



The 2nd Annual International Conference on Mathematics and Science Education

(ICoMSE 2018)

FACULTY OF MATHEMATICS AND NATURAL SCIENCE

UNIVERSITAS NEGERI MALANG

Jalan Semarang No 5, Malang, Indonesia



LIST OF ACCEPTED ARTICLES FOR PROCEEDINGS ICOMSE 2018

INDEXED BY SCOPUS

CATEGORY : BIOLOGI EDUCATION (BE)

No	Id	Id User	Title
1	81	BE-007-100-DGA	EMPOWERING STUDENT'S METACOGNITIVE SKILL THROUGH CIRSA LEARNING
			Author : Refirman Djamar, Rizhal Hendi Ristanto, Nurmasari Sartono, Ilmi Zajuli Ichsan, Ericka Darmawan
			Speaker :Rizhal Hendi Ristanto
			Afiliation : BIOLOGY EDUCATION, STATE UNIVERSITY OF JAKARTA
2	106	BE-006-094-DSA	Traditional Knowledge of Local Wisdom of Kampung Pulo Indigenous peoples (West Jawa) about Environmental Ethics
			Author : Jamaludin Abdul Ghani, Nuryani Rustaman, Hertien Koosbandiah Surtikanti
			Speaker :Jamaludin Abdul Ghani
			Afiliation : UNIVERSITAS PENDIDIKAN INDONESIA
3	133	BE-016-165-DSA	PROMOTING KARMANA PROBLEM BASED LEARNING MODEL TO TRAIN PROBLEM SOLVING SKILLS AND ENVIRONMENTAL POLLUTION CONCEPT MASTERY
			Author : I.W. Karmana, M. Ibrahim, E. Susantini
			Speaker :I.W. Karmana
			Afiliation : PROGRAM STUDI PENDIDIKAN SAINS UNESA
4	136	BE-022-213-DGA	The Development of Biochemistry Teaching Materials Based on Group Investigation
			Author : Muhammad Mifta Fausan, Mesra Damayanti, Indah Panca Pujiastuti, Muhiddin Palennari, Muhammad Danial
			Speaker :Muhammad Mifta Fausan
			Afiliation : UNIVERSITAS SULAWESI BARAT
5	198	BE-038-299-DSA	IMPLEMENTATION OF GUIDED INQUIRY LEARNING WITH SCAFFOLDING STRATEGY TO INCREASE CRITICAL THINKING SKILLS OF BIOLOGY STUDENTS IN 21st CENTURY LEARNING COURSE BASED ON LESSON STUDY
			Author : Warni Makmur1, Herawati Susilo2,. Sri Endah Indriwati3
			Speaker :Warni Makmur1, Herawati Susilo2,. Sri Endah Indriwati3
			Afiliation : UNIVERSITAS NEGERI MALANG.



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No	Id	Id User	Title
6	203	BE-040-307-DSA	THE IMPLEMENTATION OF PROBLEM BASED LEARNING (PBL) MODEL FOR IMPROVING STUDENTS' ORAL COMMUNICATION SKILL THROUGH LESSON STUDY
			Author : Amalia Ainun Najah, Herawati Susilo, Aida Fitriatur Rohmah, Usratussyarifah
			Speaker :Amalia Ainun Najah
			Afiliation : UNIVERSITAS NEGERI MALANG
7	204	BE-042-309-DSA	IMPLEMENTATION OF PROBLEM BASED LEARNING COMBINED WITH THINK PAIR SHARE IN ENHANCING STUDENTS' SCIENTIFIC LITERACY AND COMMUNICATION SKILL THROUGH TEACHING BIOLOGY IN ENGLISH COURSE PEERTEACHING
			Author : Rido Sigit, Herawati Susilo, Sueb
			Speaker :Rido Sigit
			Afiliation : UNIVERSITAS NEGERI MALANG
8	217	BE-045-319-DSA	THE IMPLEMENTATION OF PROJECT BASED LEARNING MODEL IN EVOLUTION MATERIALS TO STIMULATE THE CRITICAL THINKING SKILL AND CREATIVITY OF BIOLOGY PRE SERVICE TEACHERS
			Author : Jirana, Mohamad Amin, Endang Suarsini, Betty Lukiati
			Speaker :Jirana
			Afiliation : UNIVERSITAS NEGERI MALANG

CATEGORY: CHEMISTRY EDUCATION (CE)

No	Id	Id User	Title
9	195	CE-019-295-DSA	MAPPING CHEMISTRY AND AUTOMOTIVE CONCEPTS FOR BUILDING SYNERGISTIC CURRICULUM TO BE IMPLEMENTED AT VOCATIONAL HIGH SCHOOL
			Author : Pancayani Dinihari, M. Pd, Prof. Drs. Effendy, M.Pd, Ph.D., Prof. Dra. Sri Rahayu, M.Ed., Ph.D, Drs. I Wayan Dasna, M.Si, M.Ed., Ph.D.
			Speaker :Pancayani Dinihari, M. Pd
			Afiliation : UNIVERSITAS NEGERI MALANG
10	222	CE-022-323-DGA	Chemistry Teachers' Views about Scientific Inquiry: A Study in East Java Province of Indonesia
			Author : Muntholib, Parlan, Yahmin
			Speaker :Muntholib
			Afiliation : UNIVERSITAS NEGERI MALANG
11	226	CE-021-321-DGA	THE EFFECT OF MULTIPLE REPRESENTATION TO PROSPECTIVE CHEMISTRY TEACHERS' UNDESTANDING ON INTERMOLECULAR FORCE CONCEPT



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No	Id	Id User	Title
			Author : Hayuni Retno Widarti, Siti Marfu'ah , Parlan
			Speaker :Hayuni Retno Widarti
			Afiliation : UNIVERSITAS NEGERI MALANG

CATEGORY : MATHEMATICS EDUCATION (ME)

No	Id	Id User	Title
12	9	ME-001-001-ISA	Perception of Primary Mathematics Teachers on STEM-oriented Teaching and Learning
			Author : Afian Akhbar bin Mustam, Mazlini Adnan,
			Speaker :Afian Akhbar bin Mustam
			Afiliation : UNIVERSITI PENDIDIKAN SULTAN IDRIS
13	27	ME-021-051-DSA	TEACHER'S EFFORT IN SHOWING MATHEMATICAL DISPOSITION OF STUDENTS IN CLASS SEPARATING GENDER
			Author : Yesy Puspitasari, Subanji
			Speaker :Yesy Puspitasari
			Afiliation : UNIVERSITAS NEGERI MALANG
14	35	ME-040-077-DSA	THE PROCESS OF STUDENTS' METACOGNITION IN SOLVING THE MATHEMATICAL PROBLEMS BASED ON VAK LEARNING STYLES (VISUAL, AUDITORY, AND KINAESTHETIC)
			Author : Rachmad Abubakar Lamowa, Subanji
			Speaker :Rachmad Abubakar Lamowa
			Afiliation : UNIVERSITAS NEGERI MALANG
15	65	ME-093-175-DGA	Implementation of Creative Problem Solving (CPS) model using e-learning in applied graph theory course
			Author : Sapti Wahyuningsih, Darmawan Satyananda, Lucky Tri Octoviana, Rini Nurhakiki
			Speaker :Sapti Wahyuningsih,Darmawan Satyananda,Lucky Tri Octoviana,Rini Nurhakiki
			Afiliation : UNIVERSITAS NEGERI MALANG
16	71	ME-098-195-DGA	Students' Mathematical Communications in Solving Combination Problem
			Author : Sukoriyanto
			Speaker :Sukoriyanto
			Afiliation : MATHEMATICS DEPARTMENT, FMIPA, UNIVRSITAS NEGERI MALANG



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No	Id	Id User	Title
17	72	ME-087-169-DGA	Shadow Supervisor Strategy on Student with ADHD in Mathematics Learning Activity for Inclusive Secondary Class of Elementary School
			Author : Rosy Marlina, Budiyono, Budi Usodo
			Speaker :Rosy Marlina
			Afiliation : UNIVERSITAS SEBELAS MARET
18	78	ME-104-209-DGA	The Effect of The ELPSA Framework on Students' Ability to Solve Function Problems
			Author : Ita Chairun Nissa, Sanapiah, Yuntawati
			Speaker :Ita Chairun Nissa
			Afiliation : IKIP MATARAM
19	79	ME-082-158-DSA	MENGLITIK as a Mathematics Learning Media on Circle
			Author : Robert Syarifudin, Latifah Mustofa Lestyanto
			Speaker :Robert Syarifudin,Latifah Mustofa Lestyanto
			Afiliation : STATE UNIVERSITY OF MALANG
20	87	ME-067-125-DGA	The Folding Back and Pseudo-Folding Back of the Students when Solving the Limit Problems
			Author : Susiswo, Subanji, Tjang Daniel Chandra, Purwanto, Sudirman
			Speaker :Susiswo
			Afiliation : UNIVERSITAS NEGERI MALANG (UM)
21	93	ME-094-181-DSA	Mathematical Representation of Cerebral Palsy Students in Constructing the Concept of Plane Geometry Based on APOS Theory
			Author : Elis Dwi Wulandari, Erry Hidayanto, Subanji, Rustanto Rahardi
			Speaker :Elis Dwi Wulandari
			Afiliation : UNIVERSITAS NEGERI MALANG
22	102	ME-113-230-DSA	AN ANALYSIS OF STUDENTS' CREATIVE THINKING SKILL IN CREATING OPEN-ENDED MATHEMATICS PROBLEMS THROUGH SEMI-STRUCTURED PROBLEM POSING
			Author : Eni Titikusumawati, Cholis Sa, Abdur Rahman As, Hery Susanto
			Speaker :Eni Titikusumawati
			Afiliation : UNIVERSITAS NEGERI MALANG (UM)
23	104	ME-105-210-DSA	Development of Android Based Instructional Media of Algebraic Tiles for Quadratic Equation
			Author : Oriza Febri Irianti, Abd. Qohar
			Speaker :Oriza Febri Irianti,Abd. Qohar
			Afiliation : UNIVERSITAS NEGERI MALANG
24	137	ME-110-220-DSA	Mathematics Learning Difficulties of Slow Learners on A Circle



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No	Id	Id User	Title
			Author : Shinta Metikasari, Mardiyana, Triyanto
			Speaker :Shinta Metikasari
			Afiliation : UNIVERSITAS SEBELAS MARET SURAKARTA
25	141	ME-135-263-DSA	Student Algebraic Reasoning To Solve Quadratic Equation Problem
			Author : Nia Wahyu Damayanti, Purwanto, I Nengah Parta and Tjang Daniel Chandra
			Speaker :Nia Wahyu Damayanti, Purwanto, I Nengah Parta and Tjang Daniel Chandra
			Afiliation : UNIVERSITAS NEGERI MALANG
26	142	ME-139-268-DGA	Preliminary Design of ILC-based Multimedia on Base of Number Concept
			Author : Gustimal Witri, Syahrilfuddin, Guslinda, Khoiro Mahbubah, Neni Hermita
			Speaker :Gustimal Witri
			Afiliation : UNIVERSITAS RIAU
27	144	ME-111-223-DGA	Early Identification of Preservice Teachers' Ability in Mathematical Literacy
			Author : Ani Afifah, Miftahul Khoiri, Nur Qomaria
			Speaker :Ani Afifah
			Afiliation : STKIP PGRI PASURUAN
28	154	ME-144-274-DSA	Probabilistic Thinking of Senior High School Students in Solving Probability Tasks
			Author : Rita Raya, St. Suwarsono, Agung Lukito
			Speaker :Rita Raya
			Afiliation : STATE UNIVERSITY OF SURABAYA
29	157	ME-112-225-DSA	Level of Students Creative Thinking in Solid Geometry
			Author : Suci Utami, Budi Usodo, Ikrar Pramudya
			Speaker : Suci Utami
			Afiliation : UNIVERSITAS SEBELAS MARET
30	180	ME-005-009-DGA	Interactive Task Development of The Area and Perimeter of Rectangle to Reduce The Anxiety of Secondary Students in Doing Mathematics Task
			Author : Syaiful Hamzah Nasution, Abdul Qohar, Susiswo
			Speaker : Syaiful Hamzah Nasution, Abdul Qohar, Susiswo
			Afiliation : UNIVERSITAS NEGERI MALANG
31	201	ME-159-305-DSA	The Scaffolding Approach to Enhance Senior High School Student's Statistical Literacy Ability
			Author : Rofiq Robithulloh Murod, Nanang Priatna, Bambang Avip Priatna Martadiputra

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No	Id	Id User	Title
			Speaker : Rofiq Robithulloh Murod
			Afiliation : INDONESIA UNIVERSITY OF EDUCATION
32	214	ME-155-298-DGA	Some Consequences of the Definitions of Trapezoid
			Author : Purwanto
			Speaker : Purwanto
			Afiliation : JURUSAN MATEMATIKA, FMIPA, UNIVERSITAS NEGERI MALANG
33	215	ME-046-083-DSA	Students Mathematical Thinking Process Involving Equal Signs
			Author : Agosto Olo Tome, Purwanto, Cholis Sadjah
			Speaker : Agosto Olo Tome
			Afiliation : STATE UNIVERSITY OF MALANG
34	219	ME-068-126-DGA	INTERFERENCE THINKING STUDENTS UNDERSTAND THE FUNCTION
			Author : Erry Hidayanto
			Speaker : Erry Hidayanto
			Afiliation : UNIVERSITAS NEGERI MALANG
35	225	ME-169-327-DGA	The Abstract Thinking Ability of Mathematics Undergraduate Students in Doing Proving Problems
			Author : Santi Irawati, Indriati Nurul Hidayah, Ema Carnia
			Speaker : Santi Irawati, Indriati Nurul Hidayah
			Afiliation : UNIVERSITAS NEGERI MALANG
36	227	ME-066-124-DGA	Android-Based Mathematics Learning Games That are Interesting for Junior High School Students
			Author : Abd Qohar, Susiswo, Syaiful Hamzah Nasution, Angela Merici Girlani Adem
			Speaker : Abd Qohar
			Afiliation : UNIVERSITAS NEGERI MALANG
37	230	ME-005-009-DGA	COMPUTER-ASSISTED ASSESSMENT MODEL TO DECREASE MATH ANXIETY AND INCREASE MATHEMATICAL SELF EFFICACY OF JUNIOR HIGH SCHOOL STUDENTS
			Author : Syaiful Hamzah Nasution, Abd. Qohar, Susiswo
			Speaker : Syaiful Hamzah Nasution, Abd. Qohar, Susiswo
			Afiliation : UNIVERSITAS NEGERI MALANG

CATEGORY : PHYSICS EDUCATION (PE)

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No	Id	Id User	Title
38	98	PE-019-191-DSA	Developing an Essay Test Instruments to Measuring Diagram Representation and the Capability of Argumentation on Newton's Law
			Author : Andi Nurfitri Syarif, Heru Kuswanto
			Speaker :Andi Nurfitri Syarif
			Afiliation : UNIVERSITAS NEGERI YOGYAKARTA
39	99	PE-024-229-DSA	Physics Learning Using Direct Instruction Model Assisted by Plickers Application to Measure Problem Solving Ability
			Author : Mardhiyyatin Naqiyah, Jumadi, Insih Wilujeng
			Speaker :Mardhiyyatin Naqiyah
			Afiliation : UNIVERSITAS NEGERI YOGYAKARTA
40	125	PE-026-252-DSA	CAKA as Physics Learning Media Based on Android Apps on Smartphones
			Author : Heribertus Didik Kurniawan, Heru Kuswanto
			Speaker :Heribertus Didik Kurniawan
			Afiliation : YOGYAKARTA STATE UNIVERSITY
41	145	PE-027-270-DSA	Implementing inquiry learning model to improve primary school students' critical thinking on earth and universe concept
			Author : Nelda Azriani, Andi Suhandi, Khoiro Mahbubah, Hany Handayani, Neni Hermita, Achmad Samsudin, Zulirfan, Andi Suhandi, Adam Malik, Khoiro Mahbubah, Achmad Samsudin
			Speaker :Nelda Azriani,
			Afiliation : UNIVERSITAS RIAU
42	196	PE-029-300-DGA	The Increase of Students' Scientific Literacy through Guided Inquiry Learning – STEM in The Topic of Optical Instrument
			Author : Parno, Lia Yuliaty, Nuril Munfaridah, Lulut Citra Dewi
			Speaker :Parno
			Afiliation : STATE UNIVERSITY OF MALANG
43	224	PE-030-325-DGA	IMPLEMENTATION WORKSHEET APPROACH STEM FOR IMPROVE PHYSICS LEARNING ACHIEVEMENT
			Author : Sujito, Hestiningtyas Y.P, Hari Wisodo, Sentot Kusairi
			Speaker :Sujito
			Afiliation : UNIVERSITAS NEGERI MALANG



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CATEGORY : SCIENCE EDUCATION (SE)

No	Id	Id User	Title
44	61	SE-010-069-ISA	SCIENCE LEARNING FOR STUDENTS WITH VISUALLY IMPAIRED: A LITERATURE REVIEW
			Author : Ediyanto, Norimune Kawai
			Speaker :Ediyanto
			Afiliation : HIROSHIMA UNIVERSITY
45	67	SE-024-161-DSA	Science-Domain-Integrated-with-Local-Potential-Based Learning Video as Interactive Media in the 21th Century Learning
			Author : JUMRIANI, Zuhdan Kun Prasetyo, Insih Wilujeng
			Speaker :JUMRIANI
			Afiliation : UNIVERSITAS NEGERI YOGYAKARTA
46	96	SE-039-228-DGA	The Identification Problem-Solving Abilities Based on Gender: Implementation Teaching Science Trough Guided Discovery Model's in Bangkalan District
			Author : Yunin Hidayati, Irsad Rosidi, Wiwin Puspita Hadi
			Speaker :Yunin Hidayati,Wiwin Puspita Hadi
			Afiliation : PROGRAM STUDI PENDIDIKAN IPA, UNIVERSITAS TRUNOJOYO MADURA
47	111	SE-032-197-DSA	The Study of Problem Solving Skills of Junior High School Students on Natural Science Lesson based on Levels of School
			Author : Fitriana NurAstuti, Suranto, and Muhammad Masykuri
			Speaker : Fitriana NurAstuti
			Afiliation : UNIVERSITAS SEBELAS MARET
48	132	SE-030-193-DSA	Improving Cognitive Learning Outcomes through Science Learning Video Integrated with Local Potency
			Author : Sofyan Dwi Nugroho, Insih Wilujeng
			Speaker :Sofyan Dwi Nugroho
			Afiliation : UNIVERSITAS NEGERI YOGYAKARTA
49	138	SE-037-221-DSA	Students' Energy Awareness Profile of High, Mid, and Low Levels Junior High School Student in Sragen
			Author : Wahyu Adhi Nugroho, Sajidan, Maridi
			Speaker :Wahyu Adhi Nugroho
			Afiliation : UNIVERSITAS SEBELAS MARET
50	147	SE-035-214-DSA	Analysis of Items Using The Assessment Instrument Based on The Structure of Observed Learning Outcome About Buffer
			Author : Ahmad Nasrulloh



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No	Id	Id User	Title
			Speaker :Ahmad Nasrulloh
			Afiliation : UNS
51	155	SE-041-232-DSA	The Profile of Students' Scientific Inquiry Literacy Based on Scientific Inquiry Literacy Test (ScInqLiT)
			Author : D K Innatesari, S Sajidan, and S Sukarmin
			Speaker : D K Innatesari
			Afiliation : UNIVERSITAS SEBELAS MARET
52	221	SE-045-322-DGA	Development Of Practicum Instructions For Junior High School Students: Formalin Test Using Natural Indicators
			Author : Nanang Rahman
			Speaker :Nanang Rahman
			Afiliation : UNIVERSITAS MUHAMMADIYAH MATARAM

Malang, 11 Desember 2018

Prof. Dr. Toto Nusantara, M.Si
Chairman