Forward
Conference Committees
Introduction
Opening Lecture: From the first fiber laser of E. Snitzer to upconversion fiber lasers

Keynote Lecture: Lasers: looking back over fifty years
Short talk about my father, Max Born
Max Born at the University of Wroclaw (Breslau): astronomy, mathematics, and physics
Coherency and lasers (dedicated to the memory of Prof. N. G. Basov)
In memory of A. M. Prokhorov
Wroclaw (Breslau) Nobel Prize winners
High-power RF-excited planar waveguide carbon dioxide lasers for microprocessing applications
Recent progress in copper vapor lasers
Large-area slab gas laser discharge
Pulsed operation of a 300-W RF-discharge-excited planar waveguide CO laser with room temperature coolant
Power deposition characteristics of a 40-MHz RF-excited slab CO[subscript 2] laser
Line stabilization of slab waveguide CO[subscript 2] lasers and the laser signature revisited
High pulse-repetition rate metal and metal halide vapor lasers
Molecular admixtures positive effect on output parameters of an e-beam pumped laser on Xe atomic transitions
Pulsed ion-ion recombination laser
Pulse repetitive lasers and excilamps pumped by generators with inductive energy storage
The determination of turbulent parameters of active-medium flow of a CO[subscript 2] laser by method in intracavity four-wave mixing
RF-excited slab CO[subscript 2] laser with intracavity mode selection
Industrial CO[subscript 2] laser with the phase compensation of the high-order cavity mode
Supersonic CO[subscript 2] laser excited by RF discharge in closed cycle
Observation of excitation discharge instability induced by shock wave in transversely excited atmospheric gas laser
Four-channel structures 2x2 for selected gas lasers
Theoretical investigation of combined discharge-pumped CO laser
Specific output power scaling of kinetically enhanced copper vapor lasers
Initial stage of discharge and its influence on characteristics of copper vapor lasers
Influence of intracavity perturbations on laser output beam characteristics
250-W RF-excited slab CO[subscript 2] lasers using gold catalyst
PDA simulator for the power distribution analyses of discharge-excited gaseous media
Implementation of simulation codes for gas flow CO lasers by the combination of server-side and client-side processing

1.5-kW CO$_2$ laser with nitrogen selective-excitation in barrier discharge and gas mixing

Folded stable resonators versus hybrid stable-unstable resonators for slab lasers

A novel light beam homogenizer

Adaptive system for high-power lasers

Gain and thermal guiding effects in diode-pumped lasers

Pressure tuning of high-power laser diodes

Far-field emission characteristics of high-power laser diodes

Low threshold nonlinear feedback in a CO$_2$ laser resonator

Reflectivity and fidelity of phase conjugation by stimulated Brillouin scattering of focused beams

Experimental tests of an intracavity deformable mirror designed for a cw CO$_2$ laser

Spectral aspects of a CO$_2$ slab waveguide laser design

Power efficiency optimization of the open resonator with Gaussian output mirror for different wavelengths

Development of 5-kHz ultra-line-narrowed F$^2$ laser for dioptric projection system

Vacuum ultraviolet Ar$^2$ excimer excited by an ultrashort-pulse high-intensity laser

Characterization of bremsstrahlung x-ray emission as a reason for optics degradation in rep-rate e-beam-pumped KrF laser driver in IFE application

Oscillation characteristics of a discharge-pumped VUV Kr excimer laser

1.3 J KrF excimer laser with 2.5% efficiency

F$^2$-laser systems prepared for advanced applications at 157 nm

Results of a long-term test of an ArF mini-excimer laser

Problems and possibility forming of radiation with diffraction-limited divergence in electric-discharge excimer lasers

Estimation of F$^2$ laser characteristics under high-repetition-rate operation with one-dimensional model calculation

Interferometry of flow fields associated with a F$^2$ laser under high-repetition-rate operation

10-J long-pulse electric-discharge XeCl laser

Discharge-pumped radiation of xenon dimers

Attosecond science: present status and prospects

Recent progress in high-brightness coherent XUV sources based on high-order harmonic generation

Picosecond thin-disk regenerative amplifier

20-mJ diode-pumped chirped-pulse regenerative amplifier with a cooled Yb:LiYF$^4$

Picosecond terawatt CO$_2$ laser system: Picasso-2

Nanosecond-pulse barrier discharge for high-power laser excitation

International COIL technology survey
Mechanisms of COIL operation: experiment and modeling  
Recent work on the development of an electric-discharge oxygen-iodine laser  
Comparing the efficiency of supersonic oxygen-iodine lasers with different mixing designs  
On the possibility of realizing the singlet oxygen generator on the base of optically pumped fullernes and of fullerene-like nanoparticles  
Ten-kilowatt COIL: design and test results  
COIL fiber transmission for material-cutting applications  
Experimental results on chemical generation of atomic iodine via Cl atoms for chemical oxygen-iodine laser  
Characteristics of high-reflection thin films in a COIL system  
Aspects of 3D chemical oxygen-iodine laser simulation  
Modified simplified rate equation model of a flowing chemical oxygen-iodine laser and its application  
A simplified 1D kinetic model for a subsonic COIL with a mixing term in spatially dependent kinetic equation for \( I_2 \) molecules  
Self-initiated volume discharge for production of atomic iodine in pulsed oxygen-iodine lasers  
High-pressure pulsed COIL assisted with an instantaneous production of atomic iodine II  
Regeneration of basic hydrogen peroxide for chemical oxygen-iodine laser  
Novel mixing nozzles for supersonic chemical oxygen-iodine laser  
Mixing of gaseous reactants in chemical generation of atomic iodine for COIL: two-dimensional study  
Experimental study and optimization of the iodine gas and singlet oxygen mixing in a supersonic oxygen-iodine laser  
Development of a mist singlet oxygen generator for a chemical oxygen-iodine laser  
Luminescence of oxygen-nitrogen mix microwave discharge products in visible and near-IR spectral ranges: the moving microwave discharge as the singlet (\( a^1\Delta_g \)) oxygen source  
Disk oxygen generator with closed flow loop for long-term COIL operation  
Optical guide effects in a COIL  
CFD-based optimization of iodine mixing for a supersonic COIL  
Numerical simulation of a Q-switched supersonic-flow chemical oxygen-iodine laser solving a time-dependent paraxial wave equation  
A new project for developing a prototype COIL module at Miki Pulley  
Effects of translational nonequilibrium on the performance of a flowing chemical oxygen-iodine laser  
RF plasma jet generator of singlet delta oxygen in chilled and energy-transfer modes for an oxygen-iodine laser  
Advanced photon processing and measurement technology  
High-power two-micron fiber lasers  
Performance improvements of Cr:LiSAF high-power thin-slab zig-zag laser  
Pulsed solid state laser systems with high brightness by fiber phase conjugation  
High-beam-quality operation of a 150-W diode-pumped solid state planar waveguide laser
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