

1. Record Nr.	UNINA9910299668903321
Autore	Melnikov S.P
Titolo	Lasers with Nuclear Pumping / / by S.P. Melnikov, A.A. Sinyanskii, A.N. Sizov, George H. Miley
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-08882-3
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (472 p.)
Disciplina	530.44 539 620 620.11295 620.11297 621.36 621.48
Soggetti	Nuclear energy Atoms Physics Plasma (Ionized gases) Lasers Photonics Optical materials Electronics - Materials Nuclear Energy Atoms and Molecules in Strong Fields, Laser Matter Interaction Plasma Physics Optics, Lasers, Photonics, Optical Devices Optical and Electronic Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	General Issues -- Organization of Experiments On Pulsed Reactors to Seek and Study Nuclear-pumped Lasers -- Investigations of Reactor-

pumped Gas NPLs -- Basic Parameters of Nuclear-excited Plasma -- Lasing Mechanisms and Kinetic Models of NPLs -- Nuclear-pumped Laser Devices Based on Gas Media -- Energy Deposition in Gas NPL Active Media -- Optical Inhomogeneities in Sealed NPLs -- Specific Features of NPLs with a Flowing Gas Medium -- Design Concepts for Stationary Reactor Lasers -- Studies of Condensed-media NPLs -- Gas Lasers Excited by Radiation from Nuclear Explosions -- Comments About Nuclear-Pumped Laser Research in the United States.

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## Sommario/riassunto

This book covers the history of lasers with nuclear pumping (Nuclear Pumped Lasers, NPLs). This book showcases the most important results and stages of NPL development in The Russian Federal Nuclear Center (VNIIEF) as well as other Russian and international laboratories, including laboratories in the United States. The basic science and technology behind NPLs along with potential applications are covered throughout the book. As such, this book: · Contains a historical overview of the extensive information developed over the past 40 years of work on NPLs · Covers the most important results and stages of NPL development, not just in the Russian Federal Nuclear Center, VNIIEF, but also in other laboratories in Russia, the United States, and some other scattered international laboratories · Systematizes the fragmented information accumulated over these years of very active research and development As the first comprehensive discussion of NPLs, students, researchers, and application engineers interested in high energy lasers will find this book an extremely valuable source of information about these unique lasers.

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2. Record Nr.	UNINA9910427695203321
Titolo	Information and Communications Security : 22nd International Conference, ICICS 2020, Copenhagen, Denmark, August 24–26, 2020, Proceedings / / edited by Weizhi Meng, Dieter Gollmann, Christian D. Jensen, Jianying Zhou
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-61078-0
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVI, 608 p. 51 illus.)
Collana	Security and Cryptology, , 2946-1863 ; ; 12282
Disciplina	005.8
Soggetti	Data structures (Computer science) Information theory Computer networks Cryptography Data encryption (Computer science) Data protection Computers - Law and legislation Information technology - Law and legislation Data Structures and Information Theory Computer Communication Networks Cryptology Data and Information Security Legal Aspects of Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Security I -- Crypto I -- Crypto II -- Security II -- Crypto III -- Crypto IV -- Security III -- Crypto V -- Crypto VI. .
Sommario/riassunto	This book constitutes the refereed proceedings of the 22nd International Conference on Information and Communications Security, ICICS 2020, held in Copenhagen, Denmark*, in August 2020. The 33 revised full papers were carefully selected from 139 submissions. The papers focus in topics about computer and communication security,

and are organized in topics of security and cryptography. \*The conference was held virtually due to the COVID-19 pandemic.

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