

Index of Volume 55 (1991)

Number 1

M. L. Firouzbakht, D. J. Schlyer, A. P. Wolf	Cross-Section Measurements for the $^{13}\text{C}(\text{p},\text{n})^{13}\text{N}$ and $^{12}\text{C}(\text{d},\text{n})^{13}\text{N}$ Nuclear Reactions	1
G. V. Ionova, A. A. Kiseleva	A Study of the Electron Structure of the Hepta-Valent Neptunium Cation Forms	7
R. E. Meyer, W. D. Arnold, F. I. Case, G. D. O'Kelley	Solubilities of Tc(IV) Oxides	11
R. E. Meyer, W. D. Arnold	The Electrode Potential of the Tc(IV)-Tc(VII) Couple	19
M. A. El-Absy	Separation of Fission ^{99}Mo on Charcoal Columns Impregnated with Tin(IV) Chloride for Use in Preparation of $^{99\text{m}}\text{Tc}$ Generators	23
A. Palamalai, S. K. Rajan, A. Chinnusamy, M. Sampath, P. K. Varghese, T. N. Ravi, V. R. Raman, G. R. Balasubramanian	Development of an Electro-Oxidative Dissolution Technique for Fast Reactor Carbide Fuels	29
N. Boukis, E. Henrich	Two-Step Procedure for the Iodine Removal from Nuclear Fuel Solutions	37
M. E. Kitto, S. H. Faller, D. L. Anderson, L. E. McCarthy	Airborne Chernobyl Radioactivity in College Park, Maryland	43
H. Hayakawa	Time Series Analysis of Short-lived Radon Daughter Aerosol Activity at Four Different Sites	47
M. Okada, H. Imaizumi, Y. Goto	Comparison of Monohydrogenphosphates in Reactivity Observed with Hydrogen-Isotope Exchange in a Liquid-Solid System	51
P. Chandrasekhar Reddy, B. Rangamannar	Utilization of Potassium Ethyl Xanthate as a Substoichiometric Radiochemical Reagent for the Determination of Mercury	55

Number 2

U. Hickmann, N. Greulich, N. Trautmann, G. Herrmann	Chemical Reactions in a Gas-Jet Recoil-Transport System (III): Rapid Separation of Arsenic from Fission Products	57
E. H. Appelman, H. Diamond, E. P. Horwitz, J. C. Sullivan	Cesium Fluoroxysulfate, CsSO_4F : A Novel Reagent for the Rapid Oxidation of Americium at Ambient Temperature and its Separation from Curium	61

T. Sekine, K. Yoshihara	Parent Type Chemical Species Formed by Recoil Implantation Reaction in Tris(β -diketonato)metal(III)	65
T. Sekine, I. Kaneko, K. Yoshihara	Comparison of Implantation Reactions with Hot Atom Reactions in Geometrical and Optical Isomers of Metal β -Diketonates	71
A. H. Kukoč, M. M. Marković, I. V. Aničin, P. R. Adžić	Natural Radioactive Impurities in Lanthanum Compounds as a Calibration Source for Gamma Spectrometry of Voluminous Samples	79
L. R. Van Loon, Z. Kopajtic	The Adsorption of Radionuclides on Bitumen. Part I: Strontium	83
L. R. Van Loon, Z. Kopajtic	The Adsorption of Radionuclides on Bitumen. Part II: Nickel	91
F. M. Mekhail, K. Benyamin	Sorption of Cesium on Zinc Hexacyanoferrate(II), Zinc Hexacyanoferrate(III) and Hexacyanocobaltate(III)	95
M. A. Kim, F. Baumgärtner, C. Schulz	Accurate Determination of Tritium in Biosystems	101
C. Olivier, H. J. Morland	Stopping Power Corrections Using Non-analyte Spiking	107
<i>Short Communication</i>		
C. I. Wynter, F. R. Oliver, D. Hill, J. J. Spijkerman, Y. P. Boyd-Bartlett	Mössbauer Effect of ^{151}Eu in Europium Chelates	111

Number 3

S. R. Sarkar, M. Soto, Y. Kubota, M. Yoshida, T. Fukasawa, K. Matsumoto, K. Kawaguchi, K. Sakamoto, S. Shibata, M. Furukawa, I. Fujiwara	Photospallation of Complex Nuclei at Intermediate Energies. I	113
S. R. Sarkar, Y. Kubota, T. Fukasawa, K. Kawaguchi, K. Sakamoto, S. Shibata, I. Fujiwara	Photospallation of Complex Nuclei at Intermediate Energies. II	139
A. K. Gupta, R. J. Hanrahan	A Critique of Gas Phase Propane Radiolysis Based on Kinetic Modeling	155
M. Yamamoto, H. Kawamura, Y. Igarashi, K. Shiraishi, K. Ueno	Measurement of Low-Level ^{226}Ra in Human Bone by Using ^{225}Ra Tracer and Alpha-Spectrometry: Approach without Use of Ba Carrier	163
P. Chandrasekhar Reddy, B. Polaiah, B. Rangamannar	Triphenyl Phosphine Oxide as a Substoichiometric Radiochemical Reagent: Determination of Thallium	167

Number 4

S. S. Rattan, A. Ramaswami, R. J. Singh, S. Prakash	Alpha Particle Induced Fission of ^{209}Bi at 55.7 and 58.6 MeV	169
B. S. Tomar, A. Goswami, A. V. R. Reddy, S. K. Das, S. B. Manohar, S. Prakash	Independent Isomeric Yield Ratios of ^{132}Sb in $^{241}\text{Pu}(n_{\text{th}},f)$ and $^{238}\text{U}(\alpha,f)$	173
A. R. Felmy, D. Rai, M. J. Mason	The Solubility of Hydrous Thorium(IV) Oxide in Chloride Media: Development of an Aqueous Ion-Interaction Model	177
J. I. Kim, T. Sekine	Complexation of Neptunium(V) with Humic Acid	187
P. K. Mohapatra, V. K. Manchanda	Complexation of Americium(III) with Crown Ethers in Aqueous Phase	193
H. Müller, P. Obergfell	Chemical Effects of Nuclear Transformations in Mixed Crystals. 11. Chemical Effects of the $^{81}\text{Br}(n,\gamma)^{82}\text{Br}$ Nuclear Reaction in $\text{K}_2\text{OsBr}_6\text{-K}_2\text{OsCl}_6$ Mixed Crystals — Influence of Irradiation Conditions	199
K. A. Orlandini, J. S. Gaffney, N. A. Marley	An Improved Technique for the Rapid Assay of Radium Isotopes in Water	205
M. I. Pratopo, T. Yamaguchi, H. Moriyama, K. Higashi	Adsorption of Np(IV) on Quartz in Carbonate Solutions	209
H. Imaizumi, J. Sugawara, M. Okada	Comparison of Monosubstituted Phenols in Reactivity by Applying Hydrogen-Isotope Exchange Reaction	215
N. Rajesh, M. S. Subramanian	Determination of Indium in Fluedust and Zinc Ore	219
	Author Index of Volume 55	223

