

ПВ
780/рп

VOLUME 299 • NUMBER 3 • MARCH

2 0 1 4

FOUNDED IN 1968

Journal of
RADIOANALYTICAL and
NUCLEAR CHEMISTRY

*An international journal dealing with all aspects
and applications of nuclear chemistry*



AKADÉMIAI KIADÓ

 Springer

WWW.AKADEMIAI.COM

Journal of Radioanalytical and Nuclear Chemistry

An International Journal Dealing with All Aspects and Applications of Nuclear Chemistry

Volume 299 · Number 3 · March 2014

Removal, recovery and enrichment of metals from aqueous solutions using carbon nanotubes

J.-G. Yu · X.-H. Zhao · L.-Y. Yu · F.-P. Jiao · J.-H. Jiang · X.-Q. Chen 1155

Structural characterization of ammonium molybdophosphate with different amount of cesium adsorption

T. Zhaoyi · H. Zhaoya · Z. Dong · W. Xiaolin 1165

Determination of isotopic ratios of uranium samples using passive gamma spectroscopy with multiple detectors

S. Horne · S. Landsberger · B. Dickson 1171

Studies on temporal change in depth profiles of the Rn concentrations in natural water columns

N. Yamada · M. Uesugi · A. Yokoyama · T. Nakanishi 1177

Removal of uranium(VI) and thorium(IV) ions from aqueous solutions by functionalized silica: kinetic and thermodynamic studies

D. Humelnicu · C. Blegescu · D. Ganju 1183

Liquid-liquid extraction of thorium(IV) by fatty acids: a comparative study

M.A. Didi · D. Villemin · O. Abderrahim · A. Azzouz 1191

Transport of U(VI) from sulphuric acid medium across supported liquid membrane (SLM) containing di-(2-ethylhexyl) phosphoric acid (D2EHPA)/*n*-dodecane as a carrier

S. Biswas · V.H. Rupawate · K.N. Hareendran · S.B. Roy 1199

Synthesis of radioactive gold nanoparticle in surfactant medium

S. Mandal 1209

Synthesis of task-specific ionic liquids with grafted diglycolamide moiety. Complexation and stripping of lanthanides

W. Yun · Z. Youwen · F. Fuyou · L. Huimin · H. Peizhuo · S. Yinglin 1213

Monte Carlo simulation of PGNAA system for determining element content in the rock sample

Z. Feng · L. Jun-tao 1219

Separation of no-carrier-added $^{99m}\text{TcO}_4^-$ from ^{99}Mo - ^{99m}Tc equilibrium mixture by PEG based aqueous biphasic separation technique using sodium/potassium salts of citric and tartaric acid

S. Mandal · A. Mandal 1225

Extraction of gadolinium from El-Garra El-Hamra rare-earth cake, South Western Desert, Egypt

H.M. Kamal · K.F. Mahmoud · M.R. Shehata · H.A. Mohamed 1231

Study on the time-dependent simulation and input parameter sensitivity of spent nuclear fuel electrorefining

Y.P. Sitompul · H.-S. Shin · S.H. Park · H.D. Kim 1241

In vitro incorporation studies of ^{99m}Tc -alendronate sodium at different bone cell lines

E. Gundogdu · D. Ilem-Ozdemir · M. Asikoglu 1255

Hexanoic acid as an alternative diluent in a GANEX process: feasibility study

E. Löfström-Engdahl · E. Aneheim · C. Ekberg · H. Elfverson · M. Foreman · G. Skarnemark 1261

Uranium concentration in blood samples of Southern Iraqi leukemia patients using CR-39 track detector

A.A. Al-Hamzawi · M.S. Jaafar · N.F. Tawfiq 1267

Design and preliminary assessment of ^{99m}Tc -labeled ultrasmall superparamagnetic iron oxide-conjugated bevacizumab for single photon emission computed tomography/magnetic resonance imaging of hepatocellular carcinoma

Y. Zhao · Q. Yao · H. Tan · B. Wu · P. Hu · P. Wu · Y. Gu · C. Zhang · D. Cheng · H. Shi 1273

The effect of environmental factors on the uptake of ^{60}Co by *Paecilomyces catenulannulatus*

F. Li · Z. Gao · X. Li · L. Fang 1281

- Trace element determination in high-purity aluminum clad samples by k_0 -based internal monostandard instrumental neutron activation analysis**
A.D. Shinde · R. Acharya · A.V.R. Reddy 1287
- UO₂, NpO₂ and PuO₂ preparation in aqueous nitrate solutions in the presence of hydrazine hydrate**
Y.M. Kulyako · S.A. Perevalov · T.I. Trofimov · D.A. Malikov · S.E. Vinokurov · M.D. Samsonov · B.F. Myasoedov · A.M. Fedoseev · A.A. Bessonov · A.Y. Shadrin 1293
- A chelating resin containing trihydroxybenzoic acid as the functional group: synthesis and adsorption behavior for Th(IV) and U(VI) ions**
S.A. Sadeek · M.A. El-Sayed · M.M. Amine · M.O. Abd El-Magied 1299
- Radon (²²²Rn) in underground drinking water supplies of the Southern Greater Poland Region**
H. Bem · U. Plota · M. Staniszevska · E.M. Bem · D. Mazurek 1307
- Concentrations of ¹³⁷Cs and ⁴⁰K radionuclides and some heavy metals in soil samples from the eastern part of the Main Ridge of the Flysch Carpathians**
B. Kubica · K. Szarłowicz · M. Stobinski · S. Skiba · W. Reczynski · J. Gołas 1313
- ¹³⁷Cs and ²¹⁰Pb radionuclides in open and closed water ecosystems**
K. Szarłowicz · B. Kubica 1321
- An improved PUREX process in technetium separation by stepwise reduction**
F. Liu · Y. Sun · H. Wang · W. Zheng 1329
- Independent isomeric-yield ratio of ^{89m,g}Nb from ⁹³Nb(γ , 4n), ^{nat}Zr(p, xn), and ⁸⁹Y(α , 4n) reactions**
H. Naik · A. Goswami · G. Kim · K. Kim · S.-C. Yang · M. Sahid · M. Zaman · M. Lee · S.-G. Shin · M.-H. Cho 1335
- Evaluation of efficiency for in situ gamma spectrometer based upon cerium-doped lanthanum bromide detector dedicated for environmental radiation monitoring**
K. Ciupek · S. Jednoróg · M. Fajak · K. Szewczak 1345
- An investigation on the subcellular distribution and compartmentalization of uranium in *Phaseolus vulgaris* L.**
X. Nie · F. Dong · N. Liu · M. Liu · W. Zhang · S. Sun · J. Yang 1351
- Estimation of the committed radiation dose resulting from gamma radionuclides ingested with food**
P. Godyń · A. Dolhańczuk-Śródka · Z. Ziembik · E. Moliszewska 1359
- Variability of ⁴⁰K isotopic composition in forest soils under different environmental conditions**
R. Fujiyoshi · N. Takekoshi · K. Okamoto 1365
- Studies on enzymatic oxidation of 3',4'-dihydroxy-L-phenylalanine to dopachrome using kinetic isotope effect methods**
W. Byszewska · M. Kańska 1373
- Plutonium, ⁹⁰Sr and ²⁴¹Am in human bones from southern and northeastern parts of Poland**
K. Brudecki · J.W. Mietelski · R. Anczkiewicz · E.B. Golec · E. Tomankiewicz · K. Kuźma · P. Zagrodzki · J. Golec · S. Nowak · E. Szczygieł · Z. Dudkiewicz 1379
- Preparation of DOTA-TATE and DOTA-NOC freeze-dried kits for formulation of patient doses of ¹⁷⁷Lu-labeled agents and their comparison for peptide receptor radionuclide therapy application**
T. Das · M. Bhadwal · S. Banerjee · H.D. Sarma · A. Shinto · K.K. Kamaleshwaran 1389
- Assessment of the main natural radionuclides, minor and trace elements in soils and sediments of the Shu valley (near the border of Kazakhstan and Kyrgyzstan)**
I. Matveyeva · R. Jaćimović · P. Planinšek · P. Stegnar · B. Smodiš · M. Burkitbayev 1399
- Mycoremediation: the study of transfer factor for plutonium and americium uptake from the ground**
D. Galanda · Ľ. Mátel · J. Strišovská · S. Dulanská 1411
- Effect of pH, foreign ions and temperature on radionickel sorption onto bentonite from Inner Mongolia, China**
W. Jia · S. Lu 1417
- Tritium activity levels in drinking water of Adana, Turkey**
E. Gören · Ş. Turhan · F.A. Uğur · F. Gezer · B. Özdemir · Y. Ufuktepe 1427
- Sorption of americium from low-level liquid wastes by nanocrystalline MnO₂**
K. Bhagyashree · A. Kar · S. Kasar · S. Kumar · R. Shukla · R.K. Mishra · C.P. Kaushik · A.K. Tyagi · B.S. Tomar 1433

- Self-calibration method for cerium-doped lanthanum bromide scintillator detector in the 0.1–2.0 MeV energy range**
Q. Xiang · D. Tian · F. Hao · C. Chu · G. Ding · J. Zeng · F. Luo 1439
- Investigating enhanced thorium ionization in TIMS using Re/Pt porous ion emitters**
F.E. Stanley · K.J. Spencer · D.S. Schwartz · M.G. Watrous · J.E. Delmore 1447
- Distribution of thorium in soils surrounding the rare-earth tailings reservoir in Baotou, China**
R. Li · Q. Li · S. Chen · F. Wu · D. Sun · H. Liao 1453
- Natural radionuclides in Italian diet and their annual intake**
D. Desideri · M.A. Meli · C. Roselli · N. Forini · A. Rongoni · L. Feduzi 1461
- Removal of uranium(VI) from aqueous solutions using nanoporous ZnO prepared with microwave-assisted combustion synthesis**
Ü.H. Kaynar · M. Ayvacıklı · S.Ç. Kaynar · Ü. Hiçsönmez 1469
- Removal of uranium(VI) from aqueous solutions by new phosphorus-containing carbon spheres synthesized via one-step hydrothermal carbonization of glucose in the presence of phosphoric acid**
Z. Zhang · Z. Zhou · X. Cao · Y. Liu · G. Xiong · P. Liang 1479
- Bioaccumulation of gamma emitting radionuclides in *Polysiphonia fucoides***
T. Zalewska 1489
- Moderator for neutron activation with the photoneutrons produced by a LINAC**
H.R. Vega-Carrillo · E. Rivera-Perez 1499
- Radiosynthesis of 10-(2-[¹⁸F]fluoroethoxy)-20(S)-camptothecin as a potential positron emission tomography tracer for the imaging of topoisomerase I in cancers**
Z. Liu · G. Wang · M. Dong · J. Jin · J. Li · Q. Zhang · K. Zhao · S. Yang · X. Lin 1509
- Biosorption of uranium by immobilized cells of *Rhodotorula glutinis***
J. Bai · Z. Li · F. Fan · X. Wu · W. Tian · X. Yin · L. Zhao · F. Fan · L. Tian · Y. Wang · Z. Qin · J. Guo 1517
- In vivo characterization of ^{99m}Tc-spermine in mice bearing human breast cancer xenografts**
Y. Weng · Y. Xu · C. Yu · W. Wan · D. Pan · L. Wang · M. Yang 1525
- Preparation and characterization of crosslinked alginate–CMC beads for controlled release of nitrate salt**
S.M. Ibrahim · F.I. Abou El Fadl · A.A. El-Naggar 1531
- Determination of neptunium in a reprocessing plant by an on-line solid-phase extraction/electrochemical detection system**
S. Taguchi · M. Yamamoto · N. Surugaya 1539
- Selective separation of cesium from simulated high level liquid waste solution using 1,3-dioctyloxy calix[4]arene-benzo-crown-6**
V. Kumar · J.N. Sharma · P.V. Achuthan · R.C. Hubli 1547
- Certification of total arsenic in blood and urine standard reference materials by radiochemical neutron activation analysis and inductively coupled plasma-mass spectrometry**
R.L. Paul · W.C. Davis · L. Yu · K.E. Murphy · W.F. Guthrie · D.D. Leber · C.E. Bryan · T.W. Vetter · G. Shakirova · G. Mitchell · D.J. Kyle · J.M. Jarrett · K.L. Caldwell · R.L. Jones · S. Eckdahl · M. Wermers · M. Maras · C.D. Palmer · M.F. Verostek · C.M. Geraghty · A.J. Steuerwald · P.J. Parsons 1555
- Radioanalytical separation and size-dependent ion exchange property of micelle-directed titanium phosphate nanocomposites**
R. Chakraborty · S. Chatterjee · P. Chattopadhyay 1565
- Application of simplified desorption method to study on sorption of americium(III) on bentonite**
N. Kozai · S. Yamasaki · T. Ohnuki 1571
- Application of simplified desorption method to study on sorption of neptunium(V) on montmorillonite-based mixtures**
N. Kozai · S. Yamasaki · T. Ohnuki 1581
- Surface modification to improve the sorption property of U(VI) on mesoporous silica**
L. Song · Y. Wang · L. Zhu · B. Guo · S. Chen · W. Wu 1589
- Construction of a new solid-state U(VI) ion-selective electrode based on polypyrrole conducting polymer**
R. Ansari · Z. Mosayebzadeh 1597
- Monitoring ⁶⁰Co activity for the characterization of the sorption process of Co²⁺ ions in municipal activated sludge**
V. Frišták · M. Pipiška · M. Valovčiaková · J. Lesný · M. Rozložník 1607

- Neutron activation analysis on sediments from Victoria Land, Antarctica: multi-elemental characterization of potential atmospheric dust sources**
G. Baccolo · C. Baroni · M. Clemenza · B. Delmonte · V. Maggi · A. Motta · M. Nastasi · E. Previtali · M.C. Salvatore 1615
- Interaction of $^3\text{H}^+$ (as HTO) and $^{36}\text{Cl}^-$ (as Na^{36}Cl) with crushed granite and corresponding fracture infill material investigated in column experiments**
K. Štamberg · Š. Palágyi · K. Videnská · V. Havlová 1625
- Radiosynthesis and biodistribution studies of [$^{62}\text{Zn}/^{62}\text{Cu}$]-plerixafor complex as a novel in vivo PET generator for chemokine receptor imaging**
A. Aghanejad · A.R. Jalilian · Y. Fazaeli · D. Beiki · B. Fateh · A. Khalaj 1635
- Radionuclide X-ray fluorescence analysis of selected elements in drug samples with 8-hydroxyquinoline preconcentration**
V. Mikušová · O. Lukačovičová · E. Havránek · P. Mikuš 1645
- Radioactivity in groundwater along the borders of Oman and UAE**
A. Murad · D. Alshamsi · X.L. Hou · F. Al Shidi · R. Al Kendi · A. Aldahan 1653
- Determination of ^{90}Sr in radioactive concentrate from Nuclear Power Plant Mochovce**
V. Drábová · S. Dulanská · D. Galanda · B. Remenec · J. Strišovská 1661
- Anthracyclines as radiosensitizers: a Cu(II) complex of a simpler analogue modifies DNA in Chinese Hamster V79 cells under low-dose γ radiation**
S. Das · P.C. Mandal 1665
- Assessing spatial distribution, sources, and potential ecological risk of heavy metals in surface sediments of the Nansi Lake, Eastern China**
J. Lv · Z. Zhang · S. Li · Y. Liu · Y. Sun · B. Dai 1671
- Sorption of thorium(IV) from aqueous solutions by graphene oxide**
Y. Li · C. Wang · Z. Guo · C. Liu · W. Wu 1683
- Characteristics of an oxa-diamide- HNO_3 extractant in the supercritical fluid extraction of uranium**
J.S. Wang · W. Liao · C.M. Wai · J. Yu · K. Chiu 1693
- Adsorption of strontium ions from aqueous solution using hydrous, amorphous $\text{MnO}_2\text{-ZrO}_2$ composite: a new inorganic ion exchanger**
S.J. Ahmadi · N. Akbari · Z. Shiri-Yekta · M.H. Mashhadizadeh · A. Pourmatin 1701
- Particle-bound ^{10}Be from a low latitude arid region**
A. Aldahan · G. Possnert · A. El Saiy · O. Abdelghany 1709
- Synthesis and labelling of Df-DUPA-Pep with gallium-68 and zirconium-89 as new PSMA ligands**
B. Baur · E. Andreolli · E. Al-Momani · N. Malik · H.-J. Machulla · S.N. Reske · C. Solbach 1715
- Specific energy distribution within cytoplasm and nucleoplasm of a typical mammalian cell due to various beta radionuclides**
V.M. Markovic · N. Stevanovic · D. Nikezic · Dž.F. Pucic · V. Urosevic 1723
- Fabrication and physical properties of lanthanide oxide glass wasteform for the immobilization of lanthanide oxide wastes generated from pyrochemical process**
J.-H. Choi · I.-H. Cho · H.-C. Eun · H.-S. Park · Y.-Z. Cho · K.-R. Lee · G.-I. Park · S.-H. Kim · C.-H. Shin · J.-K. Kim 1731
- Measurement of photo-neutron cross-sections of ^{89}Y with bremsstrahlung energies of 45 and 55 MeV**
M. Zaman · G. Kim · H. Naik · K. Kim · S.-G. Shin · M. Tatari · M.-H. Cho 1739
- Thermodynamic analysis of radioactive graphite reprocessing by incineration in air and oxidation in molten salt**
N.M. Barbin · D.I. Terentiev · S.G. Alexeev · T.M. Barbina 1747
- Preparation, molecular modeling and biodistribution of $^{99\text{m}}\text{Tc}$ -phytochlorin complex**
M.A. Motaleb · M.Y. Nassar 1759
- Insights into sorption species of Eu(III) on $\gamma\text{-Al}_2\text{O}_3$ and bentonite under different pH: Studies at macro- and micro-scales**
Q. Fan · P. Li · Z. Zheng · W. Wu · C. Liu 1767
- Evaluation of INAA-anticoincidence counting for measuring nanogram levels of vanadium in relatively high-salt nutritional reference materials**
W. Zhang · A. Chatt 1777
- Gamma radiation effects on molecular characteristic of vegetable tannins**
F.G. Velasco · F.H.M. Luzardo · F. Guzman · O. Rodriguez · I. Coto Hernandez · S. Barroso · O. Diaz Rizo 1787
- Terrestrial gamma dose rate in Pahang state Malaysia**
H.T. Gabdo · A.T. Ramli · M.S. Sanusi · M.A. Saleh · N.N. Garba 1793

- Determination of alpha, beta, X-ray and gamma emitting radionuclides in reactor components and fuel assemblies from NPP V1 Jaslovske Bohunice**
B. Remenec · S. Dulanská · Ľ. Máteľ 1799
- Improving the radiochemical purity determination of ^{123}I -labeled metaiodobenzylguanidine**
L. Carvalheira · P.B. Dutra · P.F. de Aguiar 1805
- Feasibility of tetracycline, a common antibiotic, as chelating agent for spectrophotometric determination of UO_2^{2+} after cloud point extraction**
E. Bağda · E. Yabaş · N. Karakuş 1813
- Synthesis and characterization of a new surface modified Amberlite-7HP resin by nano-iron oxide (Fe_3O_4) and its application for uranyl ions separation**
O.A. Elhefnawy · W.I. Zidan · M.M. Abo-Aly · E.M. Bakier · G.A. Elsayed 1821
- Radiological chronometry of uranium metal samples**
L.A. Meyers · S.E. Glover · S.P. LaMont · A.M. Stalcup · H.B. Spitz 1833
- Reporting gamma-ray spectrometric measurement results near the natural limit: primary measurement results, best estimates calculated with the Bayesian posterior and best estimates calculated with the probability density distribution resembling shifting**
M. Korun · B. Vodenik · B. Zorko 1839
- Vacuum thermochromatography: diffusion approximation, evaluation of desorption energy**
I. Zvára 1847
- Preparation of $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$ generator based on alumina ^{99}Mo -molybdate (VI) gel**
M.A. El-Absy · M.A. El-Amir · T.W. Fasih · H.E. Ramadan · M.F. El-Shahat 1859
- Radiosynthesis and evaluation of ^{188}Re -c(RGDyK)-His as a novel radiotherapeutic agent for integrin $\alpha_v\beta_3$ targeting tumour**
Y. Ma · S. Liang · H. Wu · H. Wang 1865
- Determination of uranium metal concentration in irradiated fuel storage basin sludge using selective dissolution**
C.H. Delegard · S.I. Sinkov · J.W. Chenault · A.J. Schmidt · T.L. Welsh · K.N. Pool 1871
- Accurate technetium-99 determination using the combination of TEVA resin pretreatment and ICP-MS measurement and its influence on the Tc-99/Cs-137 scaling factor calculation**
L.-S. Chen · T.-H. Wang · Y.-K. Hsieh · L.-W. Jian · W.-H. Chen · T.-L. Tsai · C.-F. Wang 1883
- Rapid determination of actinides in asphalt samples**
S.L. Maxwell · B.K. Culligan · J.B. Hutchison 1891
- U(VI) ion adsorption thermodynamics and kinetics from aqueous solution onto raw sodium feldspar and acid-activated sodium feldspar**
D. Ding · P. Fu · L. Li · X. Xin · N. Hu · G. Li 1903
- A label-free electrochemical biosensor for trace uranium based on DNazymes and gold nanoparticles**
D. Ma · Y. Yuan · X. Xiao · Y. Gao · Y. Li · W. Xu · W. Long 1911
- Study of neutron fluence rate fluctuation factor in nuclear reaction cross section measurement**
J. Luo 1921
- Kinetic investigation for sorption of europium and samarium from aqueous solution using resorcinol-formaldehyde polymeric resin**
M.F. Attallah · E.H. Borai · S.A. Shady 1927
- Lichen specie *Canoparmelia texana* as bioindicator of environmental impact from the phosphate fertilizer industry of São Paulo, Brazil**
L. Leonardo · S.R. Damatto · B.R. Gios · B.P. Mazzilli 1935
- Estimation of radon and thoron caused dose at extraction and processing sites of mineral sand mining area in Vietnam (HA TINH province)**
B.D. Dung · T. Van Giap · T. Kovacs · T.N. Toan · L.D. Cuong · T.K. Minh · N.H. Quyet · N. Van Khanh 1943
- Elemental analysis of limestone by instrumental neutron activation analysis**
A. El-Taher · M.A.K. Abdelhalim 1949
- Neutron bombardment of single wall carbon nanohorn (SWCNH): DSC determination of the stored Wigner-Szilard energy**
F. Cataldo · S. Iglesias-Groth · Y. Hafez · G. Angelini 1955
- Analysis of low-level ^{129}I in brine using accelerator mass spectrometry**
N. Chen · X. Hou · W. Zhou · Y. Fan · Q. Liu 1965
- A method for ^{237}Np determination with LSC in the experiment of neptunium sorption onto bentonite**
P. Li · Z. Liu · J. Lin · F. Ma · Q. Shi · Z. Guo · W. Wu 1973
- Characterization of radioactive cobalt on graphene oxide by macroscopic and spectroscopic techniques**
Z. Jin · J. Sheng · Y. Sun 1979

A simple and economic method for accurate determination of the energy peak efficiency of 208 keV γ -ray of ^{237}U based on $^{241}\text{Pu}/^{237}\text{U}$ secular equilibrium
X. Yi · G. Yu · J. Zhang · H. Zhang · M. Li · H. Dang 1987

Biosorption of uranium(VI) by free and entrapped *Chlamydomonas reinhardtii*: kinetic, equilibrium and thermodynamic studies
I.A. Erkaya · M.Y. Arica · A. Akbulut · G. Bayramoglu 1993

Performances of a TRACERlab FX C synthesis module using a Ni-nanopowder/molecular sieves mixed catalyst
D. Petroni · A. Berton · B. Bettini · P.A. Salvadori 2005

Calculation of temperature dependence of radon emanation due to alpha recoil
A. Sakoda · Y. Ishimori 2013

Rapid method for plutonium-241 determination in soil samples
M. Piekarz · A. Komosa 2019

Determination of analytes at trace level in uranium matrix by ICP-AES without chemical/physical separation
A. Sengupta · V.C. Adya 2023

Adsorption of citrate ions on hydroxyapatite synthesized by various methods
E. Skwarek · W. Janusz · D. Sternik 2027

Effect of EDTA on the diffusion behavior of $^{99}\text{TcO}_4^-$ and ReO_4^- in GMZ bentonite
T. Wu · H. Wang · Q. Zheng · Y.L. Zhao · J.Y. Li 2037

ERRATUM

Erratum to: Determination of k_0 -values for some elements in neutron capture gamma-ray for prompt gamma activation analysis
A. Hamid 2043

Further articles can be found at link.springer.com

Indexed/abstracted in *Analytical Abstracts; Chemical Abstracts; Chemistry Citation Index; Chemistry Database; Current Contents/Physical, Chemical and Earth Sciences; Excerpta Medical/EMBASE; INSPEC Information Services; Medical Documentation Service; Metals Abstracts/METADEX; Meteorological and Geostrophysical Abstracts; Reaction Citation Index; Referativnyi Zhurnal; Science Citation Index; Science Citation Index Expanded (SciSearch); SCOPUS; The ISI Alerting Services*

Instructions for Authors for *J Radioanal Nucl Chem* are available at www.springer.com/10967