

REFERENCES

- Abdalla, M.O.M., Hassabo, A.A. and Elsheikh, N.A.H., 2013. Assessment of some heavy metals in waste water and milk of animals grazed around sugar cane plants in Sudan. *Livestock Research for Rural Development*, 25, p.12.
- Abdel-Magid, H.M., Abdellah, A.M., Abbkar, S.M. and Adam, F.A., 2017. Assessment of Well drinking Water Quality in Samrab, Dardog and Hattab Communities, Khartoum North, Sudan., 10(1), pp.32–37.
- Ahmed, A.E. and Alam-Eldin, A.O., 2015. An assessment of mechanical vs manual harvesting of the sugarcane in Sudan—The case of Sennar Sugar Factory. *Journal of the Saudi Society of Agricultural Sciences*, 14(2), pp.160-166. Available on: <http://www.sciencedirect.com/science/article/pii/S1658077X13000477>.
- Ahmed, F., Aziz, M.A., Alam, M.J., Hakim, M.A., Khan, M.A.S. and Rahman, M.A., 2015. Impact on aquatic environment for water pollution in the Vahirab River. *Int. J. Eng. Sci*, 4(8), pp.56-62.
- Akbarzadeh, Z., Laverman, A.M., Rezanezhad, F., Raimonet, M., Viollier, E., Shafei, B. and Van Cappellen, P., 2018. Benthic nitrite exchanges in the Seine River (France): An early diagenetic modeling analysis. *Science of the Total Environment*, 628, pp.580-593. Available on: <https://doi.org/10.1016/j.scitotenv.2018.01.319>.
- Ali, E.M., Shabaan-Dessouki, S.A., Soliman, A.R.I. and El Shenawy, A.S., 2014. Characterization of chemical water quality in the Nile River, Egypt. *Int J Pure App Biosci*, 2(3), pp.35-53.
- Azizullah, A., Khattak, M.N.K., Richter, P. and Häder, D.P., 2011. Water pollution in Pakistan and its impact on public health—a review. *Environment international*, 37(2), pp.479-497. Available on: <http://dx.doi.org/10.1016/j.envint.2010.10.007>.
- Bantacut, T. and Novitasari, D., 2016. Energy and water self-sufficiency assessment of the white sugar production process in Indonesia using a complex mass balance model. *Journal of cleaner production*, 126, pp.478-492. Available on: <http://dx.doi.org/10.1016/j.jclepro.2016.02.092>.
- Bechara, R., Gomez, A., Saint-Antonin, V., Schweitzer, J.M. and Maréchal, F., 2016. Methodology for the optimal design of an integrated first and second generation

- ethanol production plant combined with power cogeneration. *Bioresource technology*, 214, pp.441-449.
- Bilotta, G.S. and Brazier, R.E., 2008. Understanding the influence of suspended solids on water quality and aquatic biota. *Water research*, 42(12), pp.2849-2861.
- Botha, T. and Von Blottnitz, H., 2006. A comparison of the environmental benefits of bagasse-derived electricity and fuel ethanol on a life-cycle basis. *Energy policy*, 34(17), pp.2654-2661.
- Capelli, L., Sironi, S., Del Rosso, R., Céntola, P., Rossi, A. and Austeri, C., 2011. Odour impact assessment in urban areas: case study of the city of Terni. *Procedia Environmental Sciences*, 4, pp.151-157.
- Chagas, A.L., Azzoni, C.R. and Almeida, A.N., 2016. A spatial difference-in-differences analysis of the impact of sugarcane production on respiratory diseases. *Regional Science and Urban Economics*, 59, pp.24-36.
- Chapman, D.V. ed., 1996. *Water quality assessments: a guide to the use of biota, sediments and water in environmental monitoring*. CRC Press.
- Chauhan, M.K., Chaudhary, S. and Kumar, S., 2011. Life cycle assessment of sugar industry: A review. *Renewable and Sustainable Energy Reviews*, 15(7), pp.3445-3453. Available on: <http://dx.doi.org/10.1016/j.rser.2011.04.033>.
- Cheesman, O.D., 2004. *Environmental impacts of sugar production: the cultivation and processing of sugarcane and sugar beet*. CABI publishing.
- Clesceri, L.S., Greenberg, A.E. and Eaton, A.D., 1998. Standard methods for the examination of water and wastewater, American Public Health Association. *Washington, DC*, pp.4-415.
- Contreras, A.M., Rosa, E., Pérez, M., Van Langenhove, H. and Dewulf, J., 2009. Comparative life cycle assessment of four alternatives for using by-products of cane sugar production. *Journal of Cleaner Production*, 17(8), pp.772-779.
- Contreras, J.D., Meza, R., Siebe, C., Rodríguez-Dozal, S., López-Vidal, Y.A., Castillo-Rojas, G., Amieva, R.I., Solano-Gálvez, S.G., Mazari-Hiriart, M., Silva-Magaña, M.A. and Vázquez-Salvador, N., 2017. Health risks from exposure to untreated wastewater used for irrigation in the Mezquital Valley, Mexico: A 25-year

- update. *Water research*, 123, pp.834-850. Available on: <http://dx.doi.org/10.1016/j.watres.2017.06.058>.
- da Silva Oliveira, D.M., Paustian, K., Davies, C.A., Cherubin, M.R., Franco, A.L.C., Cerri, C.C. and Cerri, C.E.P., 2016. Soil carbon changes in areas undergoing expansion of sugarcane into pastures in south-central Brazil. *Agriculture, Ecosystems & Environment*, 228, pp.38-48. Available on: <http://dx.doi.org/10.1016/j.agee.2016.05.005>.
- Daful, A.G., Haigh, K., Vaskan, P. and Görgens, J.F., 2016. Environmental impact assessment of lignocellulosic lactic acid production: Integrated with existing sugar mills. *Food and bioproducts processing*, 99, pp.58-70. Available on: <http://dx.doi.org/10.1016/j.fbp.2016.04.005>
- de Oliveira Bordonal, R., Lal, R., Ronquim, C.C., de Figueiredo, E.B., Carvalho, J.L.N., Maldonado Jr, W., Milori, D.M.B.P. and La Scala Jr, N., 2017. Changes in quantity and quality of soil carbon due to the land-use conversion to sugarcane (*Saccharum officinarum*) plantation in southern Brazil. *Agriculture, ecosystems & environment*, 240, pp.54-65. Available on: <http://dx.doi.org/10.1016/j.agee.2017.02.016>.
- Dimitrovska, O., Markoski, B., Toshevska, B.A., Milevski, I. and Gorin, S., 2012. Surface water pollution of major rivers in the Republic of Macedonia. *Procedia Environmental Sciences*, 14, pp.32-40. Available on: <http://dx.doi.org/10.1016/j.proenv.2012.03.004>.
- Divya, J. and Belagali, S.L., 2012. Impact of chemical fertilizers on water quality in selected agricultural areas of Mysore district, Karnataka, India. *International journal of environmental sciences*, 2(3), pp.1449-1458.
- El Shakour, E.H.A. and Mostafa, A., 2012. Water quality assessment of river Nile at Rosetta branch: impact of drains discharge. *Middle-East Journal of Scientific Research*, 12(4), pp.413-423.
- El Shakour, E.H.A. and Mostafa, A., 2012. Water quality assessment of river Nile at Rosetta branch: impact of drains discharge. *Middle-East Journal of Scientific Research*, 12(4), pp.413-423.

- Estrada, J.M., Kraakman, N.J.R., Lebrero, R. and Muñoz, R., 2015. Integral approaches to wastewater treatment plant upgrading for odor prevention: Activated Sludge and Oxidized Ammonium Recycling. *Bioresource technology*, 196, pp.685-693.
- Ewaid, S.H. and Abed, S.A., 2017. Water quality index for Al-Gharraf River, southern Iraq. *The Egyptian Journal of Aquatic Research*, 43(2), pp.117-122. Available on: <http://dx.doi.org/10.1016/j.ejar.2017.03.001>.
- Fan, A.M., 2011. Nitrate and nitrite in drinking water: A toxicological review.
- Filoso, S., do Carmo, J.B., Mardegan, S.F., Lins, S.R.M., Gomes, T.F. and Martinelli, L.A., 2015. Reassessing the environmental impacts of sugarcane ethanol production in Brazil to help meet sustainability goals. *Renewable and Sustainable Energy Reviews*, 52, pp.1847-1856. Available on: <http://dx.doi.org/10.1016/j.rser.2015.08.012>.
- G. Mathias Kondolf, Pedro J. Pinto, 2017. Science of the Total Environment Impact of irrigation based sugarcane cultivation on the Chiredzi and Science of the Total Environment. Available on: <http://dx.doi.org/10.1016/j.scitotenv.2017.02.155>.
- Gorde, S.P. and Jadhav, M.V., 2013. Assessment of water quality parameters: a review. *Journal of Engineering Research and Applications*, 3(6), pp.2029-2035.
- Gunkel, G., Kosmol, J., Sobral, M., Rohn, H., Montenegro, S. and Aureliano, J., 2007. Sugar cane industry as a source of water pollution—Case study on the situation in Ipojuca River, Pernambuco, Brazil. *Water, Air, and Soil Pollution*, 180(1-4), pp.261-269.
- Ghandour, M.A., Mohamed, M.A.K., Abd-Alla, M.H. and Doas, N.S., 2017. Evaluating the treatment of sugar industry wastewater using the effective microorganism formulation: Biotreatment of sugar industry effluent, (July), pp.0–21.
- Halder, J.N. and Islam, M.N., 2015. Water pollution and its impact on the human health. *Journal of environment and human*, 2(1), pp.36-46. Available on: <http://www.scipublish.com/journals/EH/papers/918>.
- Han, J., Dunn, J.B., Cai, H., Elgowainy, A. and Michael, W.Q., 2012. Updated sugarcane parameters in GREET1_2012, second revision. *Chicago, Ill: Argonne National Laboratory*. Available on: <http://greet.es.anl.gov/publication-greet-updated-sugarcane>, (last accessed 26.10.13).

- Hanjra, M.A., Blackwell, J., Carr, G., Zhang, F. and Jackson, T.M., 2012. Wastewater irrigation and environmental health: Implications for water governance and public policy. *International journal of hygiene and environmental health*, 215(3), pp.255-269. Available on: <http://dx.doi.org/10.1016/j.ijheh.2011.10.003>.
- Haque, N., 2017. Exploratory analysis of fines for water pollution in Bangladesh. *Water Resources and Industry*, 18, pp.1-8. Available on: <http://dx.doi.org/10.1016/j.wri.2017.05.001>.
- Hess, T.M., Sumberg, J., Biggs, T., Georgescu, M., Haro-Monteagudo, D., Jewitt, G., Ozdogan, M., Marshall, M., Thenkabail, P., Daccache, A. and Marin, F., 2016. A sweet deal? Sugarcane, water and agricultural transformation in Sub-Saharan Africa. *Global environmental change*, 39, pp.181-194.
- Howarth, R.W., 2005. The development of policy approaches for reducing nitrogen pollution to coastal waters of the USA. *Science in China Series C: Life Sciences*, 48(2), pp.791-806.
- Iaconelli, M., Valdazo-González, B., Equestre, M., Ciccaglione, A.R., Marcantonio, C., Della Libera, S. and La Rosa, G., 2017. Molecular characterization of human adenoviruses in urban wastewaters using next generation and Sanger sequencing. *Water research*, 121, pp.240-247. Available on: <http://dx.doi.org/10.1016/j.watres.2017.05.039>.
- Ingaramo, A., Heluane, H., Colombo, M. and Cesca, M., 2009. Water and wastewater eco-efficiency indicators for the sugar cane industry. *Journal of Cleaner Production*, 17(4), pp.487-495. Available on: <http://dx.doi.org/10.1016/j.jclepro.2008.08.018>.
- Jain, R.M., Mody, K.H., Keshri, J. and Jha, B., 2014. Biological neutralization and biosorption of dyes of alkaline textile industry wastewater. *Marine pollution bulletin*, 84(1-2), pp.83-89. Available on: <http://dx.doi.org/10.1016/j.marpolbul.2014.05.033>.
- Kale, V.S., 2016. Consequence of temperature, pH, turbidity and dissolved oxygen water quality parameters. *International Advanced Research Journal in Science, Engineering and Technology*, 3(8), pp.186-190.

- Kaya, S. and Kaya, C., 2015. A new method for calculation of molecular hardness: a theoretical study. *Computational and Theoretical Chemistry*, 1060, pp.66-70.
- Kimenyi, M.S. and Mbaku, J.M., 2015. The limits of the new “Nile Agreement”. *Brookings, Africa in Focus (28 April 2015)*, [https://www. Brookings. Edu/blog/africa-infocus/2015/04/28/the-limits-of-the-new-nile-agreement](https://www.Brookings.Edu/blog/africa-infocus/2015/04/28/the-limits-of-the-new-nile-agreement).
- Komaba, H. and Fukagawa, M., 2016. Phosphate—a poison for humans?. *Kidney international*, 90(4), pp.753-763. Available on: <http://dx.doi.org/10.1016/j.kint.2016.03.039>.
- Kulshreshtha, N.M., Kumar, A., Dhall, P., Gupta, S., Bisht, G., Pasha, S., Singh, V.P. and Kumar, R., 2010. Neutralization of alkaline industrial wastewaters using *Exiguobacterium* sp. *International Biodeterioration & Biodegradation*, 64(3), pp.191-196. Available on: <http://dx.doi.org/10.1016/j.ibiod.2010.01.003>.
- Leonore S.F. Cleveri. 1988, standard method for the examination of water and wastewater., No. 4500-O C , 20th edition, Washington Dc, APHA, AWWA.
- Lerga, T.M. and O'Sullivan, C.K., 2008. Rapid determination of total hardness in water using fluorescent molecular aptamer beacon. *Analytica chimica acta*, 610(1), pp.105-111.
- Martinelli, L.A. and Filoso, S., 2008. Expansion of sugarcane ethanol production in Brazil: environmental and social challenges. *Ecological applications*, 18(4), pp.885-898.
- Maruthi Devi, C.H.; UshaMadhuri, T. 2010. Nature, Environment and Pollution Technology, 10, 481.
- Meng, X., Khoso, S.A., Lyu, F., Wu, J., Kang, J., Liu, H., Zhang, Q., Han, H., Sun, W. and Hu, Y., 2019. Study on the influence and mechanism of sodium chlorate on COD reduction of minerals processing wastewater. *Minerals Engineering*, 134, pp.1-6. Available on: <https://doi.org/10.1016/j.mineng.2019.01.009>.
- Mohsin, M., Safdar, S., Asghar, F. and Jamal, F., 2013. Assessment of drinking water quality and its impact on residents' health in Bahawalpur City. *International Journal of Humanities and Social Science*, 3(15), pp.114-128.
- Morgenroth, B. and Pfau, S., 2010. Factory concepts for very low steam demand and status of implementation. In *Proc. Int. Soc. Sugar Cane Technol* (Vol. 27).

- Munawer, M.E., 2018. Human health and environmental impacts of coal combustion and post-combustion wastes. *Journal of Sustainable Mining*, 17(2), pp.87-96. Available on: <https://doi.org/10.1016/j.jsm.2017.12.007>.
- Nicell, J.A., 2009. Assessment and regulation of odor impacts. *Atmospheric Environment*, 43(1), pp.196-206. Available on: <http://dx.doi.org/10.1016/j.atmosenv.2008.09.033>.
- Nihaya, I., Sasongko, D.P. and Huboyo, H.S., 2018. An Overview: Resource Efficiency Potential in PTPN IX PG. Sragi to achieve Green Proper. In E3S Web of Conferences (Vol. 73, p. 02018). EDP Sciences.
- P. Prasertsri, 2007, Thailand sugar annual, USDA foreign agriculture service – gain report – Global agriculture information network, gain report number: TH7048.
- Parande, A.K., Sivashanmugam, A., Beulah, H. and Palaniswamy, N., 2009. Performance evaluation of low cost adsorbents in reduction of COD in sugar industrial effluent. *Journal of hazardous materials*, 168(2-3), pp.800-805.
- Popović, N.T., Strunjak-Perović, I., Klobučar, R.S., Barišić, J., Babić, S., Jadan, M., Kepec, S., Kazazić, S.P., Matijatko, V., Ljubić, B.B. and Car, I., 2015. Impact of treated wastewater on organismic biosensors at various levels of biological organization. *Science of the Total Environment*, 538, pp.23-37.
- Prasara-A, J. and Gheewala, S.H., 2016. Sustainability of sugarcane cultivation: case study of selected sites in north-eastern Thailand. *Journal of Cleaner Production*, 134, pp.613-622. Available on: <http://dx.doi.org/10.1016/j.jclepro.2015.09.029>.
- Qureshi, A.L., Mahessar, A.A., Leghari, M.E.U.H., Lashari, B.K. and Mari, F.M., 2015. Impact of releasing wastewater of sugar industries into drainage system of LBOD, Sindh, Pakistan. *International Journal of Environmental Science and Development*, 6(5), p.381.
- Ramjeawon, T., 2004. Life cycle assessment of cane-sugar on the Island of Mauritius. *The international journal of life cycle assessment*, 9(4), pp.254-260.
- Report Assalaya Hospital. 2018. Wastewater diseases. Assalaya province, Sudan: White Nile State.

- Report of Ministry of Health. 2018. Indication of the waterborne diseases by states, Sudan: Khartoum.
- Rikalovic, A., Cosic, I. and Lazarevic, D., 2014. The role of GIS in industrial location analysis. *CIP–Katalogizacija y publikaciju*, p.299. Available on: <http://dx.doi.org/10.1016/j.proeng.2014.03.090>.
- Rikalovic, A.M. and Cocić, I., 2014. GIS based multi-criteria decision analysis for industrial site selection: The state of the art. *Journal of Applied Engineering Science*, 12(3), pp.197-206. Available on: <http://dx.doi.org/10.1016/j.proeng.2014.03.090>.
- Roth, A.P.T., Siqueira, G.R., Rabelo, C.H., Härter, C.J., Basso, F.C., Berchielli, T.T. and Reis, R.A., 2016. Impact of days post-burning and lime as an additive to reduce fermentative losses of burned sugarcane silages. *Animal Feed Science and Technology*, 216, pp.68-80. Available on: <http://dx.doi.org/10.1016/j.anifeedsci.2016.03.010>.
- Rughoonundun, H. and Holtzapple, M.T., 2017. Converting wastewater sludge and lime-treated sugarcane bagasse to mixed carboxylic acids—a potential pathway to ethanol biofuel production. *Biomass and bioenergy*, 105, pp.73-82. Available on: <http://dx.doi.org/10.1016/j.biombioe.2017.06.007>.
- Ponsadailakshmi, S., Sankari, S.G., Prasanna, S.M. and Madhurbal, G., 2018. Evaluation of water quality suitability for drinking using drinking water quality index in Nagapattinam district, Tamil Nadu in Southern India. *Groundwater for Sustainable Development*, 6, pp.43-49. Available on: <https://doi.org/10.1016/j.gsd.2017.10.005>
- Sahu, O., Rao, D.G., Gopal, R., Tiwari, A. and Pal, D., 2017. Treatment of wastewater from sugarcane process industry by electrochemical and chemical process: Aluminum (metal and salt). *Journal of water process engineering*, 17, pp.50-62. Available on: <http://dx.doi.org/10.1016/j.jwpe.2017.03.005>.
- Sahu, O.P. and Chaudhari, P.K., 2015. Electrochemical treatment of sugar industry wastewater: COD and color removal. *Journal of Electroanalytical Chemistry*, 739, pp.122-129. Available on: <http://dx.doi.org/10.1016/j.jelechem.2014.11.037>.

- Sánchez-García, S., Athanassiadis, D., Martínez-Alonso, C., Tolosana, E., Majada, J. and Canga, E., 2017. A GIS methodology for optimal location of a wood-fired power plant: Quantification of available wood fuel, supply chain costs and GHG emissions. *Journal of Cleaner Production*, 157, pp.201-212. Available on: <http://dx.doi.org/10.1016/j.jclepro.2017.04.058>.
- Shahata, M.M. and Mohamed, T.A., 2015. Evaluation of the River Nile water quality around the New Assiut Barrage and its hydropower plant. *International Journal of Advanced Research*, 3(9), pp.184-193.
- Shakir, E., Zahraw, Z. and Al-Obaidy, A.H.M., 2017. Environmental and health risks associated with reuse of wastewater for irrigation. *Egyptian Journal of Petroleum*, 26(1), pp.95-102. Available on: <http://dx.doi.org/10.1016/j.ejpe.2016.01.003>.
- Shakir, E., Zahraw, Z. and Al-Obaidy, A.H.M., 2017. Environmental and health risks associated with reuse of wastewater for irrigation. *Egyptian Journal of Petroleum*, 26(1), pp.95-102. Available on: <http://dx.doi.org/10.1016/j.ejpe.2016.01.003>.
- Silva, A.M.D., Nalon, M.A., Kronka, F.J.D.N., Alvares, C.A., Camargo, P.B.D. and Martinelli, L.A., 2007. Historical land-cover/use in different slope and riparian buffer zones in watersheds of the state of São Paulo, Brazil. *Scientia Agricola*, 64(4), pp.325-335.
- Suchetana, B., Rajagopalan, B. and Silverstein, J., 2017. Assessment of wastewater treatment facility compliance with decreasing ammonia discharge limits using a regression tree model. *Science of The Total Environment*, 598, pp.249-257. Available on: <http://dx.doi.org/10.1016/j.scitotenv.2017.03.236>.
- Sudanese environmental Act. (2008). Legislative council, Sudan: Khartoum.
- Sudanese Sugar Company (SSC). (2018). Sudan: Khartoum.
- Sutadian, A.D., Muttill, N., Yilmaz, A.G. and Perera, B.J.C., 2018. Development of a water quality index for rivers in West Java Province, Indonesia. *Ecological indicators*, 85, pp.966-982. Available on: <https://doi.org/10.1016/j.ecolind.2017.11.049>.

- Thompson, J.A., Bell, J.C. and Butler, C.A., 2001. Digital elevation model resolution: effects on terrain attribute calculation and quantitative soil-landscape modeling. *Geoderma*, 100(1-2), pp.67-89.
- Türker, U., Okaygün, M. and Almaqadma, S.J., 2009. Impact of anaerobic lagoons on the performance of BOD and TSS removals at the Haspolat (Mia Milia) Wastewater Treatment Plant. *Desalination*, 249(1), pp.403-410. Available on: <http://dx.doi.org/10.1016/j.desal.2009.06.044>.
- Vasanthavigar, M., Srinivasamoorthy, K., Vijayaragavan, K., Ganthi, R.R., Chidambaram, S., Anandhan, P., Manivannan, R. and Vasudevan, S., 2010. Application of water quality index for groundwater quality assessment: Thirumanimuttar sub-basin, Tamilnadu, India. *Environmental monitoring and assessment*, 171(1-4), pp.595-609.
- Verma, A., Wei, X. and Kusiak, A., 2013. Predicting the total suspended solids in wastewater: a data-mining approach. *Engineering Applications of Artificial Intelligence*, 26(4), pp.1366-1372. Available on: <http://dx.doi.org/10.1016/j.engappai.2012.08.015>.
- Vikrant, K., Kim, K.H., Ok, Y.S., Tsang, D.C., Tsang, Y.F., Giri, B.S. and Singh, R.S., 2018. Engineered/designer biochar for the removal of phosphate in water and wastewater. *Science of the total environment*, 616, pp.1242-1260. Available on: <https://doi.org/10.1016/j.scitotenv.2017.10.193>.
- Wang, Q. and Yang, Z., 2016. Industrial water pollution, water environment treatment, and health risks in China. *Environmental Pollution*, 218, pp.358-365. Available on: <http://dx.doi.org/10.1016/j.envpol.2016.07.011>.
- Wang, Q. and Yang, Z., 2016. Industrial water pollution, water environment treatment, and health risks in China. *Environmental Pollution*, 218, pp.358-365. Available on: <http://dx.doi.org/10.1016/j.envpol.2016.07.011>.
- Wang, S., Zhang, L., Fu, D., Lu, X., Wu, T. and Tong, Q., 2016. Selecting photovoltaic generation sites in Tibet using remote sensing and geographic analysis. *Solar Energy*, 133, pp.85-93.
- Wang, Y. and Zhang, J., 2009. Experimental investigation on removal of suspended solids from wastewater produced in the processing of carclazyte

- catalyst. *Desalination*, 244(1-3), pp.72-79. Available on:
<http://dx.doi.org/10.1016/j.desal.2008.04.037>.
- Wang, Z., Shao, D. and Westerhoff, P., 2017. Wastewater discharge impact on drinking water sources along the Yangtze River (China). *Science of the Total Environment*, 599, pp.1399-1407. Available on:
<http://dx.doi.org/10.1016/j.scitotenv.2017.05.078>.
- Wilhelm, S., Henneberg, A., Köhler, H.R., Rault, M., Richter, D., Scheurer, M., Suchail, S. and Triebkorn, R., 2017. Does wastewater treatment plant upgrading with activated carbon result in an improvement of fish health?. *Aquatic toxicology*, 192, pp.184-197. Available on: <http://dx.doi.org/10.1016/j.aquatox.2017.09.017>.
- Wu, Z., Wang, X., Chen, Y., Cai, Y. and Deng, J., 2018. Assessing river water quality using water quality index in Lake Taihu Basin, China. *Science of the Total Environment*, 612, pp.914-922. Available on:
<http://dx.doi.org/10.1016/j.scitotenv.2017.08.293>.
- Xu, J., Song, X., Wu, Y. and Zeng, Z., 2015. GIS-modelling based coal-fired power plant site identification and selection. *Applied energy*, 159, pp.520-539.
- Zhou, Y., Hallis, S.A., Vitko, T. and Suffet, I.H.M., 2016. Identification, quantification and treatment of fecal odors released into the air at two wastewater treatment plants. *Journal of environmental management*, 180, pp.257-263.