



**Prof. Dr. Wasis, M.Si.**

Position	<i>Assessment and Instrument of Learning, Physics in School, and Nuclear Physics Lecturer in Physics Education Study Program</i>		
	Professor in Assessment in Science (Physics) Learning		
	<i>Degree</i>	<i>University</i>	<i>Year</i>
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	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	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	<p><b>2015:</b> Analysis of Physics Teacher Competency Test Result in Surabaya – Dirjen Guru, Kemendikbud Project - IDR 10,000,000 (research member)</p> <p><b>2015:</b> 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)</p> <p><b>2016:</b> 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)</p> <p><b>2017:</b> 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)</p>		
	Patents and proprietary rights	<b>Title</b>	<b>Year</b>
		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	<b>Title</b>	<b>Year</b>
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. <i>Inovasi Pendidikan Fisika 4</i> (2) 69-75. <a href="https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/12302/11367">https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/12302/11367</a>		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. <i>Inovasi Pendidikan Fisika 4</i> (2) 69-75. <a href="https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/12296/11361">https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/12296/11361</a>		2015	
I Aisyah, Wasis. 2015. Penerapan Model Pembelajaran Inkuiri untuk Melatihkan Kemampuan Argumentasi Ilmiah Siswa pada Materi Kalor di SMAN 1 Pacet. <i>Inovasi Pendidikan Fisika 4</i> (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. <i>Jurnal Penelitian Pendidikan Sains 5</i> (2) 693-702 <a href="https://journal.unesa.ac.id/index.php/jpps/article/view/475/328">https://journal.unesa.ac.id/index.php/jpps/article/view/475/328</a>		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. <i>Inovasi Pendidikan Fisika 4</i> (3) 122-126 <a href="https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/13319/12226">https://jurnalmahasiswa.unesa.ac.id/index.php/inovasi-pendidikan-fisika/article/view/13319/12226</a>		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. <i>Lensa: Jurnal Kependidikan Fisika 4</i> (1) 1-12. DOI: <a href="https://doi.org/10.33394/j-">https://doi.org/10.33394/j-</a>	2016		

<a href="#">lkf.v4i1.29</a>	
Khaeruddin, M Nur and <b>Wasis</b> . 2016. Critical Thinking Skills Profile of High School Students In Learning Science-Physics. In: <i>3rd International Conference On Research, Implementation And Education Of Mathematics And Science (3rd ICRIEMS)</i> , 16-17 May 2016, Universitas Negeri Surabaya <a href="http://eprints.unm.ac.id/id/eprint/8707">http://eprints.unm.ac.id/id/eprint/8707</a>	2016
Khaeruddin, M Nur and <b>Wasis</b> . 2016. Fostering Critical Thinking Skill through Optimizing Science Process Skills in Physics Learning. <i>IOSR Journal of Research &amp; Method in Education (IOSR-JRME)</i> . 6 (6) 103-108. <a href="http://eprints.unm.ac.id/8560/1/2%20IOSR.pdf">http://eprints.unm.ac.id/8560/1/2%20IOSR.pdf</a>	2016
<b>Wasis</b> . 2016. Higher Order Thinking Skills (Hots): Konsep Dan Implementasinya. <i>Prosiding Seminar Nasional Pusat Kajian Pendidikan Sains dan Matematika Tahun 2016 xiv-xviii</i> <a href="http://www.litpam.org/index.php/hots/article/view/3/3">http://www.litpam.org/index.php/hots/article/view/3/3</a>	2016
Pujianto, Prabowo, and <b>Wasis</b> . 2016. Pengembangan Modul Pembelajaran IPA Berbantuan Media Animasi Sebagai Komponen Pendukung Rintisan Sekolah Siaga Bencana Gunung Api di Sekolah Dasar. In: <i>Seminar Nasional 2016, 26-27 April 2016, UNY</i> . 313-322 <a href="http://eprints.uny.ac.id/id/eprint/40012">http://eprints.uny.ac.id/id/eprint/40012</a>	2016
I Wicaksono, <b>Wasis</b> , Madlazim. 2017. The Effectiveness of Virtual Science Teaching models (VS-TM) to Improve Student Scientific Creativity and Concept Mastery On Senior High School Physics Subject. <i>Journal of Baltic Science Education</i> 16 (4) 549-561. <a href="http://oaji.net/articles/2017/987-1503905158.pdf">http://oaji.net/articles/2017/987-1503905158.pdf</a>	2017
MA Thohir, <b>Wasis</b> , WW Sugimin. 2017. Peningkatan Keterampilan Berpikir Kritis melalui Pembelajaran Metode Penemuan Terbimbing dalam Upaya Remediasi Miskonsepsi Materi Listrik Dinamis. <i>Jurnal Penelitian Pendidikan Sains</i> 1 (2), 62-67. <a href="https://journal.unesa.ac.id/index.php/jpps/article/view/392">https://journal.unesa.ac.id/index.php/jpps/article/view/392</a>	2017
S Prayogi, L Yuanita, <b>Wasis</b> . 2017. Critical-Inquiry-Based-Learning: Model of Learning to Promote Critical Thinking Ability of Pre-service Teachers. Open Conference Systems, MISEIC 2017 <a href="http://miseic.conference.unesa.ac.id/ocs/index.php/ocs/miseic2017/paper/view/34">http://miseic.conference.unesa.ac.id/ocs/index.php/ocs/miseic2017/paper/view/34</a>	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. <i>Jurnal Penelitian Pendidikan Sains</i> 4 (2), 579-590 <a href="https://journal.unesa.ac.id/index.php/jpps/article/view/466">https://journal.unesa.ac.id/index.php/jpps/article/view/466</a>	2017
B Bahtiar, <b>Wasis</b> . 2017. A Guided Inquiry Approach-Based Physics Practice Model To Improve Students' critical Thinking Skill. <i>International Conference On Education (IECO) Proceeding 2016</i> 96-108	2017
T Sunarti, Madlazim, <b>Wasis</b> . 2017. Developing Worksheets to Civilize Scientific Literacy for Students of Physics Teacher Candidates. <i>Proceeding the International Conference on Education Innovation</i> 1 (1), 910-916. <a href="http://proceeding.icei.conference.unesa.ac.id/index.php/articel/article/view/190">http://proceeding.icei.conference.unesa.ac.id/index.php/articel/article/view/190</a>	2017
T Sunarti, <b>Wasis</b> , Madlazim, Suyidno and B K Prahani. 2018. The effectiveness of CPI model to improve positive attitude toward science (PATS) for pre-service physics teacher. <i>Journal of Physics: Conference Series</i> 997 012013. DOI : <a href="https://doi.org/10.1088/1742-6596/997/1/012013">https://doi.org/10.1088/1742-6596/997/1/012013</a>	2018
E Purwaningsih, Suyatno, <b>Wasis</b> , BK Prahani. 2018. The effectiveness of comcorels model to improve skills of creating physics lesson plan (CPLP) for pre-service physics teacher. <i>Journal Physics: Conference Series</i> 997 012022.	2018

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

	Instrument of Higher Order Thinking Skills and Scientific Literacy. <i>The 11<sup>th</sup> International Conference on Educational Research, Faculty of Education, Khon Kaen University, Thailand</i> . 601-606. <a href="http://repository.unesa.ac.id/sysop/files/2019-06-18_similarity15%20wasis.pdf">http://repository.unesa.ac.id/sysop/files/2019-06-18_similarity15%20wasis.pdf</a>			
	Julianto, <b>Wasis</b> , R Agustini. 2018. Profil Sikap Terhadap Sains, Keterampilan Proses Sains, Dan Kreativitas Mahasiswa Jurusan PGSD FIP UNESA di Mata Kuliah Konsep Dasar IPA. <i>EduStream Jurnal Pendidikan Dasar</i> 2 (1) 10-15. <a href="https://journal.unesa.ac.id/index.php/jpd/article/view/6260/3177">https://journal.unesa.ac.id/index.php/jpd/article/view/6260/3177</a>			2018
	T Ansori, <b>Wasis</b> , H Nasrudin. 2019. Development of Physics Learning Instrument with Model Project Based Learning to Train Students' Critical Thinking Skills. <i>International Journal of Multicultural and Multireligious Understanding</i> 6 (5) 74-79. <a href="https://ijmmu.com/index.php/ijmmu/article/view/1046">https://ijmmu.com/index.php/ijmmu/article/view/1046</a>			2019
	M Hunaidah, E Susantini, <b>Wasis</b> . 2019. Validitas Model Pembelajaran CinQASE untuk Meningkatkan Keterampilan Individual Critical Thinking (INCT) dan Collaborative Critical Thinking (CCT). <i>Prosiding Seminar Nasional Fisika PPs Universitas Negeri Makassar</i> 1 1-4. <a href="https://ojs.unm.ac.id/semnasfisika/article/view/8680">https://ojs.unm.ac.id/semnasfisika/article/view/8680</a>			2019
	I Limatahu, S Sutoyo, <b>Wasis</b> , B K Prahani and J Alfin. 2019. Improving science process skills learning ability of physics teacher candidates through the implementation of CCDSR learning model. <i>Journal of Physics: Conference Series</i> 1171 012005. DOI: <a href="https://doi.org/10.1088/1742-6596/1171/1/012005">https://doi.org/10.1088/1742-6596/1171/1/012005</a>			2019
<b>Activities in specialist bodies</b>	<b>Organization</b>	<b>Position</b>	<b>Period</b>	
	Physical Society of Indonesia (PSI)	Member	2018 – Now	
	Relawan Jurnal Indonesia	Member	2018 – Now	
	Perkumpulan Pendidik IPA Indonesia (PPII)	Public Relation and Cooperation Team	2019 – Now	