

ГАЗАРЗҮЙ, ГЕОЭКОЛОГИЙН ХҮРЭЭЛЭН

2020 онд олон улсын IF өндөртэй сэтгүүлд нийтлэгдсэн бүтээлийн жагсаалт:

1. **Amarsaikhan, D.** Advanced classification of optical and sar images for urban land cover mapping. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. 2020; XLIII-B3-2020: 1417-1421. <https://doi.org/10.5194/isprs-archives-XLIII-B3-2020-1417-2020>. (Impact factor 0.93)
2. Bao, G., Tuya, A., **Bayarsaikhan, S., Dorjsuren, A., Mandakh, U.**, Bao, Y., Li, Ch. & Vanchindorj, B. Variations and climate constraints of terrestrial net primary productivity over Mongolia. Quaternary International. 2020; 537:112-125. <https://doi.org/10.1016/j.quaint.2019.06.017>. (Impact factor 2.0)
3. **Batsaikhan Bayartungalag**, Seong-Taek Yun, Kyoung-Ho Kim, Soonyoung Yu, Kyung-Jin Lee, Young-Joon Lee, and Jadambaa Namjil. Groundwater contamination assessment in Ulaanbaatar City, Mongolia with combined use of hydrochemical, environmental isotopic, and statistical approaches. Science of the Total Environment. 2020; 142790. <https://doi.org/10.1016/j.scitotenv.2020.142790>. (Impact factor 6.5)
4. **Bilguun, U.**, Namkhainyambuu, D., Purevsuren, B., Soyol-Erdene, Ts., Tuuguu, E. & Daichaa, D. Sources, enrichment, and mobility of soil trace metals in Ulaanbaatar, Mongolia. Archives of Environmental Contamination and Toxicology. 2020; 79:219-232. <https://doi.org/10.1007/s00244-020-00748-5>. (Impact factor 2.4)
5. Byambadorj, S. O., Chiatante, D., **Akhmadi, K.**, Luntan, J., **Ochirbat, B.**, Park, B. B., Scippa, G. S., Montagnoli, A. & Nyam-Osor, B. The effect of different watering regimes and fertilizer addition on the growth of tree species used to afforest the semi-arid steppe of Mongolia. Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology. 2020; 1-14. <https://doi.org/10.1080/11263504.2020.1779845>. (Impact factor 1.8)
6. Dai Matsushima, Reiji Kimura, Yasunori Kurosaki, **Ulgiiichimeg Ganzorig**, Masato Shinoda. Method for estimating the threshold wind speed of dust emissions as a 2 function of soil moisture using available data archives. Journal of Boundary-Layer Meteorology. 2020; 175: 237-257. <https://doi.org/10.1007/s10546-020-00500-5>. (Impact factor 3.0)
7. Enkhtuya, S. and **Amarsaikhan, D.** Improvement of Mongolian height system using a satellite technology. Open Journal of Applied Sciences. 2020; 10: 154-168. <https://doi.org/10.4236/ojapps.2020.104013>. (Impact factor 0.8)
8. Gang Dong, Fangyuan Zhao, Jiquan Chen, Yaoqi Zhang, Luping Qu, Shicheng Jiang, **Batkhisig Ochirbat**, Jingyan Chen, Xiaoping Xin, Changliang Shao. Non-climatic component

- provoked substantial spatiotemporal changes of carbon and water use efficiency on the Mongolian Plateau. *Environmental Research Letters*. 2020; 15:1-6. <https://doi.org/10.1088/1748-9326/ab9692>. (Impact factor 6.1)
9. Gerelbaatar S, **Batsaikhan G**, **Tsogtbaatar J**, **Battulga P**, Baatarbileg N, Alexander G. Assessment of early survival and growth of planted Scots pine (*Pinus sylvestris*) seedlings under extreme continental climate conditions of northern Mongolia. *Journal of Forest Resources*. 2020; 31:13-26. <https://doi.org/10.1007/s11676-019-00935-8>. (Impact factor 1.7)
 10. Jin, H., Bao, G., Chen, J., Chopping, M., Jin, E., **Mandakh, U.**, Jiang, K., Huang, X., Bao, Yu. & Vandansambuu, B. Modifying the maximal light-use efficiency for enhancing predictions of vegetation net primary productivity on the Mongolian Plateau. *International Journal of Remote Sensing*. 2020; 41: 3740-3760. <https://doi.org/10.1080/01431161.2019.1707902>. (Impact factor 2.97)
 11. Jorien L.N. van der Wal, V.C. Nottebaum, B. Gailleton, G. Stauch, C. Weismüller, **O. Batkhishig**, F. Lehmkuhl, K. Reicherter. Morphotectonics of the northern Bogd fault and implications for Middle Pleistocene to modern uplift rates in southern Mongolia. *Geomorphology*. 2020; 367. 107330. <https://doi.org/10.1016/j.geomorph.2020.107330>. (Impact factor 3.82)
 12. Liu, J., Feng, Q., Wang, Y., **Batsaikhan, B.**, Gong, J., Li, Y., Liu, Ch. & Ma, Y. Urban Green Plastic Cover Mapping Based on VHR Remote Sensing Images and a Deep Semi-Supervised Learning Framework. *International Journal of Geo-Information*. 2020; 9: 527. <https://doi.org/10.3390/ijgi9090527>. (Impact factor 2.4)
 13. **Mandakh, U.**, Battseren, M., **Danzanchadav, G.**, **Turuutuvshin, A.**, **Zolzaya, A.**, Almaz, B. & Chunlin, L. Folk nomenclature of plants in Cistanche deserticola-associated community in South Gobi, Mongolia. *Plant Diversity*. 2020; <https://doi.org/10.1016/j.pld.2020.09.008>. (Impact factor 1.86)
 14. **Mandakh, U.**; **Ganbat, D.**; **Batsaikhan, B.**; **Dalantai, S.**; **Adiya, Z.**; **Bayasgalan, N.**; **Bayarsaikhan, S.**; Borjigidai, A.; Long, C. Impacts of Rapid Changes of Land Cover and Intensive Human Activities on Avarga Toson Lake Area, Mongolia. *Sustainability*. 2020; 12:6070. <https://doi.org/10.3390/su12156070>. (Impact factor 2.57)
 15. Munkhdavaa, M., **Ya.Gansukh, Ya.Jambaljav**, M. Lucas. Ground surface temperature variability and permafrost distribution over a mountainous terrain in northern Mongolia. *Arctic, Antarctic, and Alpine Research*. 2020; 52: 13-26. <https://doi.org/10.1080/15230430.2019.1704347>. (Impact factor 1.78)
 16. Schäffer M, Hellmann C, **Avlyush S**, Borchardt D. The key role of increased fine sediment loading in shaping macroinvertebrate communities along a multiple stressor gradient in a Eurasian steppe river (Kharaa River, Mongolia). *International Review of Hydrobiology*. 2020; 105:5-19. <https://doi.org/10.1002/iroh.201902007>. (Impact factor 1.4)

17. **Sukhbaatar C**, Sodnom T, Hauer C. Challenges for hydropeaking mitigation in an ice-covered river: A case study of the Eg hydropower plant, Mongolia. *River Research & Applications*. 2020; 36:1416-1429. <https://doi.org/10.1002/rra.3661>. (Impact factor 1.9)
18. Wadnerkar, P. D., **Batsaikhan, B.**, Conrad, S. R., Davis, K., Correa, R. E., Holloway, C., White, Sh.A., Sanders, Ch.J. & Santos, I. R. Contrasting Radium-Derived Groundwater Exchange and Nutrient Lateral Fluxes in a Natural Mangrove Versus an Artificial Canal. *Estuaries and Coasts*. 2020. <https://doi.org/10.1007/s12237-020-00778-1>. (Impact factor 2.32)
19. Yu. Yu. Dgebuadzea., A. N. Mironovsky, **B. Mendsaikhan**, Yu. V. Slyn'ko. Rapid Morphological Diversification of the Cyprinid Fish *Oreoleuciscus potanini* (Cyprinidae) in the Course of Formation of a Reservoir in a River of the Semiarid Zone. 2020; 490: 1-15. <https://doi.org/10.1134/S0012496620010019>. (Impact factor 0.4)

2020 онд Web of science-д бүртгэлтэй сэтгүүлд нийтлэгдсэн бүтээлийн жагсаалт:

1. **Batsaikhan, B.**, Lkhamjav, O., Batsaikhan, G., Batsaikhan, N., & Norovsuren, B. Carbon stock estimation using remote sensing data and field measurement in haloxylon ammodendron dominant winter cold desert region of Mongolia. *Annals of Photogrammetry, Remote Sensing & Spatial Information Sciences*. 2020; 5: 9-17. <https://doi.org/10.5194/isprs-annals-V-3-2020-9-2020>.
2. **Bayarsaikhan, S., Mandakh, U., Dorjsuren, A., Batsaikhan, B., Bao, Y., Adiya, Z., & Myagmartseren, P.** Variations of vegetation net primary productivity and its responses to climate change from 1982 to 2015 in Mongolia. *Annals of Photogrammetry, Remote Sensing & Spatial Information Sciences*. 2020; 5: 347-353. <https://doi.org/10.5194/isprs-annals-V-3-2020-347-2020>.
3. Cho W, Chandra R, Lee S, Han J, Lee S, **Tsetsegmaa G, Akhmedi K**, Lee W, Kang H. Cold Hardiness of 8 Hybrid Poplar Clones for the Introduction to Arid and Semi-Arid Areas. *Plant Breeding and Biotechnology*. 2020; 8-11-18. <https://doi.org/10.9787/PBB.2020.8.1.11>
4. Darya I. Lebedeva, Galina A. Yakovleva, Dmitry O. Zaytsev, **Bud Mendsaikhan**. Trematode metacercariae in the eyes of fish from reservoirs of Mongolia. *Ecosystem Transformation*. 2020; 5: 19-26. [DOI: 10.23859/estr-191017](https://doi.org/10.23859/estr-191017).
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6. **Dorjsuren, A., Batsaikhan, B.**, Gansukh, B., Jamsran, C., Nasanbat, E., & Bold, O. Delineation of suitable cropland areas using a GIS based multi-criteria evaluation approach in the central

- agricultural region of Mongolia. *Annals of Photogrammetry, Remote Sensing & Spatial Information Sciences*. 2020; 5: 1445-1450. <https://doi.org/10.5194/isprs-archives-XLIII-B3-2020-1445-2020>
7. Gansukh, B., **Batsaikhan, B.**, **Dorjsuren, A.**, Jamsran, C., & Batsaikhan, N. Monitoring wheat crop growth parameters using time series sentinel-1 and sentinel-2 data for agricultural application in Mongolia. *Annals of Photogrammetry, Remote Sensing & Spatial Information Sciences*. 2020; 5: 989-994. <https://doi.org/10.5194/isprs-archives-XLIII-B3-2020-989-2020>
 8. Suvdantsetseg.B, **Kherlenbayar.B**, Nominbolor.Kh, **Altanbagana.M**, Wanglin Yan, Toshiya Okuro, Chuluun.T, Takafumi Miyasaka, Shaokun Wang, and Xueyong Zhao. Assessment of pastoral vulnerability and its impacts on socio-economy of herding community and formulation of adaptation options. *APN Science Bulletin*. 2020; 10:50-60. <https://doi.org/10.30852/sb.2020.1107>.
 9. Timireva SN, **Batkhisig O**, Sycheva SA, Kononov YuM, Simakova AN, **Byambaa G**, **Telmen T**, Samdandorj M, Filippova KG, Konsnantinov EA. Landscapes, paleosols and climate in the north of Mongolia during the Holocene. *Earth and Environmental Science*. 2020; 438: 012027. <https://doi.org/10.1088/1755-1315/438/1/012027>.