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		d. Penerbit	:	IISTE
		e. DOI artikel (jika ada)	:	10.7176/APTA/85-02
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Semarang, 18 Januari 2023

Reviewer 1

Prof. Dr. Kusworo Adi, S.Si., M.T.
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Bidang Ilmu: Fisika Instrumentasi

Reviewer 2

Prof. Dr. Agus Subagio, S.Si., M.Si.
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Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu: Fisika Material

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2. **Ruang lingkup dan kedalaman pembahasan:**
   Lingkup bahasan dari artikel ini adalah bidang fisika. Pembahasan cukup baik yaitu menyelidiki pengaruh laju aliran gas masuk pada produksi dan kelarutan ozon dalam fase cair. Generator ozon berbasis pelepasan penghalang dielektrik ganda (DDBD) digunakan dan dihubungkan ke aerator microbubble. Kedalaman pembahasan baik.
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
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   Artikel dimuat di Advances in Physics Theories and Application, pada Vol. 85, 31 November 2021. Diterbitkan oleh IISTE terindeks di Index Copernicus, Impact factor: 5.58

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Reviewer 1

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Total = (100%)	**20**			**18,5**
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2. **<u>Ruang lingkup dan kedalaman pembahasan:</u>**
   Pembahasan artikel terkait dengan pengaruh laju aliran gas pada system mikrobuble cukup baik dan melibatkan penelitian dari referensi yang dicantumkan.
3. **<u>Kecukupan dan kemutakhiran data/informasi dan metodologi:</u>**
   Metode standar serta referensi yang digunakan cukup baik.
4. **<u>Kelengkapan unsur dan kualitas terbitan:</u>**
   Jurnal untuk artikel yang diterbitkan telah terindex copernicus dengan impact factor 5,58.

Semarang, 18 Januari 2023
Reviewer 2

Prof. Dr. Agus Subagio, S.Si., M.Si.
NIP. 19710813 1995121001
Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu:Fisika Material

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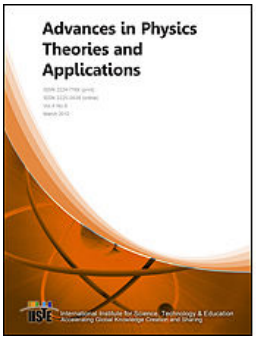

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ISSN 2224-719X (Paper) ISSN 2225-0638 (Online)
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Finite Difference Method for Solving Poisson's Equation in Two Dimensions with Alternating Direction Implicit Method

Bedru Yusuf Nega
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Ahmed Buseri Ashine
Madda Walabu University, department of Mathematics, Bale Robe, Ethiopia

Abe Nura Ware
Arsi University, department of Mathematics, Asella, Ethiopia

Abstract
This paper presents some numerical techniques for the solution of two dimensional Poisson's equations. The discrete approximation of Poisson's equations is based on Finite difference method over a regular domain $\mathbb{R}$. In this research five point difference approximations is used for Poisson's equation .To solve the resulting finite difference approximation basic iterative methods; Jacobi, Gauss-Seidal and successive over relaxation (SOR) have been used. Several model problems of Poisson's equations are solved by the iterative methods to identify the efficiency of the iterative methods. And we study the convergence, consistence and stability of the schemes. Alternating direction implicit (ADI) method is a finite difference method (FDM) to solve partial differential equations (PDEs). We employ ADI method to solve Poisson's equations for dirichlet boundary conditions. The discretized equation is modified near the boundaries to incorporate arbitrary domain shapes. The ADI method performs much better than traditional iterative methods because of usage of efficient tri-diagonal solvers.
Keywords: Iteration, Discretized , Finite Difference method (FDM), Alternating direct implicit method (ADI), Poisson's equation, stability and convergence.
DOI: 10.7176/APTA/85-01

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Preparation and study of the structural and optical properties of silver nanoparticles prepared from extracts of some plants

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Aseel Jamal Ahmed[4]
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Abstract
The study included the preparation of silver nanoparticals using *Punica granatum* extract . as silver nanoparticals were prepared by biological method . which is one of the best ways for its cheapness and the fact that is does not require time and does not leave toxic substance .in the study , the active compounds of the extract were detected and some physical properties of AgNps were studied . the optical and structural properties of the prepared nanoparticles were studied by Uv-Visible spectrophoto meter measurement. perform an infrared spectrophotometric test (FTIR) a filed – emitting scanning electron microscope was also performed , (EDX) , (X-RAY) and the results of (FESEM) measurement showed
that silver nanoparticles are of oval shape , and of different sizes ranging from (32.55 -70.55) nm . with a rate of (45.98) nm .
Keywords: *Punica granatum* plant , silver nitrate , ethanol alcohol .
DOI: 10.7176/APTA/85-03
Publication date: December 30th 2021

INTRODUCTION
This study aims to synthesize nanoparticles in the green way using the leaves of the *Punica granatum* plant . nanoparticles are great importance at the present time and are used in many fields [1] . the interest in preparing nanoparticles has increased alot especially in the recent period, especially in biosynthesis because these particles have distinct chemical , electronic and optical properties , and they can be changed depending