

壁報論文目錄

時 間：1 月 23 日 10:30 開始張貼,展示至 1 月 24 日 14:00
 (請負責張貼作者於 1 月 24 日 10:30~14:00 務必在場)

地 點： 管二館, 綜教館

召集人： 陳宣毅 教授

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PE-02	以時域有限差分法研究三角晶格光子晶體之傳輸效率與能帶特性
PE-03	Coupling technique of finite height of photonic crystal slab waveguides in a square lattice of dielectric rods
PE-04	Evanescent microwave probe study on evaluating possibility of microwave sintering for PBZNZT ceramic dielectrics
PE-05	Novel nanometer microstructure and ferroelectric characteristics of pulsed laser deposited thin films
PE-06	Comparison on electrical properties of dielectrics in response to microwave and AC signals
PE-07	Synthesis of optical substrate via sol-gel process
PE-08	Growth and characterization of ZnO films on (0001) and (11-20) sapphire substrates by atomic layer

	deposition
PE-09	Full spectrum study on Ba(Mg _{1/3} Ta _{2/3})O ₃ and Bi _{1.5} Zn _{1.0} Nb _{1.5} O ₇ microwave dielectrics
PE-10	Color dispersion in two-dimensional phase array based on polymer-dispersed liquid crystal film
PE-11	A High Birefringent Photonic Crystal Fiber with an Asymmetric Cladding
PE-12	Two-dimensional photonic crystal of square lattice with a large complete two- dimensional bandgap
PE-13	Characteristics of ZnO films deposited on (111) Si substrates by atomic layer deposition
PE-14	Local Density of States for Two-Dimensional Photonic Crystals
PE-15	Spatial Distribution of Forbidden Angles for Two-Dimensional Photonic Crystals
PE-16	Holographic imaging of incoherent near-infrared sources using binary Gabor zone plate
PE-17	Effects of Temperature on the Surface Plasmon Resonance at a Metal -Semiconductor Interface
PE-18	optical phase of the near field pattern
PE-19	A Study of Excitation Dynamics of Strained Saturable Bragg Reflector by Exploiting Pulse Shaping Technique
PE-20	面射型半導體雷射開機偏振行為之研究
PE-21	Simulation of Liquid Crystal Gratings' Diffraction by Finite-Difference Time-Domian Method
PE-22	Biphotonic effect of azo-dye doped liquid crystal measured with nonlinear absorption
PE-23	Two-step phase separation toward an electro-optical polymer/nematic composite film
PE-24	Influence of the ion effect on transient behaviors in a nematic Fréedericksz cell
PE-25	Using transient current to compare low- and high-resistivity liquid crystals
PE-26	Observation of electro-optical effects in vertically-aligned polymer-stabilized liquid crystals prepared with various photo-curing conditions
PE-27	Optically switching behavior of twist-nematic grating based on a fast cis-trans photoswitching
PE-28	Studies of ultrafast dynamics in sonoluminescence by intensity interferometry
PE-29	Fabrication and near-field optical properties of gold nanogratings
PE-30	Kramers-Kronig Relations of Phase and Absorption Coefficient of Planar Surface Plasmon Mode
PE-31	Effects of Different Beamline Path Alignment in Collimating Mirror Chamber
PE-32	Transient current in weak-polymer-stabilization-based liquid crystals
PE-33	Transient current behavior in a liquid crystal during the discharging process
PE-34	Three-color dye-sensitized solar cells based on [2-3-4N,N-Bia(4-methoxyphenyl)-N-(4-ethynylphenyl) amine] conjugated porphyrins
PE-35	Slow light propagation in three-level atoms
PE-36	Polarization microscopy by rotation of excitation light
PE-37	Negative Refraction at Microwave Region from four-fold Symmetric Intrinsic Metamaterials
PE-38	The effects of Gaussian optics on optical coherence tomography
PE-39	Anticompetition in quantum dot lasers
PE-40	Optical heterodyne interferometer with a single acousto-optical modulator
PE-41	Actively harmonic mode-locked fiber laser by using a semiconductor optical amplifier and a distributed

	feedback laser diode as the mode locker
PE-42	Photo-aligned Liquid Crystal Cell as an Electrically Controlled Terahertz Phase Grating
PE-43	Au nanoparticle doped into Liquid Crystal cell as controllable filter
PE-44	Polarization grating based on photoalignment effect in azo dye doped PVA films
PE-45	Electrical and Optical Properties of ITO Thin Films deposited by Pulse Arc Discharge Method
PE-46	利用原子層沉積技術成長氧化鋁-應用於高效率矽發光二極體之研究
PE-47	Electricity and polarization controlled Fresnel lens based on a liquid crystal film with a polymer relief pattern
PE-48	Dynamic biphotonic holographic gratings in azo-dye-doped cholesteric liquid crystal films
PE-49	Fast-switching stratified polymer-stabilized liquid-crystal film
PE-50	Simulation of violet InGaN/InGaN laser diodes with multiquantum barriers
PE-51	Enhance Gap Soliton Mobility and Stability with Nonlocal Effects
PE-52	Tunable-focus liquid crystal lens
PE-53	Characteristic of the stressed liquid crystal grating devices
PE-54	Photoalignment of binary orthogonal hybrid grating on a dye-doped PVA film
PE-55	Study of photo-alignment Cholesteric liquid crystal
PE-56	Two-Wave model for Slow Lights in Semiconductor Optical Amplifiers
PE-57	Fabrication and The Optical Properties Research of CsI Thin Films
PE-58	The Research of Zinc Selenium Thin Films deposited by IAD with end-Hall Ion Source
PE-59	Investigation of Optical Properties of Silicon Nitride Thin Films Deposited by Ion-Beam Sputtering at Room Temperature
PE-60	The Research of Aluminum Nitride Thin Films Deposited by Ion Beam Sputtering at Room Temperature
PE-61	Modulation L-I curve of a VCSEL with polarization selective optical feedback
PE-62	Fabrication and The Optical Properties Research of CsI Thin Films
PE-63	Performance improvement of 350-nm-band ultraviolet light-emitting diodes
PE-64	具將摻鉬光纖放大器增益平坦化之濾波器設計
PE-65	High efficiency and polarization-independent Fresnel lens by using dye-doped liquid crystal
PE-66	Design of Pseudo-isotropic Negative Refractive Index Media
PE-67	Localization of optical near field with nano-antenna
PE-68	利用電光調變共路干涉儀檢驗波片的雙折射特性
PE-69	利用波長可調雷射量測雙折射光纖的拍頻長度
PE-70	Temporal coherence characteristics of a superluminescent diode system with an optical feedback mechanism
PE-71	Enhancement of light emission intensity of polymer materials by using surface plasmon coupling structure
PE-72	Enhancement of standing evanescent fields by excitation of surface plasmons
PE-73	以高分子摻雜系統當發光層的白光有機發光二極體
PE-74	The fundamental research of organic solar cell with different-metal Phthalocyanines

PE-75	Femtosecond Near-IR Optical Parametric Oscillator Based on Periodically Poled 5-mol. % MgO-Doped Lithium Niobate
PE-76	Numerical simulation of InGaAsN semiconductor lasers with GaAsN and GaAsP barriers
PE-77	以 FeO 緩衝層成長透明導電 ZnO : Fe 薄膜於玻璃基板之研究
PE-78	The Correlation of Oxygen Octahedra With Dielectric Properties of Ba(B' _{1/3} B'' _{2/3})O ₃ Perovskite Ceramics
PE-79	A 25 Femtosecond comb laser based on cesium-stabilized 822.5 nm radiation
PE-80	A Study of Excitation Dynamics of LT-GaAs by Chirp-Controlled Pump-Probe Technique
PE-81	Thermal-induced lateral lasing from a dye-doped cholesteric liquid crystal film with a plane waveguide structure
PE-82	Oxygen-Octahedral Phonon Properties of xBaTiO ₃ +(1-x)Ba(Mg _{1/3} Ta _{2/3})O ₃ and xCa(Sc _{1/2} Nb _{1/2})O ₃ +(1-x)Ba(Sc _{1/2} Nb _{1/2})O ₃ Microwave Ceramics
PE-83	Efficient inverted top-emitting organic light-emitting diodes with a double cathode
PE-84	The DC Bias Dependent Dielectric Permittivity of Polymeric Organic Light Emitting Diode (PLED)
PE-85	Numerical study on 400-nm InGaN/GaN LED with an electron tunneling barrier
PE-86	Quantum-size effect and oscillation strength of zinc blend AlGaIn quantum cubes embedded in AlN matrix
PE-87	Effect of thermal lensing on cavity modes for a linear cavity: a numerical study
PE-88	Studies of the influence of the reorientation of LC molecules induced by adsorbed azo-dye molecules
PF: 表面物理/掃描探針顯微術	
PF-01	First-principles study of the atomic and electronic structure of the Si(111)-(5 × 2)-Au surface reconstruction
PF-02	An STM study of Na _x CoO ₂ (x=0.84) surface
PF-03	A cross-sectional STM study of IrO ₂ rutile single crystals
PF-04	Synergistic effects of Au - Ag alloy on the CO oxidation reaction on Ag(110)
PF-05	Annealing Effect on the growth of C ₆₀ on Cu(001) surface
PF-06	Surface structures of atomic hydrogen adsorbed on Cu(111) surface studied by density-functional-theory calculations
PF-07	Electrochemically catalytic properties of Pt nanoclusters on thin film Al ₂ O ₃ /NiAl(100)
PF-08	Adsorption and decomposition of methanol on Au nanoclusters supported by thin film Al ₂ O ₃ /NiAl(100)
PF-09	Cobalt adsorption on Cu(111) in diluted hydrochloric acid
PF-10	Structural evolution of Si/Cu(111) ultrathin films at elevated temperatures
PF-11	Chlorine Extraction by Hydrogen-Atom from Si(100)- 2×1
PF-12	Behavior of Co atoms on Si(111) surface with Ag buffer layer at low temperature
PF-13	The dynamic study of W atoms and clusters on W (111) surfaces
PF-14	The investigation of the oxygen induced faceting phenomena of iridium: fabricate new form of Pyramidal Single-Atom Tips
PF-15	Reversible segregation of oxygen onto Nb(111) and associated faceting
PF-16	Work function measurement of thin metal films with Gundlach oscillations in scanning tunneling

	spectroscopy
PF-17	Interface effect on transmission resonance in scanning tunneling spectroscopy
PF-18	Observation of transmission resonance on C ₆₀ films by scanning tunneling spectroscopy
PF-19	Revisit of Ag/Au(111) thin film system
PF-20	Surface electronic structure of Mg on copper phthalocyanine (CuPc)
PF-21	Interfacial Electronic Structure of Ca on copper phthalocyanine
PF-22	Interfacial electronic structure of Cs deposited on copper phthalocyanine (CuPc) studied by synchrotron radiation photoemission
PF-23	Synchrotron-radiation photoemission study of the copper phthalocyanine (CuPc) on β -SiC(001) 2x1 surface
PF-24	Physical stability of two-dimensional Ag nanoclusters
PF-25	Chemical stability of Ag nanopucks on Pb quantum islands
PF-26	How To Greatly Enhance Thermal Stability of Metal Nanoparticle Assembly on Al ₂ O ₃ /NiAl(100) by Surfactant
PF-27	Growth, Alloy Formation, and Magnetic Properties of Ultrathin Fe Films on Pt(111)
PF-28	利用磁力探針顯微鏡量測不同尺寸的 Zn _{1-x} Co _x O 奈米線的室溫鐵磁性質
PF-29	X-ray Reflectivity Studies of Fe ₃ O ₄ /Mn ₃ O ₄ Super-lattices
PF-30	Dynamics and nanomechanical properties of Copper Atoms on Si(111)-7x7 Surfaces
PF-31	The effects of surface-functionalization and temperature in AFM lithography on silicon wafer
PF-32	The Effect of Relative Humidity on Atomic Force Microscopy Local Oxidation of Silicon Nitride Film for Mask Fabrication
PF-33	Study of near-field optical patterns in single and multiple metal slits
PF-34	Controlled Environment Near-Field Optical Microscope for Organic Thin Film Studies
PF-35	Rapid and Accurate measurement for Phase-change Optical Recording Bits
PF-36	利用靜電力顯微鏡研究氮化鎵應變與壓電極化的關係
PF-37	Investigation on Morphology and Electricity of the Transformation Process from Ti to TiO ₂ by AFM and EFM
PF-38	Electrical and microwave properties of (Ba,Sr)TiO ₃ thin film by RF sputtering
PF-39	Systematic Study for Reconstruction of Vicinal Si(111) Surface by Focused Ion Beam
PF-40	Application and Characterization of the Filtered Cathodic Arc Plasma for the Synthesis of Metal carbide containing DLC film
PG: 生物物理/軟物質	
PG-01	Three-dimensional tooth imaging using multiphoton and second harmonic generation microscopy
PG-02	Evaluation of Dermal Thermal Damage by Multiphoton Autofluorescence and Second Harmonic Generation (SHG) Microscopy
PG-03	The observation of interaction between Pseudomonas aeruginosa and cornea by the use of two-photon fluorescence and second harmonic generation microscopy

PG-04	Imaging Dynamic Bileduct Ligation by Multiphoton Hepatic Imaging Chamber Microscopy
PG-05	Multiphoton Fluorescence Diagnosis of Hepatocellular Carcinoma
PG-06	A Study of Malignant Human Colorectal Tissues by Synchrotron Radiation-based FT-IR Microspectroscopy
PG-07	Human Hair Analysis by Synchrotron Radiation-based Fourier Transform Infrared Microspectroscopy
PG-08	Structural alteration of corneal scar tissue revealed by multiphoton microscopy
PG-09	multiphoton characterization of infection pathogens
PG-10	Thermal effects on the optical properties of green fluorescent proteins
PG-11	Enhancement of Polymerase Chain Reaction by Gold Nanoparticles in a Rayleigh-Bénard Convection Cell
PG-12	Effects of Spermidine on DNA Transcriptions
PG-13	Light induced Fragmentation of DNA in the presence of Fluorescence Dye
PG-14	Thermophoresis of DNA in a Capillary Tube
PG-15	Crystal structure of branched-chain aminotransferase from Deinococcus radiodurans
PG-16	利用知識進化演算法，改進貪心算法及隨機搜尋法在尋找蛋白質晶格模型基態的效率
PG-17	A Study of AnBm Miktoarm Star Copolymers
PG-18	Rotating motor at nano scale
PG-19	使用分子間交互作用架設分子馬達
PG-20	Peptide-membrane interaction probed by fluorescence microscopy and aspiration method
PG-21	The liquid phase properties of POPC/cholesterol membranes: a deuterium NMR study
PG-22	The phase behavior of PC/PE membranes: a deuterium NMR and calorimetric study
PG-23	A fluorescence study of binary phospholipids mixtures and the effect of cholesterol
PG-24	Searching for RdRP in host cell Hepatitis Delta Virus (HDV) vector as a selection tool
PG-25	微量雜質對脂質雙層膜相變行為之探討
PG-26	Pore formation induced by antimicrobial peptides in lipid membrane – a thermodynamic measurement
PG-27	Nonlinear stochastic effect of ion channel clusters on membrane voltage fluctuation
PG-28	A simple model of endocytosis
PG-29	The strength of adhesion clusters :master equation approach
PG-30	Inferring dynamical pathway from robustness of biological network
PG-31	Bursting of neurons induced by inhibitory mechanism
PG-32	Investigation of the role of glial cells in the synchronous firing and calcium wave propagations in rat cortical neural cultures
PG-33	Source localization of MEG
PG-34	Phase diagram of self-propelling particle in two dimensions
PG-35	Spatial inhomogeneity of granular gas in a vibrating box
PG-36	Phase separation of a binary mixture of granular particles systems
PH: 統計物理/計算物理/非線性動力學	

PH-01	Statistical physics on Taiwan financial market
PH-02	Homoclinic dynamics induced by transverse effect in an end-pumped solid-state laser
PH-03	Stabilization of an attracting 2D BEC
PH-04	Critical Sets of Iteration of $f(z) = z^z e^{\frac{1}{z}} + c$ and $f(z) = ze^{\frac{1}{z^2}} + c$
PH-05	Hypertranscendental Differential
PH-06	Shear induced transports in 2D Dusty Plasma Liquids
PH-07	Granular flow in two-dimensional hopper with different openings and inclinations
PH-08	Single and Double Rotors in Flowing Soap Films
PH-09	Dynamics of spinning string in fluid
PH-10	Chinese Herb-Prescription Network
PH-11	Ab initio study on phonons of BaTiO ₃ system
PH-12	微波介電材料 Ba(Mg _{1/3} ,Ta _{2/3})O ₃ 及 Ba(Mg _{1/3} ,Nb _{2/3})O ₃ 的聲子研究:密度泛函微擾理論
PH-13	The Calculation of Clebsh-Gordan Coefficients for the Permutation Group S_3
PI: 量子資訊與計算	
PI-01	Quantum master equation measurement of a nanomechanical resonator coupled to a single-electron transistor.
PI-02	Two-Coupled Quantum Dots Measured by a Quantum Point Contact: Currents and Noise Spectra
PJ: 中高能物理	
PJ-01	Stopping forces of MeV energies Li and C cluster-ions bombardment on carbon foils
PJ-02	Production of a light pseudoscalar Higgs boson in the NMSSM
PK: 天文/重力/宇宙學	
PK-01	Torsion Cosmology
PK-02	Cosmological Energy
PK-03	Hawking radiation via tunneling
PK-04	The neutrino flux from GeV to TeV
PK-05	Structure and large density jump across fast shocks
PK-06	Magnetic Field Connection/Reconnection between Exoplanets and Host Stars
PK-07	Formation of fast shocks by magnetic reconnection in the solar corona
PK-08	The Effects of Magnetic Fields on Astronomical Discs
PK-09	Fast shock and Alfvén waves acceleration of protons and heliums : formation of H ⁺ / He ⁺⁺ differential streams in the solar wind
PK-10	Fractal analysis of the solar active regions
PK-11	Instability of Cosmic-Ray--Plasma System
PK-12	Effects of a guide field on the evolution of a current sheet
PK-13	Electrostatic charging of the Saturn rings
PK-14	An Exospheric Model of Iapetus

PK-15	Seasonal Pattern of Condensation and Sublimation Cycle and Cross-Scale Comparison in the South Pole
PK-16	The Sodium Exosphere and Extended Coma of Mercury
PK-17	Orbital and Atmospheric Evolution of Hot Jupiters
PK-18	Time-series Spectroscopy Observations of the Host Star of the close-in Hot Jupiter Tau Bootis
PK-19	Census of Small Trans-Neptunian Objects by Stellar Occultation
PK-20	A statistical study of the color variations of KBOs
PK-21	Probability of Stellar Occultation by KBOs in the TAOS Project
PK-22	Observed the short-term variability of large TNOs and dwarf planet on Lulin Observatory
PK-23	Millimeter Observations of Comet 73P/Schwassman-Wachmann 3
PK-24	Activity and Morphology of Comet 73P/Schwassmann-Wachmann 3 close to its closest approach to the Earth
PK-25	Coronographic Studies of Circumstellar Disks
PK-26	X-Wind Model Comparisons with the DG Tau Microjet
PK-27	The Star Formation History in the Lupus 3 Molecular Cloud
PK-28	Submillimeter Observations of the Massive Star Forming Region W3(H ₂ O)
PK-29	Submillimeter-wave Spectral Imaging of Orion KL
PK-30	Near-Infrared Polarimetric Imaging of the Giant H II region NGC3576
PK-31	An Interferometric Study of CH ₃ CN toward Orion KL Hot Molecular Core
PK-32	Searching for Open Clusters in the Milky Way Disk
PK-33	Global Star Count Function of 2MASS
PK-34	Candidates for NIR counterpart of Be/X-ray Binaries
PK-35	3D structure of arcs around AGB star CW Leo: retracing its mass loss history
PK-36	Millimeter-wave Sample Spectral-Line Survey of Evolved Stars
PK-37	A Spectroscopic Survey of Bipolar Planetary Nebulae
PK-38	Periodicity Search for Possible X-ray Counterparts to Gamma-ray Pulsar Candidates
PK-39	Fine Orbital Parameters and Energy Dependent Phase Lags of Accretion Powered Millisecond Pulsar XTE J1814-338
PK-40	Periodicity search in the ASCA and BeppoSAX data of AX J1837.5-0610
PK-41	The follow-up of Type Ia supernovae on Lulin
PK-42	Photometry of the Peculiar Near-by Supernova SN 2006jc with Lulin Observatory
PK-43	On the Formation of Galactic Warps
PK-44	A Study of the Star Formation History of the Near-by Galaxies, M74, M83, M101
PK-45	Central Engine of HBLR and Non-HBLR Seyfert 2 Galaxies
PK-46	Merging Galaxies in RCSII
PK-47	On the cross-correlation of X-ray sources and galaxies in Chandra deep field south
PK-48	Searching for Gravitational Lensing and Interacting Galaxies in the CFHT Red Sequence Survey
PK-49	Gravitational Lensing in MOND

PK-50	Multi-band observations of GRB 051021 — A possible dark GRB
PK-51	Analysis of GRB optical afterglows
PK-52	Combination studies of X-ray and optical GRB afterglow light curve
PK-53	Status Report of VO @ National Central University, Taiwan
PL: 加速器物理	
PL-01	Development of laser-plasma devices used for constructing a compact high-energy electron accelerator
PL-02	Local structure of Mn implanted in gallium arsenide
PL-03	Comparison of ethanol-based machining aluminum alloy sample measurements with IRRAS and PMIRRAS
PL-04	Study of the photon stimulated desorption phenomena for Ti-Zr-V NEG coated Aluminum chamber
PL-05	The study of humidity effect on aluminum alloy chambers
PL-06	Current Status of Lattice Design and Accelerator Physics Issues of the 3 GeV Taiwan Synchrotron Light Source
PL-07	Development of Superconducting Insertion Device Magnets at NSRRC
PL-08	Test results of the in-achromatic superconducting wiggler in Taiwan Light Source
PL-09	New photon beam position monitor in TLS
PL-10	The phenomenon and cures of collective instabilities at Taiwan Light Source
PL-11	The Current Status of Quasi-constant Current Injection at Taiwan Light Source
PL-12	大型液氮供應系統於國家同步輻射研究中心的應用
PL-13	Shielding design against radiation sources from in-acromat superconducting wiggler beamline at NSRRC
PL-14	Characterized Performance of the 50 MeV Linear Accelerator in NSRRC
PL-15	Design of cryogen-free mini-pole superconducting undulator
PM: 電漿/一般物理	
PM-01	The Plasmon effects in PtOx-Type Super-Resolution Near-Field Structure
PM-02	The spectral analysis of hydrogenic ions embedded in strongly coupled plasmas
PM-03	On the quantum master equation for fermions
PM-04	Near-Field Optics Imaging in Silica Waveguide
PM-05	Photoionization of the doubly excited $2ln' \ ^1P^o$ ($n \geq 2$) states for plasma-embedded Li^+
PM-06	A Method to Measure Pressure Inside Carbon Nanotube Field Emission Display
PM-07	USB 介面測量小孔漏水實驗
PM-08	A rectenna system implemented with a harmonic suppressed CPW feed antenna
PM-09	A dual-passband filter with hairpin resonators embedded in novel coupling structure
PM-10	X-ray Absorption Spectroscopy study of Cr doped Fe_3O_4 thin films
PM-11	Study of Harmonic Electron Cyclotron Maser Interactions
PM-12	X-ray absorption spectroscopy studies of Heusler alloys $Ni_{2+x}Mn_{1-x}Ga$
PM-13	X-ray absorption spectroscopy study of $Fe_2VSi_{1-x}Al_x$
PM-14	Stability and tunability of the gyrotron backward-wave oscillator

PM-15	Extraction of lumped circuit parameters of coupled-cavity structures simulated by three-dimensional finite element method
PM-16	Impedance Matching of a Coaxial Marx Generator with a Relativistic Field Emission Limited Diode
PM-17	Multiple-wave Diffraction Anomalous Fine Structure
PM-18	A fitting model for the I-V characteristics of thermionic emission cathodes at high electric fields
PM-19	Mode Competition Behavior in TE ₀₁ Gyrotron Backward-Wave Oscillator
PM-20	A Broadband Design of Slotted TE ₂₁ Second Harmonic Gyro-BWO
PM-21	Microscopic Observation of Wave-Particle Interactions in Dusty Plasma
PM-22	Rise and Fall Time Behavior of the Gyrotron Backward-Wave Oscillator
PM-23	The stress-strain investigation of (Ga,In)N Quantum well grown on strain layer by the X-ray diffraction
PN: 原子/分子	
PN-01	Demonstration of Bose-Einstein Condensation
PN-02	Quantum calculations of van der Waals forces: methane and silane
PN-03	Rydberg states and superexcited states of N ₂ in 40-100 nm
PN-04	Complex-rotation treatment on high-lying doubly-excited resonances in H ⁻ interacting with screened Coulomb potentials
PN-05	Electronic structure of CePt _{2+x} studied by x-ray absorption spectroscopy
PN-06	The Saturated Absorption Spectroscopy of Acetylene R(9) Transition of $\nu_1+\nu_3$ Band in the 1.5 μm Region Using Hollow Fiber Absorption Cell
PN-07	Positron annihilation in the hot-dense plasma-embedded Ps ⁻
PN-08	EXAFS and Raman Characterization of xLa(Mg _{1/2} Ti _{1/2})O ₃ - (1-x)La(Mg _{1/2} Sn _{1/2})O ₃ Microwave Ceramics
PN-09	CHARACTERIZING MICROWAVE PROPERTIES OF GALLIUM-GARNET Re ₃ Ga ₅ O ₁₂ (Re=Nd, Sm, Eu, Dy, and Yb) USING EXAFS AND RAMAN SPECTROSCOPY
PN-10	VUV absorption and fluorescence of N ₂ O at excitation wavelengths 30-110 nm
PN-11	Towards microwave trapping of cold molecules
PN-12	B-spline-based Complex-rotation Method with Spin-dependent Interaction for Ca Ground-state Photoionization
PN-13	Photoabsorption, photoionization, and photodissociation of N ₂ in the wavelength region 45-60 nm
PN-14	Resolving the dynamics of laser-cluster interaction using high-harmonic generation
PN-15	Measurement of He n ₃ - resonance ionization cross section
PN-16	Nondestructive Imaging of Cold Atoms Using a Mach-Zehnder Interferometer
PO: 物理教學	
PO-01	爱因斯坦与物理教学中反映慢的学生
PO-02	上帝的抽象畫—克尼拉圖形
PO-03	簡易型教具製作與設計
PO-04	簡易的 USB 介面測量週期性振盪實驗裝置
PO-05	黑貓變白貓-有趣的全反射

PO-06	拋體運動演示實驗
PO-07	物理教學的實用工具－Gnuplot 行動繪圖
PO-08	A simple, easy to operator, portable and inexpensive USB interface wavelength meter
PO-09	以當前網頁技術建構物理演示實驗網站
PO-10	利用自由的程式開發工具，進行計算物理專題製作
PO-11	適合高中以上學生進行的宇宙射線實驗
PO-12	诺贝尔奖与中国四大发明的命运