

Publication in 2018 :

1. Soeprbowati, T.R., Suedy, S.W.A., Hadiyanto, Lubis, A.A., Gell, P. Diatom assemblage in the 24 cm upper sediment associated with human activities in Lake Warna Dieng Plateau Indonesia(2018) Environmental Technology and Innovation, 10, pp. 314-323.
2. Hadiyanto, Christwardana, M., Sutanto, H., Suzery, M., Amelia, D., Aritonang, R.F. Kinetic study on the effects of sugar addition on the thermal degradation of phycocyanin from *Spirulina* sp.(2018) Food Bioscience, 22, pp. 85-90.
3. Da Costa, C., Hadiyanto. Bioelectricity production from microalgae-microbial fuel cell technology (MMFC)(2018) MATEC Web of Conferences, 156, art. no. 01017, .
4. Mulyanti, R., Susanto, H. Wastewater treatment by nanofiltration membranes(2018) IOP Conference Series: Earth and Environmental Science, 142 (1), art. no. 012017, .
5. Hadiyanto, H., Yuliandaru, I., Hapsari, R. Production of Biodiesel from Mixed Waste Cooking and Castor Oil(2018) MATEC Web of Conferences, 156, art. no. 03056, .
6. Firda, A.A., Purwanto Water Footprint Assessment in the Agro-industry: A Case Study of Soy Sauce Production(2018) E3S Web of Conferences, 31, art. no. 08018, .
7. Falakh, F., Setiani, O. Hazard Identification and Risk Assessment in Water Treatment Plant considering Environmental Health and Safety Practice(2018) E3S Web of Conferences, 31, art. no. 06011, .
8. Astuti, R.S.D., Astuti, A.D., Hadiyanto. Preliminary Design of Industrial Symbiosis of Smes Using Material Flow Cost Accounting (MFCA) Method(2018) E3S Web of Conferences, 31, art. no. 04008, .
9. Aryanto, D.E., Hardiman, G. Assessment of groundwater recharge potential zone using GIS approach in Purworejo regency, Central Java province, Indonesia(2018) E3S Web of Conferences, 31, art. no. 12002, .
10. Hadi, S.P. Critical Review of Spatial Planning of CAT Watuputih, Rembang Zone, Central Java, Indonesia(2018) E3S Web of Conferences, 31, art. no. 09006, .
11. Djaja, I., Purwanto, P., Sunoko, H.R. Evaluation of Water Quality at River Bian in Merauke Papua(2018) E3S Web of Conferences, 31, art. no. 08006, .
12. Yustika, A., Purwanto, P., Hermawan, H.H. A Case Study: The Potential of Energy Efficiency in Senior High School of Semarang Regency, Central Java, Indonesia(2018) E3S Web of Conferences, 31, art. no. 01010, .
13. Matin, H.H.A., Hadiyanto Biogas Production from Rice Husk Waste by using Solid State Anaerobic Digestion (SSAD) Method(2018) E3S Web of Conferences, 31, art. no. 02007, .
14. Elza, R., Suherman, S. Understanding safety data sheets as a strategy to protect humans and the environment at the laboratory(2018) E3S Web of Conferences, 31, art. no. 09027, .

15. Nurbaiti, S.R., Bambang, A.N. Literature Study on Community Participation in Community Based Rural Water Supply and Sanitation Programs (2018) E3S Web of Conferences, 31, art. no. 09033, .
16. Palupi, T., Sawitri, D.R. The Importance of Pro-Environmental Behavior in Adolescent (2018) E3S Web of Conferences, 31, art. no. 09031, .
17. Febriani, A.P., Soeprbowati, T.R., Maryono, M. Analysis of Urban Forest Needs as Anthropogenic (CO₂) Gas Absorbent in Semarang City (2018) E3S Web of Conferences, 31, art. no. 07007, .
18. Hindarwati, Y., Soeprbowati, T.R., Sudarno Heavy Metal Content in Terraced Rice Fields at Sruwen Tenganan Semarang-Indonesia (2018) E3S Web of Conferences, 31, art. no. 03009, .
19. Sunarsih, Sasongko, D.P., Sutrisno. Numerical Solution of a 3-D Advection-Dispersion Model for Dissolved Oxygen Distribution in Facultative Ponds (2018) E3S Web of Conferences, 31, art. no. 03006, .
20. Hadiyanto, H. Ozone Application for Tofu Waste Water Treatment and Its Utilisation for Growth Medium of Microalgae *Spirulina* sp (2018) E3S Web of Conferences, 31, art. no. 03002, .
21. Hedar, Y., Budiyo. Pollution Impact and Alternative Treatment for Produced Water (2018) E3S Web of Conferences, 31, art. no. 03004, .
22. Prasaja, L.E., Hadiyanto The Application Potential of Eco-Efficiency for Greening Company (2018) E3S Web of Conferences, 31, art. no. 07012, .
23. Astuti, A.D., Astuti, R.S.D., Hadiyanto, H. Application of Life Cycle Assessment (LCA) in Sugar Industries (2018) E3S Web of Conferences, 31, art. no. 04011, .
24. Riwayatiningih, Purnaweni, H. Assessing the Priority Area of Mountainous Tourism Using Geospatial Approach in Kendal Regency, Central Java (2018) E3S Web of Conferences, 31, art. no. 12003, .
25. Nurwahyudi, R., Maryono, M. A Resilience Pattern in Village level: The Case Babalan Village, Pati, Central Java Indonesia (2018) E3S Web of Conferences, 31, art. no. 07005, .
26. Said, J., Maryono, M. Motivation and Perception of Tourists as Push and Pull Factors to Visit National Park (2018) E3S Web of Conferences, 31, art. no. 08022, .
27. Sulaiman, B., Bambang, A.N., Purnaweni, H., Lutfi, M. The Effect of Mangrove on Fish Catch Using Belat at Teluk Pemedas and Sanipah of Kutai Kartanegara Regency, East Kalimantan Province, Indonesia (2018) E3S Web of Conferences, 31, art. no. 08029, .
28. Chintantya, D., Maryono, M. Comparing Value of Urban Green Space Using Contingent Valuation and Travel Cost Methods (2018) E3S Web of Conferences, 31, art. no. 07008, .

29. Ahmad, R.R., Fuad, M.Vulnerability Assessment of Mangrove Habitat to the Variables of the Oceanography Using CVI Method (Coastal Vulnerability Index) in Trimulyo Mangrove Area, Genuk District, Semarang(2018) E3S Web of Conferences, 31, art. no. 08004, .
30. Nugraha, F.A., Maryono, M.Community Concern on Environmental Conservation(2018) E3S Web of Conferences, 31, art. no. 08023, .
31. Febriani, I.K., HadiyantoApplication of Pesticide Phytoremediation in Irrigated Rice Fields System Using Eceng Gondok (*Eichhornia crassipes*) Plants(2018) E3S Web of Conferences, 31, art. no. 03019, .
32. Tjahjono, H., Suripin, Kismartini. Community Capacity in the Face of Landslide Hazards in the Southern of Semarang City(2018) E3S Web of Conferences, 31, art. no. 09018, .
33. Ayuningrum, T.V., Purnaweni, H.Sustainability Activities in the Mining Sector: Current Status and Challenges Ahead Limestone Mining in Nusakambangan(2018) E3S Web of Conferences, 31, art. no. 08027, .
34. Dewi, W., Dian, S.R.Undergraduate Students' Pro-Environmental Behavior in Daily Practice(2018) E3S Web of Conferences, 31, art. no. 09025, .
35. Dolly, F.I., Kismartini, K., Purnaweni, H.The Land Use Change from Agricultural to Non-Agricultural in Bungo Regency, Jambi Province, Indonesia(2018) E3S Web of Conferences, 31, art. no. 09019, .
36. Santoso, B., Prasetyono, B.W.H.E.Planning of Beef Cattle Development in District Blora, Central Java, Indonesia(2018) E3S Web of Conferences, 31, art. no. 09022, .
37. Ervina, R., Wasiq, H.J.Vegetation Structure of Ebony Leaf Monkey (*Trachypithecus auratus*) Habitat in Kecubung Ulolanang Nature Preservation Central Java-Indonesia(2018) E3S Web of Conferences, 31, art. no. 08016, .
38. Sulistyowati, S., Hadi, S.P.The existence of High Conservation Value Forest (HCVF) in Perum Perhutani KPH Kendal to support Implementation of FSC Certification(2018) E3S Web of Conferences, 31, art. no. 08019, .
39. Muzdalifah, A.U., Maryono, M.Preliminary Identification of Urban Park Infrastructure Resilience in Semarang Central Java(2018) E3S Web of Conferences, 31, art. no. 07006, .
40. Syah, P.R.I., Hartuti, P.Land Use and River Degradation Impact of Sand and Gravel Mining(2018) E3S Web of Conferences, 31, art. no. 09034, .
41. Setiawan, M.A., Muhammad, F.Stakeholder Analysis in Utilizing of Environmental Services and Natural Attractions in Tuk Semuncar Utilization Zone of Gunung Merbabu National Park: A literature review(2018) E3S Web of Conferences, 31, art. no. 09032, .
42. Fatimatuazzahroh, F., Hadi, S.P., Purnaweni, H.Mangrove Cultivation for Dealing with Coastal Abrasion Case Study of Karangsong(2018) E3S Web of Conferences, 31, art. no. 08028, .

43. Yulianti, W., Hadi, S.P. The Effectiveness of Building Permit Regulation for Green Open Space at Housing Estates: Case Study of Kendal Regency, Central Java, Indonesia (2018) E3S Web of Conferences, 31, art. no. 07003, .
44. Suryadi, Y., Sugianto, D.N., Hadiyanto. Climate Change in Indonesia (Case Study: Medan, Palembang, Semarang) (2018) E3S Web of Conferences, 31, art. no. 09017, .
45. Jati, I.W., Pribadi, R. Economic Valuation as an Instrument to Determine the Management Strategy of Baros Mangrove Forest, Bantul, Yogyakarta, Indonesia (2018) E3S Web of Conferences, 31, art. no. 08024, .
46. Sujono, B., Anggoro, S. Study of Carrying Capacity Assessment for Natural Fisheries in Jatibarang Reservoir in Semarang City (2018) E3S Web of Conferences, 31, art. no. 08026, .
47. Soeprbowati, T.R., Suedy, S.W.A., Hadiyanto. Find the future from the past: Paleolimnology in Indonesia (2018) E3S Web of Conferences, 31, art. no. 08002, . Cited 1 time.
48. Ariyani, N.A.E., Kismartini. Implementation of Conservation Policy Through the Protection of Life Support System in the Karimunjawa National Park. (2018) E3S Web of Conferences, 31, art. no. 08014, .
49. Aji, W.S., Purwanto, Suherman. Good Housekeeping Implementation for Improving Efficiency in Cassava Starch Industry (Case Study: Margoyoso District, Pati Regency) (2018) E3S Web of Conferences, 31, art. no. 05011, .
50. Lestari, S., Bambang, A.N. Minapadi Development Strategy in Supporting National Food Security (2018) E3S Web of Conferences, 31, art. no. 09030, .
51. Ihsan Wira, S., Sunarsih, S. Facultative Stabilization Pond: Measuring Biological Oxygen Demand using Mathematical Approaches (2018) E3S Web of Conferences, 31, art. no. 05009, .
52. Sari, I.K.W., Hadi, S.P. Climate Change Anticipation on Supporting Capacity of Fishing Environment in the Coastal Area of Tanjungmas Semarang City (2018) E3S Web of Conferences, 31, art. no. 09016, .
53. Amril, R., Maryono, M. Assessing Method to Identifying Water Resilience Against Natural and Climate Change Hazards. (2018) E3S Web of Conferences, 31, art. no. 07009, .
54. Supriyadi, Hadiyanto. The role of health and safety experts in the management of hazardous and toxic wastes in Indonesia (2018) E3S Web of Conferences, 31, art. no. 07011, .
55. Chusna, N.A., Maryono, M. Preliminary Evaluation of Method to Monitor Landfills Resilience against Methane Emission (2018) E3S Web of Conferences, 31, art. no. 05006, .
56. Etik, P., Sudarno, S. 57205338926;35779293100; Analysis of Greenhouse Gas Reduction by Using Organic Fertilizer in Boyolali Regency (2018) E3S Web of Conferences, 73, art. no. 08005, .

57. Faid, N.E., Bambang, A.N., Maryono, M. Analysis of the potential contribution of forestry sub-sector in economic and development in daerah istimewa Yogyakarta province (2018) E3S Web of Conferences, 73, art. no. 10027, .
58. Hadi, S. Revenue Discrepancy Determinant in Central Java Province (After a Decade of Autonomy and Fiscal Decentralization Implementation) (2018) E3S Web of Conferences, 73, art. no. 10006, .
59. Hadi, S.P., Prabawani, B., Purnaweni, H. Environmental and social issues on energy policy in Indonesia (2018) E3S Web of Conferences, 73, art. no. 02002, .
60. Hendra, W.Z., Kismartini. Community Participation in Flood Disaster Management in Sumbawa Regency (case study in Songkar Village) (2018) E3S Web of Conferences, 73, art. no. 08004, .
61. Achmad, C.A.A., Hadiyanto. Root Uptake and Distribution of Radionuclides ¹³⁴Cs and ⁶⁰Co in Sunflower Plants (*Helianthus annuus*. L) (2018) E3S Web of Conferences, 73, art. no. 05027, .
62. Wahdah, L., Maryono, M. Urban Farming Management System in Semarang City (2018) E3S Web of Conferences, 73, art. no. 03023, . Yuliana, R., Kismartini, Suharyanto. The Flood Disaster Management Model in Wonosari Village Semarang City (2018) E3S Web of Conferences, 73, art. no. 08031, .
63. Rachmat, F.B., Muhammad, H. Analysis of land use changes to the criticality level of the catchment area in eight watersheds that flow into Jakarta Bay, Indonesia (2018) E3S Web of Conferences, 73, art. no. 03001, .
64. Taufan, H.S., Purwanto, P. The Management of Toxic and Hazardous Waste Materials in the Food Industry (2018) E3S Web of Conferences, 73, art. no. 07020, .
65. Kurniawati, A., Wasiq Hidayat, J. The role of the coastal communities as first responders of stranded marine mammals in East Java (2018) E3S Web of Conferences, 73, art. no. 02006, .
66. Anom, G., Sudarno, S. Analysis of Implementation Green Infrastructure of Bregas Regional Water Supply System (2018) E3S Web of Conferences, 73, art. no. 07014, .
67. Alfian, E.S., Fuad, M. Study Amendment of Post-Field Classification of Illegal Gold in Kolaka Regency, Southeast Sulawesi Province (2018) E3S Web of Conferences, 73, art. no. 06016, .
68. Sudharto, P.H., Hartuti, P., Kismartini, K. Inequality in Public Decision Making Process: Case Studies of Cement Factories in Central Java, Indonesia (2018) E3S Web of Conferences, 73, art. no. 09002, .
69. Sumardianto, N., Suherman, S. Development of Organic Fertilizer in a Livestock Business as an Alternative of Cow Manure Management Strategy (2018) E3S Web of Conferences, 73, art. no. 07019, .

70. Matin, H.A., Hadiyanto The Influence of Microbial Consortium and C/N Ratio to Biogas Production from Rice Husk Waste by Using Solid State Anaerobic Digestion (SS-AD)(2018) E3S Web of Conferences, 73, art. no. 01018, .
71. Prasetyo, J.B., Muhammad, F., Sugianto, D.N.An overview of encouraging sustainable tourism in the coastal tourism of Karang Jahe beach: Issues and challenges(2018) E3S Web of Conferences, 73, art. no. 02015, .
72. Mardhika, S.S.Determine Environment Impacts in Upstream Processes of Oil and Gas Industries(2018) E3S Web of Conferences, 73, art. no. 05008, .
73. Zulfi, H., Syafrudin, S., Sunarsih, S.An Overview of the Fecal Waste Management City of Surabaya: Challenges and Opportunities to Improve Services(2018) E3S Web of Conferences, 73, art. no. 07011, .
74. Ernawati, M., Kismartini, K., Maryono, M.The Evaluation of Slums Level in Jatibarang, Semarang(2018) E3S Web of Conferences, 73, art. no. 03019, .
75. Maulana, M.R., Sugianto, D.N.Study of Social Vulnerability of Climate Change at the Mountain Ecosystem (2018) E3S Web of Conferences, 73, art. no. 02023, .
76. Riesti, T., Indah, S.Characteristics and Economic Value of Tourism Services in Coastal Area of Gunungkidul Regency(2018) E3S Web of Conferences, 73, art. no. 10026, .
77. Ika, K.F., Hadiyanto The Effectiveness of Using Hyacinth Plant As Phytoremediation Agent on Paper Industry Liquid Waste(2018) E3S Web of Conferences, 73, art. no. 07003, .
78. Abdi, S., Sudarno Analysis of Raw Water Supply in Pucang Gading Housing Complex, District of Demak to Preparation of Water Resources and Water Resources Management(2018) E3S Web of Conferences, 73, art. no. 03012, .
79. Ninik, P.A., Maryono, M. Vehicle Emissions Tax: An Opportunity to Control Air Pollution(2018) E3S Web of Conferences, 73, art. no. 10002,
80. Wulandari, A., Maryono, M., Setyawan, A. Carrying capacity for ecotourism development in Tahura K.G.P.A.A. Mangkunagoro i(2018) E3S Web of Conferences, 73, art. no. 02007, .
81. Almiqrh, Abobakir, A., Hadiyanto Determination of Heavy Metals (Pb, Zn, Cd, Cu) of Coastal Urban Area of Semarang Indonesia (2018) E3S Web of Conferences, 73, art. no. 03017, .
82. Feti, F., Hadi Sudharto, P. The Problem and Its Impacts of Mangrove Rehabilitation in Karangsong(2018) E3S Web of Conferences, 73, art. no. 04016, .
83. Hasrianti, H., Azis, N.B., Maryono, M.A Distribution of pH and Temperatures in Palopo Coastal Water, South Sulawesi(2018) E3S Web of Conferences, 73, art. no. 05020, .
84. Maharani, S., Purwanto, P., Wassiq Hidayat, J., Triraharjo, J. Potential Formation of Acid Mine Drainage in Putra Perkasa Abadi Coal Mining Company – Girimulya Site (BIB), Tanah Bumbu Regency, South Kalimantan (2018) E3S Web of Conferences, 73, art. no. 04003, .

85. Mamayu Utami, I.J., Soeprobowati, T.R., Sugianto, D.N. An Overview of Marine Mammals in Eastern Indonesia 2016: Implications for Marine Mammals Research and Conservation(2018) E3S Web of Conferences, 73, art. no. 04017, .
86. Motto, S.A., Christwardana, M., Hadiyanto. Potency of yeast – Microalgae spirulina collaboration in microalgae-microbial fuel cells for cafeteria wastewater treatment(2018) IOP Conference Series: Earth and Environmental Science, 209 (1), art. no. 012022, .
87. Sari, M.S., Hadiyanto, Muhammad, F. Flare gas recovery as one of the clean development mechanism (CDM) practices(2018) IOP Conference Series: Earth and Environmental Science, 200 (1), art. no. 012023, .
88. Hadi, S.P., Purnaweni, H., Hadiyanto, Prabawani, B. Sustainable use of water resource at North Kendeng Mountain, Central Java, Indonesia (2018) IOP Conference Series: Earth and Environmental Science, 191 (1), art. no. 012005, .
89. Rahim, A., Soeprobowati, T.R. Bioaccumulation of lead (Pb) by the common water hyacinth *eichhornia crassipes* (Mart.) solms in Batujai reservoir, central Lombok regency, Indonesia (2018) AACL Bioflux, 11 (5), pp. 1435-1444.
90. Hadiyanto, H., Adetya, N.P. Response surface optimization of lipid and protein extractions from *Spirulina platensis* using ultrasound assisted osmotic shock method (2018) Food Science and Biotechnology, 27 (5), pp. 1361-1368.
91. Cahyono, B., A'Yun, Q., Suzery, M., Hadiyanto Characteristics of eugenol loaded chitosan-tripolyphosphate particles as affected by initial content of eugenol and their in-vitro release characteristic(2018) IOP Conference Series: Materials Science and Engineering, 349 (1), art. no. 012010, .
92. Suzery, M., Hadiyanto, Sutanto, H., Widiastuti, Y., Judiono Improvement the Yoghurt Nutritional Value, Organoleptic Properties and Preferences by *Spirulina* (*Spirulina platensis*) Supplementation (2018) IOP Conference Series: Materials Science and Engineering, 349 (1), art. no. 012040, .
93. Soeprobowati, T.R., Suedy, S.W.A., Hadiyanto, Lubis, A.A., Gell, P. Diatom assemblage in the 24 cm upper sediment associated with human activities in Lake Warna Dieng Plateau Indonesia(2018) Environmental Technology and Innovation, 10, pp. 314-323.
94. Hadiyanto, Christwardana, M., Sutanto, H., Suzery, M., Amelia, D., Aritonang, R.F. Kinetic study on the effects of sugar addition on the thermal degradation of phycocyanin from *Spirulina* sp.(2018) Food Bioscience, 22, pp. 85-90.
95. Sumantri, I., Bagus Priyambada, I., Hadiyanto, H. Solid-liquid anaerobic baffled reactor treating food waste(2018) MATEC Web of Conferences, 156, art. no. 03042, .

96. Hadiyanto, H., Yuliandaru, I., Hapsari, R. Production of Biodiesel from Mixed Waste Cooking and Castor Oil(2018) MATEC Web of Conferences, 156, art. no. 03056, .
97. Kusmiyati, Maryanto, D., Sonifa, R., Aji Kurniawan, S., Hadiyanto, H. Pretreatment of starch-free sugar palm trunk (*Arenga pinnata*) to enhance saccharification in bioethanol production(2018) MATEC Web of Conferences, 156, art. no. 01003, .
98. Agustini, T.W., Hadiyanto, Wijayanti, I., Amalia, U., Benjakul, S. Effect of Melanin Free Ink Extracted from Squid (*Loligo* sp.) on Proximate and Sensory Characteristics of Soft-Bone Milkfish (*Chanos chanos*) during Storage(2018) IOP Conference Series: Earth and Environmental Science, 116 (1), art. no. 012031,
99. Hadiyanto, H.Ozone Application for Tofu Waste Water Treatment and Its Utilisation for Growth Medium of Microalgae *Spirulina* sp(2018) E3S Web of Conferences, 31, art. no. 03002, .
100. Supriyadi, Hadiyanto The role of health and safety experts in the management of hazardous and toxic wastes in Indonesia(2018) E3S Web of Conferences, 31, art. no. 07011, .
101. Febriani, I.K., Hadiyanto Application of Pesticide Phytoremediation in Irrigated Rice Fields System Using Eceng Gondok (*Eichhornia crassipes*) Plants(2018) E3S Web of Conferences, 31, art. no. 03019, .
102. Matin, H.H.A., HadiyantoBiogas Production from Rice Husk Waste by using Solid State Anaerobic Digestion (SSAD) Method(2018) E3S Web of Conferences, 31, art. no. 02007, .
103. Prasaja, L.E., Hadiyanto The Application Potential of Eco-Efficiency for Greening Company(2018) E3S Web of Conferences, 31, art. no. 07012,
104. Suryadi, Y., Sugianto, D.N., HadiyantoClimate Change in Indonesia (Case Study: Medan, Palembang, Semarang)(2018) E3S Web of Conferences, 31, art. no. 09017, .
105. Soeprbowati, T.R., Suedy, S.W.A., HadiyantoFind the future from the past: Paleolimnology in Indonesia(2018) E3S Web of Conferences, 31, art. no. 08002, .
106. Astuti, A.D., Astuti, R.S.D., Hadiyanto, H.Application of Life Cycle Assessment (LCA) in Sugar Industries(2018) E3S Web of Conferences, 31, art. no. 04011, .
107. Astuti, R.S.D., Astuti, A.D., HadiyantoPreliminary Design of Industrial Symbiosis of Smes Using Material Flow Cost Accounting (MFCA) Method(2018) E3S Web of Conferences, 31, art. no. 04008, .
108. Adetya, N.P., Hadiyanto, H.Improvement of lipid yield from microalgae *Spirulina platensis* using ultrasound assisted osmotic shock extraction method(2018) IOP Conference Series: Earth and Environmental Science, 102 (1), art. no. 012012, .
109. Nilamsari, A.M., Yunanda, A., Hadiyanto, H.Thermal degradation kinetics of phycocyanin encapsulation as an antioxidant agent(2018) IOP Conference Series: Earth and Environmental Science, 102 (1), art. no. 012055, .

110. Matin, H.H.A., Hadiyanto, H. Optimization of biogas production from rice husk waste by solid state anaerobic digestion (SSAD) using response surface methodology (2018) *Journal of Environmental Science and Technology*, 11 (3), pp. 147-156.
111. Astuti, R.S.D., Hadiyanto, H. Estimating environmental impact potential of small scale fish processing using life cycle assessment (2018) *Journal of Ecological Engineering*, 19 (6), pp. 65-74.
112. Apriyanti, E., Hadiyanto, W., Wijayanto, W. Preparation and characterization of volcanic ash-chitosan composite ceramic membrane for clean water production (2018) *Journal of Environmental Science and Technology*, 11 (3), pp. 112