

SYMPOSIUM K

Nano Patterning & Surface Characterization

Symposium K: Nano Patterning & Surface Characterization

Level 3, Room 326

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 K-S1 Nano Patterning	(10:30 - 12:30) Session K-S4 Nano Patterning	(10:30 - 12:30) Session K-S6 Templated Growth	(10:30 - 12:30) Session K-S9 Dip Pen Lithography	(11:00 - 13:00) Session K-S12 Surface Characterization
(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 K-S2 Bio-Patterning	(14:00 - 16:30) Session K-S5 Scanning Probe Technologies	(14:00 - 15:30) Session K-S7 Self-assembly	(14:30 - 16:00) Session K-S10 Nanosphere Lithography	<div style="position: absolute; width: 100%; height: 100%; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%); pointer-events: none;"></div>
(16:15 - 16:30) Break		(15:30 - 17:30) Session K-S8 Self-assembly-2	(16:00 - 18:00) Session K-S11 POSTER SESSION	
(16:30 - 18:00) Session K-S3 Energy				
	(18:00 - 20:00) Public Lectures @ UCC Peter Doherty Peter Gruenberg	(19:00 - 20:00) Public Lecture @ UCC Hartmut Michel	(19:00 - 22:00) Conference Banquet @ Suntec	

Symposium K(2): Nano Patterning & Surface Characterization

Level 3, Room 323

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
/	(10:30 - 12:30) Session K2-S4 Nano Patterning	/	/	/
(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 - 16:30) Session K2-S5 Nanoimprint Lithography	/	/	/
(15:00 - 16:15) Session K2-S2 Thin Films				
(16:15 - 16:30) Break				
(16:30 - 17:45) Session K2-S3 Nanoscale Characterization	/			
/	(18:00 - 20:00) Public Lectures @ UCC Peter Doherty Peter Gruenberg	(19:00 - 20:00) Public Lecture @ UCC Hartmut Michel	(19:00 - 22:00) Conference Banquet @ Suntec	/

K-S1: Nano Patterning

Monday, 29 June 2009

11:00 - 13:00

Level 3, Room 326

Chair: Jim DE YOREO

11:00 K-S1.1-2(KN) A00698-01255 pg K14
Hybrid Nanopattern Supramolecular Architecture Investigated by Scanning Tunneling Microscopy
Li-Jun WAN

11:30 K-S1.3-4(IN) A02691-04628 pg K45
Electrochemical Anodization and Interfacial Reaction Growth of Porous Functional Nanomaterials
Kai WU

12:00 K-S1.5-6(IN) A01041-01814 pg K20
Lithographically Controlled Growth of Al₂O₃ Membranes: Development of a Tool-box for 1D Nanostructures
Kornelius NIELSCH

K-S2: Bio-Patterning

Monday, 29 June 2009

14:00 - 16:15

Level 3, Room 326

Chair: Yong CHEN

14:00 K-S2.1-2(IN) A02681-04611 pg K45
A Biomimetic Approach to Template-driven Fabrication of Nanostructures
Jim DE YOREO

14:30 K-S2.3-4(IN) A01841-03195 pg K35
Interfacing Living Cells with Nanostructured Materials
Peng CHEN

15:00 K-S2.5-6(IN) A02562-04378 pg K42
Tailored Nanostructure-Based Optical Biosensing Strategies
Jwa-Min NAM

15:30 K-S2.7(O) A00117-00380 pg K9
2D Bicomponent Supramolecular Patterns on Solid Surfaces: Flexibility and Functionality
Yuli HUANG, Wei CHEN, Han HUANG, Andrew WEE

15:45 K-S2.8(O) A01886-03281 pg K36
Protein Immobilization and Specific Protein-Protein Binding Events Drive Orientational Transitions of Liquid Crystals
Deny HARTONO, Chang-Ying XUE, Kun-Lin YANG, Lin-Yue Lanry YUNG

16:00 K-S2.9(O) A02580-04407 pg K42
Highly Ordered Chemical Patterns for Controlling Proteins at Interfaces using Binary Colloid Crystals as Templates

Gurvinder SINGH, Saju PILLAI, Ayyoob ARPANA EI, Morten FOSS, Peter KINGSHOTT

K2-S2: -Thin Films

Monday, 29 June 2009

15:00 - 16:15

Level 3, Room 323

Chair: Wanxin SUN

15:00 K2-S2.5(O) A01376-04412 pg K28
A Surface Analytical Approach for Optimization of Process Parameters to Get Stoichiometric Nanostructured Titanium Nitride Thin Film through Reactive Pulsed Laser Deposition
Krishnan RAMASWAMY

15:15 K2-S2.6(O) A00395-00740 pg K11
Fabrication of Nanotip Array Template in Anodized Aluminum Oxide (AAO)
Kwang Hong LEE, Xin Yuan LIM, Kah Wing WAI, Filippo ROMANATO, Chee Cheong WONG

15:30 K2-S2.7(O) A01894-03264 pg K37
Study of the Desorption Behavior of Self Assembled Monolayer on GaAs and Au by TOF-SIMS
Luan XI, Silas HUNG, Heng Yong NIE, Oscar GRIZZI, Woon-Ming LAU

15:45 K2-S2.8(O) A01643-03079 pg K30
Interaction of PTCDA with Au Nanostructures on MoS₂
Xinjun CHU, Yuzhan WANG, Xingyu GAO, Xuesen WANG

16:00 K2-S2.9(O) A01261-02239 pg K24
Influence of Some Effective Parameters on Corrosion Behaviour, Texture and Morphology of Zinc-Manganese Coatings
Somayeh KHANI, Zohreh SOLTANI, Keivan RAEISSI, M. Ali GOLOZAR

K-S3: Energy

Monday, 29 June 2009

16:30 - 18:00

Level 3, Room 326

Chair: Kai WU

16:30 K-S3.1-2(IN) A01738-03024 pg K32
The Impact of Intramolecular Polar Bonds on the Ionization Energy of Organic Semiconductor Films
Norbert KOCH

17:00 K-S3.3-4(IN) A02605-04449 pg K43
Surface-Templated Assembly for Organic Solar Cells
and Nanophotonics
Ginger DAVID

17:30 K-S3.5(O) A02582-04411 pg K43
Improvement on the Performance of Flexible
CNT-OLED with a Nano Layer of CF_x Layer
Kian Soo ONG, Eric OU

17:45 K-S3.6(O) A01453-02556 pg K29
Superhydrophili-superhydrophobic Patterning:
A New Approach to Micro- and Nanochemical
Patterning of TiO₂ Nano Structured Films
Yue-Kun LAI, Yong-Xia HUANG, Ze-Quan LIN,
Chang-Jian LIN

K2-S3: Nanoscale Characterization

Monday, 29 June 2009

16:30 - 18:00

Level 3, Room 323

Chair: Rongkun ZHENG

16:30 K2-S3.1(O) A01049-02379 pg K21
Structural Characterization and Regulation of
Organodithiol Self-Assembled Monolayers on Gold:
An AFM Study
Jing-jiang YU

16:45 K2-S3.2(O) A02175-03740 pg K39
Influences of the Ligand on Photoelectron Behaviors
in Core-shell Structure of CdTe Nanoparticles
Kuiying LI, Hao ZHANG, Tong LIU, Bingjing ZHOU,
Weiyong YANG, Sailing WEI

17:00 K2-S3.3(O) A02654-04551 pg K44
Development and Characterization of Functional
Cubic Silsesquioxane-Urethane Hybrid
Nanostructured Materials
Khine Yi MYA, Yinxia WANG, Lu SHEN, Xuehong LU,
Chaobin HE

17:15 K2-S3.4(O) A02739-04883 pg K46
Temperature Dependent Modifications of Ag/SiO₂/p-Si
Schottky Contacts Formed at 20 K
Awais ALI, Muhammad YASAR, Faisal NASIM,
Arshad Saleem BHATTI

17:30 K2-S3.5(O) A01196-02042 pg K23
Surface Morphology and Oleophilicity of Surface
Modified Polypropylene
Joybel BUGNA, Lou Serafin LOZADA

K-S4: Nano Patterning

Tuesday, 30 June 2009

10:30 - 12:15

Level 3, Room 326

Chair: Harry HEINZELMANN

10:30 K-S4.1-2(IN) A00388-00710 pg K11
The Preparation and Properties of Conical Surface
Nanostructures Based on Maskless Plasma Etching
Changzhi GU

11:00 K-S4.3-4(IN) A01844-03199 pg K36
Hosting Molecules on a 3 nm Grid on sp² Single
Layers on Transition Metals
Thomas GREBER

11:30 K-S4.5(O) A00706-01264 pg K15
New Strategies for Improving Dip-Pen
Nanolithography
Chien-Ching WU, Huaping XU, Cees OTTO,
David N. REINHOUDT, Jurriaan HUSKENS,
Vinod SUBRAMANIAM, Aldrik H. VELDEERS

11:45 K-S4.6(O) A01332-02328 pg K26
Long-range Alignment of Single Fullerene Molecules
Using Guest-host Molecular Networks
Fabien SILLY, Denis FICHOU

12:00 K-S4.7-8(IN) A01800-03145 pg K34
Massively Parallel Multiplexed Dip-Pen
Nanolithography
YuHuang WANG

K2-S4: Nano Patterning

Tuesday, 30 June 2009

10:30 - 12:30

Level 3, Room 323

Chair: Thomas GREBER

10:30 K2-S4.1-2(IN) A02829-04847 pg K47
Micro-aspiration Lithography and Demonstrations
Mael LE BERRE, Chunxiong LUO, Li LIU, Li WANG,
Cécile CROZATIER, Jian SHI, Yong CHEN

11:00 K2-S4.3(O) A02993-05114 pg K50
Energy Filtered PhotoElectron Microscopy
K. WINKLER, M. ESCHER, B. KRÖMKER,
D. FUNNEMANN

11:15 K2-S4.4(O) A00646-01161 pg K13
Hybrid and Metallic Nanostructures Fabricated by
Direct Laser Writing
Konstantina TERZAKI, Arune GAIDUKEVICIUTE,
Carsten REINHARDT, Anastasia GIAKOUMAKI,
Costas FOTAKIS, Boris CHICHKOV, Maria FARSARI,
Maria VAMVAKAKI

11:30 K2-S4.5(O) A01008-01764 pg K20
Laser Projection Direct Patterning in Passivation Layer of Thin-film Transistors
Chao-Nan CHEN, Gene SHEU, Shao-Ming YANG, Gwo-Mei WU

11:45 K2-S4.6(O) A01105-02024 pg K21
Surface Studies of Micro/nano Structures Fabricated Using Multiphoton Lithography
Yuanjun YAN, Chammika UDALAGAMA, Andrew BETTIOL

12:00 K2-S4.7(O) A02564-04381 pg K42
Single Exposure Grating Based Dual Beams Interference Lithography for Printing of Nanoscale Features
Jeun Kee CHUA, Vadakke Matham MURUKESHAN

12:15 K2-S4.8(O) A02740-04812 pg K47
Patterned Growth of Si Nanowires: A Comparative Study of VLS and SLS
Muhammad Fakhar ZIA, Junaid ALI, Ahmer NAWAED, Arshad Saleem BHATTI, Shahid NASEEM

K-S5: Scanning Probe technologies

Tuesday, 30 June 2009

14:00 - 16:30

Level 3, Room 326

Chair: Andrew T. S. WEE

14:00 K-S5.1-2(IN) A02923-04996 pg K48
Multimodal Scanning Probe Lithography
Chang LIU

14:30 K-S5.3-4(IN) A02143-03689 pg K38
Preparation of Inorganic Nanostructures by Dip-Pen Nanolithography
Yan LI, Haibin CHU, Lei DING, Sun HAO

15:00 K-S5.5(O) A00118-01056 pg K9
Nonlocal Chemical Reaction of Adsorbed Molecules Induced by Hot-electron Transport in Interface States
Lan CHEN, Hui LI, Andrew WEE

15:15 K-S5.6(O) A00777-01363 pg K17
Substrate Dependent Self-Assembled Epitaxial Growth of Nanoscale Cu₃Si on Si Wafers Assisted by Au Nanoparticles
Zhou ZHANG, Tom WU, Lai Mun WONG, Shi jie WANG

15:30 K-S5.7(O) A00905-01623 pg K18
Crystalline Structure of Solvation Layers at the Liquid-Solid Interface by AFM
Wulf HOFBAUER, Rongjian HO, Nitya Nand GOSVAMI, Sean J. O'SHEA

15:45 K-S5.8(O) A02199-03764 pg K39
Electroactive Behaviour of Coordinated Ferrocene Moieties Observed by Molecular Resolution Scanning Tunneling Microscopy
Lloyd AH QUNE, Kaoru TAMADA, Hara MASAHIKO, Andrew WEE

16:00 K-S5.9(O) A01686-02915 pg K31
ZnO-based Spinel Nanostructures via Controlled Interface Reaction
Hongjin FAN, Yang YANG

16:15 K-S5.10(O) A02413-04115 pg K41
In-line Centroid Detection and Surface Measurement with Digital Shack-Hartmann Wavefront Sensor
Xiaoming YIN

K2-S5: Nanoimprint Lithography

Tuesday, 30 June 2009

14:00 - 16:30

Level 3, Room 323

Chair: LOW Hong Yee

14:00 K2-S5.1-2(IN) A00697-01253 pg K14
Simulation and Experimental Study on De-molding Process in Nanoimprint Lithography
Yoshihiko HIRAI, Hiroaki KAWATA, Zymunt RYMUZA

14:30 K2-S5.3(O) A01938-03446 pg K37
High-Resolution Contact Printing with Chemically Patterned Flat Stamps Fabricated by Nanoimprint Lithography
Xuexin DUAN, Yiping ZHAO, Andras PERL, Erwin BERENSCHOT, David N. REINHOUDT, Jurriaan HUSKENS

14:45 K2-S5.4(O) A02609-04457 pg K43
Synthetic Nano-pillared Gecko Tapes Fabricated with Porous Alumina Templates with Tuned Geometrical Parameters
Audrey Yoke Yee HO, Isabel RODRIGUEZ, Yee Cheong LAM

15:00 K2-S5.5(O) A00230-04268 pg K10
Photolithography on Cylindrically Curved Surface for Fabricating Seamless Roller Mold and Roller Imprinting of Micro-Structures
Yung-Chun LEE, Chang Hsiang LEE, Shou-Chi CHO

15:15 K2-S5.6(O) A01243-02134 pg K24
Residual Layer Self-removal in Imprint Lithography
Jarrett DUMOND, Hong Yee LOW

15:30 K2-S5.7(O) A01487-04391 pg K30
A Method for Patterning Conducting Polymers with Nanoimprint Lithography and Isotropic Plasma Etching
 Chunyu HUANG, Bin DONG, Nan LU, Bingjie YANG, Liguao GAO, Lu TIAN, Dianpeng QI, Qiong WU, Lifeng CHI

15:45 K2-S5.8(O) A01740-03034 pg K32
Fabrication of Butterfly-mimetic Photonic Nanostructures Using Nanoimprint Lithography and Shear Patterning Technique
Tanu Suryadi KUSTANDI, Hong Yee LOW, Jing Hua TENG, Isabel RODRIGUEZ

16:00 K2-S5.9(O) A01824-03174 pg K34
Nanoimprint Mold Fabrication and Duplication for Discrete Track Recording Media
Ei-Leen TAN, Rachid SBIAA, Kyaw Oo AUNG, Seidikkurippu Nellainayagam PIRAMANAYAGAM, Seng Kai WONG, Hang Khume TAN, Wei Choong Allen POH, Naganivetha THIYAGARAJAH

16:15 K2-S5.10(O) A01859-03214 pg K36
3D Nanoimprint Templates with Ultra-high Vertical Precision
 Martin BARTELS, Xiaolin WANG, Thomas KUSSEROW, Florestan KOEHLER, Stefan WITZACK, Hartmut HILLMER

K-S6: Templated growth

Wednesday, 1 July 2009
 10:30 - 12:30
 Level 3, Room 326
 Chair: Seunghun HONG

10:30 K-S6.1-2(KN) A02411-04113 pg K40
Functional Surfaces Based on Ordered Alumina Nanohole Arrays
Hideki MASUDA

11:00 K-S6.3-4(IN) A00700-04353 pg K15
Dynamic Stencil Lithography - An In-situ Free-motion Nanopatterning Technique
Veronica SAVU, Guillermo VILLANUEVA, Oscar VAZQUEZ-MENA, Katrin SIDLER, Kristopher PATAKY, Juergen BRUGGER

11:30 K-S6.5-6(IN) A01654-02860 pg K31
Formation of Large Scale Silver Nanowire Membranes with Oriented Nanowire Structures
Xiaogang LIU

12:00 K-S6.7(O) A02295-04026 pg K39
Highly Ordered, Free Standing Silver Nanowire-Fabrication and Optical Properties
Jinghua FANG, Lin LING, Paul SPIZZIRI, Ann ROBERTS, Steven PRATER

12:15 K-S6.8(O) A02519-04472 pg K41
Formation of Surface Nanoparticle Patterns with Directed Self-Assembly and Nanolithography
Deying XIA, Steven BRUECK, Yet-Ming CHIANG, Chee Cheong WONG

K-S7: Self-assembly

Wednesday, 1 July 2009
 14:00 - 15:30
 Level 3, Room 326
 Chair: David GINGER

14:00 K-S7.1-2(IN) A01826-03178 pg K35
Supramolecular Functional Materials with Patterned and Regular Structures
Katsuhiko ARIGA

14:30 K-S7.3-4(IN) A02618-04474 pg K43
Self-Assembled Polymeric Nanostructures
Harry HEINZELMANN

15:00 K-S7.5-6(IN) A01712-02987 pg K31
Molecular Self-Assembly on Surfaces and Surface Nanotemplates
Wei CHEN, Andrew Thye Shen WEE

K-S8: Self-assembly-2

Wednesday, 1 July 2009
 15:30 - 17:15
 Level 3, Room 326
 Chair: Katsuhiko ARIGA

15:30 K-S8.1(O) A02820-04831 pg K47
Self-Assembly Derived High-density Nanopatterns to Control Nanoparticle Formation and Organization on Surfaces
 Fung Ling YAP, Sivashankar KRISHNAMOORTHY

15:45 K-S8.2(O) A01154-01998 pg K22
Porous Polymer Films by Breath Figure Array Method
Anantha P, Yik Ling FONG, Chee Cheong WONG

16:00 K-S8.3(O) A01015-02470 pg K20
Formation of Self Organized Patterns in Polystyrene Thin-film by Solvent Condensation
Ankur VERMA, Ashutosh SHARMA

16:15 K-S8.4-5(IN) A00499-01827 pg K12
Exploring Molecular Assembly at Surfaces
Federico ROSEI

16:45 K-S8.6(O) A00194-00371 pg K9
Photochemical surface patterning by the thiol-ene reaction
Pascal JONKHEIJM, Herbert WALDMANN, Dirk WEINRICH

17:00 K-S8.7(O) A00830-01443 pg K17
Tuning the 2D Supramolecular Self-Assembly of Binary Organic Layers
Esther BARRENA, Dimas DE OTEYZA,
Tobias KRAUSS, Enrique ORTEGA, Helmut DOSCH,
Yutaka WAKAYAMA

K-S9: Dip Pen Lithography

Thursday, 2 July 2009
10:30 - 12:30
Level 3, Room 326
Chair: Ling HUANG

10:30 K-S9.1-2(IN) A00354-00658 pg K10
Dip Pen Nanolithography on Tissue Surfaces
Albena IVANISEVIC

11:00 K-S9.3-4(IN) A02330-04006 pg K40
Matrix-Assisted Dip-Pen Nanolithography
Ling HUANG, Chad MIRKIN

11:30 K-S9.5-6(IN) A01644-02847 pg K31
AFM Nanooxidation of Semiconductors
X. N. XIE, H. J. CHUNG, C. H. SOW, A. T. S. WEE

12:00 K-S9.7(O) A01312-02299 pg K25
Controlled Growth of Peptide and Carbon Nanotube Arrays on Dip-Pen Nanolithography Generated Templates
Xiaozhu ZHOU, Bing LI, Gang LU, Xiehong CAO,
Freddy Y. C. BOEY, Hua ZHANG

12:15 KS9.8(IN)
On the Role of Surface Structure on Interfacial Energy
Francesco STELLACI

K-S10: Nanosphere lithography

Thursday, 2 July 2009
14:30 - 16:00
Level 3, Room 326
Chair: Federico ROSEI

14:30 K-S10.1-2(IN) A01356-02368 pg K27
Large-Area Nano-array Patterns by Nanosphere lithography
Nianqiang Nick WU

15:00 K-S10.3-4(IN) A01745-03032 pg K33
Templated-assembly Strategy for Large-scale Integration of Nanostructure-based Devices
Seunghun HONG

15:30 K-S10.5(O) A01325-02319 pg K26
Self-Assembly of Crystalline Organic 1D Nanostructures Directed by Gold Nanoparticle Templates
Tobias N. KRAUSS, Esther BARRENA,
Theobald LOHMÜLLER, Marion KELSCH,
Yun JIN-PHILLIPP, Peter A. VAN AKEN,
Joachim P. SPATZ, Helmut DOSCH

15:45 K-S10.6(O) A00515-01542 pg K12
Real Time Visualization of Template Directed Colloidal Self Assembly
Qin ZHAO, Maria Regina HARTONO,
Husen Kartasasmita KANG, Chan Hoe YIP,
Chee Cheong WONG

K-S11: Poster Session

Thursday, 2 July 2009
16:00 - 18:00
Level 3, Gallery

K-S11.01(P) A00430-00810 pg K11
A Non-Transferring Dry-Adhesive with Hierarchical Polymer Nanohairs
Hoon Eui JEONG, Jin-Kwan LEE, Hong Nam KIM,
Sang Heup MOON, Kahp Y. SUH

K-S11.02(P) A00462-00965 pg K12
The Effect of Surface Bond Reconstruction of Thermal Contact Surfaces on Phonon Transport in Atomic Wires
Jing LI, Tin Cheung AU YEUNG, Xuean ZHAO,
Chan Hin KAM, Qinghu CHEN

K-S11.03(P) A00558-01242 pg K13
Nanostructure Formation on Polymer Films by Electron Beam Irradiation
Vaibhav KULSHRESTHA, Garima AGARWAL,
Balram TRIPATHI, Kamalendra AWASTHI,
Rashi NATHAWAT, Indra Prabh JAIN,
Yogesh Kumar VIJAY

K-S11.04(P) A00598-04236 pg K13
Stresses Relaxation Mechanism in the Si-SiO₂ System and its Influence on the Interface Properties
Daniel KROPMAN, Enn MELLIKOV, Tiit KARNER,
Tonu LAAS, Artur MEDVID

K-S11.05(P) A00717-01282 pg K16
Enhanced the Extraction Efficiency of AlGaInP LEDs with n-side nano-roughened surface using Inductively Coupled Cl₂/BCl₃/Ar Plasma
Jee-Hue JOO, Hwa-Sub OH, Sang-Hern LEE,
Sung-Hoon JUNG, Jong-Hyeob BAEK, June-Key LEE

- K-S11.06(P) A00766-01349** pg K16
Nanocrystalline Polymeric Coating for Corrosion Protection
Cheak Khan Willy TAN, Li Ling NG
- K-S11.07(P) A00768-01351** pg K16
The Optical Properties of Antireflection Nanostructured Surfaces Fabricated by Nanoparticles
Bo-Tau LIU, Wei-De YEH
- K-S11.08(P) A00824-02071** pg K17
Non-close-packed Non-spherical Colloidal Particle Structures Fabricated by Combining Pre-heating and Reactive Ion Etching
Chunxiao CONG, William Chandra JUNU, Ting YU, Zexiang SHEN
- K-S11.10(P) A00926-02173** pg K18
Investigation of Anti-adhesive Coatings for Nano-imprinting Lithography
Zhaowei ZHONG, Xuechuan SHAN, Yongchang YAO
- K-S11.11(P) A00926-02205** pg K19
A Micro Roller Hot Embossing Process for Microfluidic Device Fabrication
Zhaowei ZHONG, Zhenfeng WANG, Lip Pin YEO, Zhiping WANG, Thang Van SANG, Sum Huan NG
- K-S11.12(P) A00971-01691** pg K19
Fluorinated Brush-type Amphiphilic Diblock Copolymers and its Application for Anti-Fouling
Maureen B. H. TAN, Hazrat HUSSAIN, Chakravarthy GUDIPATI, Ye LIU, Chao Bin HE, Thomas DAVIS
- K-S11.13(P) A01079-02312** pg K21
Facial Fabrication of ZnO “Flower” Microrings
Jihong WU, Siau Gek ANG, Guo Qin XU
- K-S11.14(P) A01111-01916** pg K22
Strategies for Improving the Sensitivity of Focused Ion Beam Secondary Ion Mass Spectrometry (FIB-SIMS)
Libing LI, David MCPHAIL, Andrew WEE
- K-S11.15(P) A01127-01946** pg K22
Templated Fabrication of Large Area Antireflective Subwavelength Structure on GaAs Surface
Yadong WANG, Chongyang LIU, Qian WANG, Doris NG, Seng Tiong HO
- K-S11.16(P) A01222-02085** pg K23
Impact of Sharpened Tips on Scanning Probe Spectroscopy
Zhihua YONG, Kuan Eng Johnson GOH, Troadec CEDRIC
- K-S11.17(P) A01311-02295** pg K25
Fabrication of Bio- and Nano-Arrays on Basis of Dip-pen Nanolithography
Bing LI, Xiaozhu ZHOU, Gang LU, Xiehong CAO, Freddy Y. C. BOEY, Hua ZHANG
- K-S11.18(P) A01334-02342** pg K27
Molecular Dynamics Study on Filling Pressure of Polymer in Nanoimprint Lithography
Akihiro TAGA, Shuhei HORIMOTO, Masaaki YASUDA, Hiroaki KAWATA, Yoshihiko HIRAI
- K-S11.19(P) A01338-02896** pg K27
Nanomorphology and Photophysical Properties of Donor/Acceptor Heterojunctions Based on Small Conjugated Molecules
Carmen MUNUERA, Monamie SANYAL, Esther BARRENA, Helmut DOSCH
- K-S11.20(P) A01370-02389** pg K28
Fabrication of Gold Micro/nano-patterns on Flexible PET Sheet by Imprint Techniques
Yi-Chang CHUNG, Shu-Han HSU, Shao-Wei YANG
- K-S11.21(P) A01392-02662** pg K28
Direct Replication of Lotus Leaf Surface Using Polymer Casting
Sathyan SUBBIAH, David Lee BUTLER
- K-S11.22(P) A01636-03515** pg K30
Surface-directed and Ethanol-induced DNA Condensation on Mica
Ce ZHANG, Van Der Maarel JOHAN
- K-S11.23(P) A01776-03114** pg K33
Toward Organic Spintronics: A Study of Magnetic Metal and Organic Multilayer Systems
Yuzhan WANG, Shi CHEN, Dongchen QI, Xingyu GAO, Andrew T S WEE
- K-S11.24(P) A01783-04086** pg K33
Magnetic Field Assisted Microcontact Printing of Protein Patterns on Hydrophobic Substrate
Haijun YANG, Hai LI, Guangxia SHEN, Jun HU, Shouwu GUO
- K-S11.25(P) A01938-03476** pg K37
Bifunctional Chemically Patterned Flat Stamps for Microcontact Printing of Polar Inks
Xuexin DUAN, Veera B. SADHU, Andras PERL, Maria PETER, David N. REINHOUDT, Jurriaan HUSKENS
- K-S11.26(P) A01988-03635** pg K38
Collidal Self Assembly via Streptavidin-Biotin Conjugation
Guoyang TOH, Keqin ZHANG, Xiang Yang LIU

K-S11.27(P) A02107-03632 pg K38
Electrochemical Nanostructuring of Materials by Capillary-Force Assisted Method
Victor TIMOSHENKO, Natalia MASLOVA,
Kirill GONCHAR, Yerzhan TAURBAEV

K-S11.28(P) A02372-04056 pg K40
Lattice Dynamics of Co/Pt(111) Interfaces from First Principles
Wai Leung YIM, Thorsten KLUENER

K-S11.29(P) A02629-04511 pg K44
Synthesis and Oxidation of Cu-Au Alloyed and Cu/Au Core-Shell Nanoparticles
Chun-Hua CHEN, Chih-Ping WANG

K-S11.30(P) A02712-04856 pg K46
In-situ Synthesis of Silver Nanoparticles in Organic Medium
Ajit PHULE, Shanker RAM, Avesh Kumar TYAGI

K-S11.32(P) A02983-05099 pg K49
Reduced Pore Diameters in Nanopore Anodic Alumina Films
I. MÍNGUEZ-BACHO, A. ASENJO, M. JAAFAR,
M. VÁZQUEZ, M. HERNÁNDEZ-VÉLEZ

K-S11.33(P) A02983-05100 pg K49
Nanoporous Alumina Films Prepared By Nanoindentation and Anodic Oxidation
M. JAAFAR, D. NAVAS, M. HERNÁNDEZ-VÉLEZ,
J. Luis BALDONEDO, M. VÁZQUEZ, A. ASENJO

K-S11.34(P) A03002-05125 pg K51
Layer-by-Layer-Assembled Polyelectrolyte Platform-Based Nanoenvironments for Quantitative Disease Diagnostic Cell Assays
Hyo-Jin LEE, Jinhwa SEO, Youngsun JANG,
Kookheon CHAR, Jwa-Min NAM

K-S11.35(P) A01268-02195 pg K25
Dip-Pen Lithography as Tool for Fabrication & Patterning for Molecular Electronics
Darren ROWLANDS, Aled WILLIAMS,
Justin R. LAWRENCE, Geoffrey J. ASHWELL

11:30 K-S12.3-4(IN) A01456-02530 pg K29
Structural and Mechanical Properties Characterization of Biomaterials in Fluid with True Atomic Resolution
Wanxin SUN, Chanmin SU

12:00 K-S12.5-6(IN) A00744-03665 pg K16
Atom Probe Tomography of Self-Assembled Monolayers
Rongkun ZHENG, Wenrong YANG, Baptiste GAULT,
Kyle RATINAC, Filip BRAET, Simon RINGER

12:30 K-S12.7(O) A02992-05113 pg K50
QPlus AFM with Small Oscillation Amplitudes and High Frequencies at 5 K
A. BETTAC, J. KOEBLE, M. MAIER, K. WINKLER,
B. UDER, A. FELTZ

12:45 K-S12.8(O) A01233-02114 pg K23
High Resolution, High Speed Confocal Raman AFM Imaging of Heterogeneous Materials
Matthias KRESS, Thomas DIEING, Ute SCHMIDT,
Olaf HOLLRICHER

K-S12: Surface Characterization

Friday, 3 July 2009

11:00 - 13:00

Level 3, Room 326

Chair: Alben Ivanisevic

11:00 K-S12.1-2(IN) A02898-04955 pg K48
Heteroepitaxial Self-assembled Nanostructures and Surface-phase Characterization
S. M. SHIVAPRASAD