

Dr.Öğr.Üyesi IHOR PAVLOV

Kişisel Bilgiler

E-posta: ipavlov@metu.edu.tr

Web: <https://avesis.metu.edu.tr/ipavlov>

Araştırma Alanları

Malzeme Bilimi, Metroloji,ölçüm ve labaratuvar teknikleri, Optik özellikler, Yoğun madde spektroskopisi

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Time-resolved microscopy of femtosecond laser filaments in fused quartz**
Kadan V., Blonskyi I., Pavlov I.
OPTICS COMMUNICATIONS, cilt.505, 2022 (SCI İndekslerine Giren Dergi)
- II. **Azimuthal and polar anchoring energies of aligning layers structured by nonlinear laser lithography**
Pavlov I., Candemir O., Rybak A., Dobrovolskiy A., Kadan V., Blonskiy I., Lytvyn P., Korchoviy A., Tytarenko P., Kazantseva Z., et al.
Liquid Crystals, cilt.48, sa.1, ss.131-149, 2021 (SCI Expanded İndekslerine Giren Dergi)
- III. **3D-graphene-laser patterned p-type silicon Schottky diode**
Orhan E. O. , Efil E., Bayram O., Kaymak N., Berberoğlu H., Candemir O., PAVLOV I., Ocak S. B.
Materials Science in Semiconductor Processing, cilt.121, 2021 (SCI İndekslerine Giren Dergi)
- IV. **High power microsecond fiber laser at 1.5 µm**
Pavlova S., Yagci M. E. , Eken S. K. , Tunckol E., Pavlov I.
Optics Express, cilt.28, sa.12, ss.18368-18375, 2020 (SCI Expanded İndekslerine Giren Dergi)
- V. **Upconversion fluorescence assisted visualization of femtosecond laser filaments in Er-doped chalcogenide 65GeS(2)-25Ga(2)S(3)-10CsCl glass**
Blonskyi I., Kadan V., Shpotyuk O., Calvez L., Pavlov I., Pavlova S., Dmytruk A., Rybak A., Korenyuk P.
OPTICS AND LASER TECHNOLOGY, cilt.119, 2019 (SCI İndekslerine Giren Dergi)
- VI. **High-quality alignment of nematic liquid crystals using periodic nanostructures created by nonlinear laser lithography**
Pavlov I., Rybak A. S. , Dobrovolskiy A. M. , Kadan V. M. , Blonskiy I. V. , Kazantseva Z. I. , Gvozdovskyy I. A.
JOURNAL OF MOLECULAR LIQUIDS, cilt.267, ss.212-221, 2018 (SCI İndekslerine Giren Dergi)
- VII. **Generation of 2-µ J 410-fs pulses from a single-mode chirped-pulse fiber laser operating at 1550 nm**
Pavlova S., Rezaei H., Pavlov I., Kalaycioglu H., Ilday F. O.
APPLIED PHYSICS B-LASERS AND OPTICS, cilt.124, sa.10, 2018 (SCI İndekslerine Giren Dergi)
- VIII. **Spatio-temporal dynamics of femtosecond laser pulses at 1550 nm wavelength in crystal silicon**
Kadan V., Pavlova S., Pavlov I., Rezaei H., Ilday O., Blonskyi I.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.124, sa.8, 2018 (SCI İndekslerine Giren Dergi)
- IX. **NLL-Assisted Multilayer Graphene Patterning**
Kovalska E., Pavlov I., Deminskyi P., Baldycheva A., Ilday F. O. , Kocabas C.
ACS OMEGA, cilt.3, sa.2, ss.1546-1554, 2018 (SCI İndekslerine Giren Dergi)
- X. **The alignment of nematic liquid crystal by the Ti layer processed by nonlinear laser lithography**
Pavlov I., Rybak A., Dobrovolskiy A., Kadan V., Blonskiy I., Ilday F. O. , Kazantseva Z., Gvozdovskyy I.
LIQUID CRYSTALS, cilt.45, sa.9, ss.1265-1271, 2018 (SCI İndekslerine Giren Dergi)

- XI. **In-chip microstructures and photonic devices fabricated by nonlinear laser lithography deep inside silicon**
Tokel O., Turnali A., Makey G., Elahi P., Colakoglu T., Ergecen E., Yavuz O., Hubner R., Borra M. Z. , Pavlov I., et al.
NATURE PHOTONICS, cilt.11, ss.639-646, 2017 (SCI İndekslerine Giren Dergi)
- XII. **Femtosecond laser written waveguides deep inside silicon**
Pavlov I., Tokel O., Pavlova S., Kadan V., Makey G., Turnali A., Yavuz O., Ilday F. O.
OPTICS LETTERS, cilt.42, sa.15, ss.3028-3031, 2017 (SCI İndekslerine Giren Dergi)
- XIII. **Rich complex behaviour of self-assembled nanoparticles far from equilibrium**
Ilday S., Makey G., Akguc G. B. , Yavuz O. N. , Tokel O., Pavlov I., Gulseren O., Ilday F. O.
NATURE COMMUNICATIONS, cilt.8, 2017 (SCI İndekslerine Giren Dergi)
- XIV. **Nano patterning of AISI 316L stainless steel with Nonlinear Laser Lithography: Sliding under dry and oil-lubricated conditions**
Gnilitskiy I., Rotundo F., Martini C., Pavlov I., Ilday S., Vovk E., Ilday F. O. , Orazi L.
TRIBOLOGY INTERNATIONAL, cilt.99, ss.67-76, 2016 (SCI İndekslerine Giren Dergi)
- XV. **Nonlinear laser lithography to control surface properties of stainless steel**
Orazi L., Gnilitskiy I., Pavlov I., Serro A. P. , Ilday S., Ilday F. O.
CIRP ANNALS-MANUFACTURING TECHNOLOGY, cilt.64, sa.1, ss.193-196, 2015 (SCI İndekslerine Giren Dergi)
- XVI. **Diffraction-limited, 10-W, 5-ns, 100-kHz, all-fiber laser at 1.55 mu m**
Pavlov I., Dulgergil E., Ilbey E., Ilday F. O.
OPTICS LETTERS, cilt.39, sa.9, ss.2695-2698, 2014 (SCI İndekslerine Giren Dergi)
- XVII. **Nonlinear laser lithography for indefinitely large-area nanostructuring with femtosecond pulses**
Oktem B., Pavlov I., Ilday S., Kalaycioglu H., Rybak A., Yavas S., Erdogan M., İLDAY F. Ö.
NATURE PHOTONICS, cilt.7, sa.11, ss.897-901, 2013 (SCI İndekslerine Giren Dergi)
- XVIII. **High-power high-repetition-rate single-mode Er-Yb-doped fiber laser system**
Pavlov I., Ilbey E., Dulgergil E., Bayri A., İLDAY F. Ö.
OPTICS EXPRESS, cilt.20, sa.9, 2012 (SCI İndekslerine Giren Dergi)
- XIX. **Femtosecond filamentation in chalcogenide glasses limited by two-photon absorption**
Blonskiy I., Kadan V., Shpotyuk O., Iovu M., Pavlov I.
OPTICAL MATERIALS, cilt.32, sa.11, ss.1553-1557, 2010 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

I. ULTRASHORT LIGHT PULSES IN TRANSPARENT SOLIDS: PROPAGATION PECULIARITIES AND PRACTICAL APPLICATIONS

Blonskiy I., Kadan V. M. , Pavlova S., Pavlov I., Shpotyuk O., Khasanov O. K.
UKRAINIAN JOURNAL OF PHYSICS, cilt.64, sa.6, ss.457-463, 2019 (ESCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Laser Induced Periodic Surface Structured c-Si Solar Cell with more than 16% efficiency**
GOODARZİ A., Candemir O., Nasser H., Borra M. Z. , Genc E., ÇİFTPINAR E. H. , BEK A., TURAN R., PAVLOV I.
2021 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference, CLEO/Europe-EQEC 2021, Munich, Almanya, 21 - 25 Haziran 2021, cilt.2021-January
- II. **Laser induced periodic surface structured c-Si solar cell with more than 16% efficiency**
GOODARZİ A., Candemir O., Nasser H., Borra M. Z. , Genc E., ÇİFTPINAR E. H. , BEK A., TURAN R., PAVLOV I.
2021 European Conference on Lasers and Electro-Optics, CLEO/Europe 2021, Virtual, Online, Almanya, 21 - 25 Haziran 2021
- III. **The behaviour of neuro-2A cells on silicon substrates with various topographies generated by femtosecond laser micromachining**

Mingu S., PAVLOV I., SON Ç. D. , BEK A.

7th International Conference on Bioimaging, BIOIMAGING 2020 - Part of 13th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2020, Valletta, Malta, 24 - 26 Şubat 2020, ss.192-199

IV. Laser-induced periodic nano-patterning of solar cell surfaces for low-cost and low material loss fabrication of light management interfaces

PAVLOV I., Çolakoğlu T., genç e., abak m. k. , Nasser H., TURAN R., BEK A.

2019 Annual Nanotechnology Conference, 11 - 13 Eylül 2019

V. Evaluation of Cell Response to Femtosecond-Laser Induced Substrate Topography

Mingu S., İDİKUT F., PAVLOV I., SON Ç. D. , BEK A.

21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Türkiye, 06 Eylül 2019

VI. Liquid crystal alignment on the patterns produced by nonlinear laser lithography

PAVLOV I., Rybak A., Dobrovolskiy A., Kazantseva Z., BEK A., Candemir O., Gvozдовskyy I.

2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference,

CLEO/Europe-EQEC 2019, Munich, Almanya, 23 - 27 Haziran 2019

VII. Optical Waveguides Written Deep Inside Silicon by Femtosecond Laser

Pavlov I., TOKEL O., Pavlova S., Kadan V., Makey G., Turnali A., Colakoglu T., Yavuz O., İLDAY F. Ö.

Conference on Lasers and Electro-Optics Europe / European Quantum Electronics Conference (CLEO/Europe-EQEC), Munich, Almanya, 25 - 29 Haziran 2017

VIII. Laser-slicing of silicon with 3D nonlinear laser lithography

TOKEL O., Turnali A., Colakoglu T., Ilday S., Borra M. Z. , Pavlov I., BEK A., TURAN R., İLDAY F. Ö.

Conference on Lasers and Electro-Optics Europe / European Quantum Electronics Conference (CLEO/Europe-EQEC), Munich, Almanya, 25 - 29 Haziran 2017

IX. Nonlinear Laser Lithography for Photonic Texturing of Si Solar Cells

pavlov i., çolakoğlu t., es f., BEK A., TURAN R., GNİLİTSKY İ., İLDAY Ö.

cleo europe 2015, Munich, Almanya, 21 - 25 Haziran 2015

Atıflar

Toplam Atıf Sayısı (WOS):455

h-indeksi (WOS):10