STAFF HANDBOOK



| Name | Prof. Dr. Erman, M.Pd. | | | |
|---|--|--|-----------|-------------------------------------|
| Position | Lecturer at Science Education, Universitas Negeri Surabaya (UNESA) | | | |
| | Degree | University | | Year |
| Academic Career | Bachelor Degree | Chemical Educati Ujung Pandang | ion, IKIP | Graduated 1994 |
| | Master Degree | Chemical Educati Malang | ion, IKIP | Graduated 1998 |
| | Doctoral Degree | Natural Science Education, UPI Bandung | | Graduated 2012 |
| | Position | Employe | ľ | Period |
| Employment | Lecturer | Universitas Negeri Surabaya – Indonesia | | 1991-Now |
| | Title | Funder | Year | Amount of Financing (million) |
| | Optimizing Student Science Process Skills for Science Learning based on Blended Learning | Penelitian Kompetitif Dasar FMIPA | 2022 | 20 |
| Research and Development Project Over the | Strategy of scientific argumentation of college student to explain focal issues in a connection with socio-scientific issues | Penelitian Kompetitif Kolaborasi FMIPA | 2022 | 60 |
| Last 5 Years | Characteristics of Student Chemical Literacy in Biological Systems: Identifying Chemical Aspects to Explain Phenomena at the Cell Level | Penelitian Dasar LPPM | 2022 | 50 |
| | An intensive scaffolding in addressing macroscopic socio-scientific issues to help college students learning science at microscopic level | Penelitian PNBP(Penelitian Kolaboratif Internasional | 2021 | 75 |

| | | (ASIIN)) | | |
|--|--|--|---|--|
| | Student mental models on thermodynamics material: guided inquiry perspective | Penelitian PNBP(Penelitian Kebijakan FMIPA) | 2021 | 20 |
| | Development of the Chancellor's Regulation regarding Unesa's symbols and Attributes as well as the Board of Trustees' Regulations Regarding Interorganizational Work Procedures of Unesa PTNBH | Penelitian PNBP(Penelitian Kebijakan Strategis Univ (PTNBH)) | 2021 | 50 |
| | Effect of technological, pedagogical, and content knowledge mastery of MIPA teacher candidates on self-efficacy for teaching during the Covid-19 pandemic | Penelitian Kebijakan FMIPA | 2020 | 12 |
| | Spiritual practice-based learning Dzikrulloh "Silent Cipto Meditation" to Build a Strong Body Immune System, On the Topic of Cell Health in Life Course at the Cell Level | Penelitian Kebijakan FMIPA | 2020 | 12 |
| | Learning Form Home (LFH) with the Discussion method via Whatsapp Group (WAG) to Train Students' Questioning Ability | Penelitian Kebijakan FMIPA | 2020 | 12 |
| | Deep learning of superior and nonsuperior students of the Unesa Science Education study program | Penelitian Kebijakan FMIPA | 2019 | 10 |
| | Science communication in various media in Indonesia is viewed from the ability of | PNBP Pascasarjana | 2018 | 50 |
| | scientific thinking and language of community | Unesa | | |
| Community Service Over The Last 5 | scientific thinking and language of community Title | Unesa Funder | Year | Amount of Financing (million) |
| Community Service Over The Last 5 Years | scientific thinking and language of community Title Differentiated Learning Design Training According to the Independent Curriculum Framework for Science Teachers | Unesa Funder PKM Kebijakan FMIPA | Year 2022 | Amount of Financing (million) 10 |
| Community Service Over The Last 5 Years | scientific thinking and language of community Title Differentiated Learning Design Training According to the Independent Curriculum Framework for Science Teachers Blended Learning Training with a Scientific Approach for Science Learning for Middle School Teachers in Gresik Regency | Unesa Funder PKM Kebijakan FMIPA PKM Kebijakan FMIPA | Year 2022 2021 | Amount of Financing (million) 10 10 |
| Community Service Over The Last 5 Years | scientific thinking and language of community Title Differentiated Learning Design Training According to the Independent Curriculum Framework for Science Teachers Blended Learning Training with a Scientific Approach for Science Learning for Middle School Teachers in Gresik Regency Public Education about the Benefits of Wearing Cloth Masks for Handling Covid-19 | Unesa Funder PKM Kebijakan FMIPA PKM Kebijakan FMIPA PKM Kebijakan FMIPA | Year 2022 2021 2020 | Amount of Financing (million) 10 10 7 |
| Community Service Over The Last 5 Years | scientific thinking and language of community Title Differentiated Learning Design Training According to the Independent Curriculum Framework for Science Teachers Blended Learning Training with a Scientific Approach for Science Learning for Middle School Teachers in Gresik Regency Public Education about the Benefits of Wearing Cloth Masks for Handling Covid-19 Assistance in the Development of National Standardized Multiple Choice Questions for Science Teachers at Middle Schools in Lamongan Regency | Unesa Funder PKM Kebijakan FMIPA PKM Kebijakan FMIPA PKM Kebijakan FMIPA PNBP FMIPA Unesa | Year 2022 2021 2020 2020 2019 | Amount of Financing (million) 10 10 7 7 7,5 |

| | Workshop on Assistance in Making Student Worksheets (LKS) Baqi Discovery Models for Science Teachers in East Lombok Regency | PNBP Pascasarjana | 2018 | 20 |
|--|--|--|-----------|------------|
| | Assistance for Science Teachers in Kediri Regency in Making Authentic Predictive Assessment Instruments for Students' Science Literacy through Science Learning | PNBP FMIPA | 2018 | 7,5 |
| | Title | Partner | 1 | Year |
| Industry Collaborations Over the Last 5 Years | Reviewer in national acredited Journal | | | Since 2018 |
| | Teacher trainer officer of East Java | USAID Prioritas | | 2015-2017 |
| | Reviewer of Journal of Chemical Education | American Chemical Society Publisher | | 2019 |
| | Reviewer of International Journal of Instruction | | | 2020 |
| | Reviewer of Instructional Studies | Taylor & Francis Pu | ıblisher) | 2018 |
| | Reviewer of Jurnal Pendidikan IPA Indonesia | | | 2020 |
| | Title | Patent ID | | Year |
| | Model scaffolding pembelajaran IPA berbasis socio-scientific issues | | | 2021 |
| Patents and Property Right | Model CTBL (Critical Thinking Blended Learning) Untuk Meningkatkan Keterampilan Berpikir Kritis Siswa Dalam Pembelajaran IPA Di SMP | 000190409 | | 2020 |
| | Bahan Ajar Siswa Berbasis Edmodo Pada Materi Suhu Dan Kalor Kelas VII SMP/MTs | 000190577 | | 2020 |
| Important Publications | 1. Dewi, A. I. K, Suyono, S., & Erman, E. (2023). Effectiveness of Socioscientific Issues (SSI) Based Learning to Improve Argumentation Skills, Jurnal Penelitian | | | |
| Over the Last 5 | Pendidikan IPA, 9(1), 279–283. https://doi.org/10.29303/jppipa.v9i1.2866 | | | |
| Years | Muawana, A., & Erman, E. (2023). Identifikasi Miskonsepsi Dalam Materi Sistem Pernapasan Pada Siswa Smp. Pensa: E-Jurnal Pendidikan Sains, 11(1), 1- 7. Retrieved from https://ejournal.unesa.ac.id/index.php/pensa/article/view/46235 Nur Wakhidah & Erman Erman (2022) Examining environmental education | | | |
| | content on Indonesian Islamic religious curriculum and its implementation in life, Cogent Education, 9:1, DOI: 10.1080/2331186X.2022.2034244 | | | |
| | Erman, B. Pare, E. Susiyawati, Martini, & H. Subekti. 2021. Re-examining classical issue: Integrating cognitive processes in scientific-5M approach to le science in Indonesia. Vol 15 No.4, pp 871-888. The Asia Pacific Educate Researcher, Early View (Springer Nature). A. Sholahuddin, E. Susilowati, B.K. Prahani, & Erman. 2021. Using cognitive style-based learning strategy to improve students' environment knowledge and scientific literacy. Vol 14 (4), pp 791-808. International Journal Instruction N. Suprapto, Sukarmin, R.P. Puspitawati, Erman, D. Savitri, C.H. K Mubarok. 2021. Research trend technological pedagogical content knowle (TPACK) through bibliometric analysis (2015-2019). Vol 10(4), pp 1375-13: International Journal of Evaluation and Research in Education. | | | |

| | inquiry learning packages to improving students' critical thinking skills. Journal for the Education of Gifted Young Scientist, Vol 9(3), pp. 223-232 | | | |
|-----------------|---|-------------------------------------|---------------|--|
| | 8. E. Erman, L. Liliasari, Maelita Ramdani, N. Wakhidah. 2020. Addressing macroscopic issues: Helping students form association between biochemistry and sports and aiding their scientific literacy (International Journal of Science and Content of Science). | | | |
| | Mathematics Education (IJSME) 18(5). 9. S. Wahvuni, Erman , S. Sadika, B. | Iatmiko. 2020 . Edmodo-based | interactive | |
| | teaching materials as an alternative media for science learning to improve | | | |
| | critical thinking skills of junior high school student. iJIM, 14(9), pp. 166-181. 10. E. Erman, D A P Sari. 2019. Science in A Black Box: Can Teachers Address Science from Socio-Scientific Issues? (Journal of Physics) | | | |
| | | | | |
| | 11. S. Wahyuni, I.G.M. Sanjaya, Erman, & B. Jatmiko. 2019. Edmodo-based blended learning model as an alternative of science learning to motivate dan improve junior high school students' scientific thinking skills. IJET 14(7) pp. 98- | | | |
| | 109. | | | |
| | 12. D. Koranto, M.Madlazim, & E. Erman. 2019. Project based laboratory learning as an alternative learning model to improve science process skills and creativity of physic teacher candidate (Journal of Physics). | | | |
| | 13. E. Erman, N. Wakhidah. 2019. Predicting teachers' familiarity on high order thinking skills through common keywords in science learning: A preliminary | | | |
| | | | | |
| | study (EAI EBSCO) 11. T Santoso, L Yuanita and E Erman. 2018 . The role of student's critical ask question in developing student's critical thinking skills (Journal of Physics) | | | |
| | | | | |
| | 12. E. Erman , W. Wasis, E. Susantini, & U. Azizah. 2018. Scientific thinking skills: why junior high school science teachers cannot use discovery and inquiry models in classroom (Atlantis Press) | | | |
| | 13. Erman. 2017. Factors contributing to students' misconceptions in learning | | | |
| A ativitian in | covalent bonds, Journal of Research in S | Science Teaching/JRST, 54(4), 2 | 017 Deried | |
| Specialist | Perkumpulan Pendidik IPA Indonesia | Kole | Periou | |
| Bodies Over the | (PPII) | Member | 2010-Now | |
| Last 5 Years | Postgraduate student's response to the | | | |
| | textbook draft of local wisdom-based learning of science: A preliminary study | Speaker | 2021 | |
| | Dec. 3-4, 2021, Lombok Indonesia | | | |
| | 2Examining students' learning in connecting to biochemistry ideas to address socio-scientific issues in virtual classroom, Nov 6, 2021. Yogyakarta Indonesia | Speaker | 2021 | |
| | 3STEM-based learning of science: Challenges for Indonesian educational systems, Sept 30, 2021. (Bandung, Indonesia) | Plenary Speaker | 2021 | |
| | Addressing socio-scientific issues for sustainable development: A learning strategy and predominant research in science education, Sept. 4, 2021, (Surabaya Indonesia) | Keynote Speaker | 2021 | |
| | Reflection online learning during | Speaker | 2021 | |

| Malaysia) | | |
|--|-----------------|------|
| Writing textbook: Scaffolding Pembelajaran Berbasis Socio-scientific issues: Konsep dan Implementasi | | 2021 |
| Writing textbook: Pembelajaran sains berbasis kearifan local | | 2021 |
| Writing textbook: Model Critical thinking blended learning (CTBL) | | 2020 |
| Designing a quality question to improve students' high order thinking skills in chemistry classroom (Mumbai, India) | Keynote Speaker | 2020 |
| Predicting Teachers' Familiarity on High Order Thinking Skills Through Common Keywords in Science Learning: A Preliminary Study | Speaker | 2019 |