ADVANCED PHOTONICS

A highly selective, open-access journal in optics and photonics

A Nobel prize timeline related to **light, masers and lasers,** and their applications

- 1902 — Physics — **Lorentz and Zeeman** — The Zeeman Effect, Electron Oscillator Model
- 1903 — Physiology or Medicine — **Finsen** — Phototherapy-Use Of UV Light To Treat Lupus
- 1907 — Physics — **Michelson** — The Michelson Interferometer & Precision Measurements
- 1908 — Physics — **Lippmann** — Colour Photography Based On Interference
- 1911 — Physiology or Medicine — **Gullstrand** — Description Of The Refractive Optics Of The Eye
- 1912 — Physics — **Dalén** — Solar-Based Regulator For Buoys And Lighthouses
- 1918 — Physics — **Planck** — Energy Quanta
- 1919 — Physics — **Stark** — The Stark Effect
- 1921 — Physics — **Einstein** — Photoelectric Effect & Services To Theoretical Physics
- 1922 — Physics — **Bohr** — Atomic Structure And The Nature Of Radiation
- 1923 — Physics — **Millikan** — Elementary Charge And The Photoelectric Effect
- 1927 — Physics — **Compton** — The Compton Effect
- 1930 — Physics — **Raman** — Raman Scattering
- 1932 — Physics — **Heisenberg** — Creation Of Quantum Mechanics
- 1933 — Physics — **Schrodinger and Dirac** — New Productive Forms Of Atomic Theory
- 1945 — Physics — **Pauli** — Pauli Exclusion Principle
- 1953 — Physics — **Zernike** — Phase Contrast Microscope
- 1954 — Physics — **Born** — Statistical Interpretation Of The Wavefunction
- 1955 — Physics — **Lamb** — Fine Structure Of The H.Spectrum (Lamb Shift, QED)
- 1964 — Physics — **Townes, Basov, and Prokhorov** — Maser-Laser Principle
- 1966 — Physics — **Kastler** — Precision Studies Of Optical Resonances
- 1967 — Physiology or Medicine — **Granit, Hartline, and Wald** — Physiological And Chemical Visual Processes In The Eye
- 1967 — Chemistry — **Eigen, Norrish, and Porter** — Flashlamp Pump-Probe Studies Of Chemical Reactions (μs)
- 1971 — Physics — **Gabor** — Holography
- 1981 — Physics — **Bloembergen and Schawlow** — Laser Spectroscopy
- 1981 — Physiology and Medicine — **Hubel and Wiesel** — Information Processing In The Visual System
- 1989 — Physics — **Ramsey, Dehmelt, and Paul** — Atomic Clocks, The Ion Trap
- 1997 — Physics — **Chu, Cohen-Tannoudji, and Phillips** — Laser Cooling and Trapping
- 1999 — Chemistry — **Zewail** — Femtochemistry
- 2000 — Physics — **Alferov and Kroemer** — Optoelectronics, Semiconductor Heterostructures
- 2001 — Physics — **Cornell, Ketterle, and Wieman** — Bose Einstein Condensation
- 2005 — Physics — **Glauber, Hall, and Haensch** — Quantum Optics, Spectroscopy, Optical Frequency Comb
- 2008 — Chemistry — **Shimomura, Chalfie, and Tsien** — Green Fluorescent Protein GFP
- 2009 — Physics — **Kao, Boyle, and Smith** — Optical Fiber Communications; Imaging And The CCD
- 2012 — Physics — **Haroche and Wineland** — Individual Quantum Systems
- 2014 — Physics — **Akasaki, Amano, and Nakamura** — The Blue LED And Energy-Saving White Light Sources
- 2014 — Chemistry — **Betzig, Hell, and Moerner** — Super-Resolution Microscopy
- 2018 — Physics — **Ashkin, Mourou, and Strickland** — Optical Tweezers & Biophotonics; Chirped Pulse Amplification

SPIE. CHINESE LASER PRESS 2009 2019

Website advphoton.org