

NUCLEAR TECHNOLOGY & RADIATION PROTECTION

an international
scientific journal

UDC 621.039+614.876:504.06
ISSN 1451-3994

Founder
Nuclear Society of Serbia

Co-Founder
Radiation Protection Society of
Serbia and Montenegro

Publisher
Vinča Institute of Nuclear Sciences

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

Mohamed S. Badawi	Alexandria University, Alexandria, Egypt
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
Shahid Bashir	University Malaya, Kuala Lumpur, Malaysia
Patrick Blaise	CEA/Saclay, Gif-sur-Yvette, France
Pavel Bokov	NECSA, Pretoria, South Africa
Peter Bossew	Federal Office for Radiation Protection, Berlin, Germany
Dragan V. Brajović	University of Kragujevac, Kragujevac, Serbia
Igor T. Čeliković	Vinča Institute of Nuclear Sciences, Belgrade, 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
Jiri Janda	University of Defence, Vyskov, Czech Republic
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
Gheorghe 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
Itzhak Orion	Ben-Gurion University of the Negev, Beer-Sheva, Israel
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
Vishwanath P. Singh	Karnatak University, Dharwad, India
Rares Suvaila	National Institute GeoEcoMar, Bucharest, Romania
Abouzeid A. Thabet	Pharos University, Alexandria, Egypt
Djordje Tomašević	NECSA, Pretoria, South Africa
Hoai-Nam Tran	Phenikaa University, Hanoi, Vietnam
Ivana S. Vukanac	Vinča Institute of Nuclear Sciences, Belgrade, Serbia
Peter K. N. Yu	City University of Hong Kong, Hong Kong, China
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 Science, Technological Development, and Innovation 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, Milioš D. Djurić, 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., Cvijičeva 22/1, 11000 Belgrade, Serbia

Circulation: 200 copies