

NUCLEAR TECHNOLOGY & RADIATION PROTECTION

an international
scientific journal

UDC 621.039+614.876:504.06
ISSN 1451-3994

Previous Editors

Naim Afgan	(1981-1989)
Milena Mataušek	(1995-2000)

Editor-in-Chief

Rodoljub D. Simović	Vinča Institute of Nuclear Sciences, Belgrade, Serbia
---------------------	---

Editorial Board

Olivera F. Ciraj-Bjelac	Vinča Institute of Nuclear Sciences, Belgrade, Serbia
Barry D. Ganapol	University of Arizona, Tucson, Ariz., USA
Vladan L. Ljubenov	International Atomic Energy Agency, Vienna, Austria
Miodrag J. Milošević	Public Company Nuclear Facilities of Serbia, Belgrade, Serbia
Domiziano Mostacci	University of Bologna, Bologna, Italy
Marija Z. Šljivić-Ivanović	Vinča Institute of Nuclear Sciences, Belgrade, Serbia
Yury A. Teterin	Russian Research Centre Kurchatov Institute, Moscow, Russia

Advisory Editorial Board

Vojislav M. Antić	University Clinical Center of Serbia, Belgrade, Serbia
Francesco D'Auria	University of Pisa 2, Pisa, Italy
Senada Avdić	University of Tuzla, Tuzla, Bosnia and Herzegovina
Mohamed S. Badawi	Alexandria University, Alexandria, Egypt
Patrick Blaise	CEA/Saclay, Gif-sur-Yvette, France
Tome Bosevski	Macedonian Academy of Sciences and Arts, Skopje, North Macedonia
Peter Bossew	Federal Office for Radiation Protection, Berlin, Germany
Dragan V. Brajović	University of Kragujevac, Kragujevac, Serbia
Vujo Drndarević	University of Belgrade, Belgrade, Serbia
Dario Z. Faj	Josip Juraj Strossmayer University Osijek, Osijek, Croatia
Janos Gado	KFKI Atomic Energy Research Institute, Budapest, Hungary
Ehud Greenspan	University of California, Berkeley, USA
Masood Iqbal	PINSTECH, Islamabad, Pakistan
Tatjana Jevremović	University of Utah, Salt Lake City, USA
Gordana Joksić	Vinča Institute of Nuclear Sciences, Belgrade, Serbia
Myung-Hyun Kim	Kyung Hee University, Yongin-si, Korea
Stathis Kossionides	NCSR Demokritos, Aghia Paraskevi, Greece
James McLaughlin	University College Dublin, Dublin, Ireland
Miodrag Mesarović	Energoprojekt Entel, Belgrade, Serbia
Georghe Negut	National Agency for Radioactive Waste, Mioveni, Romania
Nebojša B. Nešković	Vinča Institute of Nuclear Sciences, Belgrade, Serbia
Dragoslav R. Nikezić	University of Kragujevac, Kragujevac, Serbia
Predrag V. Osmokrović	University of Belgrade, Belgrade, Serbia
Vladimir M. Pavlovych	Kyiv Institute for Nuclear Research, Kyiv, Ukraine
Imre Pazsit	Chalmers University of Technology, Göteborg, Sweden
Jordan Stamenov	Bulgarian Academy of Sciences, Sofia, Bulgaria
Djordje Tomašević	NECSA, Pretoria, South Africa
Ivana S. Vukanac	Vinča Institute of Nuclear Sciences, Belgrade, Serbia
Peter K. N. Yu	City University of Hong Kong, Kowloon, Hong Kong
Dejan Žontar	Jozef Stefan Institute, Ljubljana, Slovenia

The journal Nuclear Technology & Radiation Protection is published four times a year on March, June, September, and December by the Vinča Institute of Nuclear Sciences, P. O. Box 522, 11001 Belgrade, Serbia.

The editing of the journal is supported by the Ministry of Education, Science and Technological Development of the Republic of Serbia and by the Public Company Nuclear Facilities of Serbia.

All correspondence should be addressed to: Rodoljub SIMOVIĆ, Editor-in-Chief, Nuclear Technology & Radiation Protection, Vinča Institute of Nuclear Sciences • Address: P. O. Box 522, 11001 Belgrade, Serbia • Phone: (381-11)340-87-18 • Fax: (381-11) 244-74-57 • E-mail: simovicr@vinca.rs

Technical editor: Vladan Živković • Proof readers: Jelena Salai, Suzana Bogojević, and Isidora Bačić • Computer work: Sanja Denčić • Cover design: Milijana Steljić • Front cover painting: Stojan Čelić, Earth (1981, detail)

Printed by: ApolloPlus d.o.o., Cvjićeva 22/1, 11000 Belgrade, Serbia

Circulation: 200 copies

Founder
Nuclear Society of Serbia

Co-Founder
Radiation Protection Society of
Serbia and Montenegro

Publisher
Vinča Institute of Nuclear Sciences