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The section of Optics and Lasers is open to receive high-quality papers reporting state-of-the-art technology in the fields of optics and lasers, which includes non-linear optics such as high-order harmonics, Raman, wave-mixing, multiphoton ionization, as well as other basic phenomena in this field. The section welcomes rudimentary and challenging studies concerning optical devices, such as photonic crystal fibers and micro-scale optics for fabrication of novel optical systems. Needless to say, production of lasers with unique properties, such as a high-power fiber laser or facilitating a large-scale laser system, are of great importance in this section. By contrast, studies focusing on data analyses methods or simulation based on traditional techniques should be sent to a different specialized journal.

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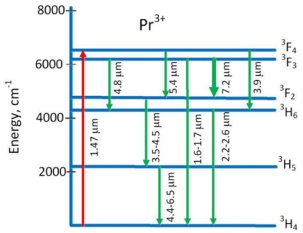
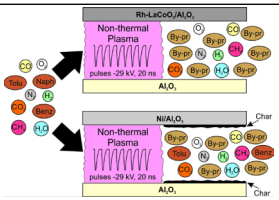
Content Highlights

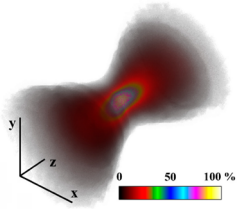
Milliwatt-Level Spontaneous Emission Across the 3.5–8 µm Spectral Region from Pr^{3+} Doped Selenide Chalcogenide Fiber Pumped with a Laser Diode
Author: Lukasz Sojka, Zhuoqi Tang, Dinuka Jayasuriya, Meili Shen, Joel Nunes, David Furniss, Mark Farries, Trevor M. Benson, Angela B. Seddon and Slawomir Sujecki
Appl. Sci. **2020**, *10*(2), 539
https://doi.org/10.3390/app10020539



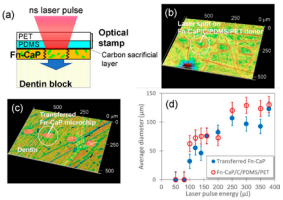
Tar Removal by Nanosecond Pulsed Dielectric Barrier Discharge
Authors: Mirosław Dors and Daria Kurzyńska
Appl. Sci. **2020**, *10*(3), 991
https://doi.org/10.3390/app10030991



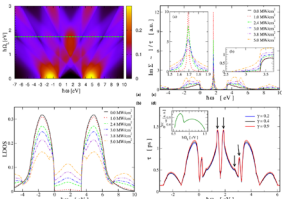
Performance Evaluation of a THz Pulsed Imaging System: Point Spread Function, Broadband THz Beam Visualization and Image Reconstruction
Authors: Marta Di Fabrizio, Annalisa D'Arco, Sen Mou, Luigi Palumbo, Massimo Petrarca and Stefano Lupi
Appl. Sci. **2021**, *11*(2), 562
https://doi.org/10.3390/app11020562



Laser-Induced Forward Transfer with Optical Stamp of a Protein-Immobilized Calcium Phosphate Film Prepared by Biomimetic Process to a Human Dentin
Authors: Aiko Narazaki, Ayako Oyane and Hirofumi Miyaji
Appl. Sci. **2020**, *10*(22), 7984
https://doi.org/10.3390/app10227984



Quantum Many-Body Theory for Exciton-Polaritons in Semiconductor Mie Resonators in the Non-Equilibrium
Authors: Andreas Lubatsch and Regine Frank
Appl. Sci. **2020**, *10*(5), 1836
https://doi.org/10.3390/app10051836



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