

SYMPOSIUM D

Functional Ceramic Materials, Oxide Thin Films and Heterostructures

Symposium D1: Functional Ceramic Materials, Oxide Thin Films and Heterostructures

Parallel Session on Level 3, Room 301

Mon, 29-Jun-09	Tue, 30-Jun-09	Wed, 1-Jul-09	Thu, 2-Jul-09	Fri, 3-Jul-09
	(08:30 - 09:15) Plenary Lecture 2 Peter Doherty	(08:30 - 09:15) Plenary Lecture 4 John Pendry	(08:30 - 09:15) Plenary Lecture 6 Hartmut Michel	
(09:00 - 09:45) Opening Ceremony	(09:15 - 10:00) Plenary Lecture 3 Andrew Wee	(09:15 - 10:00) Plenary Lecture 5 Chad Mirkin	(09:15 - 10:00) Plenary Lecture 7 Akihisa Inoue	(09:00 - 09:45) Plenary Lecture 8 Jean-Marie Basset
(09:45 - 10:30) Plenary Lecture 1 Peter Gruenberg	(10:00 - 10:30) Coffee Break			(09:45 - 10:30) Plenary Lecture 9 Frederick Lange
(10:30 - 11:00) Coffee Break				(10:30 - 11:00) Coffee Break
(11:00 - 12:30) Session D1-S1	(10:30 - 12:30) Session D1-S4	(10:30 - 12:30) Session D1-S6	(10:30 - 12:30) Session D1-S9	(11:00 - 13:15) Session D1-S12
(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture James L. Hedrick	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Martyn Poliakoff	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Karl U. Kainer	(12:30 - 14:00) Lunch (13:00 - 14:30) Panel Discussion	(13:00 - 14:30) Closing & Poster Award Ceremony Lunch
(14:00 - 16:15) Session D1-S2	(14:00 - 16:30) Session D1-S5	(14:00 - 15:30) Session D1-S7	(14:30 - 16:30) Session D1-S10	
(16:15 - 16:30) Break		(15:30 - 17:30) Session D1-S8	(16:00 - 18:00) Session D-S11 POSTER SESSION	
(16:30 - 18:00) Session D1-S3				
	(18:00 - 20:00) Public Lectures @ UCC Peter Doherty Peter Gruenberg	(19:00 - 20:00) Public Lecture @ UCC Hartmut Michel	19:00 - 22:00 hrs Conference Banquet @ Suntec	

Symposium D2: Functional Ceramic Materials, Oxide Thin Films and Heterostructures

Parallel Session on Level 3, Room 302

Mon, 29-Jun-09	Tue, 30-Jun-09	Wed, 1-Jul-09	Thu, 2-Jul-09	Fri, 3-Jul-09
	(08:30 - 09:15) Plenary Lecture 2 Peter Doherty	(08:30 - 09:15) Plenary Lecture 4 John Pendry	(08:30 - 09:15) Plenary Lecture 6 Hartmut Michel	
(09:00 - 09:45) Opening Ceremony	(09:15 - 10:00) Plenary Lecture 3 Andrew Wee	(09:15 - 10:00) Plenary Lecture 5 Chad Mirkin	(09:15 - 10:00) Plenary Lecture 7 Akihisa Inoue	(09:00 - 09:45) Plenary Lecture 8 Jean-Marie Basset
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(10:30 - 11:00) Coffee Break				(10:30 - 11:00) Coffee Break
(11:00 - 12:30) Session D2-S1	(10:30 - 12:30) Session D2-S4	(10:30 - 12:30) Session D2-S6	(10:30 - 12:30) Session D2-S9	(11:00 - 13:00) Session D2-S12
(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture James L. Hedrick	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Martyn Poliakoff	(12:30 - 14:00) Lunch (13:00 - 13:45) Theme Lecture Karl U. Kainer	(12:30 - 14:00) Lunch (13:00 - 14:30) Panel Discussion	(13:00 - 14:30) Closing & Poster Award Ceremony Lunch
(14:00 - 16:15) Session D2-S2	(14:00 - 16:30) Session D2-S5	(14:00 - 15:30) Session D2-S7		
(16:15 - 16:30) Break		(15:30 - 17:30) Session D2-S8		
(16:30 - 18:00) Session D2-S3			(16:00 - 18:00) Session D-S11 POSTER SESSION	
	(18:00 - 20:00) Public Lectures @ UCC Peter Doherty Peter Gruenberg			
		(19:00 - 20:00) Public Lecture @ UCC Hartmut Michel	19:00 - 22:00 hrs Conference Banquet @ Suntec	

D1-S1

Monday, 29 June 2009
11:00 - 12:30
Level 3, Room 301

11:00 D1-S1.1-2(KN) A02764-04729 pg D132
Electrical Field Control of Ferromagnets Using Multiferroics
Ramamoorthy RAMESH

11:30 D1-S1.3-4(IN) A02671-04587 pg D129
Investigations on Room Temperature Magnetoelectric Multiferroics
Ram S. KATIYAR, A. KUMAR, M. K. SINGH, R. PALAI, J. F. SCOTT

12:00 D1-S1.5(O) A01347-02350 pg D80
Structures and Magnetic Properties of Pulsed Laser Deposited Cobalt Ferrite Films
Hui DING, Thirumany SRITHARAN

12:15 D1-S1.6(O) A01899-03272 pg D104
Enhanced Magnetization and Trigonal Distortion of t_{2g} Orbital in Epitaxially Constrained BiFeO_3 Thin Films with Rhombohedral Symmetry
Sangwoo RYU, Jae-Young KIM, Young-Han SHIN, Hyun M. JANG

D2-S1

Monday, 29 June 2009
11:00 - 12:30
Level 3, Room 302

11:00 D2-S1.1-2(IN) A02536-04342 pg D125
Transmitting Conducting Oxide Layers for Thin Film Silicon Solar Cells
Jatindra Kumar RATH

11:30 D2-S1.3(O) A00320-00676 pg D33
The Fabrication of an $\text{Al/MgCaTiO}_3/\text{Si}(100)$ MIS Device and its Characteristics of Photo-sensitivity
Sheng Tsung CHEN, Ming Chang SHIH

11:45 D2-S1.4(O) A01057-01834 pg D65
Influence of Potential Barrier Height of the Interface Glass on Electrical Performance of Screen Printed Ag Thick-film Contacts of Si Solar Cells
Yaping ZHANG, Yunxia YANG, Jianhua ZHENG, Guorong CHEN, Chen CHENG, James C.M. HWANG, Boon S. OOI, Andriy KOVALSKIY, Himanshu JAIN

12:00 D2-S1.5(O) A01119-02228 pg D70
Enhancement for UV-shielding and Hydrophilicity for Protective Film
Jung Whan YOO, Dong Shin YUN, Hyeong Seok LEE, Seung Ho LEE

12:15 D2-S1.6(O) A01144-01953 pg D71
 Ga_2O_3 Thin Film Growth by Plasma-assisted Molecular Beam Epitaxy
Min-Ying TSAI, Mark E. WHITE, James S. SPECK

D1-S2

Monday, 29 June 2009
14:00 - 16:15
Level 3, Room 301

14:00 D1-S2.1-2(KN) A01831-03894 pg D100
Growing Integration Layer [GIL] Method: Novel Concept and Realization of Functional Oxide Layers on Metallic Materials without Firing
Masahiro YOSHIMURA, Naota SUGIYAMA, Nobuhiro MATSUSHITA, Xin-Min WANG, Takeshi WADA, Fen-Xiang QIN, Akihisa INOUE, Masahiro TSUKAMOTO, Kazuhiro NAKATA

14:30 D1-S2.3-4(IN) A00193-00542 pg D27
Advanced Porous Ceramics through the Microstructure Control
Kiyoshi OKADA, Toshihiro ISOBE, Yoshikazu KAMESHIMA, Akira NAKAJIMA

15:00 D1-S2.5-6(IN)
Title not available at time of print
George A. SWATZKY

15:30 D1-S2.7(O) A00179-01037 pg D26
In-situ Detection of Porosity Initiation during Aluminum Anodizing by High-Resolution Curvature Measurements
Quentin VAN OVERMEERE, Bernard NYSTEN, Joris PROOST

15:45 D1-S2.8(O) A01759-03087 pg D97
Thin Film of Flexible Porous Metal-Organic Frameworks by Dip-coating Method
Patricia HORCAJADA, Christian SERRE, David GROSSO, Cedric BOISSIERE, Clement SANCHEZ, Gerard FERREY

16:00 D1-S2.9(O) A01263-02183 pg D75
Effect of Sr Substitution on Transport Properties of $\text{Ba}_5\text{DyTi}_3\text{V}_7\text{O}_{30}$ Ceamics
Priyadharsaini Sanghamitra SAHOO, Sunanda Kumari PATRI, Anuradha PANIGRAHI, Ram Naresh Prasad CHOUDHARY

D2-S2

Monday, 29 June 2009

14:00 - 16:15

Level 3, Room 302

14:00 D2-S2.1-2(KN) A01866-03224 pg D100

Giving a New Life to an Old Material ZnO
Masashi KAWASAKI

14:30 D2-S2.3(O) A00607-02262 pg D46

Deposition and Characterizations of ZnO Thin
Films on Al₂O₃ (0001) Substrates with III-arsenide
Intermediate Layers

Hongfei LIU, Soo Jin CHUA, Guang Xia HU,
Hao GONG

14:45 D2-S2.4(O) A00362-00663 pg D35

Hydrothermal Epitaxy of ZnO Films in Water

Yuebin ZHANG, Sean LI, Gregory GOH

15:00 D2-S2.5(O) A01467-02546 pg D86

Effect of Lithium Doping on Zinc Oxide Thin Films
Properties Prepared by Ultrasonic Spray Pyrolysis

Akhadiana MORRIS, Wei GAO

15:15 D2-S2.6(O) A02400-04144 pg D118

ZnO Based Transparent Conductive Multilayer Films
for Dye Sensitized Solar Cell Applications

Diptiranjana SAHU, Jow-Lay HUANG

15:30 D2-S2.7(O) A02179-03744 pg D112

Detection of Low Concentration CO in Air Using
ZnO:Al/Au Thin Films Deposited By Co-sputtering

Le Hung NGUYEN, Eunseong AHN, Seongyong PARK,
Hoocheol JUNG, Hyojin KIM, Dojin KIM

15:45 D2-S2.8(O) A01478-02565 pg D86

Nanoscale Modification of Oxide and Nitride Film
Surface by Energetic Ions

Santanu GHOSH

16:00 D2-S2.9(O) A01743-03395 pg D96

Synthesis and Characterization of Zinc Oxide (ZnO)
Nanomaterials through the Horizontal Vapor Phase
Growth Method

Alvin Noe LADINES, Gil Nonato SANTOS,
Reuben QUIROGA

D1-S3

Monday, 29 June 2009

16:30 - 18:00

Level 3, Room 301

16:30 D1-S3.1-2(IN) A00864-01499 pg D57

Zero Gap Materials: A New Platform for Spintronics,
Electronics and Optics

Xiao-Lin WANG

17:00 D1-S3.3(O) A01405-04146 pg D84

Comparison of H₂S Sensing Response of Hetero-
structure Sensor (CuO-SnO₂) Prepared by rf
sputtering and Pulsed Laser Deposition

Manish VERMA, Arijit CHOWDHURI, K. SREENIVAS,
Vinay GUPTA

17:15 D1-S3.4(O) A02312-03952 pg D116

Electronic Properties of the Cu₂O Nanoneedles
(p-layer) and ITO (n-layer) Heterojunction

Meenal DEO, Sarfraj MUJAWAR, Kashinath BOGLE,
Nagarajan VALANOOR, Satishchandra OGALE

17:30 D1-S3.5(O) A01284-02238 pg D76

Effect of Annealing Temperature on the Properties of
ZnS Thin Film Grown by Chemical Bath Deposition

(CBD) Technique for PV Application
Norhabibi Saadah MUSA, Huda ABDULLAH,
Sahbudin SHAARI, Nowshad AMIN,
Kamaruzzaman SOPIAN

17:45 D1-S3.6(O) A01284-02279 pg D77

Influence of Post-annealing Temperature on the
Properties Exhibited by In doped ZnO Thin Films for
Anti-reflecting Coating Application

Norazia MOHD NOR, Huda ABDULLAH,
Nughoro Pratomo ARIYANTO, Abd. Amir KADHUM,
Sahbudin SHAARI, Chang Fu DEE

D2-S3

Monday, 29 June 2009

16:30 - 18:00

Level 3, Room 302

16:30 D2-S3.1-2(IN) A02094-04524 pg D109

SrZrO₃-based Thin Films For Resistive Switching
Memory Application

Tseung-Yuen TSENG

17:00 D2-S3.3-4(IN) A01892-03261 pg D103

The Structure and Microwave Properties of Dielectric
Tunable (Ba,Sr)TiO₃-based Composite Ceramics

Jiwei ZHAI, Jingji ZHANG, Xi YAO, Zhengkui XU

17:30 D2-S3.5(O) A00014-00014 pg D20

Colossal Dielectric Response in All-ceramic
Percolative Composite PMN-PT - Pb₂Ru₂O_{6.5}

Vid BOBNAR, Marko HROVAT, Janez HOLC,
Marija KOSEC

17:45 D2-S3.6(O) A00528-00960 pg D43

Observation of High Dielectric Constant in Polymer/
AlCuFe-Nanoquasicrystalline Composites

Srinivas VEETURI, Venkatesh CHANDRAGIRI

D1-S4

Tuesday, 30 June 2009
10:30 - 12:30
Level 3, Room 301

10:30 D1-S4.1-2(IN) A02941-05026 pg D139

Structure and Properties of Domain Walls in Multiferroic BiFeO₃ Thin Films

C. T. NELSON, Y. ZHANG, Y. B. CHEN,
C. M. FOLKMAN, S. H. BAEK, C. B. EOM,
Xiaoqing PAN

11:00 D1-S4.3-4(IN) A02793-04770 pg D133

Labile Ferroelastic Nanodomains in Bilayered Ferroelectric Thin Films

Varatharajan ANBUSATHAIAH, Daisuke KAN,
Fransiska C. KARTAWIDJAJA, Reza MAHJoub,
Miryam A. ARREDONDO, Samantha WICKS,
Ichiro TAKEUCHI, John WANG,
Nagarajan VALANOOR

11:30 D1-S4.5(O) A00311-02539 pg D32

Effect of Fe Diffusion in MgO/Fe Seedlayers to Attain (100) Oriented Pt Underlayer for Perovskite Films with c-axis Orientation

Tatsuro MATSUMOTO, Kazuhiro TAMAI,
Yuji MURASHIMA, Kazuki KOMAKI,
Shigeki NAKAGAWA

11:45 D1-S4.6(O) A00135-00643 pg D24

Thermoelectric Response Of Electron-doped CaMnO₃ Perovskites

Yang WANG, Yu SUI, Xianjie WANG, Wenhui SU,
Hongjin FAN

12:00 D1-S4.7(O) A00746-01320 pg D53

Electrical Properties of a-IGZO Thin Film Transistor with ZrO₂ Gate Dielectric Depending on Source/Drain Contact Resistance

Jae Sang LEE, Seongpil CHANG, Sang-Mo KOO,
Sang Yeol LEE

12:15 D1-S4.8(O) A00459-00858 pg D40

Electro-mechanical Properties of Sm₂O₃-doped Ceria Films

Mária HARTMANOVÁ, Vojtech NÁDAŽDY,
Vilma BURŠÍKOVÁ, Vladislav NAVRÁTIL,
Catina MANSILLA, František KUNDRACIK

D2-S4

Tuesday, 30 June 2009
10:30 - 12:30
Level 3, Room 302

10:30 D2-S4.1-2(IN) A01450-02526 pg D85

Physics of Functional Oxide Interfaces
Hanns-Ulrich HABERMEIER

11:00 D2-S4.3-4(IN) A02513-04307 pg D123

Electronic Reconstruction at Oxide Interfaces

Alexander BRINKMAN, Mark HUIJBEN,
Maarten VAN ZALK, Huijben JEROEN,
Guus RIJNDERS, Dave BLANK, Hans HILGENKAMP

11:30 D2-S4.5-6(IN) A02273-03880 pg D115

Oxide Nanoelectronics On Demand

Cheng CEN, Jeremy LEVY, Stefan THIEL,
German HAMMERL, Christof W. SCHNEIDER,
Jochen MANNHART, C. Stephen HELLBERG,
Kris E. ANDERSEN

12:00 D2-S4.7(O) A01207-02060 pg D75

X-ray Photoemission Spectroscopy Study of Ni/TiO₂(001) Interfaces

Jisheng PAN, Junguang TAO, Alfred HUANG,
Zheng ZHANG, Daniel LI, Jianwei CHAI, Shijie WANG,
Changqing SUN

12:15 D2-S4.8(O) A00851-02483 pg D57

ZnO, Al-doped ZnO/PEDOT:PSS Hetrojunctions: Diode Like Behavior

Bhupendra K SHARMA, Neeraj KHARE

D1-S5

Tuesday, 30 June 2009
14:00 - 16:30
Level 3, Room 301

14:00 D1-S5.1-2(IN) A00641-01155 pg D47

Panoscopic Assembling of Ceria Nanoparticles using Plate-like Titanate for UV-shielding Application via Solution Processes

Tsugio SATO, Xiangwen LIU, Shu Y

14:30 D1-S5.3-4(IN) A01983-03422 pg D106

Design of Interconnections of Novel Complex Oxide Nanoparticles

Satoshi WADA, Petr PULPAN, Ai NOZAWA

15:00 D1-S5.5-6(IN) A01828-03179 pg D99

Fabrication and Some Properties of Textured Ceramics by Colloidal Processing in a Strong Magnetic Field

Yoshio SAKKA, Tohru SUZUKI, Tetsuo UCHIKOSHI

15:30 D1-S5.7(O) A01323-02313 pg D79

Fabrication and Unique Properties of Ordered Multifunctional Oxide Nanodot Arrays Derived from Template-Assisted PLD

Xingsen GAO, Lifeng LIU, Balaji BIRAJDAR,
Brian RODRIGUEZ, Michael ZIESE, Wo LEE,
Marin ALEXE, Dietrich HESSE

15:45 D1-S5.8(O) D-00001 pg D141
Solid State Catalysis Of Epitaxial Oxide Thin Films
S. DHAR, F. ROCCAFORTE, K. P. LIEB,
T. VENKATESAN

16:00 D1-S5.9(O) A01129-01941 pg D70
Novel Nanostructured Vanadium Phosphate Phases
Arunabha DATTA

16:15 D1-S5.10(O) A00120-00757 pg D24
Sol-gel Synthesis and Structure-property Relations in Silver Nanoparticles – Dispersed on GeO₂ Matrix
Bidhu Bhusan DAS, Jose JOSE

D2-S5

Tuesday, 30 June 2009
14:00 - 16:30
Level 3, Room 302

14:00 D2-S5.1-2(IN) A02153-03704 pg D111
Tunable Two-Dimensional Electron Gases at Oxide Interfaces
German HAMMERL, Stefan THIEL,
Christoph RICHTER, Christof W. SCHNEIDER,
Jochen MANNHART, Jean-Marc TRISCONI,
Toni SCHNEIDER, Marc GABAY, Jeremy LEVY,
Kristopher ANDERSEN

14:30 D2-S5.3-4(IN) A01628-03686 pg D92
Band Offset Control at Manganite-titanate Heterojunctions
Yasuyuki HIKITA, Shinsuke NISHIKI,
Naoyuki NAKAGAWA, Mitsuru NISHIKAWA,
Takeaki YAJIMA, Tomofumi SUSAKI,
Hidenori TAKAGI,
Harold Y. HWANG

15:00 D2-S5.5(O) D-00002 pg D141
Femto-Second Laser Excitation Studies Of Oxide Thin Films And Heterostructures
X. WANG, G. YOU, Q-H. XU, J. HUIBEN,
H. HILGENKAMP, T. VENKATESAN, ARIANDO

15:15 D2-S5.6(O) A00627-01148 pg D46
The Effects of Carbon Nano Tubes (CNT) and Carbon on Y-123 High Temperature Superconductors
Sedigheh DADRAS, Vahid DAADMEHR,
Kee Hoon KIM

15:30 D2-S5.7(O) A00871-02707 pg D58
Superconductivity, Critical Current and Flux Pinning in LaFeAsO_{1-x}F_x Compounds
Mahboobeh SHAHBAZI, Germanas PELECKIS,
Zhenxiang CHENG, Xiaolin WANG,
Satyabrata PATNAIK, Karan SINGH

15:45 D2-S5.8(O) A01941-03348 pg D105
Control of Y₂BaCuO₅ Particle Formation in Bulk, Single Grain Y-Ba-Cu-O High Temperature Superconductor
Wai Kong YEOH, Y H SHI, S K PATHAK,
R A DENNIS, David CARDWELL,
Hari Babu NADENDLA, K IIDA, M STRASIK

16:00 D2-S5.9(O) A01990-03484 pg D107
Synthesis and Characterization of Lithium Transition-Metal Ceramic Oxide Materials, and Their Applications in Rechargeable Lithium Ion Batteries (LIB)
Pushpaka SAMARASINGHA, Athula WIJAYASINGHE,
Lakshman DISSANAYAKE

16:15 D2-S5.10(O) A01031-01898 pg D64
Synthesis and Characterization of Carbon Doped Molybdenum Oxide Nanoneedles by Reactive RF Sputtering
Anurat WISITSORAAT, Chaiyan OROS,
Dissayuth PHOKHARATKUL, Pichet LIMSUWAN,
Adisorn TUANTRANONT

D1-S6

Wednesday, 1 July 2009
10:30 - 12:30
Level 3, Room 301

10:30 D1-S6.1-2(KN) A02552-04406 pg D126
Interplay of Nanoscale Phases in Some Ferroelectric Oxides
Haydn CHEN

11:00 D1-S6.3(O) A01578-03360 pg D90
Process, Phase Stability and Ionic Conductivity of Multidoped Lanthanum Strontium Ferrite Perovskite Oxides
Zhengliang GONG, Xiong YIN, Liang HONG

11:15 D1-S6.4(O) A00005-01947 pg D19
Influence of A-site Modification on the Dielectric, Ferroelectric and Relaxor Behavior of Lead-Free BaBi₄Ti₄O₁₅ Ceramics
Sunil KUMAR, Kalidindi B R VARMA

11:30 D1-S6.5(O) A00498-01562 pg D42
Enhancement of Ferromagnetic and Dielectric Properties in Lanthanum Doped BiFeO₃ Nanopowders
Yi DU, Zhenxiang CHENG, Mahboobeh SHAHBAZI, Shi Xue DOU, Xiaolin WANG, Michael SUSNER, Michael SUMPTION, Edward COLLINGS

11:45 D1-S6.6(O) A01360-02373 pg D80
Fabrication of PLZT Dielectrics on Base-Metal Foils for Embedded Capacitors
Utham BALACHANDRAN, Manoj NARAYANAN, Beihai MA

12:00 D1-S6.7(O) A02676-04594 pg D129
The Ultraviolet Electroluminescence of the ZnO Nanorods/ Organic Heterojunction Devices
Suling ZHAO, Xu ZHENG, Pengzhi KAN

12:15 D1-S6.8(O) A00674-01216 pg D49
Optical Emission and Absorption Spectra of Zn Embedded ZnO Nanostructure and Zn-ZnO Core-shell Nanostructure
Avijit GHOSH, Ram Naresh Prasad CHOUDHARY

D2-S6

Wednesday, 1 July 2009
10:30 - 12:30
Level 3, Room 302

10:30 D2-S6.1-2(IN) A02126-03658 pg D110
Dilutely doped Anatase TiO₂: New Science and Applications
Satishchandra OGALE

11:00 D2-S6.3(O) A00457-00847 pg D39
Fabrication of Nd³⁺:Y₂O₃ Transparent Ceramics for Laser Application
Jian ZHANG, Hua GONG, Dingyuan TANG, Jan MA, Liqiong AN, Shiwei WANG

11:15 D2-S6.4(O) A01128-01936 pg D70
Effect of N-incorporation on the Electronic Structure of Rutile TiO₂
Jian Wei CHAI, Ji Sheng PAN, Zheng ZHANG, Shi Jie WANG, Ming YANG, Qian CHEN

11:30 D2-S6.5(O) A02418-04120 pg D119
Photoemission Study on the Degree of Ta doping on Anatase (001) and Rutile (001) TiO₂ Single-crystal and their Structure Stability
Iman SANTOSO, C. K. YOUNG, A. R. BARMAN, D. SHANKAR, Andriwo RUSYDI, Andrew WEE, T. VENKATESAN

11:45 D2-S6.6(O) A00666-01592 pg D48
Synthesis and Luminescence of YNbO₄:Eu³⁺ by a Flux Method
Eun Young LEE, Young Jin KIM

12:00 D2-S6.7(O) A02421-04130 pg D119
Large-Scale Growth of Single-Crystalline TiO₂ Nanowires and Their Visible-Light Photocatalytic Activity
Nguyen THI QUYNH HOA, Young-Soo PARK, Tran Thanh TUNG, Eui-Tae KIM

12:15 D2-S6.8(O) A01404-03286 pg D83
Effects of dc bias, Uniaxial Compressive Stress, and Annealing on Giant Dielectric Properties of (Li, V)-doped NiO Ceramics
Sarawut PONGHA, Prasit THONGBAI, Teerapon YAMWONG, Santi MAENSIRI

D1-S7

Wednesday, 1 July 2009
14:00 - 15:30
Level 3, Room 301

14:00 D1-S7.1-2(IN) A02662-04572 pg D128
Electromagnons, Ferroelectric Soft Modes and Magnetoelectric Coupling in Multiferroics
Stanislav KAMBA, Veronica GOIAN, Dmitry NUZHNYI, Jirka HLINKA, Christelle KADLEC, Milan ORLITA, June LEE, Darrell SCHLOM

14:30 D1-S7.3-4(IN) A02132-03672 pg D110
Magnetic Control of Electric Polarization in Fe-oxides
Yasujiro TAGUCHI, Shintaro ISHIWATA, Yusuke TOKUNAGA, Nobuo FURUKAWA, Hideaki SAKAI, Hiroshi MURAKAWA, Yoshinori ONOSE, Taka-hisa ARIMA, Yoshinori TOKURA

15:00 D1-S7.5-6(IN) A01549-02699 pg D90
An In-situ Study of Phase Development and the Properties of BiFeO₃ at High Pressure
Robert FREER, Michael THRALL, Feridoon AZOUGH, Robert CERNIK, Ray JONES, Michael MORLIDGE, David TAYLOR, James GRIFFITHS

D2-S7

Wednesday, 1 July 2009
Level 3, Room 302

14:00 D2-S7.1-2(IN) A02866-04904 pg D136
Epitaxial Functional Oxide Films: A View From the World of Ferroelectrics
Stephen STREIFFER, Matthew HIGHLAND, Timothy FISTER, Marie-Ingrid RICHARD, Dillon FONG, Jeffrey EASTMAN, Paul FUOSS, Carol THOMPSON, Brian STEPHENSON

14:30 D2-S7.3-4(IN) A00820-01428 pg D54

Crystal Structure and Electrical Property of Ferroelectric Thin Film Deposited under Magnetic Field by Pulsed Laser Deposition

Naoki WAKIYA, Naonori SAKAMOTO, Desheng FU, Hisao SUZUKI, Kazuo SHINOZAKI

15:00 D2-S7.5-6(IN) A01897-03274 pg D103

Room-Temperature Ferroelectricity and Giant Magnetoelectric Coupling in Mn-doped InP

Hyun M. JANG

D1-S8

Wednesday, 1 July 2009

15:30 - 17:30

Level 3, Room 301

15:30 D1-S8.1-2(IN) A00780-01545 pg D53

Origins of Multiferroicity in Rare-earth Manganites of Spiral-spin Order: Monte Carlo Simulation

Junming LIU, Shuai DONG, Qichang LI

16:00 D1-S8.3-4(IN) A00696-01250 pg D50

Design and Development of Pb/Bi based Multifunctional Materials

Ram Naresh Prasad CHOUDHARY, Sunanda Kumari PATRI

16:30 D1-S8.5(O) A00109-00389 pg D23

Multiferroic Behaviors in $(\text{Ni}_{0.5}\text{Zn}_{0.5})\text{Fe}_2\text{O}_4/\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ Composite Thick Films

Wei CHEN, Xiaofeng CHEN, Zhihong WANG, Weiguang ZHU, Ooi Kiang TAN

16:45 D1-S8.6(O) A00367-00811 pg D36

Nano-scaled Fully Strained $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3/\text{BaTiO}_3$ Perovskite Super-lattice

Zhen YANG, Chang KE, Wei-guang ZHU

17:00 D1-S8.7(O) A01518-02646 pg D89

Charge Order and Its Destruction Effects on Magnetocaloric Properties of Manganites

Krishnamoorthi C, Siu Bin Z, Suresh Kumar V, Mahendiran R

17:15 D1-S8.8(O) A01098-01896 pg D68

Structure and DC Conductivity Studies of Sm^{3+} Substituted Ni-Zn Ferrites

Gowdra Jayadevappa SHANKARAMURTHY, Halepoojar Siddalingappa JAYANNA, Eshwarappa MELAGIRIYAPPA

D2-S8

Wednesday, 1 July 2009

15:30 - 17:30

Level 3, Room 302

15:30 D2-S8.1-2(IN) A02036-04585 pg D108

Barium Strontium Titanate Ferroelectric Tunable Photonic and Phononic Crystals

Helen Lai-wa CHAN, Kwok Lung JIM, Chi Wah LEUNG

16:00 D2-S8.3-4(IN) A02262-03858 pg D114

Nonlinear Dynamics of Domain Wall Propagation in Epitaxial Ferroelectric Thin Films

Ji Young JO, Sang Mo YANG, Tae Heon KIM, Ho Nyung LEE, Jong-Gul YOON, Sungyoung PARK, Younghoon JO, Myung Hwa JUNG, Tae Won NOH

16:30 D2-S8.5-6(IN) A02456-04192 pg D121

Domain Imaging Mechanisms in Ultrathin Ferroelectric Structures

Andreas RUEDIGER

17:00 D2-S8.7(O) A01148-02735 pg D72

Optimised Deposition Processes for Doped Lead Zirconate Titanate Thin Films

Sharath SRIRAM, Madhu BHASKARAN, Arnan MITCHELL

17:15 D2-S8.8(O) A01198-02044 pg D74

Monodomain to Multidomain Transitions Induced by Depletion Layers in Ferroelectric Thin Films

Nathaniel NG, Rajeev AHLUWALIA, Srolovitz DAVID

D1-S9

Thursday, 2 July 2009

10:30 - 12:30

Level 3, Room 301

10:30 D1-S9.1-2(KN) A00029-00031 pg D21

Can Aqueous Synthesized ZnO be Our Future Semicond

Frederick F LANGE

11:00 D1-S9.3-4(IN) A00728-01291 pg D52

Hydrothermal Synthesis of Alumina Microfibers with Mesoporous Structures and its Adsorbing Ability

Zhenfeng ZHU, Hui LIU, Hongjun SUN, Dong YANG

11:30 D1-S9.5(O) A01267-04492 pg D75

Interesting Dielectric and Magnetic Characteristics of $\text{Sr}_2\text{TiMnO}_6$ Ceramics

Preethi MEHER, Kalidindi. B. R VARMA

11:45 D1-S9.6(O) A01321-02310 pg D78
A Low-temperature Solution Combustion Synthesis, Characterization and Luminescence Studies of Orange CaSiO₃: Pb, Mn Phosphor
Madesh Kumar M, Nagabhushana H, Chikkahanumantharayappa, Nagabhushana B.M

12:00 D1-S9.7(O) A01353-02823 pg D80
Comparison of Electrical Properties of Microwave and Conventionally Processed NiO-YSZ
Ajay KUMAR, Kanchan SINGH, Anirudh SINGH, S. SEKHON

12:15 D1-S9.8(O) A00638-01149 pg D46
Tribological Behavior of Si₃N₄-hBN Ceramic Materials with Water Lubrication
Wei CHEN, Yimin GAO

D2-S9

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Level 3, Room 302

10:30 D2-S9.1-2(IN) A02890-04938 pg D137
Engineering Exotic Phenomena at Ferroelectric Oxide Interfaces : A First-principles Perspective
Philippe GHOSEZ

11:00 D2-S9.3-4(IN) A02860-04891 pg D135
Relaxor Ferroelectric Behaviors in Sr₄(La_xNd_{1-x})₂Ti₄Nb₆O₃₀ Tungsten Bronze Ceramics
Xiang Ming CHEN, Xiao Li ZHU

11:30 D2-S9.5-6(IN) A01499-02605 pg D87
VO₂ Thin Films: Solution Processing and Thermo-chromic Properties
Y.-F. GAO, L. KANG, Z ZHANG, J. DU, Z. CHEN, C. CAO, H. LUO

12:00 D2-S9.7(O) A00015-00410 pg D21
Thermoelectric Effect in Highly Doped SrLaTiO₃, Quantum Wells and Heterostructure
Harry KWOK

12:15 D2-S9.8(O) A01423-02481 pg D84
Electrical, Optical and Electrochromic Properties of VO₂-WO₃ Nanocomposite Thin Films
Ajay KAUSHAL, Rajendra N. GOYAL, Davinder KAUR

D1-S10

Thursday, 2 July 2009
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14:30 D1-S10.1-2(IN) A02917-05045 pg D139
Multilayered Ferroelectric Micro Sensors for Biomedical Applications
S. E. VALAVAN

15:00 D1-S10.3(O) A01772-03105 pg D97
Colossal Electroresistance and Current-induced Multilevel Resistivity Switching in Nd_{0.5}Ca_{0.5}MnO₃ and La₂NiMnO₆
Mahendiran RAMANATHAN, Alwyn REBELLO

15:15 D1-S10.4(O) A01801-03463 pg D98
Inkjet Printing Approach to Fabricate Non-sintered Dielectric Film with High Packing Density for 3D Package Integration Technology
Jihoon KIM, Hun Woo JANG, Eunhae KOO, Hyo Tae KIM, Young Joon YOON, Jong-hee KIM

15:30 D1-S10.5(O) A02188-03993 pg D113
Vibration Damping with Control on Friction due to Oxide Thin Film Layer to Eliminate Noise in a Brake Friction Composite
Kavapatti L. SUNDARKRISHNAA

15:45 D1-S10.6(O) A02491-04257 pg D122
Effect of Deposition Temperature on Alumina Films Obtained by Atmospheric Pressure Chemical Vapor Deposition
Indra NASUTION

16:00 D1-S10.7(O) A02891-04939 pg D137
High Temperature Interface Superconductivity in Copper Oxide Multilayers
Adrian GOZAR, G. LOGVENOV, A. T. BOLLINGER, I. BOZOVIC

16:15 D1-S10.8(O) A02853-04880 pg D135
Effects of Anodization Parameters on Titania Nanotube Arrays and the Performance of Dye-sensitized Solar Cells
Zhibin XIE, Stefan ADAMS, John WANG, Daniel BLACKWOOD

D-S11: Poster Session

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16:00 - 18:00
Level 3, Gallery

D-S11.001(P) A00007-00290 pg D19
Substrate Effects on the Characteristics of ZnO Thin Films Prepared by DC-Sputtering Technique
Nidhal JANDOW, Kamarulazizi IBRAHIM

- D-S11.002(P) A00013-00400** pg D19
Research on Fabrication and Characterization of Lithium Cobalt Oxide Thin Films
Feng XIULI, Meng FANMING, Liu XIAOJIANG, Cui YIXIU, Cui YANHUA
- D-S11.003(P) A00032-00305** pg D21
Low Resistivity and High Mobility of p-type Li-doped ZnO Materials
Yi-Wen KAO, Kuo-Chuang CHIU, Shan-Haw CHIOU
- D-S11.004(P) A00054-03976** pg D21
Electrical and Optical Properties of ZnO:Ga Thin Films Fabricated via the Sol – gel Technique
Li-ling HUANG, Kuo-Chuang CHIU, Ren-Der JEAN
- D-S11.005(P) A00063-00312** pg D22
The Temperature of Electrochromically-Colored WO₃ Under Solar Radiation
Saleh ALAMRI, Ahmed JORID
- D-S11.006(P) A00089-00568** pg D23
Size Effect of Ferroelectric Properties for Nanocrain Barium Titanate Ceramics
Xiang Yun DENG
- D-S11.007(P) A00120-00726** pg D23
Sol-gel Synthesis, Structure and Magnetic Properties of Cu_xNa_{4-2x}SiO₄ [x= 0.0001, 0.002, 0.005, 0.013] Composites
Bidhu Bhusan DAS, Siva Koteswar RAO, Murugesan YOGAPRIYA, Masilamani DEEPA, Palani VIMALA, Kuppam PALANISAMY
- D-S11.008(P) A00138-00291** pg D25
Effect of Heat Treatment on the Structure and Properties of Chemical Solution Processed Multiferroic Bi₂CrFeO₆ Thin Films
Alka GUPTA
- D-S11.009(P) A00153-02511** pg D25
Preparation of High-Activity Au/CeO₂ Nanoneedles for CO Oxidation
Yu-Ling LIU, Ping-Jai LIN, Kao-Kan HSU, Huey-Ing CHEN
- D-S11.010(P) A00173-01666** pg D26
Synthesis and Field Emission Properties of Well-Aligned ZnO Nanowires on Buffer Layer
Wei Li ONG, Cha Yung YU, Ying WANG, Chornng Haur SOW, Sharon Xiaodai LIM, Andrew See Weng WONG, Ghim Wei HO
- D-S11.011(P) A00183-00828** pg D27
TiO₂ Composite Electrodes Fabrication for Hybrid Solar Cells
Chung-Bo TSAI, Rui-Ren WANG, Tsung-Lung SHEN, Lee-Yih WANG
- D-S11.012(P) A00184-04740** pg D27
Preparation and Characterization of p-type ZnO Thin Films by Ga and N Co-doping Process
Juho KIM, Sun Sook LEE, Young Sung KIM, Ki-Seok AN
- D-S11.013(P) A00199-01303** pg D28
Synthesis, Crystal Structures and High-Temperature Thermoelectric Properties of Spinel-type Cobalt-Ruthenium Oxides
Junichi TAKAHASHI, Tetsuya KAWANO, Takahiro YAMADA, Takeshi OKUTANI, Hisanori YAMANE
- D-S11.014(P) A00207-00613** pg D28
Diffraction Study of Thermal Decomposition of Ti₂AlC in Vacuum
Wei Kong PANG, It Meng LOW, Brian O'CONNOR, Andrew STUDER, Jens-Petter PALMQUIST
- D-S11.015(P) A00207-02854** pg D29
Diffraction Study of Thermal Decomposition of Ti₃Si_{0.95}Al_{0.05}C₂ in Vacuum
Wei Kong PANG, It Meng LOW, Brian O'CONNOR, Andrew STUDER
- D-S11.016(P) A00212-00918** pg D29
Weak Ferromagnetism and Magnetoelectric Coupling in Multiferroic CuCr_{0.95}Ni_{0.05}O₂
Shijun LUO, Kefeng WANG, Junming LIU
- D-S11.017(P) A00212-00921** pg D29
Disorder Enhanced Magnetoresistant Effect in Manganites
Kefeng WANG, Shuai DONG, Chengliang LU, Junming LIU
- D-S11.018(P) A00250-00469** pg D29
Domain Reorientation Dynamics of Sol – gel Derived Strontium Doped PLZT (8/65/35)
Kanhaiya Lal YADAV, Md Ahamad MOHIDDON
- D-S11.019(P) A00254-00680** pg D30
Synthesis of Sol-gel Derived Mesoporous Silica Nanoparticles
Vorrada LORYUENYONG, Suppakit KITTAMMAGOONNIJ, Koontanee PINWEHA, Sirichai KANKING

- D-S11.020(P) A00260-02412** pg D30
Effect of Fluorine Content in FTO Electrodes Prepared by Spray Pyrolysis on Dye Sensitized Solar Cell Efficiencies
Chanipat EUVANANONT, Sirichai SUPAPON, Chanchana THANACHAYANONT
- D-S11.021(P) A00265-00500** pg D31
Luminescent Enhancement with Tunable Emission in $\text{Sr}_2\text{SiO}_4 : \text{Eu}^{2+}$ Phosphor for White LEDs
Chia-Hao HSU, Chung-Hsin LU
- D-S11.022(P) A00292-00532** pg D31
Fabrication and Characterization of Sb-doped ZnMgO Thin Films by rf Magnetron Reactive Sputtering
Sung Mook CHUNG, Jae Heon SHIN, Min Ki RYU, Woo-Seok CHEONG, Chi-Sun HWANG, Hye Yong CHU, Jun Seong LEE, Young Jin KIM
- D-S11.023(P) A00299-00999** pg D31
Synthesis of Nanotube Photocatalytic TiO_2 Powders via a Hydrothermal Process
Shin-Hom LIN, Chung-Hsin LU
- D-S11.024(P) A00308-00968** pg D31
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Piched ANURAGUDOM, Suwit CHAISUPAN, Suranan NOIMANEE, Sukon PHANICHPHANT
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Mohd Zainizan SAHDAN, Mohamad Hafiz MAMAT, Maria Alfah MOHD ABDULLAH KOI, Zuraida KHUSAIMI, Uzer MOHD NOOR, Azni ZAIN AHMED, Saifollah ABDULLAH, Mohamad RUSOP
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Synthesize and Characterize ZnO Nanowires on ZnO Microcage Using Catalytic Thermal Chemical Vapour Deposition
Mohd Zainizan SAHDAN, Mohamad Hafiz MAMAT, Uzer MOHD NOOR, Azni ZAIN AHMED, Saifollah ABDULLAH, Mohamad RUSOP
- D-S11.027(P) A00325-00598** pg D33
Effect of Spraying Sequence on Physical Properties of SiO_2 on Silicon Deposited by Ultrasonic Spray Pyrolysis
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- D-S11.028(P) A00325-00916** pg D33
Effects of Annealing Temperatures on Cerium Oxide (CeO_2) Gate Based on N-Type Silicon
Hock Jin QUAH, Faraf A. JASNI, Kuan Yew CHEONG, Zainorah HASSAN, Zainovia LOCKMAN
- D-S11.029(P) A00347-00657** pg D34
Mesoporous 3D Ceramic Structure Synthesis from Oxide Powder Compositions Via DMLS
Igor SHISHKOVSKY, Yuri MOROZOV, Maxim KUZNETSOV
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The Electrical and Structural Analysis of Al Doped ZnO Deposited at Low Temperature Using a MOCVD System
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Chang KE, Zhen YANG, Zhi-peng LI, Wei-guang ZHU
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Kok-Wan TAY, Chun-Wei CHANG, Yen-Pei FU
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Kangduk KIM, Seunggu KANG, Yootaek KIM, Kigang LEE, Junghwan KIM
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Ching-Fei LI, Wen-Hsien HO, Shiow-Kang YEN

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Structural and Optical Properties Comparison between Single and Binary Metal Oxide Based on Zinc Oxide for Solar Cell Application
 Madzlan AZIZ, Abdull Rahim MOHD YUSOFF, Noor Jannah AWANG
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Sol-Gel Preparation and Optical Properties of Rare-earth Doped Zinc Oxide Thin Films Suitable for Solar Cell Application
 Madzlan AZIZ, Abdull Rahim MOHD YUSOFF, Noor Jannah AWANG
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Relaxation Dynamics in Epitaxial BiFeO₃ Thin Films
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 Chuanwei HUANG, Lang CHEN, Junling WANG
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Structure and Microstructure of EB-PVD yttria Thin Films Grown on Si (111) Substrate
 Mária HARTMANOVÁ, Matej JERGEL, Juan Pedro HOLGADO, Juan Pedro ESPINOS, František KUNDRACIK
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 Vadim KORONOVSKYY
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 Hua GONG, Jian ZHANG, Dingyuan TANG, Hui HUANG, Jian MA
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 Qian CHEN, Yuanping FENG, Shijie WANG, Jianwei CHAI, Jisheng PAN, Zheng ZHANG
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Fabrication and Photocatalytic Activities in Visible and UV Light Regions of Ag@TiO₂ and NiAg@TiO₂ Nanoparticles
 Haw-Yeu CHUANG, Dong-Hwang CHEN
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 Zhijiang JI
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Influence of Oxygen Pressure on the Ferroelectric Properties of Epitaxial BiFeO₃ Thin Films by Pulsed Laser Deposition
 Lu YOU, Ngeah Theng CHUA, Kui YAO, Lang CHEN, Junling WANG
- D-S11.053(P) A00568-01035** pg D45
Fabrication of ZnO Thin Films by Atomic Layer Deposition Using Flow-rate Interruption Method
 Ching-Shun KU, Jheng-Ming HUANG, Chih-Ming LIN, Hsin-Yi LEE
- D-S11.054(P) A00575-01103** pg D45
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Photoluminescence of Manganese-doped ZnAl₂O₄ Nanophosphors
 Mu-Tsun TSAI, Yu-Xiang CHEN, Pei-Jane TSAI, Yen-Kai WANG
- D-S11.056(P) A00639-02789** pg D47
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 Catalin-Daniel GOLDNER-CONSTANTINESCU, Nicu SCARISOREANU, Maria DINESCU

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Abrasion Behavior of Al₂O₃ Alloys Treated by Plasma Electrolytic Oxidation in Different Electrolytes
Kai WANG, Young Joo KIM, Sigi SANG, Chan Gyu LEE, Bon Heun KOO
Growth and Characterization of ZnO Thin Films Prepared by Reactive Ion Beam Sputtering Deposition with External Electric field
Syuan-Jhih LIN, Liang-Chiun CHAO
- D-S11.059(P) A00668-01577** pg D49 **D-S11.069(P) A00825-01435** pg D55
The Deposition and the Photoluminescence of SrAl₂O₄:Eu²⁺ Thin Films
Jun Seong LEE, Young Jin KIM
Solution-based Synthesis of Functional ZnO based Radial Heterostructure Nanowires
Gongping LI, Tom WU
- D-S11.060(P) A00677-04702** pg D49 **D-S11.070(P) A00827-01441** pg D56
Nanostructure MgO Formation on Si Substrate by 256 nm YAG Laser Deposition
Satoru KANEKO, Kensuke AKIYAMA, Takeshi ITO, Manabu YASUI, Yasuo HIRABAYASHI, Hiroshi FUNAKUBO, Mamoru YOSHIMOTO
Nitrogen Doped ZnO Prepared by Capillaritron Ion Beam Sputtering Deposition
Yu-Ren SHIH, Liang-Chiun CHAO
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Growth and Characterization Of ZnO Quantum Dots by Chemical Vapor Deposition Utilizing Zinc Acetate
Chung-Chi LIAU, Liang-Chiun CHAO
Gas Sensor Characterization of Chemical Bath Deposited Cu_xS Films with Rapid Thermal Treatment
Yung-Tang NIEN, Yu-Hsuan CHANG, In-Gann CHEN
- D-S11.062(P) A00694-01248** pg D50 **D-S11.072(P) A00867-01507** pg D57
Electrical Properties of BiFeO₃ Derived Multiferroic
Sunanda Kumari PATRI,
Ram Naresh Prasad CHOUDHARY
Investigation of the Super-hydrophilic Property and the Self-cleaning Function of Amorphous and Anatase Titanium Dioxide (TiO₂)
Fern NG, Xuan Tung NGUYEN
- D-S11.063(P) A00710-01330** pg D51 **D-S11.073(P) A00872-01519** pg D58
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Vijendra CHAUDHARI, Govind BICHILE
Fabrication of Aluminum-Sheathed Bi₂Sr₂CaCu₂O_x Superconducting Tape
Katherine CALAMBA, Teodorick Barry MANGUERRA, Marvin HERRERA
- D-S11.064(P) A00712-02326** pg D51 **D-S11.074(P) A00883-01535** pg D58
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V MALINOV, G SAVKIN, A RACHKOVSKY, G SMORCHKOV, Yu POZDIAEV
Modeling and Simulation of Ultrasonic Piezoelectric Transducers
Tao LI, Jan MA
- D-S11.065(P) A00745-01322** pg D52 **D-S11.075(P) A00894-01558** pg D59
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Jang-Young KWAK, Jin-Ho YOON, Jung-Sik KIM
Mechanical Strength of Nanosize MgO Added Dip-Coated Bi₂Sr₂CaCu₂O₈ Superconductor Tape at Cryogenic Temperature
Nasri A HAMID, Noor Fairuz SHAMSUDIN, Kat Meng CHIN, Khay Wai SEE
- D-S11.066(P) A00783-01375** pg D53 **D-S11.076(P) A00908-03919** pg D59
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Vibha SRIVASTAVA, Kiran JAIN
Reducing Gas Response Kinetics of Nanostructured Indium Oxide Thin Films
Seetha MAHALINGAM, Bharathi SHIVA, Mangalaraj DEVANESAN, Nataraj DEVARAJ
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Shrabanee SEN, Suman MISHRA
Synthesis and Characterizations Studies on Y_xAg_yBa₂Cu₃O_{7-δ} Composite High T_c Superconducting
Nurulhawa ALI HASIM, Mohd Rafie JOHAN

- D-S11.078(P) A00919-01612** pg D59
Preparation and Characterization of Al-doped ZnO by Radio Frequency Magnetron Sputtering
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- D-S11.079(P) A00924-01622** pg D60
Efficient Photocatalytic Hybrid Low-Dimensional TiO₂ Nanostructures Utilizing Cooperative Self-Assembly
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Dielectric Properties $\text{Bi}_{3.15}\text{Nd}_{0.85}\text{Ti}_3\text{O}_{12}$ Ceramic with a Core-Shell Structure
Guangqing KANG, John WANG, Kui YAO, Jiagang WU

D-S11.191(P) A02909-04975 pg D138
Effect of Deposition Parameters on Structural and Surface Characterization of Magnetron Sputtered MgO Thin Films
 Chandra Bhal SINGH, Surajit SARKAR,
Vandana SINGH, Satyendra KUMAR

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Characterization of Si doped MgO Thin Films for Plasma Display Panels
Surajit SARKAR, Pradeep Kumar RAI,
 Chandra Bhal SINGH, Vandana SINGH,
 Satyendra KUMAR

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Novel Ferroelectric Capacitor for Non-volatile Memory Storage and Biomedical Tactile Sensor Applications
 Shiyang LIU, Lynn CHUA, S. E. VALAVAN,
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An Investigation of Structural, Magnetic and Dielectric Properties of R_2NiMnO_6 (R = rare earth, Y)
K. V. RAMANUJACHARY, R. J. BOOTH,
 R. FILLMAN, H. WHITAKER, Abanti NAG,
 R. M. TIWARI, J. GOPALAKRISHNAN,
 S. E. LOFLAND

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Synthesis of ZnO Nanorods and Highly Textured Films by Hydrothermal Route
Tong LI, H. M. FANG, J. M. XUE, J. DING

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Femto-Second Laser Excitation Studies Of Oxide Thin Films And Heterostructures
X. WANG, G. YOU, Q-H. XU, J. HUIBEN,
 H. HILGENKAMP, T. VENKATESAN, ARIANDO

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Ta Doped TiO_2 : Substitutionality and Bandgap Variation
A. Roy BARMAN; S. DHAR; M. R. MOTAPOTHULA;
 T. K. CHAN; M. BREESE; G. OSIPOWICZ;
 T. VENKATESAN

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Friday, 3 July 2009
 11:00 - 13:15
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11:00 D1-S12.1(O) A00376-00695 pg D36
Analysis of Brittle Ceramics Experiencing High Velocity Impact
Yu-Liang CHEN, Chia-Shih LIN

11:15 D1-S12.2(O) A00075-00431 pg D22
Studies on TIG Welded Monel 400 and Characterization of Oxide Film Formed on the Weldment Exposed Under Air Oxidation and $\text{Na}_2\text{SO}_4 + \text{NaCl}$ (60%) at 700°C
Anand NATARAJAN,
 Devendranath Ramkumar KASINATH,
 Arivazhagan NATARAJAN,
 Narayanan SOCKALINGAM,
 Jayaganthan RENGASWAMY

11:30 D1-S12.3(O) A00082-00309 pg D22
The Effect of Process Parameters on Mullite Based Ceramic Nanocomposite Coatings
 Raj VAIRAMUTHU,
Mubarak Ali MUHAMATH BASHA

11:45 D1-S12.4(O) A00112-00292 pg D23
Nanoparticles of the Giant Dielectric Ceramic, $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$, from a Complex Oxalate Precursor Route
P. THOMAS, K. DWARAKANATH, K. B. R. VARMA,
 T. R. N. KUTTY

12:00 D1-S12.5(O) A00639-01150 pg D47
Effect of Doping of Cobalt and Lanthanum (Independently and Simultaneous) on Nature of Ferroelectric to Paraelectric Transition
Om PARKASH, Sindhu SINGH, Devendra KUMAR,
 Prabhakar SINGH

12:15 D1-S12.6(O) A01699-04972 pg D96
Influence of Hydrogen in Magnetron Sputtering Deposition of MgO Thin Films for Plasma Display Panels
Chandra Bhal SINGH, Vandana SINGH,
 Satyendra KUMAR

12:30 D1-S12.7(O) A01819-03168 pg D98
Effect of Surface-layer on Giant Dielectric Properties of $\text{Li}_{0.05}\text{Ti}_{0.05}\text{Ni}_{0.90}\text{O}$ Ceramic
Prasit THONGBAI, Teerapon YAMWONG,
 Santi MAENSIRI

12:45 D1-S12.8(O) A02167-03728 pg D111
Electric-field Control of Magnetic Domain Structures in Ferroelectric/Ferromagnetic Heterostructures
 Yiwei LIU, Bin CHEN, Kuibo YIN, Run-Wei LI



13:00 D1-S12.9(O) A02180-03755 pg D113
The Effects of Annealing Temperature and Barium Oxide on the ZnO Varistor Degradation
Elham NEMATI CARI BOZORG, Ali NEMATI

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11:00 D2-S12.1(O) A01531-02680 pg D89
Quantum Effects in Group IV Nanostructures Embedded into Crystalline Rare Earth Oxides on Silicon Substrates
Apurba LAHA, Marcel JESTREMSKI, Ashkar ALI, Eberhard BUGIEL, Dong WONG, Andreas FISSEL, Suman DUTTA, Joerg OSTEN

11:15 D2-S12.2(O) A02212-03786 pg D113
Highly Oriented PZT Films Grown On Si with Improved Ferroelectric and Piezoelectric Properties
Thang D. PHAM, Mai T.N. PHAM, Guus RIJNDERS, Dave H.A. BLANK

11:30 D2-S12.3(O) A02234-03941 pg D114
Preparation and Photocatalytic Properties of the Mesoporous Fe-doping Nanometer TiO₂
Yucheng WU, Rong REN, Fengtao WANG, Linyun SONG

11:45 D2-S12.4(O) A02320-04832 pg D117
Magneto-electrical Studies in LSMO-BTO Bulk and Nano Composites
Pawan KUMAR, Vikash SINGH, R.K. DWIVEDI, Ravikant PRASAD, H.K. SINGH

12:00 D2-S12.5(O) A02432-04155 pg D120
Detailed Studies of Multiferroic Properties in LaFeO₃-PbTiO₃ Solid-solutions
Anupinder SINGH, Ratnamala CHATTERJEE

12:15 D2-S12.6(O) A02718-04668 pg D130
Synthesis of Corundum Nanocrystals
Georgy PANASYUK, Lidiya AZAROVA, Igor VOROSHILOV, Victor BELAN, Dmitry SHABALIN, Irina KOZEROZHETS

12:30 D2-S12.7(O) A02909-04974 pg D137
Optimization of Thickness of Magnetron Sputtered MgO Thin Films Thickness as Protective Layer for Plasma Display Panels
Chandra Bhal SINGH, Vandana SINGH, Debjit DATTA, Surajit SARKAR, Satyendra KUMAR

12:45 D2-S12.8(O) A02947-05037 pg D140
Fabrication and Mechanism of Large Area and Uniform Silver Dendritic Micro-structures
Hui LIU, Yang YANG, Xiaopeng ZHAO, Zhenfeng ZHU
