

Poster Session

P1	Development of High-Resolution Ptychographic X-ray Diffraction Microscopy Using Focused Hard X-ray Beam	A. Suzuki ¹ , Y. Takahashi ¹ , N. Zettsu ² , Y. Kohmura ³ , K. Yamauchi ¹ and T. Ishikawa ³	¹ Osaka University ² Nagoya University ³ RIKEN/SPring-8
P2	Element-Specific Ptychographic X-ray Diffraction Microscopy Using Anomalous Scattering	Y. Takahashi ¹ , A. Suzuki ¹ , N. Zettsu ² , Y. Kohmura ³ , K. Yamauchi ¹ and T. Ishikawa ³	¹ Osaka University ² Nagoya University ³ RIKEN/SPring-8
P3	Development of Multiply-Arranged Elliptical Neutron Focusing Supermirror Device -Fabrication Process of High-Precision Thin Elliptical Supermirror-	M. Nagano ¹ , F. Yamaga ¹ , D. Yamazaki ² , R. Maruyama ² , K. Soyama ² and K. Yamamura ¹	¹ Osaka University ² JAEA
P4	Estimation of Alignment Tolerance for Multiply-Arranged Elliptical Neutron Focusing Supermirror Device by Ray-Tracing Simulation	F. Yamaga ¹ , M. Nagano ¹ , D. Yamazaki ² , R. Maruyama ² , K. Soyama ² and K. Yamamura ¹	¹ Osaka University ² JAEA
P5	Development of Hard X-ray Imaging Optics for Achromatic Full-Field X-ray Microscopy	S. Matsuyama ¹ , N. Kidani ¹ , Y. Emi ¹ , Y. Sano ¹ , Y. Kohmura ² , T. Ishikawa ² and K. Yamauchi ^{1,3}	^{1,3} Osaka University ² RIKEN/SPring-8
P6	Development of an Adaptive X-Ray Focusing Mirror with Large NA - Evaluation of Reproducibility of Deformable Mirror -	H. Nakamori ¹ , S. Matsuyama ¹ , S. Imai ¹ , H. Yokoyama ¹ , T. Kimura ² , H. Mimura ³ , Y. Sano ¹ , Y. Kohmura ⁴ , T. Ishikawa ⁴ and K. Yamauchi ^{1,5}	^{1,5} Osaka University ² Hokkaido University ³ The University of Tokyo ⁴ RIKEN/SPring-8
P7	Plasmonic Property of High-Density Gold Nanoparticle Monolayer Arranged Using Ferritin Protein-base Encapsulation/transport System	T. Hashimoto ¹ , Z. Bin ^{2,3} , M. Fukuda ^{1,3} , N. Zettsu ^{1,3} , K. Gamo ¹ , Y. Fukunishi ¹ , I. Yamashita ^{2,3} , Y. Uraoka ^{2,3} and H. Watanabe ^{1,3}	¹ Osaka University ² NAIST ³ JST-CREST
P8	Development of an Adptive Hard X-ray Focusing System with Adaptive Mirrors	S. Imai ¹ , S. Matsuyama ¹ , H. Nakamori ¹ , T. Kimura ² , H. Yokoyama ¹ , H. Mimura ³ , Y. Sano ¹ , Y. Kohmura ⁴ , T. Ishikawa ⁴ and K. Yamauchi ^{1,5}	^{1,5} Osaka University ² Hokkaido University ³ The University of Tokyo ⁴ RIKEN/SPring-8
P9	Design and Fabrication of Bio-inspired Color Materials -Control of the Disorder in StructureAided by FDTD Analysis-	M. Yonezawa ¹ , J. Murase ¹ , T. Shibuya ¹ , M. Akai-Kasaya ¹ , Y. Kuwahara ^{1,2} and A. Saito ^{1,2}	¹ Osaka University ² RIKEN
P10	Fabrication of Precise Metallodielectric Plasmonic Nanoshell Arrays with Nanogap for A Label-Free Immunoassay Based on NIR-light Responsive LSPR	S. Uchida ¹ , K. Yamamura ¹ and N. Zettsu ²	¹ Osaka University ² Nagoya University
P11	Fabrication of Ring-Shaped PS@Au Metallodielectric Nanoshell Arrays for Localized Surface Plasmon Resonance Biosensor	Y. Yamamoto ¹ , S. Uchida ¹ , K. Yamamura ¹ and N. Zettsu ²	¹ Osaka University ² Nagoya University
P12	Determination of Hard X-ray Focusing Mirror Aberration using Phase Retrieval with Transverse Translation Diversity	H. Yokoyama ¹ , T. Kimura ² , H. Mimura ³ , S. Imai ¹ , S. Matsuyama ¹ , Y. Komura ⁴ T. Ishikawa ⁴ and K. Yamauchi ^{1,5}	^{1,5} Osaka University ² Hokkaido University ³ The University of Tokyo ⁴ RIKEN/SPring-8
P13	Reflectivity improvement using PtC/C Multilayers for X-ray Mirrors	J. Kim ¹ , H. Yokoyama ¹ , S. Matsuyama ¹ , Y. Sano ¹ and K. Yamauchi ^{1,2}	^{1,2} Osaka University
P14	Design of Optical Head for New High-Speed Nanoprofiler	H. Matsumura ¹ , D. Tonaru ¹ , T. Kitayama ¹ , K. Usuki ¹ , T. Kojima ¹ , J. Uchikoshi ¹ , Y. Higashi ² and K. Endo ³	^{1,3} Osaka University ² KEK
P15	Ion Beam Machining and Smoothing of Ultra Low Expansion Glass Ceramics for EUVL Projection Optics	S. A. Pahlový ¹ , Y. Kurashima ² and I. Miyamoto ¹	¹ Tokyo Univ. of Science ² Yamanashi University
P16	Phase-Shifting Point Diffraction Interferometer with Two Point Light Sources of Single-Mode Optical Fibers	N. Ogawa, T. Nishioka, M. Nakano, Y. Oshikane and H. Inoue	Osaka University
P17	Light Scattering Simulation of Nano-Objects on the Surface of Silicon Wafer by 3D Finite Element Method	Y. Oshikane, T. Higashi, N. Taniguchi, M. Nakano and H. Inoue	Osaka University
P18	Nanoscale Heating of Laser-Irradiated Single Gold Nanoparticles	M. Honda ¹ , Y. Saito ¹ , N. I. Smith ² , K. Fujita ¹ and S. Kawata ¹	^{1,2} Osaka University
P19	Tip-Enhanced Raman Imaging and Analysis of the Crossed Carbon Nanotubes	Y. Okuno ¹ , S. Kuwahara ² , K. Uetsuki ^{1,3} , T. Yano ^{1,3} , P. Verma ^{1,3} and S. Kawata ^{1,3,4}	¹ Osaka University ² Chuo University ³ JST-CREST ⁴ RIKEN
P20	Development of a Plasmonic Biosensing System using Au Nano-Particle Pairs	H. Morimura, S. Tanaka, H. Ishitobi and Y. Inouye	Osaka University
P21	Development of Pulsed Fiber Laser Sources for Stimulated Raman Scattering Microscopy	K. Nose ¹ , Y. Ozeki ^{1,2} and K. Itoh ¹	¹ Osaka University ² PRESTO
P22	Study on the Stabilization of Supercontinuum Generation Using Our Proposed All-Optical Intensity Fluctuation Compensation Technique	K. Kawanishi, T. Konishi and K. Itoh	Osaka University
P23	Copper-Assisted Etching of Si with <i>N</i> -Fluoropyridinium Salt	K. Tsukamoto ¹ , J. Uchikoshi ¹ , M. Otani ¹ , T. Nagai ² , K. Adachi ² , K. Kawai ¹ , K. Arima ¹ and M. Morita ¹	¹ Osaka University ² Daikin Industries, Ltd.

P24	Effect of Metal Particulates on Si Etching with <i>N</i> -Fluoropyridinium Salts	M. Otani ¹ , J. Uchikoshi ¹ , K. Tsukamoto ¹ , T. Nagai ² , K. Adachi ² , K. Kawai ¹ , K. Arima ¹ and M. Morita ¹	¹ Osaka University ² Daikin Industries, Ltd.
P25	Electron-Electron Correlation Energy Calculations by Superposition of Non-Orthogonal Slater Determinants	A. Sasaki, K. Hirose and H. Goto	Osaka University
P26	Spin-Polarized Electronic Current on C/BN Hetero-Nanotubes	N. D. Huy and T. Ono	Osaka University
P27	The Key Scattering Mechanisms in a Polar Modulation-Doped Heterostructure at Low-Temperature	N. T. Tien ¹ and D. N. Thao ²	¹ Can Tho University ² Hue University
P28	Fabrication of Atomically Controlled Flat GaN (0001) Surfaces Using Catalyst-Referred Etching in Water	S. Sadakuni ¹ , J. Murata ¹ , T. Okamoto ¹ , Y. Sano ¹ , K. Yagi ² , K. Tachibana ¹ , H. Asano ¹ and K. Yamauchi ^{1,3}	^{1,3} Osaka University ² Ebara Corporation
P29	Morphological and Molecular Design of PTFE/epoxy Resin Interface for Adhesion Enhancement by Liquid Phase and Atmospheric Pressure Plasma	S. Matsuura ¹ , Y. Izutsu ¹ , N. Zettsu ² and K. Yamamura ¹	¹ Osaka University ² Nagoya University
P30	Effect of Dissolved Oxygen Concentration in Water on the Roughness Formation of Ge(100) Surface with Metallic Contamination	A. Mura, K. Nishitani, T. Kawase, K. Kawai, J. Uchikoshi, M. Morita and K. Arima	Osaka University
P31	Effect of Shield Gas on Surface Roughness in Processing of Silicon by Open-air Type Plasma Chemical Vaporization Machining	M. Hosoda, M. Nagano, Y. Yamamoto, Y. Hata and K. Yamamura	Osaka University
P32	A DFT Study on the Adsorption of Oxygen and Hydrogen Peroxide on Fe-filled Single-walled Carbon Nanotubes	J. Moreno ¹ , M. David ² and H. Kasai ¹	¹ Osaka University ² De La Salle University
P33	Improvement of the Removal Rate in Catalyst-Referred Etching of 4H-SiC Using Catalytic Platinum and Hydrofluoric Acid	T. Okamoto ¹ , Y. Sano ¹ , K. Tachibana ¹ , K. Arima ¹ , K. Inagaki ¹ , K. Yagi ² , S. Sadakuni ¹ , A. Isohashi ¹ , Y. Morikawa ¹ and K. Yamauchi ^{1,3}	^{1,3} Osaka University ² Ebara Corporation
P34	Dissociative Adsorption of H ₂ on Mn-modified Ni(111) Surface: A Density Functional Theory Study	A.A.B. Padama ¹ , H. Kasai ¹ and H. Kawai ²	¹ Osaka University ² Toyota Motor Corp.
P35	Interaction of Borohydride with 3d Transition Metals: a DFT Study	R.L. Arevalo, M.C.S. Escaño and H. Kasai	Osaka University
P36	Epitaxial Graphene Growth on Atomically Flattened 4H-SiC(0001)	K. Nishitani, H. Sakane, T. Yamaguchi, T. Okamoto, K. Kawai, J. Uchikoshi, K. Yamauchi, M. Morita and K. Arima	Osaka University
P37	First Principles Calculation of The Adsorption of Water on Li-Montmorillonite	T. Wungu ¹ , F. Rusydi ¹ , H. Diponjono ² and H. Kasai ¹	¹ Osaka University ² ITB
P38	Atomic Structure of 4H-SiC (0001) Surface Planarized by Catalyst-Referred Etching	B. V. Pho ¹ , S. Sadakuni ¹ , T. Okamoto ¹ , R. Sagawa ² , K. Arima ¹ , Y. Sano ¹ and K. Yamauchi ^{1,3}	^{1,2,3} Osaka University
P39	Investigation of Material Removal Mechanism of Reaction Sintered SiC in Plasma Assisted Polishing	H. Deng and K. Yamamura	Osaka University
P40	Oxygen Reduction Reaction Mechanism on Cobalt-(6)Pyrrole Cluster: Density Functional Theory Study	S. A. Gandaryus and H. Kasai	Osaka University
P41	Study of Reactive Species in Catalyst-Referred Etching of 4H-SiC Using Platinum and Hydrofluoric Acid	K. Tachibana ¹ , Y. Sano ¹ , T. Okamoto ¹ , K. Arima ¹ , K. Inagaki ¹ , K. Yagi ² , S. Sadakuni ¹ , A. Isohashi ¹ , Y. Morikawa ¹ and K. Yamauchi ^{1,3}	^{1,3} Osaka University ² Ebara Corporation
P42	Fabrication of Patterned Metal Layer on Poly(tetrafluoroethylene)Substrate through Atmospheric Pressure Plasma Liquid Deposition Approach	K.Ooka ¹ , H.Akiyama ¹ , Y.Yamamoto ¹ , N.Zettsu ² and K.Yamamura ¹	¹ Osaka University ² Nagoya University
P43	Simultaneous Measurement of Electronic Structure and Force Fields on Cu (110)-O by LT-AFM/STM	Z. M. Ma, Y. Naitoh, Y. J. Li and Y. Sugawara	Osaka University
P44	Lateral Manipulation of Co Atoms on Oxidized Cu(110) Surface with Low Temperature Atomic Force Microscopy	Y. Kinoshita, Y. Naitoh, Y. J. Li and Y. Sugawara	Osaka University
P45	First-Principles Study on Transport Property of Peapods	T. Kojima and T. Ono	Osaka University
P46	First-Principles Study on Interface Structure at GeO ₂ /Ge Interface	S. Saito and T. Ono	Osaka University
P47	The Comparison of AFM and STM Topography of TiO ₂ (110) Surface	L. Kou, T. Kamijo, Y. Naitoh, Y. J. Li and Y. Sugawara	Osaka University
P48	Spatial Dependence of the STS Profiles of Co-adsorbed Molecules on Metal Surfaces	K. Miwa and H. Kasai	Osaka University
P49	Cutting of SiC Substrates by Atmospheric-Pressure Plasma Etching with Slit Mask for Plasma Confinement	H. Nishikawa ¹ , Y. Sano ¹ , K. Aida ¹ , T. Chaiyapat ¹ , K. Yamamura ² , S. Matsuyama ¹ and K. Yamauchi ^{1,2}	^{1,2} Osaka University
P50	Ion Beam Stimulated Lithium Ion Desorption	S. Toda ^{1,2} , Y. Kuwahara ^{1,2} , and T. Kobayashi ²	¹ Osaka University ² RIKEN
P51	First Principles Comparative Study of O ₂ Adsorption on Zinc-porphyrins and Iron-porphyrins	F. Rusydi ^{1,2} and H. Kasai ¹	¹ Osaka University ² University of Airlangga

P52	Monolayer Controllable Fabrication of Metal Phthalophyanine by Layer-by-Layer (LbL) Technique	A. Tangprasert, T. Osotchan, P. Pasitsupparoad, A. Sinsarp and S. Suwanna	<i>Mahidol University</i>
P53	Study of NO Oxidation Reaction over Pt Cluster Supported on γ -Al ₂ O ₃ (111) Surface	H. Kishi ¹ , F. Oemry ¹ , T. Q. Nguyen ¹ , S. Kunikata ¹ , H. Nakanishi ¹ , H. Kasai ¹ , H. Maekawa ² and K. Osumi ²	¹ <i>Osaka University</i> ² <i>Isuzu Advanced Engineering Center, Ltd.</i>
P54	Magnetic Anisotropy in Co/Ni Multi-layer	K. Kojima ¹ , W. A. Diño ¹ , H. Kasai ¹ and T. Koshikawa ²	¹ <i>Osaka University</i> ² <i>Osaka Electro-Communication Univ.</i>
P55	Ab initio simulation of Suzuki-Miyaura cross coupling with Pd-intelligent catalyst	A. Takeda ¹ , S. Yanagisawa ² , T. Ikeda ³ and Y. Morikawa ¹	¹ <i>Osaka University</i> ² <i>University of the Ryukyus</i> ³ <i>JAEA</i>
P56	Oxygen Dissociation on Metal Oxide-Supported Pt Cluster	T. Q. Nguyen, M. C. S. Escaño and H. Kasai	<i>Osaka University</i>
P57	A First Principles Study of Ortho-Para H ₂ Conversion on the Ag(111) Surfaces with Coadsorbed O ₂ Molecules	Y. Kunisada, H. Nakanishi, W. A. Diño and H. Kasai	<i>Osaka University</i>
P58	Role of Surface Distortion on Molecular Adsorption on the Tri-s-triazine-based Graphitic Carbon Nitride Surfaces: A Specific Analysis on the O ₂ Molecule Interaction	S. M. Aspera ¹ , H. Kasai ¹ and H. Kawai ²	¹ <i>Osaka University</i> ² <i>Toyota Motors Corp.</i>
P59	Tuning Magnetic Interactions in Systems of Dimers and Trimers on a Metal Surface	N. T. M. Hoa, W. A. Diño and H. Kasai	<i>Osaka University</i>
P60	First-Principles Study of CO Oxidation on Carbon Alloy Catalysts	S. Iseki, K. Inagaki and Y. Morikawa	<i>Osaka University</i>
P61	Removal Rate Improvement by an Ultraviolet Irradiation in GaN (0001) Surface Planarization Using Catalyst-Referred Etching	H. Asano ¹ , S. Sadakuni ¹ , K. Yagi ² , Y. Sano ¹ , T. Okamoto ¹ , K. Tachibana ¹ and K. Yamauchi ^{1,3}	^{1,3} <i>Osaka University</i> ² <i>Ebara Corporation</i>
P62	Nanoscale Elemental Identification Using Synchrotron-Radiation-based STM -Evaluation of Elemental Contrast for Various Interfaces-	G. Ohzeki ^{1,2} , A. Saito ^{1,2} , H. Matsuno ^{1,2} , H. Mikl ^{1,2} , Y. Takagi ³ , Y. Tanaka ² , Y. Kohmura ² , M. Akai-Kasaya ¹ , T. Ishikawa ² , Y. Kuwahara ^{1,2} and M. Aono ⁴	¹ <i>Osaka University</i> ² <i>RIKEN/Spring-8</i> ³ <i>Inst. for Molecular Sci.</i> ⁴ <i>NIMS</i>
P63	First Principle Study of Spontaneous Polalization and Piezoelectricity on ATiO ₃ (A=Pb,Sn,Ge,Bi,Tl)	K. Oka, H. Nakanishi and H. Kasai	<i>Osaka University</i>
P64	A DFT Study of OOH Dissociation on Platinum Alloy Catalysts	W.T. Cahyanto ^{1,2} , M.C.S. Escaño ¹ , R.L. Arevalo ^{1,3} and H. Kasai ¹	¹ <i>Osaka University</i> ² <i>UNSOED</i> ³ <i>Philippine Normal University</i>
P65	Convergence of Energies and Forces in DFT Calculations	M. Heide and T. Ono	<i>Osaka University</i>
P66	Electron-Vibron Interaction Effect on Current Transport through Adsorbed Melamine on Cu (100)	A. Sarhan, M. Sakaue, H. Nakanishi and H. Kasai	<i>Osaka University</i>
P67	Surface Morphology Evaluation of Diamond and Cleaved Si Surface Bombarded by Low Energy Ion Beam at Normal and Off Normal Ion Incidence Angle	S. F. Mahmud , S. A. Pahlovay, and I. Miyamoto	<i>Tokyo University of Science</i>
P68	Effects of Cluster size on Pt-O Bonds Formation in Small Platinum Clusters	F. Oemry, H. Kishi, S. Kunikata, H. Nakanishi and H. Kasai	<i>Osaka University</i>
P69	Real Time Monitoring and Control of Etching Rate in Open-air Type Plasma Chemical Vaporization Machining Using Optical Actinometry	Y. Yamamoto, M. Nagano, M. Hosoda, Y. Hata and K. Yamamura	<i>Osaka University</i>
P70	Theoretical Study of Hydrazine Adsorption on Metal Surfaces	M. K. Agusta, W. A. Diño, H. Nakanishi and H. Kasai	<i>Osaka University</i>
P71	Electron Diffraction Analysis of Molybdenum Oxide Crystal Encapsulated inside Individual Carbon Nanotube	R. Sagawa ¹ , W. Togashi ¹ , T. Akita ² and Y. Takai ¹	¹ <i>Osaka University</i> ² <i>AIST</i>
P72	Study on Adhesion Strength of Cu Plating Film Formed on PTFE Substrate through Atmospheric Pressure Plasma Liquid Deposition	Y. Hara ¹ , K. Oooka ¹ , H. Akiyama ¹ , N. Zettsu ² and K. Yamamura ¹	¹ <i>Osaka University</i> ² <i>Nagoya University</i>
P73	First-Principles Analysis of CARE Process of GaN -Surface Termination Structure and Initial Stage of Etching Process-	M. Oue, K. Inagaki, and Y. Morikawa	<i>Osaka University</i>
P74	First Principle Studies on Atomic Hydrogen Absorption into Graphite Edges	N. Arboleda Jr. ¹ and H. Kasai ²	¹ <i>De La Salle University</i> ² <i>Osaka University</i>
P75	Computational Study of DSC Sensitizer Originated from Iron (II) and Ruthenium(II) with a Pyridyl-Quinoline-Framework Ligand	C. D. D. Sundari, M. A. Martoprawiro, and D. Onggo	<i>ITB</i>
P76	Computational Study of Zeolite Pore Formation Using TBABr and TPABr as Organic Template	A. L. Ivansyah and M. A. Martoprawiro	<i>ITB</i>
P77	Formation of SiO _x N _y Films for Passivation of Si Surfaces by Atmospheric-Pressure Plasma Oxidation	ZT. Zhuo ¹ , K. Goto ¹ , Y. Sannomiya ¹ , Y. Kanetani ¹ , T. Yamada ¹ , H. Ohmi ^{1,2} , H. Kakiuchi ¹ and K. Yasutake ^{1,2}	^{1,2} <i>Osaka University</i>
P78	Silicon Oxide Anti-Reflection Coatings from Hexamethyldisiloxane at Room Temperature Using Atmospheric-Pressure VHF plasma	K. Yokoyama, K. Okamura, T. Yamada, H. Ohmi, H. Kakiuchi and K. Yasutake	<i>Osaka University</i>
P79	Fundamental Study on the Film Growth from Organometallic precursors Using Atmospheric-Pressure Radio-Frequency Plasma	S. Mine, K. Okumura, T. Yamada, H. Ohmi, H. Kakiuchi and K. Yasutake	<i>Osaka University</i>

P80	Deposition Characteristics of Silicon Oxides in Open Air Using Atmospheric-Pressure Plasma Jet	K. Higashida ¹ , T. Shibata ³ , T. Yamada ¹ , H. Ohmi ^{1,2} , H. Kakiuchi ¹ and K. Yasutake ^{1,2}	^{1,2} Osaka University ³ Panasonic Electric Works Co., Ltd.
P81	Effects of Substrate Temperature on High-Rate Etching of Silicon by Microwave H ₂ Plasma	T. Yamada ^{1,2} , K. Okamoto ¹ , H. Ohmi ¹⁻³ , H. Kakiuchi ^{1,2} and K. Yasutake ¹⁻³	^{1,3} Osaka University ² JST-CREST
P82	Influence of the Electrode Configuration on the Growth of Microcrystalline Si Films in Atmospheric-Pressure Very High-Frequency Plasma	A. Hirano, T. Tsushima, T. Yamada, H. Ohmi, H. Kakiuchi and K. Yasutake	Osaka University
P83	Electroluminescence in Ultrathin Silicon-on-Insulator Metal-Oxide-Semiconductor Tunnel Diodes	A. Tsuchida, K. Matsumura, R. Yamada, Y. Oshikane, K. Kawai, J. Uchikoshi, K. Arima and M. Morita	Osaka University
P84	Electrical Characteristics of Metal-Gap-Silicon and Metal-Gap-Oxide-Silicon Structures	T. Furukawa, Y. Doi, K. Kawai, J. Uchikoshi, K. Arima and M. Morita	Osaka University
P85	Electrical Characteristics of Metal-Gap-Oxide-Silicon Structures	Y. Doi, T. Furukawa, K. Kawai, J. Uchikoshi, K. Arima and M. Morita	Osaka University
P86	High-Quality Single-Crystalline Ge-on-Insulator P-Channel MOSFETs Formed by Lateral Liquid-Phase Epitaxy	Y. Suzuki ¹ , S. Ogihara ¹ , T. Hosoi ^{1,2} , T. Shimura ¹ and H. Watanabe ¹	^{1,2} Osaka University
P87	Flatband Voltage Instability Due to Mobile Ions in 4H-SiC Metal-Oxide-Semiconductor Devices	A. Chanthaphan ¹ , T. Kirino ¹ , Y. Uenishi ¹ , D. Ikeguchi ¹ , S. Mitani ² , Y. Nakano ² , T. Nakamura ² , T. Hosoi ¹ , T. Shimura ¹ and H. Watanabe ¹	¹ Osaka University ² ROHM CO., LTD.
P88	Investigation of UV-Induced Electrical Defects in Thermally Grown 4H-SiC MOS Devices	D. Ikeguchi ¹ , T. Kirino ¹ , S. Mitani ² , Y. Nakano ² , T. Nakamura ² , T. Hosoi ¹ , T. Shimura ¹ and H. Watanabe ¹	¹ Osaka University ² ROHM CO., LTD.
P89	Al-based High-k/Ge Gate Stacks Fabricated by Post-Deposition Oxidation of Ultrathin Al Layer on Ge Substrates	I. Hidemitsu, A. Kasuya, T. Hosoi, T. Shimura and H. Watanabe	Osaka University
P90	Two-Dimensional Strain Measurement of Strained Silicon Wafer by Synchrotron X-ray Topography and its Electrical Characterization Using Back-Gate Transistors	T. Shimura ¹ , D. Shimokawa ¹ , T. Matsumiya ¹ , N. Morimoto ¹ , A. Ogura ² , T. Hosoi ^{1,3} and H. Watanabe ^{1,3}	^{1,3} Osaka University ² Meiji University
P91	Electrical Sensing of DNA Solutions by Lateral Silicon-Oxide-Gap-Oxide-Silicon Structure on Silicon-on-Insulator Substrate	T. Kamiya, T. Furukawa, Y. Doi, R. Yamada, K. Kawai, J. Uchikoshi, K. Arima and M. Morita	Osaka University
P92	Drastic Degradation in Dielectric Properties of TiN/HfSiO/SiO ₂ Stacks due to Hf Uptake Property of TiN Electrodes	K. Chikaraishi, H. Arimura, Y. Odake, N. Kitano, T. Hosoi, T. Shimura and H. Watanabe	Osaka University
P93	Unusual Impurity Absorbability of GeO ₂ in GeO ₂ /Ge Stacks	S. Ogawa ¹ , T. Suda ¹ , T. Yamamoto ^{1,2} , K. Kutsuki ² , I. Hidemitsu ² , T. Hosoi ² , T. Shimura ² and H. Watanabe ²	¹ Toray Research Center Inc. ² Osaka University
P94	Modulation of Conduction Band Offset at SiO ₂ /4H-SiC Interface Depending on Interface Defect Passivation Treatment	T. Hosoi ¹ , T. Kirino ¹ , A. Chanthaphan ¹ , Y. Uenishi ¹ , D. Ikeguchi ¹ , A. Yoshigoe ² , Y. Teraoka ² , S. Mitani ³ , Y. Nakano ³ , T. Nakamura ³ , T. Shimura ¹ and H. Watanabe ¹	¹ Osaka University ² JAEA ³ ROHM CO., LTD.
P95	Effective Work Function Control of Metal Inserted Poly-Si Electrodes on HfSiO Dielectrics by <i>In-situ</i> Oxygen Treatment Process	N. Kitano ^{1,2} , K. Chikaraishi ¹ , H. Arimura ¹ , T. Hosoi ¹ , T. Shimura ¹ , T. Nakagawa ² and H. Watanabe ¹	¹ Osaka University ² Canon ANELVA Corporation
P96	Continuous Generation of Femtoliter Droplets Using Multistage Dividing Microfluidic Channel	K. Kawai ¹ , J. Uchikoshi ¹ , K. Arima ¹ , S. Shoji ² and M. Morita ¹	¹ Osaka University ² Waseda University
P97	Organic Single-crystal Transistors Based on Tetracene-related Materials	K. Nakahara, T. Okamoto and J. Takeya	Osaka University
P98	Stochastic Resonance Developed in Two-Terminal Device Composed of Conducting Polymer Film	T. Nakanishi, M. Akai-Kasaya, A. Saito and Y. Kuwahara	Osaka University
P99	High-Power and Air-Stable Three-Dimensional Polymer FETs	K. Nakayama, T. Uemura, M. Uno and J. Takeya	Osaka University
P100	Electron Correlated Nonlinear Transport in Semiconducting Polymer Monolaye	M. Akai-Kasaya ¹ , Y. Okuaki ¹ , S. Nagano ² , A. Saito ¹ and Y. Kuwahara ¹	¹ Osaka University ² Nagoya University
P101	Isotropic Electronic Transport in High-Oriented Regioregular Poly(3-hexylthiophene) Monolayer	Y. Okuaki ¹ , M. Akai-Kasaya ¹ , A. Saito ¹ , S. Nagano ² , and Y. Kuwahara ¹	¹ Osaka University ² Nagoya University
P102	Luminescence from a Single Molecule and Molecular Assemblies Detected by Scanning Tunneling Microscopy	A. Fujiki, K. Harada, Y. Miyake, M. Akai-Kasaya, A. Saito and Y. Kuwahara	Osaka University
P103	Construction of a Detection System of Circularly-Polarized Light Emission Induced by a Scanning Tunneling Microscopy	K. Harada ¹ , A. Fujiki ¹ , Y. Miyake ¹ , Y. Oshikane ¹ , M. Akai ¹ , A. Saito ^{1,2} and Y. Kuwahara ^{1,2}	¹ Osaka University ² RIKEN/SPring-8
P104	Evaluation of Electrical Conduction for Artificially-Doped Organic Thin Films by Independently Driven Double-Tip Scanning Tunneling Microscope	Y. Miyake ¹ , K. Kurisu ¹ , K. Takami ¹ , S. Tsuruta ¹ , M. Kasaya-Akai ¹ , A. Saito ^{1,2} and Y. Kuwahara ^{1,2}	¹ Osaka University ² RIKEN/SPring-8