

ISSN 0126-1568, E-ISSN 2356-5322  
Accreditation No.: 30/E/KPT/2018

# atom indonesia

<http://aij.batan.go.id/>

**VOL. 45**  
**NO. 1**  
**APRIL 2019**

## C o n t e n t s

<b>Editorial . . . . .</b>	<b>i</b>
Interaction of $^{137}\text{Cs}$ with Sumedang Clay as Natural Barrier of Radwaste Disposal <b>B. Setiawan, U. Zhafirah and A. Saefumillah . . . . .</b>	<b>1</b>
Early Lung Cancer Detection Using Artificial Neural Network <b>T. Pandiangan, I. Bali and A.R.J. Silalahi . . . . .</b>	<b>9</b>
Experimental and Numerical Simulation Investigation of Single-Phase Natural Circulation in a Large Scale Rectangular Loop <b>A.R. Antariksawan, S. Widodo, M. Juarsa, S. Ismarwanti, D. Saptoadi, M.H. Kusuma, T. Ardiyati and T.M.I. Mahlia . . . . .</b>	<b>17</b>
Assessment of Individual Radiosensitivity in Inhabitants of Takandeang Village - A High Background Radiation Area in Indonesia <b>D. Ramadhan, S. Purnami, S. Nurhayati, M. Lubis, D. Teriana, W. Mailana, K.D. Purwanti, E. Pudjadi, I. Kashiwakura, R. Okazaki and M. Syaifudin . . . . .</b>	<b>27</b>
Occupational and Patient Doses in Interventional Cardiology in Indonesia: A Preliminary Result <b>E. Hiswara, K.H. Ng, H. Sofyan, D. Kartikasari and N. Nuraeni . . . . .</b>	<b>37</b>
A Bayesian Network Approach to Estimating Software Reliability of RSG-GAS Reactor Protection System <b>S. Santoso, S. Bakhri and J. Situmorang . . . . .</b>	<b>43</b>
Assessment of Human Milk Intake by Breastfed Infants Using Deuterium Oxide Dose-to-Mother Technique in “Tumbuh Kembang Anak” Cohort, Indonesia <b>E.K. Winarno, H. Winarno, Susanto, T. Fajarwati and T. Thomas . . . . .</b>	<b>51</b>
Investigation on Neutron Flux Effect onto Irradiated Fuel Burn-up Stored in the Reactor TRIGA PUSPATI <b>M.A.A. Husain, S. Hashim, D. Bradley, M.H. Rabir, N. Zakaria and M.R.M. Zin . . . . .</b>	<b>59</b>
Acknowledgment . . . . .	<b>67</b>