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| 112 | SE-746 | Murbangun Nuswowati | EFFECTIVENESS OF CRITICAL THINKING MODULE IN CHEMICAL TEACHING OF HYDROLYSIS AND BUFFER MATERIAL  | Murbangun Nuswowati & Eli Purwanti        |
| 113 | P-485  | Nathan Hindarto     | Using history of physics as a media to introduce and internalize characters values in physics instruction   | Nathan Hindarto*, Sunyoto E N             |
| 114 | P-784  | Nguyen Thi Cam Thu  | The technical implementation of an IMPT system for research purpose   | Thu T C Nguyen, Binh T Nguyen, Nhon V Mai |

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| 115 | P-661 | Nguyen Thi Cam Thu     | Planning comparison between Intensity Modulated Radiation Therapy and Intensity Modulated Proton Therapy | Thu T C Nguyen, Binh T Nguyen, Nhon V Mai               |
| 116 | M-797 | Nila Mareta Murdiyani  | Developing Non-Routine Problems for Assessing Students' Mathematical Literacy                            | Author 1  |
| 117 | P-863 | Nila Prasetya Aryani   | Implementation of small group discussion as a teaching method in Earth and Space science Subject         | Nila Prasetya Aryani, Supriyadi                         |
| 118 | B-688 | Ning Setiati           | THE STUDY OF MITOKONDRIA D-LOOP GENE TO DETEC GENETICAL DIVERSITY OF GEMAK (TURNICIDAE FAMILY)           | Ning Setiati  |
| 119 | B-558 | Noverita Dian Takarina | Content of Cr, Cu, Pb and Zn on Vannamei Shrimp Cultured in Modern Farm at BLUPPB, Karawang, West Java   | Andi Rahman, Noverita Dian Takarina, Titin Siswantining |
| 120 | M-503 | NUR KHASANAH           | On Computing : The Inverse of Centrosymmetric Matrix   | Nur Khasanah, Farikhin, Bayu Surarso                    |



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| 121 | M-670  | Nurkaromah Dwidayati | CONVERGENCE PROPERTIES OF THE EM ALGORITHM IN THE MIXTURE MODEL WITH MISSING DATA  | Nurkaromah Dwidayati, Zaenuri           |
| 122 | M-531  | Nursiwi Nugraheni    | IMPROVING THE STUDENTS'™ SKILLS IN DEVELOPING GEOMETRY LEARNING BY BUILDING THE CHARACTER OF ACADEMIC ATMOSPHERE IN PGSD UNNES | Nursiwi Nugraheni, Wahyuningsih         |
| 123 | M-628  | Prihantini           | Stability Analysis Model of Bacillus antracis Using SEIQR Population Compartment with Quarantine in Indonesia                  | Prihantini, Fitriana Yuli Saptaningtyas |
| 124 | CS-567 | Putriaji Hendikawati | Development of Computer Assisted Instruction Application for Statistics Data Analysis Android Based as Learning Resource       |   |
| 125 | B-646  | R.SUSANTI            | Mitochondrial D-loop Sequence of Domesticated Waterfowl in Central Java: Goose and Muscovy Duck                                | R. Susanti, Retno Sri Iswari            |

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| 126 | P-588  | Rambu Ririnsia Harra Hau   | PATTERN OF MATHEMATIC REPRESENTATION ABILITY IN MAGNETIC ELECTRICITY PROBLEM  | Rambu Ririnsia Harra Hau 1, Putut Marwoto 2, Ngurah Made Dharma Putra 3 |
| 127 | M-717  | Regina Lichteria Panjaitan | Item Validity vs. Item Discrimination Index: a Redundancy?  | Regina Lichteria Panjaitan  |
| 128 | M-838  | Regina Lichteria Panjaitan | Choosing Appropriate Independent Variable in Educational Experimental Research: Some Errors Debunked  | Regina Lichteria Panjaitan  |
| 129 | P-676  | renia isna                 | ACHIEVEMENT OF LEARNING OUTCOME AFTER IMPLEMENTED PHYSICS MODULE BASED ON PROBLEM BASED LEARNING (PBL) IN NEWTON'S LAW OF UNIVERSAL GRAVITATION | Renia Isna, Mohammad Masykuri, Sukarmin                                 |
| 130 | M-700  | Retno Subekti              | Ant Colony Algorithm for Clustering in Portfolio Optimization   | Retno Subekti, Eminugroho Ratna Sari, Rosita Kusumawati                 |
| 131 | CS-552 | Riani Widya Ningrum        | Forecasting Jakarta Composite Index (IHSG) Based on Chen Fuzzy Time Series and Firefly Clustering Algorithm                                     | Riani Widya Ningrum, Bayu Surarso, Farikhin, Yanuar Mahfudz Safarudin   |

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| 132 | B-939  | Rianti Cahyani            | Design and validation of general biology learning program based on scientific inquiries skill       |   |
| 133 | CS-562 | ridho hendra yoga perdana | An intelligent switch with back-propagation neural network based hybrid power system                | Ridho Hendra Yoga Perdana, Fidia Fibriana                         |
| 134 | P-695  | RIMA CHANDRA HARDYANTI    | Analysis of Physics Learning in School Using Scientific Approach and Authentic Assessment           | Rima Chandra Hardyanti, Hartono, Fianti                           |
| 135 | P-918  | Rina Dwi Indriani         | Gravity Observation Data Analysis 1988 - 1998 - 2011 To Determine Gravity Changes Merapi Volcano    | Rina Dwi Indriana1, Kirbani SB2, Ari Setiawan2, T. Aris Sunantyo3 |
| 136 | M-559  | Rochmad                   | CHARACTERISTIC OF CRITICAL AND CREATIVE THINKING OF STUDENTS OF MATHEMATICS EDUCATION STUDY PROGRAM | Rochmad, Arief Agoestanto, Muhammad Kharis                        |
| 137 | M-876  | Rr Chusnul Chotimah A     | Analysis of Problem Solving in Terms of Cognitive Style   | Rr Chusnul Chotimah A   |

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| 138 | M-480  | Rubono Setiawan  | Economic Order Quantity (EOQ) by Game Theory Approach in Probabilistic Supply Chain System under Service Level Constraint for Items with Imperfect Quality    | Rubono Setiawan                                    |
| 139 | SE-750 | sahrul saehana   | Development of Website for Studying Modern Physics  | Sahrul Saehana, Unggul Wahyono and Wiwik Widyawati |
| 140 | SE-749 | sahrul saehana   | Recycled Material-based Science Instruments to Support Science Education in Rural Area  | Sahrul Saehana, Muhammad Ali, Supriyatman          |
| 141 | M-848  | Salisatul Apipah | AN ANALYSIS OF MATHEMATICAL CONNECTION ABILITY BASED ON STUDENT LEARNING STYLE ON VISUALIZATION AUDITORY KINESTETIC (VAK) LEARNING MODEL WITH SELF ASSESSMENT | Salisatul Apipah, Kartono, Isnarto                 |

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| 142 | P-752  | Sarwi Sarwi | THE ANALYSIS OF SCIENTIFIC COMMUNICATIONS AND STUDENT CHARACTER DEVELOPMENT THROUGH GUIDED INQUIRY LEARNING                        | S Sarwi1)<br>Nurul Fauziah<br>2) Budi Astuti3)  |
| 143 | C-739  | Setia Budi  | Preparation of high surface area and high conductivity polyaniline nanoparticles using chemical oxidation polymerization technique |   |
| 144 | M-812  | Silfiana    | Modeling of Nitrogen Transformation in an Integrated Multi-Trophic Aquaculture (IMTA)  | Silfiana,<br>Widowati, S P<br>Putro, T<br>Udjiani SRRM  |
| 145 | P-653  | Siswanto    | Scientific Method by Argumentation Design: Learning Process for Maintaining Student's Retention                                    | Siswanto,<br>Surya Gumilar,<br>Yusiran,<br>Bambang<br>Subali  |
| 146 | SE-743 | Siti Alimah | META ANALYSIS OF LEARNING DESIGN ON SCIENCES TO DEVELOP A TEACHER'S PROFESSIONALISM TRAINING MODEL                                 | Siti Alimah,<br>Yustinus Ulung<br>Anggraito,<br>Andreas<br>Priyono Budi<br>Prasetyo, Sigit<br>Saptono |

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| 147 | B-930  | Siti Harnina Bintari     | The Potential of Shark Bone Powder in Breast Cancer Inhibition (Pre-clinical Study in DMBA-Induced Sprague Dawly Rats)                 | author 1  |
| 148 | P-555  | Siti Nurul Izzah         | Markisa fruit ( <i>Passiflora edulis</i> var. <i>flavicarpa</i> ) as a fixation material of natural colour of mangrove waste on batik. | Siti Nurul Izzah, Putut Marwoto, Retno Sri Iswari   |
| 149 | SE-779 | Siti Patonah             | CONTENT ANALYSIS OF SCIENCE MATERIAL IN JUNIOR SCHOOL BASED INQUIRY AND SCIENCE PROCESS SKILLS   | Siti Patonah, Duwi Nuvitalia, Ernawati Saptaningrum |
| 150 | M-824  | Sity Rahmy Maulidya      | Designs of Goal-Free Problems For Trigonometry Learning  | Sity Rahmy Maulidya, Endah Retnowati                |
| 151 | C-481  | Sri Haryani              | IMPROVEMENT OF METAKOGNITIVE SKILLS AND STUDENTS' REASONING ABILITY THROUGH PROBLEM BASED LEARNING                                     |   |
| 152 | SE-793 | Stephani Diah Pamelasari | A Comparison Study of Instruction between International School and State School of Middle Level in Indonesia                           |   |

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| 153 | P-645  | Sugiyanto S         | The simulation of a two-dimensional (2D) transport problem in a rectangular region with Lattice Boltzmann method with two-relaxation-time | Sugiyanto S., Wahyu Hardyanto, Putut Marwoto  |
| 154 | B-915  | Suhartono Suhartono | Phenotypic Analysis of Antibiotic Resistant E. coli Recovered from Urban Aquatic Environment in Banda Aceh                                | Suhartono Suhartono, Yulia Sari Ismail, Cut Yulvizar, Risa Nursanty, Mahyuddin Mahyuddin, Miftahul Jannah |
| 155 | P-603  | Sujarwata           | The influence of channel length to the characteristics of CuPc based OFET thin films  |   |
| 156 | SE-630 | Sumarno             | DESIGNING AND VALIDATING OF COMPLEX SYSTEM REPRESENTATION PRACTICE ON DEVELOPMENT STRUCTURE OF PLANT™S WORKSHEET                          | Sumarno, Muslimin Ibrahim, ZA. Imam Supardi   |
| 157 | M-747  | Supandi Supandi     | Mobile Phone Application for Mathematics Learning   | Supandi Supandi, Lilik Ariyanto, Widya Kusumaningsih, Aurora Nur Aini                                     |

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| 158 | SE-615 | Susilawati           | Analysis of Pre-Service Physics Teacher Skills<br>Designing Simple Physics Experiments based Technology         |   |
| 159 | M-847  | Susilo Wati          | An analysis of students' difficulties in solving linear equation problems                                       | S Wati, L Fitriana, and Mardiyana                 |
| 160 | M-924  | SUTRISNO             | MATHEMATICS 3-D TEXTBOOK TO IMPROVE MATHEMATICAL COMMUNICATION ABILITY STUDENTS                                 |   |
| 161 | M-807  | Swasti Maharani      | Developing group investigation-based book on numerical analysis to increase critical thinking student's ability | Swasti Maharani, Edy Suprpto                      |
| 162 | M-835  | T Dwi Hastuti        |   |   |
| 163 | P-576  | Upik Nurbaiti        | Synthesis of Cristobalite of Natural Silica Sand from Tuban and Tanah Laut Indonesia                            | Upik Nurbaiti, Suminar Pratapa                    |
| 164 | SE-859 | Vertye Noor Khasanah | Guided Discovery Learning as Study Tools on Achievement in Geometry   | Vertye Noor Khasanah, Budi Usodo, dan Sri Subanti |



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| 165 | B-626 | W Widodo           | Are bird species in the Petungkriyono ecotourism forest diverse?   |  |
| 166 | M-680 | Wahyu Setyaningrum | Developing Mathematics Edutainment Media for Android Oriented to Studentsâ€™ Understanding and Interest: A Teachersâ€™ review                        | Wahyu Setyaningrum, Nur Hadi Waryanto  |
| 167 | P-544 | Wahyu Hardyanto    | End User Satisfication Analysis on Library Management System Unnes Using Technology Acceptance Model Towards National Standard of Integrated Library |  |
| 168 | M-763 | Wardono            | The Analysis of Mathematics Literacy on PMRI Learning With Media Schoology of Junior High School Students  | Wardono, Isnarto, Budi Waluya, Kartono, Mulyono, Scolastika Mariani, Kuswidianarko A |

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| 169 | M-707  | Wardono         | Development Innovative Interactive Problem Based Learning Model PMRI-Scientific Using ICT to Increase Mathematics Literacy and Independence-Character of Junior High School Students |   |
| 170 | P-818  | Widiyanto       | Dry Dock Gate Stability Modeling   | Oktobery,<br>Widiyanto, Eko Julianto Sasono, Sri Pramono, Agus Tri Wandono            |
| 171 | P-823  | Winny Liliawati | The Validity of the Earth and Space Science Learning Materials with Orientation on Multiple Intelligence and Character Education   | W Liliawati, J. A. Utama, T. R. Ramalis, and A. A. Rochman                            |
| 172 | SE-805 | Winny Liliawati | Implementation of STEAM Education to Improve Mastery Concept   | W Liliawati <sup>1</sup> , H. Rusnayati <sup>1</sup> , and G. Aristantia <sup>2</sup> |
| 173 | SE-850 | wiyanto         | Preparing Prospective Physics Teachers to Teach Integrated Science in Junior High School   | Wiyanto, Hartono, S. E. Nugroho   |

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| 174 | P-542  | yoan theasy       | Multi-Representation Ability Of Students on The Problem Solving Physics  | Yoan Theasy 1, Wiyanto 2, Sujarwata 3             |
| 175 | M-610  | Yully Estiningsih | A Comparison of Heuristic Method and Llewellyn's Rules for Identification of Redundant Constraints.  | Yully Estiningsih; Farikhin; Heru Tjahjana        |
| 176 | SE-598 | Zaenal Abidin     | The influence of physical and chemical parameters on the extinction of the God Fish (Tor Duoronensis) species : Case Study in Balong Dalem Kuningan District | Zaenal Abidin1, Putut Marwoto2, Retno Sri Iswari2 |
| 177 | M-754  | Zaenuri           | EXPLORING ETHNOMATHEMATICS IN CENTRAL JAVA   | Zaenuri, Nurkaromah Dwidayati                     |
| 178 | M-810  | zahra nugraheni   | Upgrading Geometry Conceptual Understanding and Strategic Competence through Implementing Rigorous Mathematical Thinking (RMT)                               | Zahra Nugraheni, Budiyo, Isnandar Slamet          |