

Prof. Dr. Wasis, M.Si.

Position	***Assessment and Instrument of Learning, Physics in School, and Nuclear Physics Lecturer in Physics Education Study Program***		
	Professor in Assessment in Science (Physics) Learning		
	Degree	***University***	***Year***
Academic career	**Bachelor** at Physics Education	IKIP Surabaya - Indonesia	1987-1992
	Master at Physics	Universitas Gajah Mada-Indonesia	1986-1999
	Doctoral at Educational Research and Evaluation	Universitas Negeri Yogyakarta - Indonesia	2004-2009
	Government Employer at Ministry of Research, Technology and Higher Education as a Lecturer Institution (now Ministry of Education and Culture)	Universitas Negeri Surabaya - Indonesia	1993-now
Employment	***Position***	***Employer***	***Period***
	Lecturer on Physics Education Study Program	Universitas Negeri Surabaya - Indonesia	2014-2018
	Quality Assurance Unit Team	Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya- Indonesia	2016-2018
	Open Journal System (OJS) Developer Team	Universitas Negeri Surabaya (Unesa) -Indonesia	2017-2018
	Publication Acceleration Team	Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia	2018
	Secretary of the Center for Mathematics and Science Publication Study (PKPMS)	Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia	2018
	Tutor	Indonesian Journal Volunteer (RJI) - Indonesia	2018-Now
	Assessor of National Journal Accreditation (Arjuna)	Ministry of Research Technology and Higher Education - Indonesia	2019-Now
	Head of Journal Management Team	Universitas Negeri Surabaya - Indonesia	2019-Now
	Conference Management Team	Universitas Negeri Surabaya - Indonesia	2019-Now
	Scientific Publication Team	Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia	2019-Now

	Assistant Professor in Modern Physics , Statistical Physics, and Quantum Physics	Universitas Negeri Surabaya - Indonesia	2019-Now
Research and development projects over the last 5 years	**2015:** Analysis of Physics Teacher Competency Test Result in Surabaya – Dirjen Guru, Kemendikbud Project - IDR 10,000,000 (research member) **2015:** Development of KKNI-Oriented Curriculum for Educational Subjects in Undergraduate Educational Program of Faculty of Mathematics and Natural Sciences Unesa to Facilitate Students in Accordance with the Needs of the 21st Century – Penelitian Unggulan Perguruan Tinggi - IDR 10,000,000 (research member) **2016:** Analysis of Monitoring Result and Evaluation of Targeted Teacher in the Implementation of K-13 – Direktorat Pembinaan SMA Project - IDR 10,000,000 (research chairman) **2017:** Development of Graduates Competency Test Models for MIPA Educational Program Oriented to the Needs of the XXI Century and KKNI- Penelitian Unggulan Perguruan Tinggi - IDR 10,000,000 (research member)		
Patents and proprietary rights	**Title**		**Year**
	Nurita Apridiana Lestari, Utama Alan Deta, Meta Yantidewi, Measurement System in Physics (HaKI EC00201976376)		19 August 2019 – 19 August 2069

Important publications over the last 5 years	Title	Year
	F Humairoh dan **Wasis**. 2015. Pengembangan E-Book Interaktif Berbasis Salingtemas (Sains, Lingkungan, Teknologi, Masyarakat) pada Materi Fluida Dinamis untuk Meningkatkan Pemahaman Konsep Siswa dan Penerapannya. *Inovasi Pendidikan Fisika* **4** (2) 69-75. https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/12302/11367	2015
	U Wachidah, **Wasis**. 2015. Penerapan Strategi Mind mapping Untuk Meningkatkan Keterampilan Metakognitif Siswa Pada Materi Alat-Alat Optik Kelas X SMA Negeri 1 Krembung. *Inovasi Pendidikan Fisika* **4** (2) 69-75. https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/12296/11361	2015
	I Aisyah, **Wasis**. 2015. Penerapan Model Pembelajaran Inkuiri untuk Melatihkan Kemampuan Argumentasi Ilmiah Siswa pada Materi Kalor di SMAN 1 Pacet. *Inovasi Pendidikan Fisika* **4** (2) 83-87.	2015
	R P Saputro, **Wasis,** Koestiari T. 2015. Pengembangan Perangkat Pembelajaran Fisika Model Discovery Learning untuk Meningkatkan Hasil Belajar Dan Keterampilan Berpikir Kreatif. *Jurnal Penelitian Pendidikan Sains* 5 (2) 693-702 https://journal.unesa.ac.id/index.php/jpps/article/view/475/328	2015
	Atmoko P M S, **Wasis**. 2015. Penerapan Pembelajaran Guided Discovery Dengan Metode Demonstrasi Menggunakan PhET Simulation Dalam Menurunkan Miskonsepsi Siswa Pada Materi Listrik Dinamis di Kelas X SMAN 1 Tegaldlimo, Banyuwangi. *Inovasi Pendidikan Fisika* 4 (3) 122-126 https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/13319/12226	2015
	A F Hendratmoko, **Wasis**, E Susantini. 2016. Development Of Physics Learning Materials Based On Guided Inquiry Model Integrated With Virtual Laboratory To Facilitate Student's Scientific Argumentation Ability. *Lensa: Jurnal Kependidikan Fisika* 4(1) 1-12. DOI: https://doi.org/10.33394/j-	2016

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	Khaeruddin, M Nur and **Wasis**. 2016. Critical Thinking Skills Profile of High School Students In Learning Science-Physics. In: *3rd International Conference On Research, Implementation And Education Of Mathematics And Science (3rd ICRIEMS)*, 16-17 May 2016, Universitas Negeri Surabaya http://eprints.unm.ac.id/id/eprint/8707	2016
	Khaeruddin, M Nur and **Wasis**. 2016. Fostering Critical Thinking Skill through Optimizing Science Process Skills in Physics Learning. *IOSR Journal of Research & Method in Education (IOSR-JRME)*. 6 (6) 103-108. http://eprints.unm.ac.id/8560/1/2%20.IOSR.pdf	2016
	Wasis. 2016. Higher Order Thinking Skills (Hots): Konsep Dan Implementasinya. *Prosiding Seminar Nasional Pusat Kajian Pendidikan Sains dan Matematika Tahun 2016* xiv-xviii http://www.litpam.org/index.php/hots/article/view/3/3	2016
	Pujianto, Prabowo, and **Wasis.** 2016. Pengembangan Modul Pembelajaran IPA Berbantuan Media Animasi Sebagai Komponen Pendukung Rintisan Sekolah Siaga Bencana Gunung Api di Sekolah Dasar. In: *Seminar Nasional 2016, 26-27 April 2016, UNY*. 313-322 http://eprints.uny.ac.id/id/eprint/40012	2016
	I Wicaksono, **Wasis**, Madladzim. 2017. The Effectiveness of Virtual Science Teaching models (VS-TM) to Improve Student Scientific Creativity and Concept Mastery On Senior High School Physics Subject. *Journal of BalticScience Education* 16 (4) 549-561. http://oaji.net/articles/2017/987-1503905158.pdf	2017
	MA Thohir, **Wasis**, WW Sugimin. 2017. Peningkatan Keterampilan Berpikir Kritis melalui Pembelajaran Metode Penemuan Terbimbing dalam Upaya Remediasi Miskonsepsi Materi Listrik Dinamis. Jurnal Penelitian Pendidikan Sains 1 (2), 62-67. https://journal.unesa.ac.id/index.php/jpps/article/view/392	2017
	S Prayogi, L Yuanita, **Wasis**. 2017. Critical-Inquiry-Based-Learning: Model of Learning to Promote Critical Thinking Ability of Pre-service Teachers. Open Conference Systems, MISEIC 2017 http://miseic.conference.unesa.ac.id/ocs/index.php/ocs/miseic2017/paper/view/34	2017
	BF Apriliyani, W Widodo, ZAI Supardi. 2017. Pengembangan Perangkat Pembelajaran Fisika Berorientasi Model Pembelajaran Kooperatif Think Pair Square Dalam Meningkatkan Keterampilan Sosial dan Ketuntasan Belajar Siswa. Jurnal Penelitian Pendidikan Sains 4 (2), 579-590 https://journal.unesa.ac.id/index.php/jpps/article/view/466	2017
	B Bahtiar, **Wasis**. 2017. A Guided Inquiry Approach-Based Physics Practice Model To Improve Students'critical Thinking Skill. *International Conference On Education (IECO) Proceeding* 2016 96-108	2017
	T Sunarti, Madlazim, **Wasis**. 2017. Developing Worksheets to Civilize Scientific Literacy for Students of Physics Teacher Candidates. *Proceeding the International Conference on Education Innovation* 1 (1), 910-916. http://proceeding.icei.conference.unesa.ac.id/index.php/articel/article/view/190	2017
	T Sunarti, **Wasis**, Madlazim, Suyidno and B K Prahani. 2018. The effectiveness of CPI model to improve positive attitude toward science (PATS) for pre-service physics teacher. Journal of Physics: Conference Series 997 012013. DOI : https://doi.org/10.1088/1742-6596/997/1/012013	2018
	E Purwaningsih, Suyatno, **Wasis**, BK Prahani. 2018. The effectiveness of comcorels model to improve skills of creating physics lesson plan (CPLP) for pre-service physics teacher. Journal Physics: Conference Series 997 012022.	2018

	DOI: https://doi.org/10.1088/1742-6596/997/1/012022	
	I Limatahu, **Wasis**, S Sutoyo, B K Prahani. 2018. Development Of Ccdsr Teaching Model To Improve Science Process Skills Of Pre-Service Physics Teachers. Journal of Baltic Science Education 17 (5) 812-827. http://www.scientiasocialis.lt/jbse/files/pdf/vol17/812-827.Limatahu_JBSE_Vol.17_No.5.pdf	2018
	Armansyah, M Ibrahim, **Wasis**. 2018. Pengembangan Perangkat Pembelajaran Fisika Menggunakan Model Siklus Belajar 5E untuk Melatihkan Kemampuan Berpikir Kritis. Prisma Sains: Jurnal Pengkajian Ilmu dan Pembelajaran Matematika dan IPA IKIP Mataram 6 (2) 56-65. DOI: https://doi.org/10.33394/j-ps.v6i2.967	2018
	S Prayogi, L Yuanita, **Wasis**. 2018. Critical Inquiry Based Learning: A Model of Learning to Promote Critical Thinking Among Prospective Teachers of Physics. Journal of Turkish Science Education 15 (1) 43-56. DOI: https://doi.org/10.12973/tused.10220a	2018
	Erman, **Wasis**, E Susantini, U Azizah. 2018. Scientific Thinking Skills: Why Junior High School Science Teachers Cannot Use Discovery and Inquiry Models in Classroom. *Proceedings of The International Conference on Science and Technology (ICST 2018)* DOI: https://doi.org/10.2991/icst-18.2018.43	2018
	M N R Jauhariyah, **Wasis**. 2018. Students' Reasoning on Physics Related to Visual Representation Case Study of College Students. *Proceedings of The International Conference on Science and Technology (ICST 2018).* DOI: https://doi.org/10.2991/icst-18.2018.182	2018
	B Yonata, **Wasis**, R Sulaiman, E Sudibyo, M S Prastiwi. 2018. Profile of The Academic Competency of Chemistry Education Students. *Proceedings of The International Conference on Science and Technology (ICST 2018).*DOI: https://doi.org/10.2991/icst-18.2018.40	2018
	Wasis, R Sulaiman, E Sudibyo, B Yonata, M S Prastiwi. 2018. The Assessment Model of Undergraduate Mathematics and Science Education Competency Based on Indonesian National Qualification Framework and 21st Century Demand. *Proceedings of The International Conference on Science and Technology (ICST 2018).*DOI: https://doi.org/10.2991/miseic-18.2018.29	2018
	T Sunarti, Madlazim, **Wasis**, Suyidno. 2018. Keterlaksanaan Literacy Learning Model (LLM) Dalam Melatihkan Literasi Sains Dan Sikap Positif Terhadap Sains Mahasiswa Calon Guru Fisika. *Prosiding Seminar Nasional Pendidikan, Banjarmasin 24 Maret 2018.* http://snpfmotogpe.ulm.ac.id/proceeding/index.php/snpf/article/view/21/22	2018
	Julianto, **Wasis**, R Agustini. 2018. Profil Sikap Terhadap Sains, Keterampilan Proses Sains, Dan Kreativitas Mahasiswa Jurusan PGSD FIP UNESA di Mata Kuliah Konsep Dasar IPA. *Prosiding Seminar Nasional Pendidikan, Banjarmasin 24 Maret 2018.* http://snpfmotogpe.ulm.ac.id/proceeding/index.php/snpf/article/view/9	2018
	R Y D Primayudha, S Poedjiastoeti, **Wasis**. 2018. Development of Science Learning with Spiritual Approach to Improve the Understanding of Science Concepts in Muslim Boarding School. *Advances in Social Science, Education and Humanities Research (ASSEHR)* 125 271-273.DOI: https://doi.org/10.2991/icigr-17.2018.65	2018
	N Erlina, E Susantini, **Wasis**, I Wicaksono, P Pandiangan. 2018. THE Effectiveness of Evidence-Based Reasoning in Inquiry-Based Physics Teaching To Increase Students' Scientific Reasoning. *Journal of Baltic Science Education* 17 (6) 972-985. DOI: https://doi.org/10.33225/jbse/18.17.972	2018

	Wasis, Y S Rahayu, Suyono, D Novita. 2018. Characterizing Assessment Instrument of Higher Order Thinking Skills and Scientific Literacy. *The 11th International Conference on Educational Research, Faculty of Education, Khon Kaen University, Thailand*. 601-606. http://repository.unesa.ac.id/sysop/files/2019-06-18_similarity15%20wasis.pdf	2018
	Julianto, **Wasis**, R Agustini. 2018. Profil Sikap Terhadap Sains, Keterampilan Proses Sains, Dan Kreativitas Mahasiswa Jurusan PGSD FIP UNESA di Mata Kuliah Konsep Dasar IPA. *EduStream Jurnal Pendidikan Dasar* 2 (1) 10-15. https://journal.unesa.ac.id/index.php/jpd/article/view/6260/3177	2018
	T Ansori, **Wasis**, H Nasrudin. 2019. Development of Physics Learning Instrument with Model Project Based Learning to Train Students' Critical Thinking Skills. International Journal of Multicultural and Multireligious Understanding 6 (5) 74-79. https://ijmmu.com/index.php/ijmmu/article/view/1046	2019
	M Hunaidah, E Susantini, **Wasis**. 2019. Validitas Model Pembelajaran CinQASE untuk Meningkatkan Keterampilan Individual Critical Thinking (INCT) dan Collaborative Critical Thinking (CCT). *Prosiding Seminar Nasional Fisika PPs Universitas Negeri Makassar* 1 1-4. https://ojs.unm.ac.id/semnasfisika/article/view/8680	2019
	I Limatahu, S Sutoyo, **Wasis**, B K Prahani and J Alfin. 2019. Improving science process skills learning ability of physics teacher candidates through the implementation of CCDSR learning model. Journal of Physics: Conference Series 1171 012005. DOI: https://doi.org/10.1088/1742-6596/1171/1/012005	2019
	T Sunarti, W Wasis, M Madlazim and S Suyidno. 2020. Multidisciplinary, Interdisciplinary, and Transdisciplinary Approaches in Literacy Learning Model. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012054	2020
	A T Kusumawati, Wasis, I G M Sanjaya and Abd. Kholiq. 2020. Elite (E-Book Literacy) for Junior High School Student's Scientific Literacy in Solar System Material. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012070	2020
	Kusuma, A.E., Wasis, Susantini, E., and Rusmansyah. 2020. Physics innovative learning: RODE learning model to train student communication skill. Journal of Physics: Conference Series, Volume 1422, Issue 1, 9 January 2020, Article number 012016. https://iopscience.iop.org/article/10.1088/1742-6596/1422/1/012016	2020

Activities in specialist bodies	***Organization***	***Position***	***Period***
	Physical Society of Indonesia (PSI)	Member	2018 – Now
	Relawan Jurnal Indonnesia	Member	2018 – Now
	Perkumpulan Pendidik IPA Indonesia (PPII)	Public Relation and Cooperation Team	2019 – Now