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Surface relief and refractive index gratings patterned in chalcogenide glasses and studied by off-axis digital holography

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Applied Optics

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Laser induced periodic structures in porous silicon

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Applied Surface Science

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New optical materials based on chalcogenide glasses

Iovu Mihail, Benea Vasile, Cojocaru Ion, Colomeico Eduard, Tăzlăvan Victor, Iovu Maria

Institute of Applied Physics, Academy of Sciences of Moldova

Annual Congress of the American Romanian Academy of Arts and Sciences.

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Development of digital holographic microscope for 3D sensing of biological surface morphology

Achimova Elena

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Characterization of the photo-structurable media from carbazol-containing copolymers and thermo-cross-linking media from vynil-containing copolymers

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New photoresists from carbazol-containing photopolymers

Bivol Valeriu¹, Robu Ștefan², Dragalina Galina², Bostan L.², Prisacari A.², Coban A.²

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Design principles of high sensitivity in the photochromic media

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Optical properties of amorphous As 45S 15Se 40 thin films

Iovu Mihail, Cojocaru Ion, Benea Vasile, Colomeico Eduard

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Journal of Optoelectronics and Advanced Materials

/ 2011 / ISSN 1454-4164

Disponibil online 27 February, 2024. Descarcări-0. Vizualizări-90

Optical photoinduced phenomena and holographic recording in amorphous As-Se thin films

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Disponibil online 23 February, 2024. Descarcări-0. Vizualizări-70

Two-layer structure for high spatial frequency optical data recording based on multinary chalcogenide semiconductors

Rotaru Vasile¹, Robu Ștefan¹, Ciapurin Igor¹, Dragalina Galina¹, Corșac Oleg¹, Aboudih I.², Lafond Christophe², Lessard Roger A.²

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Photothermoplastic-based recording equipment: New features of airborne and satellite imaging

Rotaru Vasile, Ciapurin Igor, Corșac Oleg

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Development of holographic optical elements based on LiNbO3 photorefractive crystals and As-S-Se chalcogenide films

Kukhtarev Nickolai¹, Kukhtareva Tatiana¹, Edwards Vernessa M.¹, Wang Jaiching¹, Rotaru Vasile², Corșac Oleg², Ciapurin Igor²

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Nanocomposite Films Based on Photosensitive Azopolymer with Gold Nanoparticles: Synthesis, Film Deposition, Diffractive Optical Elements Recording and Characterization

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Surface topography studied by off-axis digital holography

Achimova Elena¹, Abaşkin Vladimir¹, Cazac Veronica¹, Meşalchin Alexei¹, Giancarlo Pedrini², Claus Daniel², Shevkunov Igor³, Katkovnik Vladimir³

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Photostructure transformation effects of layer consisting from CAMC:OMA copolymers under the action of laser irradiation

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Direct surface relief formation on As₂S₃-Se nanomultilayers in dependence on polarization states of recording beams

Achimova Elena¹, Stronski Alexander², Abaşkin Vladimir¹, Meşalchin Alexei¹, Paiuk Oleksandr², Prisacar Alexandr¹, Oleksenko Pavel F.², Triduh Ghennadi¹

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Polarization holographic recording of vortex diffractive optical elements on azopolymer thin films and 3D analysis via phase-shifting digital holographic microscopy

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Effect of Corona Discharge on the Optical Properties of Thin-Film Cu-As₂Se₃ Structures

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Application of carbazole-containing polymer materials as recording media

Andrieş Andrei, Abaşkin Vladimir, Achimova Elena, Meşalchin Alexei, Prisacar Alexandr, Sergheev Serghei, Robu Ştefan, Vlad Ludmila

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Chemical photostructuration in iodoform-doped carbazolic copolymers for holographic recording

Chilat Ecaterina^{1,2}, Bodin Audrey¹, Chambon Sylvain¹, Frezet Lawrence¹, Rivaton Agnes¹, Robu Ștefan², Bolte Michele¹, Mailhot Benedicte¹

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Ciapurin Igor¹, Robu Ștefan¹, Rotari Eugeniu¹, Corșac Oleg¹, Lessard Roger A.²

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Properties of polymer compositions for recording and copying optical images

Bivol Valeriu¹, Barbă Nikolai², Robu Ștefan², Autor Nou², Vlad Ludmila², Prisacari A.¹, Triduh Ghennadi¹, Achimova Elena¹

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Structuri fotosensibile pe bază de semiconductori calcogenici sticloși din sistemul As-Se-S pentru înregistrarea informației optice

Prilepov Vladimir, Nasedchina Nadejda, Spoială Dorin, Chirița Arcadii

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Увеличение чувствительности фототермопластических носителей при дополнительной засветке интегральным и монохроматическим излучением

Chirița Arcadii, Corșac Oleg, Nasedchina Nadejda, Prilepov Vladimir, Jidcov Iurie, Ciornâi Alexei

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Both holographic and electron-beam recording in new carbazolyl - Containing photoresists

Andrieș Andrei¹, Bivol Valeriu¹, Ersoy Okan K.², Robu Ștefan¹, Sergheev Serghei¹, Vlad Ludmila¹

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