UNEP Science Alerts - March 2019

UNEP's newsletter from March 2020 on scientific articles, research and knowledge on selected topics.

Topic	Title
Chemicals and Waste / Pollution	**Advancing environmental exposure assessment science to benefit society <http://dx.doi.or**
	Assessment of air pollution caused by illegal e-waste burning to evaluate the human health risk <https://doi.org/10.1016/j.envint.2C
	A Comparison of hourly to annual air pollutant emissions: Implications for estimating acute exposure and public health risk <http://
	The dynamic analysis of a vehicle pollutant emission reduction management model under economic means <http://dx.doi.org/10.1
	Enhanced land–sea warming contrast elevates aerosol pollution in a warmer world <https://doi.org/10.1038/s41558-019-0401-4> /
	Fish scales as a bioindicator of potential marine pollutants and carcinogens in Asian sea bass and red tilapia within the coastal wate Coastal Research 82 (SI), 120-125, 2018. Ebsco.
	Healthy air, healthy brains: Advancing air pollution policy to protect children's health <http://search.ebscohost.com/login.aspx?direc
	Importance of legislation on the treatment of chemical effluents as a way to avoid environmental pollution: the use of numerical t *Pollution Research 26(3),* 2547-2558, 2019. Springer.
	Microplastic pollution, a threat to marine ecosystem and human health: A short review <https://search.proquest.com/central/docvie 24(27), 21530-21547, 2017. Proquest.
	Scientists track damage from controversial deep-sea mining method <https://www.nature.com/articles/d41586-019-00757-y> / O
	Spiders in the web: Understanding the evolution of REDD+ in Southwest Ghana <http://search.ebscohost.com/login.aspx?direct=tr
	WMO joins global commitment to cut air pollution <http://search.ebscohost.com/login.aspx?direct=true&db=eih&AN=135134244&s
Climate Change	**Aligning National Interests and Global Climate Justice: The Role of Human Rights in Enhan Change <https://link.springer.com/content/pdf/10.1007%2Fs40647-018-0249-4.pdf>** / Y.
	Assessing the effectiveness of Sustainable Land Management for large-scale climate change adaptation <https://doi.org/10.1016/j.s
	Autonomous Local Climate Change Policy: An Analysis of the Effect of Intergovernmental Relations Among Subnational Governm
	Benefits of the Paris Agreement to ocean life, economies and people <http://advances.sciencemag.org/content/5/2/eaau3855> / U.
	Climate change and human health: Health impacts of warming of 1.5° C and 2 ° C. <https://search.proquest.com/central/docview/21 Environmental Research and Public Health 15(6), 2018.
	The cry of the climate and the cry of the poor: Pope Francis's urgent appeal for climate justice <https://search.proquest.com/central
	Decomposition of urban temperatures for targeted climate change adaptation <https://doi.org/10.1016/j.envsoft.2018.11.015> / D. H
	Divergent responses to climate change and disturbance drive recruitment patterns underlying latitudinal shifts of tree species <htt
	Economic, social and governance adaptation readiness for mitigation of climate change vulnerability: Evidence from 192 countries
	Endangered species management and climate change: When habitat conservation becomes a moving target <https://doi.org/10.10
	From water footprint to climate change adaptation: Capacity development with teenagers to save water <https://doi.org/10.1016/j.l
	Science needs management data for a better prediction of climate change effects on socio-ecosystems <https://link.springer.com/
	Work time reduction and economic democracy as climate change mitigation strategies: or why the climate needs a renewed labor 9(1), 2019.

Disasters and Conflict

'After the disaster comes destination thought': A review and conceptualization pf consolida <https://www.sciencedirect.com/science/article/pii/S2212420918311828> / D. Eckhardt *et a*

Climate, conflict and forced migration <https://www.sciencedirect.com/science/article/pii/S0959378018301596> /G.S. Abel *et al. C*

The disaster risk, global change and sustainability nexus <https://www.mdpi.com/2071-1050/11/4/957/pdf> / P. Peduzzi. *Sustainabil*

The future of disasters studies: new disasters and the case of the Horn of Africa <https://onlinelibrary.wiley.com/doi/10.1111/disa.123

The geography of natural resources, ethnic inequality and civil conflicts <https://www.sciencedirect.com/science/article/pii/S01762

How could climate services support disaster risk reduction in the 21st century <https://www.sciencedirect.com/science/article/pii/S2

Large-scale disaster waste management under uncertain environment <https://www.sciencedirect.com/science/article/pii/S0959

Revisiting emergency food reserve policy and practice under disaster and extreme climate events <https://link.springer.com/conter

Understanding the dilemmas of integrating post-disaster and post-conflict reconstruction initiatives: Evidence from Nepal, Sri Lan *Reduction 2019*. ScienceDirect.

Unpacking the influence of public-private partnerships on disaster resilience: A comparison of expert perspectives <https://onlineli

Water as a weapon and casualty of conflict: freshwater and international humanitarian law <https://link.springer.com/content/pdf/1

Ecosystem Management / Oceans and Seas

Biodiversity conservation and sustainable use in Latin America: Evidence from environmer and-sustainable-use-in-latin-america_5j8h631jdn24.pdf?itemId=%2Fcontent%2Fpublicat Cooperation and Development. 98 p. 2018.

Can Existing Estimates for Ecosystem Service Values Inform Forest Management? <http://web.a.ebscohost.com/ehost/viewarticle/r data=dGJyMPPp44rp2%2fdV0%2bnjisfk5Ie45PFJt6myT7Wk63nn5Kx95uXxjL6prUm2pbBIr6%2beTLintFKypp5Zy5zyit%2fk8Xnh6 13da-49ca-9ce3-19aad1871bae@sessionmgr4008> / A. Müller, T. Knoke and R. Olschewski. *Forests 10(2),* 2019.

Ecosystem services in different agro-climatic zones in eastern India: impact of land use and land cover change <https://link.springe

Forest Concessions and the United Nations Sustainable Development Goals: Potentials, Challenges and Ways Forward <http://web data=dGJyMPPp44rp2%2fdV0%2bnjisfk5Ie45PFJt6myT7Wk63nn5Kx95uXxjL6prUm2pbBIr6%2beTLintFKypp5Zy5zyit%2fk8Xnh6 13da-49ca-9ce3-19aad1871bae@sessionmgr4008> / Y. T. Tegegne *et al. Forests,* 10(1), 2019.

Forest harvesting impacts on microclimate conditions and sediment transport activities in a humid periglacial environment <http:// data=dGJyMPPp44rp2%2fdV0%2bnjisfk5Ie45PFJt6myT7Wk63nn5Kx95uXxjL6prUytqK5Jt5avUrCuuE2xlr9lpOrweezp33vy3%2b2G c957-4f43-b8a5-213cd1514250@pdc-v-sessmgr05> / F. Imaizumi *et al. Hydrology & Earth System Sciences,* 23(1), 2019.

The historical development of complex global trafficking networks for marine wildlife <http://advances.sciencemag.org/content/5/3

Impact of conservation farming practices on Mediterranean agro-ecosystem services provisioning—a meta-analysis (The) <https://l

Impact of a local, coastal community based management regime when defining marine protected areas: Empirical results from a st PLoS One 14(3), e0213354, 2019.

Integrating ecosystem services into environmental decision-making <http://login.research4life.org/tacsgr1besjournals_onlinelibrary

Investigations into Data Ecosystems: a systematic mapping study <https://link.springer.com/content/pdf/10.1007%2Fs10115-018-1

Modern lake ecosystem management by sustainable harvesting and effective utilization of aquatic macrophytes <https://link.spring

Multiple macroevolutionary routes to becoming a biodiversity hotspot <http://advances.sciencemag.org/content/5/2/eaau8067> / J

Ocean recoveries for tomorrow's Earth: Hitting a moving target <http://science.sciencemag.org/content/363/6425/eaav1004> / K.E.

Simple spatial typology for assessment of complex coastal ecosystem services across multiple scales (A) <https://doi.org/10.1016/j.

Linking biodiversity to ecosystem services supply: Patterns across aquatic ecosystems <https://doi.org/10.1016/j.scitotenv.2018.11.4

Environmental Governance

Designing criteria to evaluate equity to indigenous people in impact assessment and envir
<https://search.proquest.com/central/docview/2197122357/fulltextPDF/3F8652F24A114B3
Practice 23(2), 163-205, 2019.

Distributional considerations for transboundary risk governance of environmental threats <https://search.proquest.com/central/doc
Proquest.

Do economic conditions affect public support for environmental policy? <https://doi.org/10.1016/j.jclepro.2018.05.162> / Z. Bakaki a

Earth system governance – Beyond traditional environmental policy <https://search.proquest.com/central/docview/2187906579/fu

Earth system law: The juridical dimensions of earth system governance <https://doi.org/10.1016/j.esg.2019.100003> / L.J. Kotzé and

Finding the path to the institutionalization of deliberative democracy: The pilot legislative practices of environmental governance <

Improving collaboration in the implementation of global biodiversity conventions <https://rdcu.be/bowoy> / K. Rogalla *et al. Conse*

Increasing worldwide environmental consciousness and environmental policy adjustment <https://doi.org/10.1016/j.qref.2018.08.0

Opportunities and obstacles to socioecosystem-based environmental policy in Mexico: Expert opinion at the science-policy interfa
2018. Ebsco.

Public awareness and support for environmental protection – A focus on air pollution in peninsular Malaysia <https://search.proque

Resource Efficiency / Cities

Business Model Innovation for Resource-efficiency, Circularity and Cleaner Production: Wh
Lopez, T. Bastein and A. Tukker. *Ecological Economics,* 155, 2019.

Can green financial development promote regional ecological efficiency? A case study of China <https://link.springer.com/content/

Discourse of eco-innovation in the European Union: An analysis of the Eco-Innovation Action Plan and Horizon 2020 (The) <https:

Marketization and water resource utilization efficiency in China <https://doi.org/10.1016/j.suscom.2019.01.018> / Q. Chen *et al. Jour*

Sense-Making Resource Efficiency Through "Sustainability" Reports <https://link.springer.com/content/pdf/10.1007%2Fs10551-017

Technological innovation, environmental regulation, and green total factor efficiency of industrial water resources <https://doi.org/1

Technology innovation for green growth and sustainable resource management <https://doi.org/10.1016/j.resconrec.2018.05.003.>

Three Scenario Narratives for a Resource-Efficient and Low-Carbon Europe in 2050 <https://doi.org/10.1016/j.ecolecon.2018.02.0

Resource efficiency of consumables – Life cycle assessment of incontinence products <https://doi.org/10.1016/j.resconrec.2018.12.

Energy efficiency optimization in big data processing platform by improving resources utilization <https://doi.org/10.1016/j.suscom.

Sustainable Development Goals / Environment under Review

Assessing research trends related to sustainable development goals: local and global issues

Biodiversity and the built environment: Implications for the sustainable development goals <https://doi.org/10.1016/j.resconrec.201

Biodiversity/ecosystem services from the Asia-Pacific:typology, archetypes and implications for sustainable development goals <ht

Determining nature's contributions to achieve the sustainable development goals <https://link.springer.com/content/pdf/10.1007%

Does advertising the green benefits of products contribute to sustainable development goals? A quasi-experimental test of the dil

Forest concessions and the United nations sustainable development goals: Potentials, challenges and ways forward <http://web.b.e
data=dGJyMPPp44rp2%2fdV0%2bnjisfk5Ie45PFJt6myT7Wk63nn5Kx95uXxjL6prUytqK5Jt5awUq6quEi0lr9lpOrweezp33vy3%2b2
c4bf-4465-8424-1b31c98887f4@sessionmgr120> / T.Y. Tekle et al. *Forest 2019.* Ebsco.

Measuring the digital transformation: A roadmap for the future <https://www.oecd-ilibrary.org/deliver/9789264311992-en.pdf?item

SIGI [Social Institution and Gender Index] 2019 Global Report <https://www.oecd-ilibrary.org/deliver/bc56d212-en.pdf?itemId=%2

Sustainable development from millennium 2015 to sustainable development goals 2030 <http://login.research4life.org/tacsgr1onl

Sustainable development goal 6: two gaps in the race for indicators <https://link.springer.com/content/pdf/10.1007%2Fs11625-018

Water quality and its interlinkages with sustainable development goals <https://www.sciencedirect.com/science/article/pii/S187734
2019. ScienceDirect.