

Institute of high current electronics SB RAS  
Tomsk scientific center SB RAS  
National research Tomsk polytechnic university

**9<sup>th</sup> International Congress  
on Energy Fluxes and Radiation Effects  
(EFRE-2024)**

*Abstracts*

September 16–21, 2024  
Tomsk, Russia

Tomsk 2024

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## Conferences

23<sup>rd</sup> International Symposium on High-Current Electronics

17<sup>th</sup> International Conference on Modification of Materials with Particle Beams and Plasma Flows

21<sup>st</sup> International Conference on Radiation Physics and Chemistry of Condensed Matter

6<sup>th</sup> International Conference on New Materials and High Technologies

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9th International Congress on Energy Fluxes and Radiation Effects (EFRE-2024): Abstracts. — Tomsk : Academizdat Publishing, 2024. — 684 p.

This book comprises the abstracts for the oral and poster sessions of IX International Congress on Energy Fluxes and Radiation Effects (EFRE-2024). The Congress will combine four International Conferences regularly hosted in Tomsk: XXIII International Symposium on High-Current Electronics, XVII International Conference on Modification of Materials with Particle Beams and Plasma Flows, XXI International Conference on Radiation Physics and Chemistry of Condensed Matter, and VI International Conference on New Materials and High Technologies. This year the event's program is even more intense: more than 700 participants have registered and more than 600 abstracts have been received. It will be a good platform for researchers to discuss a wide range of scientific, engineering, and technical problems in the fields of pulsed power technologies; ion and electron beams; high power microwaves; plasma sources; modification of material properties; pulsed power applications in chemistry, biology, and medicine; physical and chemical nonlinear processes excited in inorganic dielectrics; physical principles of radiation-related and additive technologies; self-propagating high-temperature synthesis; synchrotron and neutron research, etc.

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ISBN 978-5-6052421-8-5

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### **17<sup>th</sup> International Conference on Modification of Materials with Particle Beams and Plasma Flows**

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Scientific Edition

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Abstracts

**Published in author's version**

Typesetting ShklyaeV Valery



«Академиздат»



Academizdat Publishing  
Novosibirsk  
2024