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The design and fabrication of functional scientific instrumentation allows students to

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forge a link between commonly reported nos. and phys. material properties. Here, a two-point and four-point probe station for measuring elec. properties of solid materials is fabricated via 3D printing utilizing an inexpensive benchtop fused-deposition modeling system and designed by std. computer-aided design software.

Design, Fabrication, and Optical Characterization of a Low ...

Design, Fabrication, and Optical Characterization of a Low-Cost and Open-Source Spin Coater Mohammad Sadegh-cheri*

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Department of Laser, Institute of Science and High Technology and Environmental Sciences, Graduate University of Advanced

Design, Fabrication, and Optical Characterization of a Low ...

In this paper, we presented design, fabrication and optical characterization of two-dimensional PhC GaAs slabs, with InAs QDs inside, on SiO₂/Si substrates as well as air-bridges. An identical PhC cavity design has been found valid for both air-bridged and on-SiO₂ GaAs PhC slab structures to tune the fundamental cavity mode frequencies in their

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photonic bandgaps to the QD gain.

Design, fabrication and optical characterization of GaAs ...

Optical characteristics of the AR coatings depend on transparency, refractive index and film thickness of fabricated layers. Spectral characteristics of the transmittance of cerium oxide and magnesium fluoride films deposited onto quartz substrates exhibited a good transparency from the IR range up to 200 nm for MgF₂ film and to about 380 nm for CeO₂ film.

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Design, fabrication and optical characterization of cerium ...

fabrication processes based on standard microfabrication and electroplating techniques were developed to fabricate the sensors on nickel substrates. Experimental characterization of those microring resonators as temperature sensors was carried out to investigate the feasibility and functionality of optical thin film sensors on metal substrates.

Design, fabrication and characterization of optical ...

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Design, fabrication and optical characterization of photonic crystal assisted thin film monocrystalline-silicon solar cells
Xianqin Meng, Valérie Depauw, Guillaume Gomard, Ounsi El Daif, Christos Trompoukis, Emmanuel Drouard, Cécile Jamois, Alain Fave, Frédéric Dross, Ivan Gordon, and Christian Seassal

OSA | Design, fabrication and optical characterization of ...

Design, fabrication and characterization of integrated optical elements and circuits for telecommunication and optical biosensors

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using ion beam techniques Ph.D. work in Physics Doctoral School. BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, Budapest, Hungary Director: Dr. István Bányász

Design, fabrication and characterization of integrated ...

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is a really

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Various types of 1-D PhC structures have been fabricated using electron beam lithography and inductively coupled plasma technologies in a clean-room environment. The fabricated structures in effect demonstrate a first or primitive level of integration of 1-D PhCs with another optical device, namely a ridge waveguide.

Design, fabrication and characterization of

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one ...

Design, Fabrication, and Characterization of Monolithically Integrated Acoustic and Photonic Devices on Lithium Niobate Over Insulator (LNOI) Platform.

2018-02-01T00:00:00Z (GMT) by Mohamad Mahmoud. Integration of acoustics and photonics devices on the same chip will enable various applications including: building miniaturized sensors, on-chip filtering and optical signal processing, high speed modulation, as well as non-linear optical devices.

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Design, Fabrication, and Characterization of

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Gold nanoparticles have been used since antiquity for the production of red-colored glasses. More recently, it was determined that this color is caused by plasmon resonance, which additionally increases the material's nonlinear optical response, allowing for the improvement of numerous optical devices. Interest in silica fibers containing gold nanoparticles has increased recently, aiming at ...

Fabrication and Optical Characterization of

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Silica Optical ...

Design, fabrication and optical characterization of photonic crystal assisted thin film monocrystalline-silicon solar cells
Xianqin Meng,^{1,2,3} Valérie Depauw,⁴ Guillaume Gomard,^{1,2,3} Ounsi El ...

Design, fabrication and optical characterization of ...

Photon nanojet lens: Design, fabrication and characterization. Chen Xu, Sichao Zhang, Jinhai Shao, Bing-Rui Lu, Reyad Mehfuz, Stacey Drakeley, Fumin Huang, Yifang Chen.
... The light distribution through the lens

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near its surface was initially characterized by a scanning near-field optical microscope, showing a well defined focusing image of ...

Photon nanojet lens: Design, fabrication and characterization

These fabricated layers have been characterized to determine their physical and optical properties using different methods: SEM, FTIR spectrometry, and spectroscopic ellipsometry. One of these methods, the ellipsometry, has been carried out during a three-month predoctoral stage at the Ecole Polytechnique in Paris.

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Design, fabrication and characterization of porous silicon ...

We have demonstrated the design, fabrication and optical characterization of an indefinite metamaterial composed of silver nanowires embedded in an alumina matrix, achieving an effective indefinite property in permittivity. The major challenge of creating such metamaterials with good optical quality was overcome

Design, fabrication and characterization of indefinite ...

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The Japan Society of Applied Physics. The Japan Society of Applied Physics (JSAP) serves as an academic interface between science and engineering and an interactive platform for academia and the industry. JSAP is a "conduit" for the transfer of fundamental concepts to the industry for development and technological applications.

Fabrication and optical characterization of photonic ...

Capillary optical fiber - design, fabrication, characterization and application the process, and geometrical parameters, associated with

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Design including theory and simulation; Fabrication technologies including deposition and patterning; Characterization methods, including methodology, instrument setup, and evaluation techniques; Nanomaterials, low-dimensional materials, and optical metamaterials; Metal optics and plasmonics; Thin-film structures, devices, and systems. Sincerely

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Special Issue "Design, Fabrication, and Characterization ...

During the last decade, the orbital angular momentum (OAM) of light has attracted growing interest as a new degree of freedom for signal channel multiplexing in order to increase the information transmission capacity in today's optical networks. Here we present the design, fabrication and characterization of phase-only diffractive optical ...

Diffractive optics for combined spatial- and

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mode ...

This paper presents the design, fabrication and characterization of a linear-variable optical-filter (LVOF) that will be used in a micro-spectrometer operating in infrared (IR) for natural gas composition measurement.

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