

4th Science and Mathematics International Conference (SMIC 2024)

Connecting the Sustainable World and Future
Technologies: Opportunities and Challenges in
Science, Mathematics, and Education

Advances in Physics Research Volume 11

Jakarta, Indonesia and Online
23 - 24 September 2024

ISBN: 979-8-3313-1143-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Print copyright© (2024) by Atlantis Press (part of Springer Nature)
All rights reserved.
Copyright for individual electronic papers remains with the authors.

For permission requests, please contact the publisher:

Atlantis Press
Van Godewijckstraat 30
3311GX Dordrecht
The Netherlands

contact@atlantis-press.com

Printed with permission by Curran Associates, Inc. (2025)

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Effect of Stocking Density Difference with the Same Amount of Feed on the Growth and Survival of Koi Fish (<i>Cyprinus rubrofasciatus</i>) at the Balai Riset Budidaya Ikan Hias (BRBIH), Depok, West Java, Indonesia	1
<i>Muhamad Gilang Permana, Rafika Dinillah, Siti Nurlaela, Rusdi Rusdi, Fitria Pusparini, Nina Meilisza, Joni Hariyadi</i>	
The Influence of Feed Types on the Growth and Survival of Comet Fish (<i>Carassius auratus</i>) at Balai Riset Budidaya Ikan Hias (BRBIH) Depok, West Java.....	12
<i>Rusdi Rusdi, Azmy Hani Abidin, Nabilla Putri Adisty, Farhan Ananda Pratama, Nina Meliza, Daniar Setyo Rini, Joni Haryadi</i>	
Assessing the <i>ecpA</i> Gene as a Target for Detecting <i>Klebsiella pneumoniae</i> Using Real-time Polymerase Chain Reaction Method	23
<i>Muktiningsih Nurjayadi, Agus Setiawan, Ananda Indah Putri Sihombing, Anisa Fitriyanti, Grace Grace, Gusti Angieta Putri, Helzi Angelina, Puan Aqila Azizah, Royna Rahma Musie, Jefferson Lynford Declan, Gladys Indira Putri, Dandy Akbar Juliansyah, Siti Fatimah, Atikah Nur Rahmawati, Irma Ratna Kartika, Fera Kurniadewi, Irwan Saputra, Bassam Abomoelak, Hesham A. El Enshasy</i>	
Peer-Review Statements	40
<i>Tian Abdul Aziz, Irwanto Irwanto, Dini Safitri</i>	
The Effect of Differentiated Learning with Think-Tac-Toe Strategy on Students' Learning Outcomes on the Topic of Buffer Solutions	43
<i>Elma Suryani, Muthiah Nur Azzahra, Achmad Ridwan</i>	
Analysis of Variations in Students' Conceptual Understanding on the Concept of Salt Hydrolysis Using Phenomenography.....	52
<i>Elsa Vera Nanda, Qoulun Karima, Tritiyatma Hadinugrahaningsih</i>	
Estimating Air Pollution Index in Indonesia as Effort to Increase Life Expectancy	64
<i>Fanny Novika</i>	
Design of Sharia Peer to Peer Lending Information System for Android Based Msmes (Aminah)	75
<i>Med Irzal, Togu Annaaf Kumara, Ari Hendarno</i>	
Structural Equation Modeling for Analyzing the Relationships among Packaging, Perceived Quality, Customer Satisfaction, and Business Competitiveness in Food Products.....	91
<i>Dian Handayani, Fitriana Era Madani, Dania Siregar</i>	
The effect of NPK pearl fertilizer on the germination of green mustard seeds (<i>Brassica juncea</i> L.).....	105
<i>Ratna Dewi Wulaningsih, Agung Purwanto, Cantika Choirunisa Anediaandrasari</i>	
The Effect of Maggot Flour (<i>Hermetia illucens</i>) on the Growth of Sangkuriang Catfish (<i>Clarias gariepinus</i>).....	113
<i>Rusdi Rusdi, Yulilina Retno Dewahrani, Tiara Putri Chaerunnisa, Bunga Ainindya Balqis, Nur Novita, Rahma Noviati, Melta Rini Fahmi, Naufal Ma'arif</i>	
Description of Data on Screening Results for Infections Infectious Through Blood Transfusion (IMLTD) at Unit Donor Darah Palang Merah Indonesia DKI Jakarta Province in 2023	122
<i>Annisa Alfazrin, Kadek Vicky Cintya Dewi, Shofa Fauziah, Rusdi Rusdi, Daniar Setyo Rini, Ni Ken Ritchie, Sumiyati Sumiyati, Nurhayati Nurhayati</i>	

Identification and Prevalence of Parasite Types in Various Freshwater Ornamental Fish in Jakarta.....	131
<i>Lulu Friska Salsabilla, Rahmadiva Pradesti, Renata Martanto, Rusdi Rusdi, Fitria Pusparini, Devi Vianika S. Ambarwati, Fathi Alauddin Sulthan</i>	
Exploring Protist Literacy Among University Students': Findings from a Recent Survey	144
<i>Hardianto Hardianto, Susriyati Mahanal, Hendra Susanto, Sitoresmi Prabaningtyas</i>	
Identification Chemistry Pre-Service Teacher's Misconceptions on The Topic Atomic Structure	155
<i>Rika Siti Syaadah, Maria Paristiowati, Hayyun Lisdiana</i>	
Combining Problem-Based Learning and Collaborative Mind Mapping: A Strategy for Empowering Students' Collaboration Skills	161
<i>Fitrah Amalia Salim, Susriyati Mahana, Hendra Susanto</i>	
Analysis of Student's Knowledge, Attitudes, and Skills in Flowering Plants Improvement	172
<i>Ratna Dewi Wulaningsih, Agung Purwanto, Budiaman Budiaman, Rusdi Rusdi, Erna Heryanti</i>	
Optimizing Students' Mathematical Visual Thinking Through Graphing Quadratic Worksheets: A Rasch Modeling Approach	181
<i>Ria Noviana Agus, Rina Oktaviyanthi, Usep Sholahudin</i>	
Developing Higher-Order Thinking Skills in Mathematics Learning through Challenging Mathematical Task: A Single Subject Study on Gifted Students	196
<i>Kadir Kadir, Dedek Kustiawati, Hania Rahmah</i>	
The Potential of htrA Gene to Identify Enterococcus faecalis using real-time Polymerase Chain Reaction.....	211
<i>Irma Ratna Kartika, Grace Grace, Ananda Indah Putri Sihombing, Agus Setiawan, Anisa Fitriyanti, Helzi Angelina, Gusti Angieta, Puan Aqila Azizah, Royna Rahma Musie, Jefferson Lynford Declan, Gladys Indira Putri, Siti Fatimah, Ayu Berkahingrum, Muktiningsih Nurjayadi, Fera Kurniadewi, Bassam Abomoelak, Hesham A. El Enshasy</i>	
The Relationship between Nutritional Knowledge with Food Attitudes on Post COVID-19 Pandemic among High School Adolescents	227
<i>Yulilina Retno Dewahrani, Saidah Linaili Rahmah, Sri Rahayu</i>	

Author Index