

1. 2nd International Conference on Laser, Optics and Optoelectronic Technology, LOPET 2022

Accession number: 20224613118855

Source title: Proceedings of SPIE - The International Society for Optical Engineering

Abbreviated source title: Proc SPIE Int Soc Opt Eng

Volume: 12343

Part number: 1 of 1

Issue title: 2nd International Conference on Laser, Optics and Optoelectronic Technology, LOPET 2022

Issue date: 2022

Publication year: 2022

Language: English

ISSN: 0277786X

E-ISSN: 1996756X

CODEN: PSISDG

ISBN-13: 9781510657588

Document type: Conference proceeding (CP)

Conference name: 2nd International Conference on Laser, Optics and Optoelectronic Technology, LOPET 2022

Conference date: May 20, 2022 - May 22, 2022

Conference location: Qingdao, China

Conference code: 183644

Sponsor: Academic Exchange Information Center (AEIC)

Publisher: SPIE

Abstract: The proceedings contain 117 papers. The topics discussed include: continuous wave modulated pulse generator control using improved sliding mode reaching law; research on electromagnetic pump power supply using compound control; research on comprehensive performance evaluation method for on-site operation of electricity information acquisition terminal; mixed degree cubature Kalman filter for nonlinear system; preparation of silicon/carbon hybrid anodes for high performance lithium-ion batteries; research on design of leakage current monitoring of arrester; studies on optical calibration of real-time fluorescent quantitative polymerase chain reaction (RTFQ-PCR) analyzer; bagging effect of thin aluminum plate under laser irradiation; improve the radiation resistance of erbium-doped fiber with bismuth ions co-dopant; and development of reference light source for micro-plate chemiluminescence analyzers.

Abstract type: (Edited Abstract)

Page count: 773

Database: Compendex

Data Provider: Engineering Village

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