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Part 1: Lectures -- 1.Sergey. Gaponenko – Nano-Photonics with and without Photons -- 2.Lukas Novotny – Quantum Sensing and Engineering -- 3.Maura Cesaria and Baldassare Di Bartolo – Nanophosphoros: from rare earth activated multicolor-tuning to new efficient white light sources -- 4.John Collins - Non-Radiative Processes In Crystals and Nanocrystals -- 5.Jean-Pierr Wolf – Quantum Aspects of Biophotonics -- 6. Lora Ramunno – Simulations in Nano-Photonics -- 7.John Bowen - Terahertz Nanoscale Science and Technology -- 8.Fabrizio Pinto – Casimir Forces: Fundamental Theory, Computation, and Nano-device Applications -- 9. Diana Adliene – Nano-materials and Nano-technologies for Photon Radiation Enhanced Cancer Treatment -- 10.Oliver Benson – Fundamental Experiments and Quantum Technology Applications with Defect Centres in Diamond -- 11.Hilmi Volkan Demir - Emerging Fields of Colloidal Nanophotonics for Quality Lighting to Versatile Lasing -- 12.Joshua Caldwell - Semiconductor Nano-Photonics using Surface Polaritons -- 13.Wolfram Pernice - Waveguide integrated superconducting single photon detectors -- 14.Stephen Arnold – Whispering Gallery Mode resonators as opto-mechanical probes to nano-particle-microcavity interactions and charge -- 15.Markus Pollnau – Novel Aspects of Fabry-Perot Resonator -- 16.Rolindes Balda - Performance of Nd³⁺ as structural probe of rare-earth distribution in transparent nanostructured glass-ceramics -- 17.Malgorzata Guzik - Research on the Yb³⁺ ion activated cubic molybdates and molybdatotungstates for optical transparent ceramics -- Part II: Short Seminars -- 1. Fabian Beutel – Quantum Key Distribution over Free Space -- 2.Antonino Cala' Lesina – Modelling of Coloured Metal Surfaces by Plasmonics Nanoparticles -- 3.Onur Erdem - Exciton Dynamics of Colloidal Semiconductor Quantum Well Stacks -- 4.James Godfrey - InAsP Quantum Dots in InP Nanowire Waveguides as Sources of Quantum Light -- 5. Wladislaw Hartmann - Diamond Nano-Photonic Circuits -- 6.Isabelle Palstra - Superchiral Near Fields in Photonic Crystal Waveguides -- 7.Marya Rudenko - Neodymium doped Luminescent Composites Derived From the Sols Based On Carboxylic Acids -- 8.Konstantin Shportko - Vibrational properties of Ge-Sb-Te phase-change alloys studied by temperature-dependent IR and Raman spectroscopy -- 9.Felix Stete - Size dependence of the coupling strength in plasmon-exciton Nano-Particles -- 10.Hasan Tabanlı - Introduction to Shock Wave-Boundary Layer Interaction and Unstart in Supersonic Inlets -- 11.Sevcan Tabanlı - Investigation of the white light emission from Er/Nd/Yb rare earth oxides at vacuum and atmospheric pressure -- 12.Nicolai Walter - Carbon Nanotubes as integrated electrically driven Light Source -- Part III: Posters -- 1.Antonino Cala' Lesina – Plasmonic Metasurfaces for Nonlinear Structured Light 1) Antonino Cala' Lesina – Plasmonic Metasurfaces for Nonlinear Structured Light -- 2.Gabriel Campargue – Cell Poration of Fixed and Live Cells by Phase Shaped femtosecond pulses -- 3.Marco Clementi – On-chip nonlinear optics in silicon rich nitride photonic crystal cavities -- 4.Tobias Frenzel - Mechanical Activity: The elastic counterpart of optical activity -- 5.Wladislaw Hartmann - Highly compact and scalable waveguide-integrated single photon spectrometer based on tailored disorder -- 6.Iyer – Symmetry Breaking and Active Fano resonance Tuning in Dolmen Nano-structures -- 7.Robert Keitel - Pump-Profile Engineering for Spatial- and Spectral-Mode Control in Two-Dimensional Colloidal-Quantum-Dot Spasers -- 8.Caroline Klusmann - Hybridizing whispering gallery modes and plasmonic resonances in a photonic meta-device for biosensing applications -- 9.Julian Koepfler - Three-dimensional Chiral

Photonic Crystals in the THz Regime Exhibiting Weyl Points with Topological Charges -- 10. Frederik Mayer - Three-dimensional Fluorescent Security Features Fabricated via 3D Laser Lithography -- 11. Michael Meeker - Strong coupling effects between IR-inactive zone folded LO phonon and localized surface phonon polariton modes in SiC nanopillars -- 12. Tobias Messer - Measuring the intensity profile of arbitrary shaped laser foci using confocal microscopy -- 13. Alexander Munchinger -- 3D Cubic buckling mechanical metamaterials -- 14. Stefano Orlando -- Light absorbing diamond for solar energy conversion -- 15. Nikolai Passler - Nonlinear Response and Strong Coupling of Surface Phonon Polaritons -- 16. Marco Passoni - Grating couplers in Silicon-on-insulator: the role of photonic guided resonances on lineshape and bandwidth -- 17. Siim Pikker - Aluminum plasmonics: fabrication and characterization of broadly tunable plasmonic surfaces for plasmon molecule strong-coupling and fluorescence enhancement -- 18. Jinq Yuan Qu - 3D Metamaterials with Negative Thermal Expansion and Negative Effective Compressibility -- 19. Andrei Ramanenka - Colloidal Spherical Silver Nanoparticles Based Plasmon Enhanced Fluorescence for Rapid Quantitative Point of Care Testing Fluorescent Immunoassay Development -- 20. Maryia Rudenko - Synthesis And Photoluminescence Of Strontium Titanate Xerogels Doped With Terbium, Ytterbium And Europium -- 21. Philip Schrinner - Integration of single photon sources with nano-photonic circuits -- 22. Konstantin Shportko - Vibrational properties of Ge-Sb-Te phase-change alloys studied by IR and Raman spectroscopy at different temperatures -- 23. Vladislav Stefanov - Quantum state engineering with single atom laser -- 24. Felix Steute - Signatures of Strong Coupling on Nanoparticles: Revealing Absorption Anticrossing by Tuning the Dielectric Environment -- 25. Sevcin Tabanlı -- Solid State Synthesis, structural and Up-Conversion Properties of Yb³⁺/Er³⁺ and Yb³⁺/Tm³⁺/Er³⁺ doped La₂Ti₂O₇ Phosphors -- 26. Silvia Tofani - Static and tunable devices for terahertz focusing and beam steering -- 7. List of Participants.

Sommario/riassunto

This book brings together more closely researchers working in the two fields of quantum optics and nano-optics and provides a general overview of the main topics of interest in applied and fundamental research. The contributions cover, for example, single-photon emitters and emitters of entangled photon pairs based on epitaxially grown semiconductor quantum dots, nitrogen vacancy centers in diamond as single-photon emitters, coupled quantum bits based on trapped ions, integrated waveguide superconducting nanowire single-photon detectors, quantum nano-plasmonics, nanosensing, quantum aspects of biophotonics and quantum metamaterials. The articles span the bridge from pedagogical introductions on the fundamental principles to the current state-of-the-art, and are authored by pioneers and leaders in the field. Numerical simulations are presented as a powerful tool to gain insight into the physical behavior of nanophotonic systems and provide a critical complement to experimental investigations and design of devices.