



Fisika



LPPM



Volume 8 Issue 2, August 2023

SPEKTRA

Jurnal Fisika dan Aplikasinya

DOI: doi.org/10.21009/SPEKTRA

e-ISSN : 2541-3392

SPEKTRA: Jurnal Fisika dan Aplikasinya

Volume 8 Issue 2, August 2023

DOI: doi.org/10.21009/SPEKTRA.08200

Abstracting and Indexing:

			
			
			
			

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THE COMPARISON OF 2D DOSE PATIENT-SPECIFIC QUALITY ASSURANCE BETWEEN MONTE CARLO-CONVOLUTION AND MODIFIED CLARKSON INTEGRATION ALGORITHM*Akbar Azzi, Supriyanto Ardjo Pawiro, Terry Mart***SYNTHESIZE OF TiO₂ NANOPARTICLES BY PLANETARY BALL MILL FOR DYE-SENSITIZED SOLAR CELLS (DSSC) PHOTOELECTRODE APPLICATION***Ai Nurlaela, Elvan Yuniarti, Siti Ahmiatri Saptari***EXPERIMENTAL AND COMPUTATIONAL STUDY OF NITROGEN-DOPED TiO₂ AS A PHOTOELECTRODE***Sitti Ahmiatri Saptari, Elvan Yuniarti, Lamin Rene Loua***INVESTIGATION OF SUBSURFACE GROUNDWATER USING THE VES METHOD AROUND DENDAM LAKE, BENGKULU CITY, INDONESIA***Faritz Bagda Maghribi, Refrizon Refrizon, Suhendra Suhendra, Darmawan Ikhlas Fadli, Halauddin, Beni Syakban Idris, Henny Johan, Eli Putriani***IDENTIFICATION OF PHYSICAL OCEANOGRAPHIC PARAMETERS AND MIXING TYPES AT THE TRANSITIONAL SEASON I IN THE ESTUARY OF AIR MANNA REGENCY SOUTH BENGKULU***Supiyati Supiyati, Devi Permata Sari, Riska Ekawita, Septi Johan, Sudirman Sudirman*

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EDITORIAL FOREWORD

SPEKTRA: Jurnal Fisika dan Aplikasinya is dedicated to all physics practitioners. The coverage of SPEKTRA includes Instrumentation and Computational Physics, Material Physics, Medical Physics and Biophysics, Astrophysics, Theoretical Physics, Particle, and Nuclear Physics, Environment Physics, Renewable Energy, and other fields related to the application of physics.

SPEKTRA Volume 8 issue 2 contains five papers: 1) The Comparison of 2D Dose Patient-Specific Quality Assurance Between Monte Carlo-Convolution and Modified Clarkson Integration Algorithm, 2) Synthesize of TiO₂ Nanoparticles by Planetary Ball Mill for Dye-Sensitized Solar Cells (DSSC) Photoelectrode Application, 3) Experimental and Computational Study of Nitrogen-Doped TiO₂ as A Photoelectrode, 4) Investigation of Subsurface Groundwater Using The Ves Method Around Dendam Lake, Bengkulu City, Indonesia, and 5) Identification of Physical Oceanographic Parameters And Mixing Types at The Transitional Season I in The Estuary of Air Manna Regency South Bengkulu.

The articles in this issue from 4 countries: Indonesia, Gambia, Taiwan and China. We are grateful for all the contributions of the authors. We also appreciate the professional reviewers who are an essential part of this issue.

Hopefully, SPEKTRA can be a reference for readers and researchers in developing physics and its application.

Jakarta, 30 August 2023

Editor-in-Chief,

Widyaningrum Indrasari

CONTENTS

TITLE AND AUTHOR(S)	PAGES
THE COMPARISON OF 2D DOSE PATIENT-SPECIFIC QUALITY ASSURANCE BETWEEN MONTE CARLO-CONVOLUTION AND MODIFIED CLARKSON INTEGRATION ALGORITHM <i>Akbar Azzî, Supriyanto Ardjo Pawiro, Terry Mart</i>	73-82
SYNTHESIZE OF TiO₂ NANOPARTICLES BY PLANETARY BALL MILL FOR DYE-SENSITIZED SOLAR CELLS (DSSC) PHOTOELECTRODE APPLICATION <i>Ai Nurlaela, Elvan Yuniarti, Siti Ahmiatri Saptari</i>	83-92
EXPERIMENTAL AND COMPUTATIONAL STUDY OF NITROGEN-DOPED TiO₂ AS A PHOTOELECTRODE <i>Sitti Ahmiatri Saptari, Elvan Yuniarti, Lamin Rene Loua</i>	93-104
INVESTIGATION OF SUBSURFACE GROUNDWATER USING THE VES METHOD AROUND DENDAM LAKE, BENGKULU CITY, INDONESIA <i>Faritz Bagda Maghribi, Refrizon Refrizon, Suhendra Suhendra, Darmawan Ikhlas Fadli, Halauddin, Beni Syakban Idris, Henny Johan, Eli Putriani</i>	105-120
IDENTIFICATION OF PHYSICAL OCEANOGRAPHIC PARAMETERS AND MIXING TYPES AT THE TRANSITIONAL SEASON I IN THE ESTUARY OF AIR MANNA REGENCY SOUTH BENGKULU <i>Supiyati Supiyati, Devi Permata Sari, Riska Ekawita, Septi Johan, Sudirman Sudirman</i>	121-132

