

ISSN 0126–1568, E-ISSN 2356–5322  
Accreditation No.: 204/E/KPT/2022

# atom indonesia

<https://atomindonesia.brin.go.id/>

**VOL. 50**  
**NO. 2**  
**AUGUST 2024**

## C o n t e n t s

<b>Editorial</b> .....	i
Radon Concentration in Biological Samples of Smokers and Non-smokers Using Lexan Detector <b>A. A. Alkufi, A. A. Abojassim, M. H. Olewi</b> .....	127
Carbone or Oxygen Therapy: A Comparative Dosimetric Study Using PHITS Code <b>H. El Bekkouri, E. Al Ibrahmi, M. El-Asery, A. Bardane, C. El Mahjoub, A. Didi, Z. Sadoune</b> .....	135
Preliminary Study of Micronucleus Frequencies and Responses in Thyroid Cancer Patients After Treatment with $^{131}\text{I}$ Therapy <b>I. K. H. Basri, Y. Lusiyanti, D. Ramadhani, D. Tetriana, A. R. Dewi, S. Purnami, V. A. Suvivan, M. R. A. Gani, T. Kisnanto</b> .....	143
A Neutronic Study of A Low-Enriched Uranium-Fueled Microreactor Cooled with A Sodium Heat Pipe System Using The OpenMC Code <b>A. Bourenane, L. Hamidatou, M. Dougdag, M. L. Yahiaoui</b> .....	151
Evaluation of Tumor Control Probability and Normal Tissue Complication Probability of Breast Cancer Treatment Plan in Post Mastectomy Radiation Therapy <b>S. Herwiningsih, F. Yuana, R. Latifah, A. Hidayat, D. P. Rahmahtullah, I. Alviani, F. K. Hentihu</b> .....	159
Atmospheric Nitrogen Plasma-Induced for Embedding NH <sub>2</sub> @Cubic-Bicontinuous Mesoporous Silica as Uranium (VI) Adsorbent Candidate in Seawater <b>N. S. Pamungkas, D. Wongsawaeng, D. Swantomo, K. Kamonsuangkasem, S. Chio-Srichan</b> ..	165
Effects of Patient Dose Reduction Efforts on Image Quality for Thoracic CT in A Moroccan Hospital <b>Z. Saga, A. Rahmouni, L. Belaroussi, M. Talbi, M. El Mansouri, A. Rezzouk</b> .....	175
Bibliometric Analysis of the Literature on Carbon Ion Therapy Using VOSviewer Software and Dimensions Database <b>H. El Bekkouri, E. Al Ibrahmi, M. El-Asery, A. Bardane, A. Didi, C. El Mahjoub, Z. Sadoune</b> ..	183
Radiological and Toxicity Hazards Estimate of Drinking Water in Al-Diwaniyah, Iraq <b>M. A. Abbas, H. A. Hammood, D. J. Salman</b> .....	191
Non-Dimensional Number Analysis on Natural Circulation Flow Changes Inside Straight-Pipe Heat Exchanger of Water Cooling Tank in FASSIP-02 Test Loop <b>E. P. Arista, Deendarlianto, A. S. Al-amin, P. H. Setiawan, H. A. Gunawan, M. Juarsa</b> .....	201
Acknowledgment .....	211