

June 23, Monday

9:00-9:30 Registration

9:30-9:45 **Opening Ceremony**

Late Prof. W. Yen Memorial Session

(Chair: T. Itoh, R. T. Williams)

9:45-10:20 **Memorial Talk**

R. T. Williams, J. Singh, and J. P. Lemaistre

A1: Excitons in nanostructures and low-dimensional systems

(Chair: T. Itoh)

10:20-11:00 **A1-1** "Exciton-exciton interactions in semiconductor nanocrystals in the context of lasing and solar energy conversion" (Plenary)

V. I. Klimov

11:00-11:20 **A1-2** "Influence of external magnetic field and confinement on spectrum rearrangement and exciton polaritons in optical microcavity" (invited)

N. E. Kaputkina, Y. E. Lozovik

11:20-11:40 Break

A2: Excitons in nanostructures and low-dimensional systems

(Chair: V. Klimov)

11:40-12:20 **A2-1** "Manipulating single electron spins and coherence in a quantum dot" (Plenary)

M. H. Mikkelsen, J. Berezovsky, N. G. Stoltz, L. A. Coldren, D. D. Awschalom

12:20-13:00 **A2-2** "Mode-locking of electron spin coherence in ensemble of singly charged quantum dots" (Plenary)

A. Shabaev, A. Efros

13:00-13:20 **A2-3** "Spin orientation of excitons, trions and tetraons in charge tunable InP quantum dots" (invited)

Y. Masumoto, T. Suzuki, K. Kawana, M. Ikezawa

13:20-14:30 Lunch

B1: Quantum condensation and high-density effect of excitons

(Chair: P. Littlewood)

14:30-15:10 B1-1 “Exciton Mott transition and quantum condensation in electron-hole systems” (Plenary)

T. Ogawa

15:10-15:50 B1-2 “Cold excitons in a quantum degenerate regime” (Plenary)

M. Kuwata-Gonokami

15:50-16:30 B1-3 “Cold exciton gases in coupled quantum wells” (Plenary)

L.V. Butov

16:30-16:50 Break

B2: Quantum condensation and high-density effect of excitons

(Chair: T. Ogawa)

16:50-17:30 B2-1 “New condensates of matter and light” (Plenary)

P. Littlewood, A. Cheung, P. Eastham, J. Keeling, F. Marchetti, M. Szymanska

17:30-18:10 B2-2 “Issues and recent advances on Bose-Einstein condensation of microcavity polaritons” (Plenary)

L. S. Dang

18:10-18:50 B2-3 “Exciton polariton condensation in semiconductor microcavities” (Plenary)

Y. Yamamoto, S. Utsunomiya, H. Deng, C. Lai, G. Roumpos, A. Löffler, S. Höfling, A. Forchel

18:50-19:10 B2-4 “Polarization memory effect on nonlinear photoluminescence of semimagnetic semiconductor $\text{Cd}_{0.8}\text{Mn}_{0.2}\text{Te}$ ” (invited)

K. Katayama, K. Miyajima, M. Ashida, T. Itoh

19:10-19:30 B2-5 “Spatially indirect photoluminescence of ZnSe/BeTe type II quantum wells in pulsed high magnetic fields” (invited)

S. Takeyama, R. Shen, Y. Enya, E. Kojima, H. Mino, R. Akimoto

June 24, Tuesday

9:00-10:45	Oral poster session (AM)
10:45-11:00	Break
11:00-12:45	Oral poster session (AM)
12:45-14:00	Lunch
14:00-15:45	Oral poster session (PM)
15:45-16:00	Break
16:00-17:45	Oral poster session (PM)
17:45-18:10	Break

C1: Ultrafast spectroscopy (JST session) (Chair: K. Nasu)

18:10-18:50	C1-1 “Ultrafast insulator-metal transition in VO ₂ : interplay between coherent lattice motion and electronic correlations” (Plenary) <i><u>A. Leitenstorfer</u>, R. Huber, C. Kübler, R. Lopez, A. Halabica, R. F. Haglund</i>
18:50-19:10	C1-2 “Ultrafast photoswitching dynamics of bistable spin-crossover molecules at solid state” (invited) <i><u>E. Collet</u>, J. Hebert, N. Moisan, M. Lorenc, M. Servol, M. Buron, H. Cailleau</i>
19:10-19:30	C1-3 “Excitonic and vibrational nonlinear processes in a polydiacetylene studied by a few-cycle pulse laser” (invited) <i><u>T. Kobayashi</u>, I. Iwakura, A. Yabushita</i>

June 25, Wednesday

C2: THz spectroscopy (JST session)

(Chair: K. Cho)

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|-------------|---|
| 9:00-9:40 | C2-1 “Terahertz nonlinear control of optically dark excitons in Cu ₂ O”
(Plenary)
<i>S. Leinß, T. Kampfrath, K. V. Volkmann, D. Fröhlich, M. Wolf, A. Leitenstorfer, <u>R. Huber</u></i> |
| 9:40-10:00 | C2-2 “Ultrabroadband Time domain spectroscopy using photoconductive Antenna”
<i><u>M. Ashida</u>, R. Akai, H. Shimosato, I. Katayama, K. Miyamoto, H. Ito</i> |
| 10:00-10:20 | C2-3 “Noncolinear optical parametric process in LiNbO ₃ using tilted femtosecond laser pulse”
<i><u>M. Nagai</u>, M. Jewariya, K. Tanaka</i> |
| 10:20-10:40 | C2-4 “Spin-density-wave gap in (TMTSF) ₂ PF ₆ probed by reflection-type terahertz time domain spectroscopy” (invited)
<i><u>S. Watanabe</u>, R. Kondo, S. Kagoshima, R. Shimano</i> |
| 10:40-11:00 | Break |

C3: Light-mater interactions (JST session)

(Chair: U. Woggon)

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|-------------|---|
| 11:00-11:40 | C3-1 “Exciton coherence in semiconductor quantum dots” (Plenary)
<i><u>J. Ishi-Hayase</u></i> |
| 11:40-12:00 | C3-2 “Translation of semiclassical optical-response theory into quantum-optics theory” (invited)
<i><u>K. Koshino</u></i> |
| 12:00-12:20 | C3-3 “General form of Maxwell equations for metamaterials study” (invited)
<i><u>K. Cho</u></i> |
| 12:20-12:40 | C3-4 “s-polarization Brewster's angle of stratified metal-dielectric metamaterial in optical regime” (invited)
<i><u>R. Watanabe</u>, M. Iwanaga, T. Ishihara</i> |
| 12:40-13:00 | Conference Picture |
| 13:00-18:00 | Excursion |
| 18:00-20:00 | Banquet |

June 26, Thursday

D1: Organic Materials

(Chair: T. Karasawa)

- 9:00-9:40 D1-1 “Excitons and Aharonov-Bohm effect in carbon nanotubes”
(Plenary)
T. Ando
- 9:40-10:00 D1-2 “Experimental study of Aharonov-Bohm effect in a single carbon nanotube”
K. Matsuda, R. Matsunaga, Y. Kanemitsu
- 10:00-10:20 Break

D2: Organic Materials

(Chair: J. Singh)

- 10:20-11:00 D2-1 “Exciton in a perfect quasi-1D organic quantum wire: an isolated polydiacetylene chain” (Plenary)
L. Legrand, T. Barisien, F. Dubin, R. Melet, V. Voliotis, R. Grousson, M. Schott
- 11:00-11:20 D2-2 “Nonexcitonic temperature broadening and shift of excitonic absorption in light-harvesting complexes LH2” (invited)
G. Trinkunas, O. Zerlauskiene, A. Gall, B. Robert, V. Urboniene, L. Valkunas
- 11:20-11:50 D2-3 “Photoinduced energy transfer and charge separation in donor-acceptor linked systems” (Plenary)
H. Imahori
- 11:50-12:10 D2-4 “Exchange narrowing of the J-Band of molecular dye aggregates” (invited)
J. S. Briggs, A. Eisfeld
- 12:10-13:30 Lunch

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E : Biomaterials and Bio-inspired Systems

(Chair: J. P. Lemaistre)

13:30-14:10 E-1 “Exciton structure and dynamics in proteins and bioinspired molecular aggregates” (Plenary)

J. Knoester

14:10-14:40 E-2 “Studies on biomolecules using single-molecule imaging and manipulation techniques” (Plenary)

Y. Harada, H. Yokota

14:40-15:00 E-3 “Light-driven rotary molecular motors: ultrafast optical study” (invited)

R. Augulis, M. Klok, B. L. Feringa, P. H. M. Van Loosdrecht

15:00-17:30 **Poster session I (presentation : odd paper numbers)**

17:30-20:00 **Poster session II (presentation : even paper numbers)**

June 27, Friday

A3: Excitons in nanostructures and low-dimensional systems

(Chair: M. Nakayama)

- 9:00-9:40 A3-1 “Exciton-photon interaction in quantum structures” (Plenary)
U. Woggon
- 9:40-10:00 A3-2 “Single NN pair luminescence and single photon generation in nitrogen δ -doped GaP” (invited)
M. Ikezawa, Y. Sakuma, M. Watanabe, Y. Masumoto
- 10:00-10:20 A3-3 “Resonant energy transfer in hybrid organic-inorganic systems: the role of exciton diffusion” (invited)
R. F. Mahrt, T. Stoeferle, N. Moll
- 10:20-10:40 A3-4 “Exciton dynamics and energy transfer domains in single conjugated polymer chains and nanoparticles” (invited)
I. G. Scheblykin, O. Mirzov, H. Lin, S. R. Tabaei, D. Thomsson, R. Bloem
- 10:40-11:00 Break

F : Light-matter interactions

(Chair: K. Tanaka)

- 11:00-11:40 F-1 “Manipulation of photons by photonic crystals” (Plenary)
S. Noda
- 11:40-12:00 F-2 “Wave-packet propagation on the unconventional adiabatic potential surfaces with bumps and crossings” (invited)
T. Suemoto, Y. Takahashi, T. Koyama, M. Nakajima
- 12:00-12:40 F-3 “Light-exciton coupling in nano-to-bulk crossover regime” (Plenary)
H. Ishihara
- 12:40-13:10 EXCON'08 Prize (Chair: P. Petelenz)
- 13:10-13:30 Closing Session including Announcement of Next Conference

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Oral Poster Presentation

Group I: June 24, 9:00-12:45 (AM) Hall I, 14:00-17:45 (PM) Room III

- OP-I-01 9:00 “Quantum confined stark effect of excitons in a ZnO/ZnMgO single
14:00 quantum well and density dependent screening of the internal
 electricfield”
 *T. Sakamoto, J. Yoshitake, K. Yoshioka, A. Tsukazaki, M. Kawasaki, M.
 Kuwata-Gonokami*
- OP- I -02 9:15 “Four-wave-mixing study of exciton fine structure in GaN”
14:15 *T. Ishiguro, Y. Toda, S. Adachi, K. Tadatomo, K. Hoshino*
- OP- I -03 9:30 “Nonadiabatic theory of excitons in wurtzite AlGaN/GaN
 quantum-well heterostructures” (AM)
 E. P. Pokatilov, D. L. Nika, V. M. Fomin, J. T. Devreese
- OP- I -03 14:30 “Electron and exciton energy spectra and the Aharonov-Bohm effect
 in self-assembled InGaAs/GaAs ring-like nanostructures”(PM)
 *V. M. Fomin, V. N. Gladilin, J. T. Devreese, N. A. J. M. Kleemans, P. M.
 Koenraad*
- OP- I -04 9:45 “Near-field photoluminescence of exciton magnetic polarons in
14:45 CdTe/Cd_{0.75}Mn_{0.25}Te quantum wires”
 *Y. Harada, T. Kita, O. Wada, K. Matsuda, Y. Kanemitsu, H. Ando, H.
 Mariette*
- OP- I -05 10:00 “Propagation dynamics of exciton spins in a high-density
15:00 semiconductor quantum dot system”
 *A. Murayama, T. Furuta, S. Oshino, K. Hyomi, M. Sakuma, I. Souma,
 D. Dagnelund, I. A. Buyanova, W. M. Chen*
- OP- I -06 10:15 “Spin flip-flop in the electron-nuclei system and hysteretic response
15:15 of nuclear field in single quantum dots”
 S. Adachi, R. Kaji, S. Furukawa, S. Muto
- OP- I -07 10:30 “Phononic influence on the binding energies of screened excitons in
15:30 strained GaN/AlN wurtzite quantum wells and its pressure effect”
 S. H. Ha, S. L. Ban
- OP- I -08 11:00 “Optical evaluation of effective electron and hole g factors of single
16:00 quantum dots by using the nuclear field”
 R. Kaji, K. Yamada, H. Sasakura, S. Adachi, S. Muto
- OP- I -09 11:15 “Magnetic-field induced mixing of singlet and triplet excitons
16:15 confined in CuCl quantum dots”
 *K. Miyajima, Y. Umemura, F. Yamada, K. Katayama, M. Ashida, T.
 Itoh*
- OP- I -10 11:30 “Narrowing of exciton linewidth of a quantum dot with increasing
16:30 temperature”

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K. Bando, Y. Masumoto

- OP- I -11 11:45 “Synthesis, characterization, and its PL dynamics of colloidal type II
16:45 CdTe/CdSe nanocrystals”
M. Oda, A. Nishiyama, G. Marumo, S. Yamada, E. Tanaka, T. Tani
- OP- I -12 12:00 “Femtosecond pump-probe spectroscopy of CdSe nanoparticles in
17:00 colloid solution”
I. Dmitruk, I. Blonskiy, M. Davydenko, I. Pavlov, P. Korenyuk
- OP- I -13 12:15 “Radiation force mediated by exciton of a carbon nanotube”
17:15 H. Ajiki, T. Ishikawa, T. Iida, H. Ishihara
- OP- I -14 12:30 “Theory of nano optical manipulation by designed light fields under
17:30 excitonic resonance conditions”
T. Iida, T. Yoshimizu, H. Ishihara

Group II: June 24, 9:00-12:45 (AM) Hall II, 14:00-17:45 (PM) Room IV

- OP-II-01 9:00 “The optical spectra of confined polygermanes: from bulk film down
14:00 to nanosize layers”
S. Suto, N. Ostapenko, N. Kozlova, M. Nanjo, K. Mochida
- OP-II-02 9:15 “Optical properties and energy transfer of molecular aggregates”
14:15 A. J. Eisfeld
- OP-II-03 9:30 “Exciton energy transfer in mixed J-aggregates”
14:30 J. P. Lemaistre
- OP-II-04 9:45 “Rapid energy transfer and its temperature dependence in
14:45 π -conjugated dendrimers”
I. Akai, H. Nakao, A. Okada, K. Kanemoto, T. Karasawa, A. Ishida, A. Yamada, I. Katayama, J. Takeda, M. Kimura
- OP-II-05 10:00 “J-aggregate-based all-optical switch”
15:00 J. A. Klugkist, V. A. Malyshev, J. Knoester
- OP-II-06 10:15 “Energy landscapes, correlated disorder, and exciton dynamics in
15:15 chiral supramolecular nanostructures”
J-F. Glowe, M. Perrin, S. Gelin, C. Silva
- OP-II-07 10:30 “Beyond the strong vibronic coupling approximation - sexithiophene
15:30 single crystal”
A. Stradomska, P. Petelenz
- OP-II-08 11:00 “Unusual features of the quaterthiophene electro-absorption
16:00 spectrum”
P. Petelenz, M. Slawik, W. Kulig
- OP-II-09 11:15 “Lost of coherence due to disorder: time decay of the fluorescence
16:15 anisotropy in molecular rings”
P. Herman, D. Zapletal, I. Barvik

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- OP-II-10 11:30 “Excitons in perylene tetracarboxdiimide crystals for optoelectronics”
16:30 *F. Provencher, J-F. Laprade, S. G  linas, M. C  t  , C. Silva*
- OP-II-11 11:45 “Photosynthetic polarons”
16:45 *A. Freiberg, G. Trinkunas*
- OP-II-12 12:00 “Study of non-proportional light yield in scintillators”(AM)
G. Bizarri, W. W. Moses, J. Singh, A. N. Vasil’ev, R. T. Williams
- OP-II-12 17:00 “Radiative emission from triplet excitations in light emitting
devices”(PM)
J. Singh
- OP-II-13 12:15 “Analysis of non-exponential decay of photogenerated carriers by
17:15 recombination”
T. Bando, K. Koshino, C. Itoh, Y. Shinozuka
- OP-II-14 12:30 “Dynamics of nuclear wave packet in the excited state of KCl *F*
17:30 centers”
T. Koyama, M. Nakajima, T. Suemoto

Group III: June 24, 9:00-12:30 (AM) Room III, 14:00-17:30 (PM) Hall I

- OP-III-01 9:00 “Photoinduced dissociation of donor-acceptor pairs in nonmagnetic
14:00 phase of organic charge-transfer crystal of tetrathiafulvalene-
tetrabromo-1,4-benzoquinone”
C. Itoh, Y. Nakata
- OP-III-02 9:15 “The photo-induced phase transition in Et₂Me₂Sb[Pd(dmit)₂]₂”
14:15 *T. Ishikawa, N. Fukazawa, Y. Matsubara, R. Nakajima, K. Onda, Y.
Okimoto, S. Koshihara, M. Tamura, R. Kato, M. Lorenc, E. Collet*
- OP-III-03 9:30 “Charge transfer processes in cyano-bridged transition metals”
14:30 *H. Kamioka, Y. Moritomo, W. Kosaka, S. Ohkoshi*
- OP-III-04 9:45 “The light-induced spin transition of tetranuclear spin crossover
14:45 complex [Fe₄(CN)₄(bpy)₄(tpa)₂](PF₆)₄”
T. Nishihara, H. Watanabe, S. Mouri, M. Nihei, H. Oshio, K. Tanaka
- OP-III-05 10:00 “Charge ordering in EDO-TTF salts and their optical spectra: toward
15:00 the first-principle understanding of photoinduced phase transition”
K. Iwano, Y. Shimo
- OP-III-06 10:15 “Nano-scale sp² → sp³ collective conversion induced by a few visible
15:15 lights irradiation for graphite crystal”
L. Radosinski, K. Nasu
- OP-III-07 10:30 “Triplet-triplet absorption transitions in self-trapped excitons and F₂
15:30 centers in alkali halides”
L. Lisitsyna
- OP-III-08 11:00 “Optically detected magnetic resonance of three types of self-trapped
16:00 excitons in alkali halide crystals”

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M. Shirai, I. Akimoto, K. Tanaka, K. Kan'no

- OP-III-09 11:15 “New aspects in nanofabrication by near-field photo-CVD”
16:15 A. Sato, F. Minami, K. Kobayashi
- OP-III-10 11:30 “Radiative decay theory: What suppresses exciton superradiance?”
16:30 M. Bamba, H. Ishihara
- OP-III-11 11:45 “Theory of superradiance via biexciton states in an assembly of
16:45 semiconductor quantum dots”
A. Ishikawa, H. Ishihara
- OP-III-12 12:00 “Cu₂O paraexcitons in a strain-induced trap probed by excitonic
17:00 Lyman spectroscopy”
E. Chae, K. Yoshioka, T. Ideguchi, N. Naka, M. Kuwata-Gonokami
- OP-III-13 12:15 “Low-temperature excitons produced by two-photon excitation in
17:15 high-purity diamond crystals”
N. Naka, T. Kitamura, J. Omachi, M. Kuwata-Gonokami

Group IV: June 24, 9:00-12:30 (AM) Room IV, 14:00-17:30 (PM) Hall II

- OP-IV-01 9:00 “Picosecond transient absorption and excitonic luminescence at low
14:00 temperature in undoped ZnO”
K. B. Ucer, R. A. Wall, K. C. Lipke, R. T. Williams
- OP-IV-02 9:15 “Whispering gallery mode polariton in a ZnO microcavity”
14:15 L. Sun, Z. Chen, Q. Ren, K. Yu, H. Xiong, L. Bai, W. Zhou, Z. Q. Zhu, X. Shen
- OP-IV-03 9:30 “Asymmetric temporal profile of optical Kerr signal from GaAs/AlAs
14:30 multilayer with $\lambda/2$ phase shift layer”
K. Morita, T. Kanbara, S. Nakano, S. Yano, T. Kitada, T. Isu
- OP-IV-04 9:45 “The third-order nonlinear optical response of excitons strongly
14:45 coupled with a cavity field: from the perspective of cancellation”
H. Oka, K. Taniguchi, H. Ajiki, H. Ishihara
- OP-IV-05 10:00 “Self-trapped exciton with vibronic structure on BN nanotubes”
15:00 R. T. Williams, K. B. Ucer, D. L. Carroll, L. Trinkler, V. Korsak, B. Berzina
- OP-IV-06 10:15 “Excitonic and defect luminescence in h-BN powder and BN
15:15 nanotubes”
B. Berzina, L. Trinkler, V. Korsak, R. T. Williams, K. B. Ucer, D. L. Carroll, S. Bellucci
- OP-IV-07 10:30 “Free- and bound-biexciton luminescence from AlN epitaxial layers”
15:30 Y. Yamada, K. Choi, S. Shin, H. Murotani, T. Taguchi, N. Okada, H. Amano
- OP-IV-08 11:00 “Exciton and biexciton properties in GaN nanocolumn: dependence
16:00 on morphology and diameter”

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K. Kouyama, M. Inoue, Y. Inose, N. Suzuki, H. Kunugita, K. Ema, H. Sekiguchi, A. Kikuchi, K. Kishino

OP-IV-09 11:15 “Exicton dynamics in semiconducting single-walled carbon
16:15 nanotubes”

L. Valkunas, D. Abramavicius, YZ. Ma, G. R. Fleming

OP-IV-10 11:30 “Emergence of optical magnetism in stratified metal-dielectric
16:30 metamaterials”

M. Iwanaga

OP-IV-11 11:45 “Multichanneled relaxation of halogen-bridged diplatinum chain
16:45 complexes photoexcited”

S. Yamamoto, J. Ohara

OP-IV-12 12:00 “Temperature dependent terahertz time-domain spectroscopy of
17:00 multiferroic CoCr₂O₄ thin film”

K. R. Mavani, M. Nagai, D. S. Rana, I. Kawayama, M. Tonouchi, K. Tanaka

OP-IV-13 12:15 “Frequency driven localization of plasmon polaritons in graded noble
17:15 metal nanoparticle chains”

A. V. Malyshev, V. A. Malyshev, J. Knoester

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Poster Presentation (June 26, 15:00-20:00, Hall III, Room IV)

- P-01 “Binding energies of excitons in wurtzite nitride semiconductor quantum dot under a weak electric field”
Z. W. Yan, L. Shi
- P-02 “Polaron effect on the binding energies of excitons in quantum wells under hydrostatic pressure”
G. J. Zhao, X. X. Liang, S. L. Ban
- P-03 “Photoluminescence properties of annealed InAs quantum dots capped by InGaAs layers”
S. Hiratsuka, S. Saravenan, T. Harayama, N. Ohtani
- P-04 “Temperature dependence of intrachain photoluminescence of a long oligothiophene”
K. Kanemoto, I. Akai, H. Hashimoto, T. Karasawa, N. Negishi, Y. Aso
- P-05 “Photoluminescence and Raman scattering spectra in metal/semiconductor-nanoparticle composite-monolayer films”
M. Kawai, N. Matsuura, H. Yanagi, A. Yamamoto, K. Hosoki, Y. Kanemitsu
- P-06 “Raman scattering spectra of CdS nanocrystals fabricated by a reverse micelle method”
A. Yamamoto, H. Endo, N. Matsuura, A. Ishizumi, Y. Kanemitsu
- P-07 “Non-uniform exciton localization in different GaAs quantum wells studied by spatially resolved cross-sectional cathodoluminescence”
K. Fujiwara, U. Jahn, E. Luna, H. T. Grah
- P-08 “Exciton-exciton interaction in one-dimensional exciton gas phase”
T. Hanamiya, K. Asano, T. Ogawa
- P-09 “Transient band bending in InP/InAs/InP core-multishell nanowires”
K. Goto, S. Tomimoto, B. Pal, Y. Masumoto, P. Mohan, J. Motohisa, T. Fukui
- P-10 “Exciton Quantum confinement effect in nanohills formed on a surface of CdZnTe crystal by Nd:YAG laser radiation”
A. Medvid', A. Mychko, N. Litovchenko, O. Strilchuk, P. Onufrijevs, U. Naseka, A. Pludons
- P-11 “White photoluminescence from Si/SiO₂ nanostructured film”
P. H. Duong, P. T. Huy, T. Itoh
- P-12 “Structural and electronic properties of Co-doped ZnO nanocrystals synthesized by co-precipitation method”
N. Hasuike, K. Nishio, T. Isshiki, K. Kisoda, H. Harima
- P-13 “Enhancement of the radiative recombination of free excitons at the hetero-interface of ZnO/Zn_{1-x}Mg_xO epitaxial thin films”
H. Shibata, H. Tampo, K. Maejima, K. Matsubara, A. Yamada, K. Sakurai, S. Ishizuka, S. Niki, M. Sakai
- P-14 “Phase relaxation processes of excitons in semiconducting single-walled

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- carbon nanotubes”
M. Ichida, Y. Kiyohara, S. Saito, Y. Miyata, H. Kataura, H. Ando
- P-15 “Exciton-phonon interactions in single-walled carbon nanotubes: temperature dependence”
K. Yoshikawa, K. Matsuda, Y. Kanemitsu
- P-16 “Observation of excitonic Rabi oscillations in a single quantum dot using a heterodyne pump-probe technique”
Y. Miyahara, Y. Mitsumori, H. Kosaka, K. Edamatsu
- P-17 “Optical fabrication of wide-gap semiconductor nanoparticles in superfluid helium”
K. Inaba, T. Saito, Y. Saito, M. Ichimiya, M. Ashida, S. Ichikawa, S. Takeda, T. Itoh
- P-18 “Size-dependent photoluminescence blinking statistics of single CdSe/ZnS nanocrystals”
Y. Ito, K. Matsuda, Y. Kanemitsu
- P-19 “Spontaneous emission rate of a single-impurity molecule depending on a crystalline host”
I. Rebane
- P-20 “Engineering molecular aggregate spectra”
V. A. Malyshev, A. V. Malyshev
- P-21 “Optical properties of anthracene-fluorene mixed crystals fabricated by cell method”
T. Aoki-Matsumoto, A. Takama, K. Mizuno, T. Hirai, M. Matsumura
- P-22 “Hole burning of perylene microcrystallites embedded in polyvinyl alcohol”
K. Mizuno, T. Matsubara, T. Aoki-Matsumoto, M. Ichida, H. Ando, T. Itoh
- P-23 “Electron-phonon effect on excitons in quasi-2D ternary mixed crystal of polar semiconductors”
X. X. Liang, T-L. Song
- P-24 “Thermal inactivation of excitonically-induced defect formation in solid xenon”
A. N. Ogurtsov, N. Y. Masalitina, O. N. Bliznjuk
- P-25 “Surface Frenkel exciton stimulated potential sputtering of AHC and wide-band-gap semiconductor 3C-SiC by argon multicharged ions”
B. G. Atabaev
- P-26 “Photoluminescence of forsterite single crystals excited by vacuum ultraviolet radiation”
M. Kitaura, A. Ohnishi
- P-27 “Energy transfer to phonons after photoexcitation in one-dimensional correlated electron-phonon systems”
K. Yonemitsu, N. Maeshima
- P-28 “Optically induced lattice distortion and its spatial diffusion in the relaxed excited state of a quantum paraelectric material”

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T. Kohmoto, M. Yamaki, N. Hatano, Y. Koyama, T. Moriyasu

- P-29 “Photo-induced effect in a quantum paraelectric material: Transient birefringence measurement”
Y. Koyama, T. Moriyasu, H. Okamura, Y. Yamada, K. Tanaka, T. Kohmoto
- P-30 “Femtosecond time-resolved reflection spectroscopy in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x=0.37$)”
X. Peng, Y. Okimoto, M. S. Endo, K. Sato, T. Aizawa, K. Onda, T. Ishikawa, S. Koshihara, T. Arima
- P-31 “Photo-induced insulator-metal transition in the perovskite PrCaMnO ”
I. Kanazawa
- P-32 “The collective excitations in the colossal magnetoresistive bilayer manganites”
I. Kanazawa
- P-33 “Effect of disorder on the relaxation of photoexcited states in one-dimensional Mott insulators”
M. Segawa, A. Takahashi, M. Aihara
- P-34 “Raman spectroscopy of charge-ordered states in Magnéli titanium oxides”
M. Watanabe
- P-35 “Switching the current through molecular wires: comparison of two mechanisms”
U. Kleinekathöfer, G. Li, M. Schreiber
- P-36 “Effects of long-range Coulomb interaction on the exciton Mott transition”
T. Ohashi, Y. Tomio, T. Ogawa
- P-37 “Cluster perturbation study of 1D electron-hole hubbard model”
K. Asano, T. Nishida, T. Ogawa
- P-38 “Study of photo-excited carrier dynamics with transient grating method in Li-doped KTaO_3 ”
T. Domoto, M. Shirai, Y. Yamada, K. Tanaka
- P-39 “Pump-energy dependence of usual and unusual Bloch oscillations in a GaAs/AlAs superlattice”
T. Hasegawa, K. Mizoguchi, M. Nakayama
- P-40 “Four-wave-mixing spectroscopy for topological analysis”
Y. Toda, Y. Ueno, S. Adachi, R. Morita, T. Ishiguro, T. Tawara
- P-41 “Collective effects of excitons with prominent retardation in multiple-layered structures”
H. Yasuda, H. Ishihara
- P-42 “Extremely long electron spin coherence induced by a trion transition in ZnSe/BeTe type-II quantum wells”
H. Mino, Y. Kouno, K. Oto, K. Muro, R. Akimoto, S. Takeyama
- P-43 “Entangled-photon generation from a quantum dot in cavity QED”
H. Ajiki, H. Ishihara

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- P-44 “Exciton polaritons in bulk CuCl microcavities grown by vacuum deposition”
G. Oohata, T. Nishioka, D. Kim, H. Ishihara, M. Nakayama
- P-45 “Cavity polariton dispersion of a single-crystalline anthracene film embedded in a microcavity”
H. Kondo, K. Tongu, Y. Yamamoto, S. Yamamoto, H. Kurisu
- P-46 “Strong exciton-photon coupling and its polarization dependence in a metal-mirror microcavity containing oriented PIC J-aggregates”
Y. Obara, T. Inoue, T. Fujimura, M. Oda, T. Tani
- P-47 “Time-resolved photoinduced Kerr rotation in semiconductor microcavity”
Y. Mitsumori, N. Kato, H. Kosaka, K. Edamatsu, N. Yamamoto, K. Akahane
- P-48 “Infrared transient absorption spectra for excited transition of excitons and biexcitons in CuCl”
T. Yoshioka, K. Miyajima, M. Ashida, T. Itoh
- P-49 “Mechanism of carrier multiplication in carbon nanotubes studied by ultrafast pump-probe spectroscopy”
A. Ueda, K. Matsuda, T. Tayagaki, Y. Kanemitsu
- P-50 “Auger recombination process of biexciton in semiconducting carbon nanotubes”
K. Watanabe, K. Asano, T. Ogawa
- P-51 “Images of ZnS polycrystals by confocal sum frequency microscopy”
K. Locharoenrat, H. Sano, G. Mizutani
- P-52 “Dynamics of photo-excited carriers on GaAs(100) surface studied by ultrafast time-resolved photoemission”
J. Azuma, S. Tokudomi, K. Takahashi, M. Kamada
- P-53 “Optical control of residual excitons for ultrafast nonlinear response in GaAs thin films”
O. Kojima, A. Miyagawa, T. Kita, O. Wada, T. Isu
- P-54 “Characterization of electron and hole dynamics in CdSe quantum dots adsorbed onto nanostructured TiO₂ electrodes using near-field heterodyne transient grating technique”
Q. Shen, K. Yamamoto, L. J. Diguna, K. Katayama, T. Sawada, T. Toyoda
- P-55 “The observation of intense dynamic electron-phonon couplings due to a breather state of *trans*-polyacetylene with sub-5fs laser”
T. Teramoto, Z. Wang, T. Kobayashi
- P-56 “Cooling and spin-relaxation dynamics of spin-polarized excitons in diluted magnetic semiconductor quantum wells”
K. Saito, I. Souma, A. Murayama
- P-57 “Inversion of the spin polarization of localized electrons driven by dark excitons”
B. Eble, C. Testelin, F. Bernardot, M. Chamarro, G. Karczewski
- P-58 “Electron spin precession observed in bulk CdTe at room temperature”

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- T. Ito, W. Shichi, Y. Okami, M. Ichida, H. Gotoh, H. Kamada, H. Ando*
- P-59 “Ultrafast all-optical switching in nanocrystal quantum dots”
J. H. Kim, K. Kyhm, J. B. Lee
- P-60 “Ultrafast dynamics of high-density carriers in ZnO nano-multipods studied by femtosecond optical Kerr gate spectroscopy”
S. Mitsubori, S. H. Lee, T. Yao, I. Katayama, J. Takeda
- P-61 “Time-resolved absorption following electron-hole excitation in ZnO”
R. T. Williams, R. A. Wall, K. C. Lipke, K. B. Ucer, D. Millers, K. Smits, L. Grigorjeva, J. S. Neal, L. A. Boatner
- P-62 “Measurement of THz wave reflection by InAs surface with laser displacement sensor”
S. Saito, N. Sekine, K. Sakai
- P-63 “Measurement of superconducting MgB₂ thin films by broadband THz time domain spectroscopy”
H. Shimosato, I. Katayama, S. Saito, H. Shimakage, M. Tatsumi, Z. Wang, M. Ashida, T. Itoh, K. Sakai
- P-64 “Analysis of transmission line metamaterials at optical wavelength”
T. Baba, T. Ishihara
- P-65 “Influence of co-deposited active layers on carrier transport and luminescent properties in organic light emitting diodes”
M. Murata, T. Yamamoto, M. Haishi, T. Ando, N. Ohtani
- P-66 “4-(Dicyanomethylene)-2-methyl-6-(p-dimethylaminostyryl)-4H-pyran (DCM)-doping density dependence of luminescence spectra and white emission in polymer light-emitting diodes”
A. Inoue, T. Hosokawa, M. Haishi, N. Ohtani
- P-67 “Gain-narrowed emissions of thiophene/phenylene co-oligomer single crystals”
T. Hiramatsu, N. Matsuoka, H. Yanagi, F. Sasaki, S. Hotta
- P-68 “Efficient TiO₂ inverse opal photovoltaic cells sensitized with CdSe quantum dots”
L. J. Diguna, Q. Shen, J. Kobayashi, T. Toyoda
- P-69 “Photoluminescence study of bound excitons on CuInS₂ crystals”
K. Kishigui, Y. Shim, K. Yoshino, K. Wakita
- P-70 “Comparative study of excitonic structures and luminescence properties of Bi₄Ge₃O₁₂ and Bi₁₂GeO₂₀”
M. Itoh, T. Katagiri, H. Mitani, M. Fujita, Y. Usuki
- P-71 “Up to 30 times enhancement of deep UV emission at room temperature by prolonged excitation of localized exciton in NaCl:I crystal”
I. Akimoto, M. Shimozato, K. Kan'no
- P-72 “Trap state emission of water-soluble CdS nanocrystals”
W. Lu, Y. Tokuhito, I. Umezu, A. Sugimura, Y. Nagasaki

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- P-73 “Optical studies of hydrogen-bonded dielectrics TiH_2PO_4 ”
T. Kawai, N. Ohno
- P-74 “Optical constants and exciton transition in layered TlMeX_2 ”
Y.-G. Shim, W. Okada, K. Wakita, N. Mamedov
- P-75 “Reversible photo-induced spectral change and defect creation in ZrO_2 ”
F. Fujishiro, S. Mochizuki
- P-76 “Lattice-mismatch-strain effects on excitons in $\text{GaAs}_{1-x}\text{N}_x/\text{GaAs}$ heterostructures”
J. Hashimoto, M. Nakayama
- P-77 “Single poly(G)-poly(C) DNA based molecular devices”
A. V. Malyshev
- P-78 “Pulse cathodoluminescence of LiF and LiYF_4 crystals”
A. Dauletbekova, L. Lisitsyna, V. Lisitsyn, S. Putintseva, V. Korepanov, A. Akilbekov, M. Zdorovets