



Eko Siswoyo, Ph.D.

Associate Professor

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Eko Siswoyo, Ph.D. is an associate professor at the Department of Environmental Engineering, Islamic University of Indonesia, Yogyakarta Indonesia. He is promoted as an associate professor at the same department this year. He got master and doctorate degree from Graduate School of Environmental Science, Hokkaido University,

Japan. His research focus is the development of low-cost adsorbent based on solid waste materials (drinking water treatment residual (DWTRs), scallop cells, leaf, agricultural waste, etc.) for removal of heavy metal ions in water. He successfully developed some adsorbents based on sludge of drinking water treatment residuals by using physical and chemical treatment for removal of cadmium and lead ions in water. He also modified bio-adsorbent by using some leaf such as platanus leaf in the different form (powdery and encapsulated) for easy removal of metal ions. Recently, he developed fiber adsorbent in order to increase the adsorption capacity of the adsorbent and easy separation after removal process. Eko Siswoyo also interested in the treatment of laundry wastewater by using combination system, phytoremediation and adsorption. Eko Siswoyo has been receiving some grants from Indonesian ministry of research, technology and higher education for his research projects.

APPOINTMENTS

2001-2002	Supervisor of Wastewater Treatment Plant, Paper Industry, East Java, Indonesia
2002-2006	Design Engineer for Project of Drinking Water Treatment Plants in Indonesia
2006-Now	Team Leader of some water supply projects and wastewater treatment plant projects in Indonesia
2002-Now	Lecturer at Department of Environmental Engineering, Universitas Islam Indonesia (UII)
2014-2018	Head of Water Quality Laboratory, Department of Environmental Engineering, Universitas Islam Indonesia, Yogyakarta
2014-2018	Head of Center for Environmental Studies, Universitas Islam Indonesia (UII)
2018-Now	Head of Department of Environmental Engineering, Universitas Islam Indonesia (UII)

SELECT COURSE/TRAINING

2004	Workshop on Membrane Technology for Water and Wastewater Treatment, Surabaya city
2005	Workshop on Water Quality Modeling, Environmental Engineering Dept. ITS Surabaya and UTM Malaysia, Surabaya city

2006	Workshop on Qual2E, Environmental Engineering Dept. ITS Surabaya and UTM Malaysia, Surabaya
2006	International Course on Environmental Technologies, Taipei, Taiwan.
2009	Workshop on climate change, Copenhagen, Denmark.
2010	Sustainability program, Hokkaido University, Japan
2016	International course on remediation, National Cheng Kung University (NCKU), Tainan, Taiwan
2017	Visiting researcher, Tokyo University of Science, Tokyo, Japan
2018	Visiting Researcher, Graduate School of Environmental Science, Hokkaido University, Sapporo, Japan
2018	Visiting researcher, Tokyo University of Science, Tokyo, Japan

SELECT CONFERENCES

September, 2012	Annual meeting of Japan Analytical Chemistry Society, Kanazawa-Japan (Poster presentation).
May, 2013	Annual meeting of Japan Analytical Chemistry Society, Hakodate-Japan (Oral presentation).
February, 2013	International Conference on Future Environment and Energy, Rome-Italy (Oral Presentation).
November, 2013	International Conference: IWA Metals 2013 "Health Protection & Sustainability through Technical Innovation, Shanghai-China (Oral Presentation).
November, 2014	3 rd International Conference on Sustainable Built Environment (ICSBE), Yogyakarta, Indonesia (Oral presentation)
December 2015	International Conference on Environmental Pollution and Prevention (ICEPP), Dubai, United Arab Emirate (UAE) (Oral Presentation)
September 2016	4 th International Conference on Sustainable Built Environment (ICSBE), Yogyakarta, Indonesia (Oral presentation)
2016	International Short Course on Ground water Remediation and Risk Assessment (Instructor)
2016	International Short Course on Environmental Remediation, National Cheng Kung University, Taiwan
2016	National Seminar on Environmental, Bogor Agricultural University (IPB), Bogor, Indonesia (Oral Presentation)
2017	International Conference on Engineering and Technology for Sustainable Development (ICET4SD), Yogyakarta, Indonesia (Oral presentation)
2018	5 th International Conference on Sustainable Built Environment (ICSBE), Banjarmasin, Indonesia (Oral presentation)
October, 2020	22nd SPVM Physics Conference, MSU-Iligan Institute of Technology, Philippines (Invited speaker)

SELECT PUBLICATIONS

2013	Development of eco-adsorbent based on solid waste of paper industry to adsorb cadmium ion in water, Journal of Clean Energy Technologies, vol. 1 no. 3. pp. 198-201.
2014	Agar-Encapsulated Adsorbent Based on Leaf of Platanus sp. to Adsorb Cadmium Ion in Water, Water Science and Technology, 70.1, pp. 89-94. (Scopus Q2)

2014	Determination of key components and adsorption capacity of a low-cost adsorbent based on sludge of drinking water treatment plant to adsorb cadmium ion in water, Applied Clay Science, 97-98, pp. 146-152. (Scopus Q1)
2016	Removal of Cu (II) in Water by Using Adsorbent Based on Volcanic Ash of Mount Kelud in Indonesia, International Journal of Environmental Science and Development, Vol. 7, No. 9.
2018	Bioadsorbent based on water hyacinth modified with citric acid for adsorption of methylene blue in water, MATEC Web of Conferences (Scopus)
2019	Development of a floating adsorbent for cadmium derived from modified drinking water treatment plant sludge, Environmental Technology and Innovation, Vol. 14. (Scopus Q1)
2019	Adsorption Combined Phytoremediation System for Treatment of Laundry Wastewater, MATEC Web Conf. Volume 280, 2019
2020	Determination of the waste production and level of willingness to waste separation in the students living in boarding houses in Yogyakarta, Indonesia Journal of Environmental Treatment Techniques, 2020, 8(3), pp. 947–951 (SCOPUS)
2021	The Effect of Regional Characteristics and Relationship among Locations in Air Pollution Using Spatial Autoregressive (SAR) and Spatial Durbin Models (SDM), Journal of Physics: Conference Series, 2021, 1776(1), 012051 (SCOPUS)
2021	Dispersion of Carbon Nanotubes with “Green” Detergents Molecules 2021, 26(10), 2908 (SCOPUS, Q1)

SELECT RESEARCH GRANT

2016	Pengembangan metode enkapsulasi adsorben berbasis lumpur PDAM untuk menurunkan logam berat dalam air (Ketua Penelitian Fundamental, RISTEKDIKTI)
2017	Bioadsorben dari baglog untuk menurunkan kadar logam berat dalam air (Ketua Penelitian Internal UII)
2018	Sintesis bio-adsorben berbasis lumpur PDAM terenkapsulasi media agarosa untuk penurunan logam berat dalam air (Ketua Penelitian Berbasis Kompetensi, RISTEKDIKTI)
2019	Sintesis bio-adsorben berbasis lumpur PDAM terenkapsulasi media agarosa untuk penurunan logam berat dalam air (Ketua Penelitian Dasar, RISTEK DIKTI)
2020-2022	Development of innovative nanobiodevices based hybrid materials by combination of endemic South Asian biomolecules and nanocarbon (Indonesian government and JST Japan)

PROFESIONAL MEMBERSHIP/ASSOCIATION:

2013-Now : International Water Association (IWA)
2014-Now : The Institution of Engineers Indonesia (PII)
2014-Now : Editor in chief of Jurnal Sains dan Teknologi Lingkungan (UII)
2014-Now : Reviewer of some international journals (Scopus indexed)
- Chemosphere (Elsevier publisher)
- Water Science and Technology (IWA publisher)
- Journal of Environmental Technology
- Environmental Science and Pollution Research (Springer)
- Some journal of American Chemical Society, etc.