



**RAVTE**

Regional Association of Vocational  
and Technical Education in Asia

# RAVTE RESOURCES

## Curriculum Vitae



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### Education Background:

- 2004, PhD program, Applied Physics Tohoku University, Japan
- 1998, Master program, Physics Department, Institut Teknologi Bandung, Indonesia
- 1992, Bachelor program, Physics Education, Universitas Pendidikan Indonesia

### Expertise / Research Areas (identified by keywords):

- Materials physics
- Physics Education
- Transferable skills development
- ICT in teaching and learning

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## Engagement (networks):

- RAVTE (Regional Association for Vocational and Technical Education in Asia), executive board member.
- ADGVI (Asosiasi Dosen dan Guru Vokasi Indonesia), member.
- PAPTEKINDO (Parkumpulan Ahli Pendidikan Teknologi dan Kejuruan Indonesia), Advisor.
- HFI (Himpunan Fisika Indonesia), member.
- Japan Society of Applied Physics, member

## Publications:

1. **A. Setiawan**, H. J. Ko, S. K. Hong, Y. F. Chen, and T. Yao, *Study on MgO buffer in ZnO layers grown by plasma-assisted molecular beam epitaxy on Al<sub>2</sub>O<sub>3</sub>(0001)*, Thin Solid Films, 445- 2, 213(2003).
2. **Agus Setiawan**, Hang-JuKo, and Takafumi Yao, *Effects of MgO buffer annealing on structural quality of P-MBE ZnO layers on c-plane sapphire*, Material Science in Semiconductor Processing 6, 271-274 (2003)
3. **Agus Setiawan**, Zahra Vashaei, Meoung-Whan Cho, Hiroyuki Kato, Michihiro Sano, Kazuhiro Miyamoto, I. Yonenaga, Hang-JuKo, and Takafumi Yao, *Characteristic of dislocations in ZnO layers grown under different Zn/O flux ratios*, Journal of Applied Physics, Vol. 96, No.7, 3763-3768 (2004)
4. **Agus Setiawan**, Tsutomu Minegishi, Hiroki Goto, Chihiro Harada, Takuma Suzuki, Meoung-Whan Cho, and Takafumi Yao, *Role of buffer layers for defect reduction in P-MBE ZnO on c-sapphire*. Submitted to Journal of Vacuum Science and Technology B. (2005)
5. Takuma Suzuki, Hang-JuKo, **Agus Setiawan**, Jung-Jin Kim, KohSaitoh, Masami Terauchi, Takafumi Yao, *Polarity control of GaN epilayers grown on ZnO templates*, Material Science in Semiconductor Processing, 6, 519-521 (2003).
6. Hiroki Goto, Hisao Makino, **Agus Setiawan**, Takuma Suzuki, Chihiro Harada, Tsutomu Minegishi, Meoung-Whan Cho, Takafumi Yao, *Reduction of dislocation density and improvement of optical quality in ZnO layers by MgO-buffer annealing*, Current Applied Physics 4, 637-639 (2004).
7. Zahra Vashaei, Chihiro Harada, **Agus Setiawan**, Meoung-Whan Cho, Takafumi Yao, *Strutural Characterization of Ga-doped Mg<sub>x</sub>Zn<sub>1-x</sub>O layers on ZnO/ $\alpha$ -Al<sub>2</sub>O<sub>3</sub> template grown by MBE*, Current Applied Physics 4, 618-620 (2004).
8. Dong Cheol Oh, **Agus Setiawan**, Hisao Makino, Jun-Jin Kim, Hang-JuKo, Takafumi Yao, *Interface properties of ZnO/GaNheterojuntion studied by capacitance voltage technique*, Current Applied Physics 4, 625-629 (2004).
9. Takuma Suzuki, Hiroki Goto, Chihiro Harada, Tsutomu Minegishi, **Agus Setiawan**, Hang-JuKo, Meoung-Whan Cho, Takafumi Yao, Agus Setiawan, Hisao Makino, Jun-Jin Kim, Hang-JuKo, Takafumi Yao, *Relation between inter diffusion and polarity in MBE growth of GaN epilayer ZnO substrate*, Current Applied Physics 4, 643-646 (2004).
10. Wilson W. Wenas, **A. Setiawan**, and Jong HaiHoa. "Study on ZnO thin film grown by metalorganic chemical vapor deposition and its application to Cu(InGa)Se<sub>2</sub> solar cells". *Japan-Indonesia Joint Seminar on Photovoltaics*, Institute of Technology Bandung, Bandung, Indonesia, November 21, p.5-2-1 – 5-2-4. (1997)
11. Wilson W. Wenas, **Agus Setiawan**, F. Adriyanto, dan H. Sangian "Model mekanisme reaksi lapisan tipis ZnO yang ditumbuhkan dengan metoda metal organic chemical vapor deposition". *Simposium Fisika Nasional ke XVII dan AAPS Seminar on Physics of Materials*, Yogyakarta, Indonesia, 8-10 Desember 1988, p.57-60.
12. Wilson W. Wenas, **A. Setiawan**, F. Adriyanto, and H. Sangian, "High growth rate transparent conducting Zinc-Oxide thin films prepared by metalorganic chemical vapor deposition technique for device applications", *Conference on Optoelectronic and Microelectronic Materials and Devices*, Perth, Western Australia, December 14-18, 1998.
13. Hang JuKo, **Agus Setiawan**, Chihiro Harada, Takuma Suzuki, and Takafumi Yao, Doping of Acceptor impurities into ZnO, *2002 Proceeding of International Conference on Molecular Beam Epitaxy*, 15-20 Sept. 2002; Renaissance Pare 55 Hotel San Francisco, CA, 327-328.
14. **A. Setiawan**, S.K. Hong, and T.Yao, "Structural quality of ZnO layers grown by P-MBE on c-sapphire with and without MgO buffer", *Proceeding of International Conference 7<sup>th</sup> Quality in Research (QiR)*, University of Indonesia Jakarta, 4-5 Agustus 2004, EE-ED-01-1 – 5.
15. I. Hamidah, **A. Setiawan**, P.Arifin, M. Budiman, and M. Barmawi, "High Nitrogen concentration of GaN<sub>x</sub>As<sub>1-x</sub> films grown by metalorganic chemical vapor deposition", *Proceeding of International Conference 7<sup>th</sup> Quality in Research (QiR)*, Universitas of Indonesia Jakarta, 4-5 Agustus 2004, OE-OCIPRS-01-1 -4.

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16. Hamidah, A. Suhandi, **A. Setiawan**, P. Arifin, M. Budiman, and M. Barmawi, Metalorganic chemical vapor deposition of  $\text{GaN}_x\text{As}_{1-x}$  alloys using TMGa, DMHy, and TDMAAs, *International Seminar on Nanotechnology and Microstructure*, Hotel Salak, Bogor, 2005.
17. M.W.Cho, **A. Setiawan**, H.J.Ko, S.K.hong, and T.Yao, ZnO epitaxial layers grown on c-sapphire substrate with MgO buffer by plasma-assisted molecular beam epitaxy (P-MBE). *Semiconductor Science and Technology*, 20(4),(2005),S13-S21.
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19. Ishida A, Matsue K, Inoue Y, Fujiyasu H, Ko H J, **Setiawan A**, Kim J J, Makino H, Yao T Design and preparation of  $\text{AlN}/\text{GaN}$  quantum wells for quantum cascade laser applications. *Japanese Journal of Applied Physics*, PART 1,44(8),(2005),5918-5922.
20. **A. Setiawan**, I. Hamidah, S. Maryanto, S. Aisyah and T. Yao, *Dislocation in P-MBE Grown ZnO Layers Characterized by HRXRD and TEM*. Proceeding of the International Conference on Neutron and X-Ray Scattering 2007. American Institute of Physics Conference Proceedings.989. Serpong and Bandung Indonesia 23-31 July 2007 p 138-142.
21. **A.Setiawan**, M.W. Cho, and T. Yao. (2007). *Role of MgO buffer Layer on Defect Reduction of P-MBE Grown ZnO Layer on c-sapphire*. The 2007 Conference on Solid State Ionics. August 1-2 2007. BATAN, Serpong, Indonesia.
22. I. Hamidah, A. Suhandi, **A.Setiawan**, P. Arifin, High Mobility and High N concentration of  $\text{GaN}_x\text{As}_{1-x}$  Thin Films Grown by Metal Organic Chemical Vapor Deposition, accepted to be presented at IEEE Seminar 2008, Singapore, 24-26 Desember 2008.
23. I. Hamidah, A. Suhandi, **A. Setiawan**, dan P. Arifin, Penumbuhan Struktur Sumur Kuantum  $\text{GaAs}/\text{GaN}_x\text{As}_{1-x}/\text{GaAs}$  dengan Metode MOCVD untuk Aplikasi Dioda Laser 1,3 dan 1,55  $\mu\text{m}$ , Seminar dan Lokakarya Hasil-Hasil Penelitian Universitas Pendidikan Indonesia, Auditorium JICA-UPI, Bandung, 22-23 Januari 2008.
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29. Ketang Wiyono, **Agus Setiawan**, dan Andi Suhandi, Model pembelajaran multimedia interaktif relativitas khusus untuk meningkatkan keterampilan berpikir kritis siswa SMA. Seminar Nasional Pendidikan Palembang, 14 Mei 2009, FKIP Universitas Sriwijaya, Palembang.
30. Gunawan, **Agus Setiawan**, Dadi Rusdiana, Using Computer Simulation to Improve Student Critical Thinking Skill in Elasticity Concepts. Proceeding of the 2<sup>nd</sup> International seminar on science education; Current issues on research and teaching in science education, UPI, Bandung October 18 2008. ISBN: 978-602-8171-14-1
31. Gunawan, **Agus Setiawan**, Dwi K. Widyantoro, developing virtual laboratory for teaching modern physics. Proceeding of the-3<sup>rd</sup> international seminar on science education; Challenging science education in the digital era., Science Education program Graduate School, Indonesia University of Education. Bandung Indonesia. 17 October 2009, Page. 386-395. ISBN: 978-602-8171-14-1

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33. Nyoto Suseno, **Agus Setiawan**. Nuryani Rustaman, The important of mapping and utilizing analogies in learning of abstract concepts on electricity and magnetism. Proceeding of the-3rd international seminar on science education; Challenging science education in the digital era, Science Education program Graduate School, Indonesia University of Education. Bandung Indonesia. 17 October 2009, Page. 563- 572. ISBN: 978-602-8171-14-1
34. Sardianto Markos Siahaan, **Agus Setiawan**. Preliminary Study on the Using Amazing Physics Interactive Multimedia. Proceeding of the-3rd international seminar on science education; Challenging science education in the digital era. 17 October 2009, Science Education program Graduate School, Indonesia University of Education. Bandung Indonesia. Page. 606-612. ISBN: 978-602-8171-14-1.
35. **Agus Setiawan**, JoachimDittrich, Purnawan, Analysis of DifferentCurriculum Development Methodologies (CDM) for TVET. Proceeding of 1st UPI International conference on TVET, Bandung, 10-11 November 2010.
36. **Agus Setiawan**, Joachim Dittrich, Purnawan, Analysis of Different Curriculum Development Methodologies (CDM) for TVET. Proceeding of the 1st UPI International conference on TVET, Bandung, 10-11 November 2010.p.394-403.
37. **Agus Setiawan**, Two-dimensional Growth of ZnO Layers Grown by Plasma-Assisted MBE Method on c-sapphire with MgO buffer layer, Proceeeding of Syam Physics Congress, Pattaya, 23- 26 Maret 2011.
38. **Agus Setiawan** and TakafumiYao, Effect of MgO buffer layer on the quality of ZnO films grown on c-sapphire byplasma-assisted MBE method. Jurnal Ilmu Dasar Volume 12, No.2 , Juni 2011, hal. 114-122.
39. **Agus Setiawan** and TakafumiYao, Role of double MgO/ZnO buffer layers on defect reduction of ZnO layers groan on c-sapphire by P-MBE. Jurnal of materials science and engineering A. Volume 1, Number 3, August 2011, pp. 380-389.
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41. Maman Wijaya, **Agus Setiawan**, Paulus Cahyono Tjiang, The Ability of Mathematical Modeling and Logical Inference, and Academic Achievement of Vocational School Physics Teachers. Proceeding of the 2<sup>nd</sup> UPI International Conference on TVET, Bandung, 4 – 5 December 2012.PT12.
42. *I Gede Rasagama, Hermagasantos Zein, **Agus Setiawan**, Liliasari. (2013). Efektivitas Model Belajar “Demonstrasi Interaktif Berbasis Inkuiri” Dalam Meningkatkan Kemampuan Berpikir Analitik Dan Kreatif Mahasiswa Teknik Konversi Energi Politeknik, Jurnal Pendidikan dan Pembelajaran (JPP), Vo. 20 No. 1 (2013).*
43. **Agus Setiawan**, Ida Hamidah, Haipan Salam, Takafumi Yao, Dislocations character of ZnO films grown by Plasma-Assisted MBE on  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>with MgO buffer layer, Prosiding Mathematic MSCEIS 2013, Bandung 9 Oktober 2013.
44. I.G Rasagama, H Zein, **A Setiawan**. (2014). Efektivitas Model Belajar “Demonstrasi Interaktif Berbasis Inkuiri” dalam Meningkatkan Kemampuan Berpikir Analitik dan Kreatif Mahasiswa Teknik Konversi Energi Politeknik. Jurnal Pendidikan dan Pembelajaran (JPP) 20 (1), 92-101.
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46. *Herman S Wattimena, Andi Suhandi, **Agus Setiawan**. (2014). Profil Penyelenggaraan Praktikum Fisika Sekolah Sebagai Penyiapan Mengembangkan Kreativitas Calon Guru. Jurnal Pendidikan MIPA. Vol 15, No 2.*
47. W Bunawan, **A Setiawan**, A Rusli. (2015). Penilaian pemahaman representasi grafik materi optika geometri menggunakan tes diagnostic, Jurnal *Cakrawala Pendidikan*. 34, (2), 257-267.

48. M Komaro, A Djohar, **A Setiawan**, B Hasan, Mm Muharrom. (2015). Animation Multimedia To Enhance The Knowledge Of Atomic Moving Field And Determinants Of Material Mechanical Characteristics. *Edusentris* 2.
49. **Agus Setiawan**. (2015). Compliance of IQF towards AQRF: Challenges and Opportunities of the Referencing to Regional Qualification Framework. *ICIEVE-15*, 84-44. *Advances in Social Science, Education and Humanities Research*, Atlantis Press.
50. **A. Setiawan** and T. Yao. (2016). Effects of MgO buffer annealing on optical and electrical quality of P-MBE grown ZnO films on c-sapphire. *IOP Conference Series. Materials Science and Engineering* 128 (1), 012039.
51. Endang Sulastri, **Agus Setiawan**, Parsaoran Siahaan. (2017). Integration of Student Generated Representations (SGRs) in Learning Cycles 5E towards Students' Senior High School Conceptual Comprehension. *Proceeding of 1st International Conference of Mathematics and Science Education (ICMSEd 2016)*. *Advances in Social Science, Education and Humanities Research (ASSEHR)*, Atlantis Press. Volume 57, 133-136.
52. Imelda Paulina Soko, **Agus Setiawan**, Ari Widodo, Sri Redjeki. (2017). The Identification of Local Science Learning Resources of Nusa Tenggara Timur for Developing Physics Instructions in High School. *Proceeding of 1st International Conference of Mathematics and Science Education (ICMSEd 2016)*. *Advances in Social Science, Education and Humanities Research (ASSEHR)*, Atlantis Press. Volume 57, 225-230.
53. Desi Fitria Wulandari, **Agus Setiawan**. The Profile of Students' Questions in Physics Lesson. *Proceeding of 1st International Conference of Mathematics and Science Education (ICMSEd 2016)*. *Advances in Social Science, Education and Humanities Research (ASSEHR)*, Atlantis Press. Volume 57, 214-217.
54. **Agus Setiawan**. Identification of green skills acquisition in Indonesian. *AIP Conference Proceedings* 1887, 020074 (2017).
55. Adam Malik, **Agus Setiawan**, Andi Suhandi, and Anna Permanasari. (2017). Enhancing pre-service physics teachers' creative thinking skills through HOT lab. Design. *AIP Conference Proceedings* 1868, 070001 (2017).
56. W Arif1, A Suhandi, I Kaniawati, and **A Setiawan**. (2017). Development Scaffolding for Construction of Evaluation Instrument Training Program on The Cognitive Domain For Senior High School Physics Teachers and The Same Level. *J. Phys.: Conf. Ser.* **812** 012053. 2017.

57. Adam Malik, **Agus Setiawan**, Andi Suhandi, Anna Permanasari. (2017). Implementation HOT Lab to Increase Critical Thinking Skills Pre-service Physics Teacher. International Conference Mathematics and Science Education (ICMScE) 2017 di UPI. (Published in Journal of Physics: Conference Series).
58. Sutarno, **Agus Setiawan**, Ida Kaniawati, Andi Suhandi. (2017). Pre-service physics teachers' problem-solving skills. International Conference Mathematics and Science Education (ICMScE) 2017 di UPI. (Published in Journal of Physics: Conference Series).
59. Adam Malik, **Agus Setiawan**, Andi Suhandi, Anna Permanasari, Yudi Dirgantara, Herni Yuniarti. (2017). The Development of HOT Lab Construction about Heat Transfer. 7<sup>th</sup> Asian Physics Symposium (APS) 2017, ITB Bandung (will be published in Journal of Physics: Conference Series
60. Sapriadil, **Agus Setiawan**, Andi Suhandi. The Effect of Higher Order Thinking Virtual Laboratory (HOTVL) in Electric Circuit on Students Creative Thinking Skills. 7<sup>th</sup> Asian Physics Symposium (APS) 2017, ITB Bandung (will be published in Journal of Physics: Conference Series).
61. S. Sapriadil, **A. Setiawan**, A Suhandi, A. Malik, D. Safitri,, S. A. S. Lisdiani and N. Hermita Optimizing students' scientific communication skills through higher order thinking virtual laboratory (HOTVL). IOP Conf. Series: Journal of Physics: Conf. Series 1013 (2018) 012050.
62. Siti Ashri Lisdiani, **Agus Setiawan**, Andi Suhandi. (2017). Implementation of HOT Lab to Improve Students' Critical Thinking Skills. 7<sup>th</sup> Asian Physics Symposium (APS) 2017, ITB Bandung.
63. Dian Safitri, **Agus Setiawan**, Andi Suhandi. (2017). The Effects of Higher Order Thinking (HOT) Laboratory Design in Elasticity on Students Creative Thinking Skills. 7<sup>th</sup> Asian Physics Symposium (APS) 2017, ITB Bandung.
64. Sutarno, **A. Setiawan**, I. Kaniawati and A. Suhandi Pre-Service Physics Teachers' Problem-solving Skills in Projectile Motion Concept. IOP Conf. Series: Journal of Physics: Conf. Series 895 (2017).
65. **Setiawan**, A. Malik, A. Suhandi, and A. Permanasari. Effect of Higher Order Thinking Laboratory on the Improvement of Critical and Creative Thinking Skills. IOP Conf. Series: Materials Science and Engineering 306 (2018) 012008.
66. A. Malik, **A. Setiawan**, A. Suhandi, A. Permanasari, dan N. Hermita, The Effect of HOT-Lab to Improve Critical Thinking Skills of Prospective Physics Teachers. Advanced Science Letters, Volume 24, Number 11, November 2018, pp. 8059-8062(4).
67. **A. Setiawan**, M. M. Al Gifari and R. H. Putra. Tensile Strength Improvement of LLBC Material for Low Speed Wind Turbine Rotor Blade by Varying Composite Matrix. IOP Conf. Series: Materials Science and Engineering 288 (2018) 012013.
68. **A. Setiawan**, M.M. Al Gifari, and I. Hamidah. Performance of LLBC-bades rotor blad for low sped wind turbine. Matec web of coference 197, 08004(2018).
69. H. Yanti, **A Setiawan**, Nurhabibah and Yannuar. Teacher's Perception about the Use of e-Learning/ Edmodo in Educational Activities IOP Conference Series: Materials Science and Engineering, Volume 306, conference 1.
70. Nurhabibah, **A Setiawan**, H Yanti, Y Z Miraj and Yannuar . Analysis of ICT Literacy Competence among Vocational High School Teachers. IOP Conference Series: Materials Science and Engineering, Volume 306, conference 1.
71. E T Berman, **A Setiawan**, E S Arifianto and Mutaufiq Evaluation of performance an air conditioning systems using t-junction flash gas refrigerant. IOP Conference Series: Materials Science and Engineering, Volume 288, conference 1.
72. Firmanul Catur Wibowo, Soffan Nurhaji, **Agus Setiawan**, Wisnu Ardlian Sugiyarto, M. Noor Faizin, Dina Rahmi Darman, Achmad Samsudin, Andi Suhandi, Bayram Costu· The Influences Virtual Physics Laboratory (VPL) For Assessment the Millennial Character Education through System Recording Students Character (SRSC). Journal of Education and Learning (EduLearn), Vol.12, No.4, November 2018, pp. 709-716.
73. Firmanul Catur Wibowo, **Agus Setiawan**, Ni Ketut Rahayu, Dina Rahmi Darman, Agus Setyo Budi. Advanced

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Virtual Physics Laboratory (VPL) of Dynamic Electricity. International Journal of Scientific & Technology Research Volume 8, Issue 08, August 2019.

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75. Ike Festiana, Harry Firman, **Agus Setiawan**, Muslim. Development And Validation Of Concept Mastery Physics Test On The Electricity Topics. International Journal of Scientific & Technology Research Volume 9, Issue 01, January 2020.
76. A. U. Nur, **A Setiawan**, T. R. Ramalis and Nurhayati. Enhancing student creative thinking skills through HOTVL design. Journal of Physics: Conference Series 1280 (2019) 052070.
77. A. Malik, W. Kumala, D. Mulhayatiah, H. Aliah, W. Darmalaksana, **A. Setiawan**, M.M. Chusni, Y. Dirgantara, R.D. Agustina, C. Rochman, N. Hermita and A. Samsudin. Improved problem-solving skills of the student through cooperative problem-solving models related to fluid dynamic topic. Journal of Physics: Conference Series 1280 (2019) 052042.
78. A. Ismail, **A. Setiawan**, A. Suhandi and A. Rusli. Profile of physics laboratory-based higher order thinking skills (HOTs) in Indonesian high schools. Journal of Physics: Conference Series 1280 (2019) 052053.
79. A. Malik, **A. Setiawan**, A. Suhandi, A. Permanasari and S. Sulasman. HOT Lab-Based Practicum Guide for Pre-Service Physics Teachers. IOP Conf. Series: Materials Science and Engineering 288 (2017) 012027.
80. A. Malik, **A Setiawan**, A Suhandi, A Permanasari, Y. Dirgantara, H. Yuniarti, S. Sapriadi, N. Hermita. Enhancing Communication Skills of Pre-service Physics Teacher through HOT Lab Related to Electric Circuit. IOP Conf. Series: Journal of Physics: Conf. Series 93 (2018) 012017.
81. M. L. H. Khan and A. Setiawan. The impact of E-learning on higher education perception, skills, critical thinking and satisfaction. Journal of Physics: Conference Series **1375** (2019) 012084.
82. Muhammad Lokman Hussain Khan, **Agus Setiawan**, Iwan Kustiawan. Design and Development of Single Page and Web Based Responsive E-learning System for Higher Education Institutions. 85-93. Invotec (Innovation of Vocational Technology Education Volume XV Number 2, August 2019).
83. Sugeng Rifqi Mubaroq, Ade Gafar Abdullah, **Agus Setiawan**. The Evolution of Smart Working and Sustainability In Socio-Technical Perspective: A Scientometrics Technology Analysis. Journal of Engineering Science and Technology. Vol. 15, Issue 3. p. 1868-1882. 2020.
84. E.T. Berman, I. Hamidah, B. Mulyanti, **A. Setiawan**. Study of students' experiences of air conditioning practices in vocational education. IOP Conference Series: Materials Science and Engineering, Vol. 830, Issue 4, p.042101.2020.

#### **Award / Research Grants:**

<b>Year</b>	<b>Topic</b>	<b>Source of Funds</b>
2020	Revitalization of Vocational Professional Teacher Education in the Era of Industrial Revolution 4.0	UPI
2019	Policy Analysis and Achievements of Vocational School Revitalization in West Java Indonesia	UPI
2019	Development of Low Speed Wind Energy Conversion System Blade Based on Laminate Bamboo Composite (LLBC) Material Layer	Ministry of Research, Technology and Higher Education of Republic of Indonesia
2017	Development of Higher Order Thinking Laboratory to improve transferable skills of prospective teachers	Ministry of Research, Technology and Higher Education of Republic of Indonesia
2016	Integrating Transferable Skills in TVET Program: A Study on TVET Pedagogies at Universities in Malaysia and Indonesia	UPI and UTHM Malaysia
2016	Approaches to secure implementation of inclusion in TVET systems in ASEAN (+3) countries	GIZ (RCP-RECOTVET Project)
2014	Development model of Professional Vocational Teacher Education in Indonesia	UPI
2012	Post study pre service practical training for TVET Teacher (Student)	GIZ (RCP Project)
2010	Methodological Approaches for Tapping Skilled Work for Technical and Vocational Education and Training (TVET) Curriculum Development	Ministry of National Education (research collaboration with ITB Bremen)

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