	A	Vaskevich	I	Rubinstein				
30	Optical characterizations of ZnO, $Sn0_2$ and TiO_2 thin films for butane detection	Applied Optics	45	7	1425	1435			2006	T	Mazingue	L	Escoubas	L	Spalluto	F	Flory	P	Jacquouton
31	Laser-deposited thin films for butane detection	Laser Physics	16	2	217	222			2006	M	Jelinek	T	Kocourek	F	Flory	L	Escoubas	T	Mazingue
32	Plasma Analyses During Femptosecond Laser Ablation of Ti, Zr and Hf	Journal of Applied Physics	97				15	March	2005	D.	Grojo	J.	Hermann	A.	Perrone				
33	Pulsed Laser Deposition and Characterization of Textured Pd-doped-SnO_2 Thin Films for Gas Sensing Applications	Thin Solid Films	497		142	146			2006		Pereira	L.	Cultrera	A.	Dima	M.	Susu	A.	Perrone
34	Investigation of Liquid Droplets, Plume Deflection and a Columnar Structure in Laser Ablation of Silicon	Physical Review B	73	7					2006	L.	Cultrera	M.I.	Zeifman	A.	Perrone				
35	Double-peak Droplet Mass Distribution Observed During sub-ps Laser Ablation of Si Target	Applied Physics A							2007	L.	Cultrera	A.	Dima	A.	Perrone	D.	Pisignano	R.	Cingolani

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36	Doped thin metal oxide films for catalytic gas sensors	Applied Surface Science	252	13	4578	4581	30	April	2006	E.	Gyorgy	E.	Axente	I. N.	Mihailescu	C.	Ducu	H.	Du
37	Anatase phase TiO_2 thin films obtained by pulsed laser deposition for gas sensing applications	Applied Surface Science	247		429	433			2005	E.	Gyorgy	G.	Socol	E.	Axente	I. N.	Mihailescu	C.	Ducu
38	Nanostructured ZnO coatings grown by pulsed laser deposition for optical gas sensing of butane	Journal of Applied Physics	98		74312_1	74312_6			2005	Th.	Mazingue	L.	Escoubas	L.	Spalluto	F.	Flory	G.	Socol
39	Structural and optical characterization of WO_3 thin films for gas sensor applications	Journal of Applied Physics	97		93527_1	93527_4			2005	E.	Gyorgy	G.	Socol	I. N.	Mihailescu	C.	Ducu	S.	Ciuca
40	SnO_2 nanostructured films obtained by pulsed laser ablation deposition	Applied Surface Science	247	1_4	95	105			2005	C.	Ristoscu	L.	Cultrera	A.	Dima	A.	Perrone	R.	Cutting
41	Pulsed laser deposited zinc oxide thin films for optical gas sensor applications	Proc. SPIE	5830		50				2005	E.	Gyorgy	G.	Socol	I. N.	Mihailescu	J.	Santiso	C.	Ducu
42	Functional nanostructured metal oxide thin films for applications in optical gas detection	NATO Science Series by Springer Science and Business Media, Eds. Cyril Popov and Wilhelm Kulisch			341	344			2006	G.	Socol	I. N.	Mihailescu	E.	Axente	C.	Ristoscu	E.	Gyorgy
43	Structural and optical characterization of undoped, doped, and clustered ZnO thin films obtained by PLD for gas sensing applications	Applied Surface Science	253		6499	6503			2007	C.	Ristoscu	D.	Caiteanu	G.	Prodan	G.	Socol	S.	Grigorescu
44	Growth of oxide thin films for optical gas sensor applications	Applied Surface Science	252	13	4582	4586	30	April	2006	D.	Caiteanu	E.	Gyorgy	S.	Grigorescu	I. N.	Mihailescu	G.	Prodan
45	Enhanced gas sensing of Au nanocluster-doped or coated zinc oxide thin films	Journal of Applied Physics	Accepted					May	Iouv-05	G.	Socol	E.	Axente	C.	Ristoscu	F.	Sima	A.	Popescu
46	"Microwave–assisted Synthesis of GaO(OH) and Ga_2O_3 Nanorods",	Journal of Nanoparticle Research	6	5	509	518			2004	C R	Patra	Y	Mastai	A	Gedanken				
47	Rapid Synthesis of Nanoparticles of Hexagonal Type In_2O_3 and Spherical Type Tl_2O_3 by Microwave Irradiation	New Journal of Chemistry	28	8	1060	1065			2004	CR	Patra	A	Gedanken						
48	Thin (001) tungsten trioxide films grown by laser deposition	Appl. Surf. Sci.	247 (1-4)		401	405			2005	N.E.	Stankova	P.A.	Atanasov	T.J.	Stanimirova	A.Og.	Dikovska	R.W.	Eason
49	Structural and optical properties of thin indium oxide films produced by pulsed laser deposition	Proc. SPIE	5830		55	59			2005	T.J.	Stanimirova	P.A.	Atanasov	A.Og.	Dikovska	N.E.	Stankova	S.H.	Tonchev
50	Growth of anatase TiO_2 thin films by laser ablation	Proc. SPIE	5830		60	64			2005	N.E.	Stankova	P.A.	Atanasov	A.Og.	Dikovska	I.G.	Dimitrov	G.	Socol
51	Investigation of the structural and optical properties of tin oxide films grown by pulsed laser deposition	J. Optoelectronics & Advanced Mater.	7		1335	1340			2005	T.J.	Stanimirova	P.A.	Atanasov	I.G.	Dimitrov	A.Og.	Dikovska		
52	Thin ZnO films produced by pulsed laser deposition	J. Optoelectronics & Advanced Mater.	7		1329	1334			2005	A.Og.	Dikovska	P.A.	Atanasov	C.	Vasilev	I.G.	Dimitrov	T.R.	Stoyanchov
53	Fabrication and study of periodically structured Y_2O_3 waveguides	Plasma Proc. & Polymers	3		201	204			2006	A.Og.	Dikovska	S.H.	Tonchev	C.	Vasilev	P.A.	Atanasov		
54	Pulsed laser deposited ZnO film on side-polished fiber as a gas sensing element	Appl. Optics					in press			A.Og.	Dikovska	P.A.	Atanasov	T.R.	Stoyanchov	A.Tz.	Andreev	E.I.	Karakoleva
55	Optical and structural properties of undoped and palladium doped indium tin oxide films grown by pulsed laser deposition	Appl. Surf. Sci.					in press			T.J.	Stanimirova	P.A.	Atanasov	N.E.	Stankova	I.G.	Dimitrov	T.R.	Stoyanchov
56	Characterization of Vanadium doped ZnO films produced by pulsed laser deposition	Proc. SPIE	6604						2007	M.E.	Koleva	P.A.	Atanasov	J.	Perriere				
57	Thin-film photonic gas sensors	J. of the Bulg. Acad. of Sci.	5		20	30			2005	P.A.	Atanasov								
58	Periodically structured ZnO thin films for optical gas sensor application	Sensors and Actuators A					In Press			A.Og.	Dikovska	P.A.	Atanasov	S.H.	Tonchev	J.	Ferreira	L.	Escoubas