

Lista de lucrări

Teza de doctorat:

“Cercetări privind reabilitarea ecologică a perimetrului minier Bălan, Harghita.” (2011), Universitatea din Petroșani, domeniul Mine, petrol și gaze.

Publicații ISI

1. **Szép R., Mátyás L.:** The role of regional atmospheric stability in high-PM10 concentration episodes in Miercurea Ciuc (Harghita) – Carpathian Journal of Earth and Environmental Sciences, Volume: 9, Issue: 2, Page: 241-250, 2014
2. **Szép R., Mátyás L., Keresztes R., Ghimpusan M.:** Tropospheric Ozone Concentrations - Seasonal and Daily Analysis and its Association with NO and NO₂ as a Function of NO_x in Ciuc Depression – Romania – Revista de Chimie, vol. 67., 2., Page: 205-213, 2016.
3. **Szép R., Keresztes R., Constantin L.:** Multi-model assessment of tropospheric ozone pollution indices of risk to human health and crops, and ozone deposition in Ciuc Depression – Romania, Revista de Chimie, Volume: 67, Issue: 3, Page: 408-413, 2016
4. **Szép R., Keresztes R., Deák Gy., Tobă F., Ghimpusan M.:** The dry deposition of PM10 and PM2.5 to the vegetation and its health effect in the Ciuc basin – Revista de Chimie, Volume: 67, Issue: 4, Page: 639-644, 2016
5. **Szép R., Keresztes R., Korodi A., Tonk Sz.:** Dew point – indirect particulate matter pollution indicator in the Ciuc basin – Harghita, Romania – Revista de Chimie, Volume: 67, Issue: 10, Page: 1914-1921, 2016
6. **Szép R., Keresztes R., Korodi A., Tonk Sz.:** The Examination of the Effects of Relative Humidity on the Changes of Tropospheric Ozone Concentrations in the Ciuc basin, Romania. Revista de Chimie, Volume: 68, Issue: 4, Page: 642-645, 2017
7. **Holban E., Matei M., Gina G., Raischi M., Fronescu S., Daescu A., Petrache G.I., Ilie M., Szép R., Moncea A., Marinescu F., Tociu C.:** Assessment of atmospheric pollution in a cement factory area situated in the eastern part of Romania, Journal of Environmental Protection and Ecology, Volume: 18, Issue: 3, Page: 819-830, 2017
8. **Tociu C., Szép R., Anghel A.M., Marinescu F., Ilie M., Holban E., Matei M., Ghita G., Popescu I., Moncea A., Laslo L., Daescu A.I.:** Possibilities for efficient use of valuable materials from aluminium slag to remove specific pollutants in wastewater, Journal of Environmental Protection and Ecology, Volume: 18, Issue: 3, Page: 842-852, 2017

9. Anghel A.M., Marinescu F., Ilie M., Ghiță G., Ionescu P., Mărcuș I., Tociu C., Moncea A., Mîțiu M., Popescu I., **Szép R.**, Laslo L., Holban E.: Advanced processing of environmental data forestablishing the ecological status of the lower Danube water in terms of nutrients, *Journal of Environmental Protection and Ecology*, Volume: 18, Issue:3, Page: 853-861, 2017
10. Marcus M.I., Vlad M., Mîțiu M.A., Anghel A.M., Laslo L., Ilie M., **Szép R.**, Ghita G., Matei M., Holban E., Dumitru F.D.: Recovery of galvanic sludge by psicho-chemical mechanism, *Journal of Environmental Protection and Ecology*, Volume: 18, Issue: 3, Page: 1117-1126, 2017
11. Nicolae A., Deak Gy., Tudor G., Cirstinoiu C., Zamfir A.S., Uritescu B., Ghita G., Georgescu L.P., Raischi M., Dumitru D., Moncea A.M., Laslo L., **Szép R.**: Comparative analysis on water velocity distribution in the context of riverbed morphology changes and discharge variation, *Journal of Environmental Protection and Ecology*, Volume: 18, Issue: 4, Page: 1649-1657, 2017
12. Tonk Sz., Majdik C. **Szép R.**, Suci M., Rápó E., Boldizsár N.: Biosorption of Cd(II) ions from aqueous solution by eggshell waste kinetic and equilibrium isotherm studies, *Revista de Chimie*, Volume: 68, Issue: 9, Page: 1951-1958, 2017
13. **Szép R.**, Keresztes R., Korodi A., Tonk Sz.: Study of air pollution and atmospheric stability in Ciuc basin – Romania, *Revista de Chimie*, Volume: 68, Issue: 8, Page: 1763-1767, 2017
14. Ilie M., Marinescu F., **Szép R.**, Ghita G., Deak Gy., Anghel A.M., Petrescu A., Uritescu B.; Ecological risk assessment of heavy metals in surface sediments from the Danube river, *Carpathian Journal of Earth And Environmental Sciences*, July 2017, Vol. 12, No. 2, p. 437-445.
15. **Szép R.**, Mateescu E., Nechifor A.C., Keresztes Á.: Chemical characteristics and source analysis on ionic composition of rainwater collected in the Carpathians "Cold Pole", Ciuc basin, Eastern Carpathians – Romania. *Environmental Science and Pollution Research*, Volume: 24, Issue: 35, Page: 27288-27302, 2017, DOI: 10.1007/s11356-017-0318-2
16. Hegedűs O., Šmotlákova Z., Hegedúsova A., Dubajová J., Andrejiová A, Jakabová S., Tonk Sz., **Szép R.**, Pernyeszi T.: Determination of Isocyanates in Workplace Atmosphere by HPLC, *Revista de Chimie*, Volume: 69, Issue: 2, Page: 625-630, 2018
17. Török A., Boldizsár N., Tonk Sz., Buta E., **Szép R.**, Majdik C., Niculae A.G.: Crystal violet dye removal from aqueous solutions using *Elodea canadensis* as biofilter, *Revista de Chimie*, Volume: 68, Issue: 10, Page: 2270-2275, 2017
18. Keresztes A., Petres S., Ghita G., Dumitru F.D., Moncea M.A., Ozunu A., **Szép R.**: Ammonium

Neutralization Effect on Rainwater Chemistry in the Basins of the Eastern Carpathians – Romania, *Revista de Chimie*, Volume: 69, Issue: 1, Page: 57-63, 2018

19. **Szép R.**, Mateescu E., Nita I.A., Birsan M.V., Bodor Zs., Keresztesi Á.: Effects of the Eastern Carpathians on atmospheric circulations and precipitation chemistry from 2006 to 2016 at four monitoring stations (Eastern Carpathians, Romania), *Atmospheric Research*, Volume 214, Issue 1, Pages: 311-328, 2018. DOI: <https://doi.org/10.1016/j.atmosres.2018.08.009>
20. **Robert Szép**, Zsolt Bodor, Ildiko Miklossy, Ion-Andrei Nita, Oana A. Oprea, Ágnes Keresztesi, Influence of peat fires on the rainwater chemistry in intra-mountain basins with specific atmospheric circulations (Eastern Carpathians, Romania), *Science of the Total Environment*, Volume 647, Issue 1, Pages: 275-289, 2019. DOI: <https://doi.org/10.1016/j.scitotenv.2018.07.462>
21. Rápó E., **Szép R.**, Keresztesi Á., Suciú M., Tonk Sz, Adsorptive Removal of Cationic and Anionic Dyes from Aqueous Solutions by Using Eggshell Household Waste as Biosorbent, *Acta Chimica Slovenica*, vol. 65, pages, 2018. DOI: 10.17344/acsi.2018.4401
22. Birsan M.V., Micu D.M., Nita I.A., Mateescu E., **Szép R.**, Keresztesi Á.: Spatio-temporal changes in annual temperature extremes over Romania (1961-2013), *Romanian Journal of Physics*, vol. 64 (7-8), article ID: 816, 2019.
23. Rápó E., Posta K., Suciú M., **Szép R.**, Tonk Sz.: Adsorptive Removal of Remazol Brilliant Violet-5R Dye from Aqueous Solutions using Calcined Eggshell as Biosorbent, *Acta Chimica Slovenica*, vol. 66, 648-658, 2019.
24. Keresztesi Á., Birsan M.V., Nita I.A., Bodor Zs., **Szép R.**, Assessing the neutralisation, wet deposition and source contributions of the precipitation chemistry over Europe during 2000–2017, *Environmental Sciences Europe*, vol. 31, Article number: 50, 2019. <https://doi.org/10.1186/s12302-019-0234-9>
25. Ciocănea C.M., Corpade P.C., Onose D. A., Vânău G.O., Malos C., Petrovici M., **Szep R. E.**: The assessment of lotic ecosystems degradation using multi-criteria analysis and GIS techniques. *Carpathian Journal of Earth and Environmental Sciences*, vol. 14(2), 255-268, 2019.
26. Keresztesi Á., Nita I.A., Birsan M.V., Bodor Zs., **Szép R.**: The risk of cross-border pollution and the influence of regional climate on the rainwater chemistry in the Southern Carpathians, Romania, *Environmental Science and Pollution Research*, 2020. <https://doi.org/10.1007/s11356-019-07478-9>
27. Keresztesi Á., Nita I.A., Birsan M.V., Bodor Zs., Pernyeszi T., Micheu M.M., **Szép R.**: Assessing

the variations in the chemical composition of rainwater and air masses using the zonal and meridional index, *Atmospheric Research*, vol. 237, Article ID: 104846, 2020. <https://doi.org/10.1016/j.atmosres.2020.104846>

28. Birsan M.V., Nita I.A., Craciun A., Sfică L., Radu C., **Szep R.**, Keresztesi Á., Micheu M.M.: Observed changes in mean and maximum monthly wind speed over Romania since AD 1961. *Romanian Reports in Physics*, vol. 72, Article ID: 702, 2020.
29. Nita I.A., Sfica L., Apostol L., Radu C., Keresztesi Á., **Szep R.**: Changes in cyclone intensity over Romania according to 12 tracking methods. *Romanian Reports in Physics*, vol. 72, Article ID: 706, 2020.
30. Bodor K., Bodor Zs., **Szép R.**: The Trend of Trace Elements (Cd, Ni, Pb) from PM_{2.5} and PM₁₀ Aerosols and its Effect on Human Health in Bucharest, Romania, *Revista de Chimie*, vol. 71(3), 433-439, 2020.
31. Rápó E., Aradi L.E., Szabó Á, Posta K., **Szép R.**, Tonk Sz.: Adsorption of Remazol Brilliant Violet-5R Textile Dye from Aqueous Solutions by Using Eggshell Waste Biosorbent, *Scientific Reports*, vol. 10 (8385), 2020.
32. Keresztesi Á., Nita I.A., Boga R., Birsan M.V., Bodor Z., **Szép R.**: Spatial and long-term analysis of rainwater chemistry over the conterminous United States. *Environmental Research*, vol. 188, Article ID: 109872, 2020. <https://doi.org/10.1016/j.envres.2020.109872>.
33. Bodor Z., Bodor K., Keresztesi Á., **Szép R.**: Major air pollutants seasonal variation analysis and long-range transport of PM₁₀ in an urban environment with specific climate condition in Transylvania (Romania). *Environmental Science and Pollution Research*, 2020. <https://doi.org/https://doi.org/10.1007/s11356-020-09838-2>.
34. Micheu M.M., Birsan M.V., **Szép R.**, Keresztesi Á., Nita I.A.: From air pollution to cardiovascular diseases: the emerging role of epigenetics. *Molecular Biology Reports*, 2020. <https://doi.org/10.1007/s11033-020-05570-9>
35. Boga R., Ágnes Keresztesi Á, Bodor Zs., Miklóssy I., Nita I.A., Birsan M.V., Micheu M.M., **Szép R.**: Influence of rising air temperature and solar radiation on the tropospheric ozone in the Ciuc basin, Romania. *Romanian Journal of Physics*, vol. 66, Article ID: 805, 2021.
36. Micheu M.M., Birsan M.V., Nita I.A., Andrei M.D., Nebunu D., Acatrinei C., Sfică L., **Szép R.**, Keresztesi Á, F-dez de Arróyabe Hernáez P., Onciul S., Scafa-Udriste A., Dorobantu M.: Influence of meteorological variables on people with cardiovascular diseases in Bucharest, Romania (2011-2012). *Romanian Reports in Physics*, vol. 73, 2021.

37. Bodor K., Micheu M.M., Keresztesi Á., Birsan M.V., Nita I.A., Bodor Zs., Petres S., Korodi A., **Szép R.**: Effects of PM10 and Weather on Respiratory and Cardiovascular Diseases in the Ciuc Basin (Romanian Carpathians). *Atmosphere*, vol. 12, article number: 289, 2021. <https://doi.org/10.3390/atmos12020289>
38. Boga, R., Keresztesi, Á., Bodor, Zs., Tonk, Sz., **Szép, R.**, Micheu, M.M., Source identification and exposure assessment to PM10 in the Eastern Carpathians, Romania. *J Atmos Chem*, 2021. <https://doi.org/10.1007/s10874-021-09421-0>
39. Kósa CsA, Nagy K, Szenci O, Baska-Vincze B, Andrásófszky E, **Szép R**, Keresztesi Á, Mircean M, Taulescu M, Kutasi O (2021) The role of selenium and vitamin E in a Transylvanian enzootic equine recurrent rhabdomyolysis syndrome. *Acta Veterinaria Hungarica* 69 (3).
40. Bodor, K., Bodor, Z. & **Szép, R.** Spatial distribution of trace elements (As, Cd, Ni, Pb) from PM10 aerosols and human health impact assessment in an Eastern European country, Romania. *Environ Monit Assess* 193, 176 (2021). <https://doi.org/10.1007/s10661-021-08931-4>
41. Katalin BODOR, Zsolt BODOR, Alexandru SZÉP, **Róbert SZÉP**, Human health impact assessment and temporal distribution of trace elements in Copșa Mică- Romania, *Scientific Reports*, 11:7049, 2021.
42. Katalin BODOR, Zsolt BODOR, Alexandru SZÉP, **Róbert SZÉP**, Classification and hierarchical cluster analysis of principal Romanian bottled mineral waters, *Journal of Food Composition and Analysis*, 100, 2021, 103903.
43. Katalin BODOR, **Róbert SZÉP**, Zsolt BODOR, The human health risk assessment of particulate air pollution (PM2.5 and PM10) in Romania, *Toxicology Reports*, 9, 2022, 556-562.
44. BODOR K., **SZÉP R.**, BODOR Z., Time series analysis of the air pollution around Ploiesti oil refining complex, one of the most polluted regions in Romania. *Scientific Reports*, 12, 11817, 2022.
45. Bodor K., **Szép R.**, Keresztesi Á. Bodor Z., Temporal evolution of PM2.5, PM10, and total suspended particles (TSP) in the Ciuc basin (Transylvania) with specific microclimate condition from 2010 to 2019. *Environ Monit Assess.* 2023 Jun 2;195(7):798. doi: 10.1007/s10661-023-11407-2.
46. K. Bodor, B. Tokos, Zs. Bodor, Á. Keresztesi, Sz. László, G. Garbacea, **R. Szép**, Hydrogeochemical characterization of the main European mineral water brands, *Journal of Food Composition and Analysis*, Volume 122, 2023, 105438, <https://doi.org/10.1016/j.jfca.2023.105438>.

47. Katalin Bodor, **Róbert Szép**, Zsolt Bodor, Examination of air pollutants and their risk for human health in urban and suburban environments for two Romanian cities: Brasov and Iasi, Heliyon, Volume 9, Issue 11, 2023, e21810, ISSN 2405-8440, <https://doi.org/10.1016/j.heliyon.2023.e21810>.

* – autor correspondent

Publicații ISI proceedings

1. Korodi, A., Petres, S., **Keresztesi, Á.**, Szép R., - Sustainable Development. Theory or Practice? - International Multidisciplinary Scientific GeoConference & EXPO SGEM2017 –Environmental Legislation, Multilateral Relations and Funding Opportunities, Volume: 17, Issue: 54, Page: 387-393, 2017.
2. Petres, S., Korodi, A., Keresztes, R., **Szép R.**, Tendencies and particularities in thermic inversion episodes in the Ciuc Basin – Eastern Carpathians, Romania, Applied and Environmental Geophysics, Volume: 17, Issue: 14, Page: 445-452, 2017.
3. **Szép Robert**, Borboly Csaba, Victor Arad, Susana Arad, Reabilitation method of the areas wich are naturally contaminated with heavy elements in metaliferrous district of Bălan (România, Harghita, Eastern Carpathians) – immobilization with apatite, Ecology and Environmental Protection, Enviromental Legislation, Multilateral Relation and Funding Opportunities, Volume V – issn 1314-2704, page. 675 – 684, 2012, doi:10.5593/sgem, <http://www.sgem.org/index.php/call-for-papers/impact-factor>
4. **Szép Robert**, Borboly Csaba, Victor Arad, Susana Arad, Utilization of the Chauvenet statistical test in environmental researches respectively biogeochemical prospection for establishment of found value, threshold value and anomalous values, Ecology and Environmental Protection, Enviromental Legislation, Multilateral Relation and Funding Opportunities, Volume V, – issn 1314-2704, page. 995 – 1000, 2012, doi:10.5593/sgem.
5. Radu Violeta-Monica, Ionescu Petra, **Szép Robert**, Tănase Georgiana Simona, Raischi Simona, Evaluation of priority hazardous substances present in the sediments of the lower Danube section using multivariate statistical analysis, Water Resources. Forest, Marine and Ocean Ecosystems, Volume 1, Page: 277-283, 2015. ISBN 978-619-7105-36-0, ISSN 1314-2704, DOI 10.5593/sgem
6. Ionescu Petra, Radu Violeta-Monica, Szép Robert, Tănase Georgiana Simona, Boboc Mădălina, Characterization of metal flow dynamics along the lower section of Danube River using correlation algorithms. Water Resources. Forest, Marine and Ocean Ecosystems, Volume 1, Issue: 1, Page: 129-135, 2015. ISBN 978-619-7105-36-0, ISSN 1314-2704, DOI 10.5593/sgem
7. Tiberius Danalache, Robert Szep, Alin Badilita, Madalina Georgiana Boboc, Stefan Diaconescu, Ecological assessment of lower Danube river baed on the ichthyifauna structure and composition. Water Resources. Forest, Marine and Ocean Ecosystems, Volume 1, Issue: 1, Page: 237-244 , 2015. ISBN 978-619-7105-36-0, ISSN 1314-2704, DOI 10.5593/sgem

Publicații BDI

1. Florina-Diana Dumitru, Ana-Maria Panait, Marius-Viorel Olteanu, Elena Holban, György Deák, **Robert Szép**, Ágnes Keresztesi, Assessing the preservation state of a Romanian historic concrete icon – the Constanta Casino, *Ecoterra*, Volume: 14, Issue: 3, pp. 1-7, 2017.
2. Simona Natalia Raischi, **Robert Szép**, Cristina Mihaela Balaceanu, Marius Raischi, Diana Dumitru, Andreea Moncea, Lucian Laslo, György Deák, Ágnes Keresztesi, Air pollution analysis in Moldova Noua waste dump, *Ecoterra*, Volume: 14, Issue: 2, Pages: 70-77, Published: June 2017
3. Sorin Avram, Andreea M. Ciuiinel, Claudiu Iușan, Andreea M. Manolache, Sandu Ș. Negreanu, Nicolae Manta, **Róbert Szép**, Applying a new methodology for cave degradation assessment in Romania - case study on Rodna Mountains National Park, *ELBA Bioflux*, vol. 9, Issue 1, pages: 22 – 31, 2017
4. Borboly Csaba, **Szép Róbert**, Contamination /respectively pollution with pesticides of the soils in the plant protection center of Miercurea Ciuc, *Annals of the University of Petrosani, Mining Engineering*, Volume: 13, Pages: 314-322, 2012.
5. **Szép R.**, Arad, V., Arad, S., Salcia energetică o oportunitate privind utilizarea terenurilor degradate din zonele miniere, *Revista Minelor*, Issue: 9-10, Pages: 53-56, 2008.
6. Katalin Bodor, Zsolt Bodor, Ágnes Keresztesi, **Róbert Szép**, PM₁₀ concentration reduction due to the wet scavenging in the Ciuc Basin, Romania, *Acta Univ. Sapientiae, Agriculture and Environmnt*, 12 (2020) 1-8, DOI: 10.2478/ausae-2020-0001
7. Katalin Bodor, Zsolt Bodor, **Róbert Szép**, Alexandru Szép, Characterization of some bottled Romanian mineral waters on the basis of the total mineral content, *Acta Univ. Sapientiae, Alimentaria*, 13 (2020) 85-98, DOI: 10.2478/ausal-2020-0005

Proiecte de cercetare


1. Membru în echipa de proiect InSPIRES - Participatory study of chemical and biological characteristics and public health aspects of fog and precipitations in closed basins of Harghita County (Romania) **Horizon 2020 nr. 741677(20-009, amendament 20-231)**
2. Responsabil proiect (partener) ADER 16.3.4. - “Studii și cercetări privind dezvoltarea fermelor și gospodăriilor țărănești montane prin optimizarea utilizării pajiștilor silvo-pastorale bazată pe amenajarea, evaluarea valorii nutritive și a capacității de încărcare a acestora pe specii de animale, bovine, ovine, caprine, existente la nivel local, comparativ cu rasele specializate”, în perioada 2019-2020; **nr. contract ADER**

16.3.4/17.09.2019.

3. Responsabil proiect ADER 5.2.1. - "Cercetări privind perfecționarea sistemului de monitorizare, prevenire și control a principalelor boli bacteriene și dăunători de carantină care afectează producerea cartofului în România, Clavibacter, Ralstonia, Synchitrium endobioticum, Dithylenchus sp", în perioada 2019-2021; **nr. contract ADER 5.2.1/19.09.2019.**
4. Responsabil proiect ADER 5.2.2. - "Cercetări privind elaborarea unui sistem inovativ de monitorizare a afidofaunei și a sistemelor de monitorizare, control și testare a calității biologice la cartoful de sămânță", în perioada 2019-2021; **nr. contract ADER 5.2.2/01.10.2019.**
5. Responsabil proiect ADER 7.3.15. - "Stabilirea măsurilor și mijloacelor de prevenire și combatere integrată a dăunătorului Tuta absoluta, molia minieră la culturile de tomate în spații protejate", în perioada 2019-2021; **nr. contract ADER 7.3.15/16.09.2019.**
6. Responsabil proiect în proiectul "Planul sectorial pentru cercetare-dezvoltare din domeniul agricol și de dezvoltare rurală al Ministerului Agriculturii și Dezvoltării Rurale pe anii 2019-2022" – ADER 16.3.4: Studii și cercetări privind dezvoltarea fermelor și gospodăriilor țărănești montane prin optimizarea utilizării pajiștilor silvo-pastorale bazată pe amenajarea, evaluarea valorii nutritive și a capacității de încărcare a acestora pe specii de animale, bovine, ovine, caprine, existente la nivel local, comparativ cu rasele specializate, **Contract Nr. 16.3.4/17.09.2019.**
7. Manager proiect în proiectul ProiManaect: WideTheSEEbySuccMod, Contract nr. SEE/A/080/2.4/X.
8. Manager proiect în proiectul Save Agency, Contract nr. SAVE 4.1031/A/02-002.
9. Manager proiect în proiectul Leonardo da Vinci – E-SUN, Contract nr. ES/05/B/F/PP-149315.
10. Manager proiect în proiectul Energy Trophy+ Competition Contract nr. EIE/06/209/SI2.448705.
11. Manager proiect în proiectul RESINBUIL – Introduction of RES in Building sector, Contract nr. EIE/05/210/SI2.420236.
12. Manager proiect în proiectul e-TREAM, e-learning tool for training Energy Agencies in mobility management and alternative fuels, Contract nr. EIE/05/094/SI2.419551.
13. Director de proiect în proiectul Programul Operațional Sectorial Creșterea Competitivității Economice, axa prioritară – Tehnologia Informației și Comunicațiilor pentru sectoarele privat și public; domeniul major de intervenție – Dezvoltarea și Creșterea Eficienței Serviciilor Publice Electronice; – Realizarea și implementarea unui sistem complex e-guvernare la Consiliul Județean Harghita; **Contract Nr. 304/321/18.05.2011**

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- Precipitation across the Middle East. *Water* 2022, 14, 2657.
<https://doi.org/10.3390/w14172657>.
6. Kumar, R., Kumar, R., Singh, A. *et al.* Chemometric approach to evaluate the chemical behavior of rainwater at high altitude in Shaune Garang catchment, Western Himalaya. *Sci Rep* 12, 12774 (2022).
<https://doi.org/10.1038/s41598-022-15422-0>.
 7. Zhong, Y., Li, X., Fan, Z., Ayitken, M., Li, S. and Liu, X., 2022. Chemical Composition Characteristics and Source Contributions of Precipitation in Typical Cities on the North Slope of Tianshan Mountain in Xinjiang during 2010–2019. *Atmosphere*, 13(5), p.646.
 8. Chang, C.T., Yang, C.J., Huang, K.H., Huang, J.C. and Lin, T.C., 2022. Changes of precipitation acidity related to sulfur and nitrogen deposition in forests across three continents in north hemisphere over last two decades. *Science of the Total Environment*, 806, p.150552.
 9. Ahmady-Birgani, H., Ravan, P., Simon Schlosser, J., Cuevas-Robles, A., AzadiAghdam, M. and Sorooshian, A., 2021. Is There a Relationship between Lake Urmia Saline Lakebed Emissions and Wet Deposition Composition in the Caucasus Region?. *ACS Earth and Space Chemistry*, 5(10), pp.2970-2985.
 10. Peikam, E.N. and Jalali, M., 2021. Chemical composition of rainwater at an urban and two rural stations in the west of Iran, Hamedan. *Environmental Earth Sciences*, 80(17), pp.1-17.
 11. Pereira, J.N.; Fornaro, A.; Vieira-Filho, M. Source Apportionment of Atmospheric Deposition Species in an Agricultural Brazilian Region Using Positive Matrix Factorization. *Environ. Sci. Proc.* 2021, 8, 9.
<https://doi.org/10.3390/ecas2021-10698>
 12. Chung-Te Chang, Ci-Jian Yang, Ko-Han Huang, Jr-Chuan Huang, Teng-Chiu Lin, Changes of precipitation acidity related to sulfur and nitrogen deposition in forests across three continents in north hemisphere over last two decades, *Science of The Total Environment*, Volume 806, Part 1, 2022, 150552, ISSN 0048-9697,
<https://doi.org/10.1016/j.scitotenv.2021.150552>.
 13. Elahe Naderi Peikam, Mohsen Jalali, Chemical composition of rainwater at an urban and two rural stations in the west of Iran, Hamedan, *Environmental Earth Sciences*, (2021) 80:605
<https://doi.org/10.1007/s12665-021-09865-3>.
 14. Shaorun Lin, Yanhui Liu, Xinyan Huang, Climate-induced Arctic-boreal peatland fire and carbon loss in the 21st century, *Science of The Total Environment*, 2021, 148924, ISSN 0048-9697,
<https://doi.org/10.1016/j.scitotenv.2021.148924>.
 15. Jie Zeng, Guilin Han, Rainwater chemistry observation in a karst city : variations, influence factors, sources, and potential environmental effects, *PeerJ* 9:e11167, 2021, DOI: 10.7717/peerj.11167
 16. Bartos, Hunor; Balázs, Márta; Kuzman, Ildikó H.; Lányi, Szabolcs; Miklóssy, Ildikó. 2021. "Production of High Added-Value Chemicals in *Basfia succiniciproducens*: Role of Medium Composition" *Sustainability* 13, no. 6: 3513. <https://doi.org/10.3390/su13063513>
 17. A Review of Smoldering Wildfire: Research Advances and Prospects, Huang, X.-Y., Lin, S.-R., Liu, N.-A. *Kung Cheng Je Wu Li Hsueh Pao/Journal of Engineering Thermophysics*.

18. Jie Zeng, Guilin Han, Rainwater Chemistry Reveals Air Pollution in a Karst Forest: Temporal Variations, Source Apportionment, and Implications for the Forest, *Atmosphere*, 11(12), 1315, 2020.
<https://doi.org/10.3390/atmos11121315>
19. Liyandeniya, A., Deeyamulla, M. & Priyantha, N. Atmospheric chemical composition of bulk deposition at two geographically distinct locations in Sri Lanka. *Environ Monit Assess* 192, 452 (2020).
<https://doi.org/10.1007/s10661-020-08412-0>
20. Jie Zeng, Fu-Jun Yue, Si-Liang Li, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Ze-Long Yan, Determining rainwater chemistry to reveal alkaline rain trend in Southwest China: Evidence from a frequent-rainy karst area with extensive agricultural production, *Environmental Pollution*, Volume 266, Part 3, 2020, 115166, ISSN 0269-7491, <https://doi.org/10.1016/j.envpol.2020.115166>.
21. ONDREJ HEGEDŰS, KATARÍNA SZARKA, ALŽBETA HEGEDŰSOVÁ, ZSUZSANNA GÓDÁNY, MIROSLAV ŠLOSÁR, AURELIA CRISTINA NECHIFOR and SZENDE TONK, alidation and quality assurance of ascorbic acid determination in agricultural products, Volume 70, No. 7, 2019.
22. Jie Zenf, Fu-Jun Yue, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Si-Liang Li, Quantifying depression trapping effect on rainwater chemical composition during the rainy season in karst agricultural area, southwestern China, *Atmospheric Environment*, 218, 2019.
23. Jie Zeng, Guilin Han, Qixin Wu, Yang Tang, Effects of agricultural alkaline substances on reducing the rainwater acidification: insight from chemical composition and calcium isotopes in karst forests area, *Agriculture, Ecosystems & Environment*, 290, 2020.
24. Ion Marius Nafliu, Hussam Nadum Abdalraheem Al-Ani, Alexandra Raluca Grosu (Miron), Paul Constantin Albu, Gheorghe Nechifor, Iono-molecular separation with composite membranes, VIII recuperative aluminium ions separation on capillary polypropylene S_EPDM composite membranes, *Materiale plastice*, 56, 1, 2019.
25. Ion Marius Nafliu, Alexandra Raluca Grosu (Miron), Hussam Nadum Abdalraheem Al-Ani, Paul Constantin Albu, Gavril Gheorghevici, Mihaela Emanuela Craciun, Neutralization with simultaneously separation of aluminum ions from condensate water through cellulose derivatives-capillary polypropylene composite membranes, *Materiale Plastice*, 56, 2, 2019.
26. Chathuranga, R.A.J., Liyandeniya, A.B., Dharmapriya, T.N. *et al.* Risk assessment and source apportionment of wet bulk deposition in three typical sites of Gampaha District, Sri Lanka. *SN Appl. Sci.* 2, 1394 (2020).
<https://doi.org/10.1007/s42452-020-3007-6>
27. Lin Ma, Hossein Dadashazar, Miguel Ricardo A. Hilario, Maria Obiminda Cambaliza, Genevieve Rose Lorenzo, James Bernard Simpas, Phu Nguyen, Armin Sorooshian, Contrasting wet deposition composition between three diverse islands and coastal North American sites, *Atmospheric Environment*, Volume 244, 2021, 117919, ISSN 1352-2310,
<https://doi.org/10.1016/j.atmosenv.2020.117919>.
28. Chen, H.-Y.; Hsu, L.-F.; Huang, S.-Z.; Zheng, L. Assessment of the Components and Sources of Acid Deposition in Northeast Asia: A Case Study of the

	<p>Coastal and Metropolitan Cities in Northern Taiwan. <i>Atmosphere</i> 2020, 11, 983. https://doi.org/10.3390/atmos11090983</p> <p>29. Valappil, N.K.M., Viswanathan, P.M. & Hamza, V. Chemical characteristics of rainwater in the tropical rainforest region in northwestern Borneo. <i>Environ Sci Pollut Res</i> 27, 36994–37010 (2020). https://doi.org/10.1007/s11356-020-09542-1</p> <p>30. Majumdar, A., Satpathy, J., Kayee, J. et al. Trace metal composition of rainwater and aerosol from Kolkata, a megacity in eastern India. <i>SN Appl. Sci.</i> 2, 2122 (2020). https://doi.org/10.1007/s42452-020-03933-2</p> <p>31. Mishra, A.K., 2021. Nature and sources of ionic species in rainwater during monsoon periods in and around sixteenth–seventeenth century CE monuments in Yamuna River basin, India. <i>Environmental Monitoring and Assessment</i>, 193(2), pp.1-13.</p> <p>32. Gabrielle Nunes da Silva, Leticia Delduque Alves, Isabella Escobar dos Santos, Daniele Maia Bila, Alfredo Akira Ohnuma Júnior, Sérgio Machado Corrêa, An assessment of atmospheric deposition of metals and the physico-chemical parameters of a rainwater harvesting system in Rio de Janeiro Brazil, by means of statistical multivariate analysis, <i>Rev. Ambient. Água</i> vol. 15 n. 4, e2522 - Taubaté 2020.</p> <p>33. Alexandra Beal, Leila D. Martins, Jorge A. Martins, Anderson P. Rudke, Daniela S. de Almeida, Leticia M. Costa, César R.T. Tarley, Evaluation of the chemical composition of hailstones from triple border Paraná, Santa Catarina (Brazil) and Argentina, <i>Atmospheric Pollution Research</i>, 2021, ISSN 1309-1042, https://doi.org/10.1016/j.apr.2021.01.009.</p> <p>34. Subash Adhikari, Fan Zhang, Namita Paudel Adhikari, Chen Zeng, Ramesh Raj Pant, Kirpa Ram, Yongqin Liu, Nasir Ahmed, Jie Xu, Lekhendrar Tripathi, Qiangong Zhang, Md. Abdul Quaiyum Bhuiyan, Md. Ariful Ahsan, Atmospheric wet deposition of major ionic constituents and inorganic nitrogen in Bangladesh: Implications for spatiotemporal variation and source apportionment, <i>Atmospheric Research</i>, Volume 250, 2021, 105414, ISSN 0169-8095, https://doi.org/10.1016/j.atmosres.2020.105414.</p> <p>35. Shan Jiang et al., Nitrogen in Atmospheric Wet Depositions Over the East Indian Ocean and West Pacific Ocean: Spatial Variability, Source Identification, and Potential Influences, <i>Frontiers in Marine Science</i> 7:600843, 2021. <i>Front. Mar. Sci.</i>, 25 January 2021 https://doi.org/10.3389/fmars.2020.600843</p>
2	<p>Robert Szép, Elena Mateescu, Ion-Andrei Nita, Marius-Victor Birisan, Zsolt Bodor, Ágnes Keresztesi*, Effects of the Eastern Carpathians on atmospheric circulations and precipitation chemistry from 2006 to 2016 at four monitoring stations (Eastern Carpathians, Romania), <i>Atmospheric Research</i>, Volume 214, Issue 1, Pages: 311 – 328, 2018.</p> <ol style="list-style-type: none"> Małeck, Jerzy & Matyjasik, Marek & Krogulec, Ewa & Porowska, Dorota. (2022). Long-term trends and factors influencing rainwater chemistry in the Tatra Mountains, Poland. <i>Geology, Geophysics and Environment</i>. 48. 19-38. 10.7494/geol.2022.48.1.19. Major, Maciej & Chudzińska, Maria & Majewski, Mikołaj. (2023). Wielkość dostawy wybraanych zanieczyszczeń atmosferycznych i ich wpływ na jakość wód w zurbanizowanej zlewni Różanego Strumienia w Poznaniu w latach hydrologicznych 2016-2020 = The level of supply of selected

- atmospheric pollutants and their impact on water quality in the urban catchment of Różany Strumień in Poznan, Poland, in hydrological years 2016-2020. *Przegląd Geograficzny*. 94. 415-436. 10.7163/PrzG.2022.4.1.
3. Wang, Bo; Yao, Xuliang; Jiang, Yongqing; Sun, Chao, Energy Saving Configuration of Embedded Sensor Transfer Nodes in the LOT for Dust Movement Monitoring in an Atmospheric Environment from the Health Perspective, *Journal Of Testing And Evaluation*, DOI 10.1520/JTE20210443, Early Access, APR 2022, 2022-11-19
 4. Sosa-Echeverría, Rodolfo & Alarcón, Ana & Barrera, María & Alvarez, Pablo & Hernández, Elías & Vega, Elizabeth & Jaimes, Monica & Retama, Armando & Gay, David. (2022). Nitrogen and sulfur compounds in ambient air and in wet atmospheric deposition at Mexico city metropolitan area. *Atmospheric Environment*. 119411. 10.1016/j.atmosenv.2022.11941
 5. Zeng, Jie & Han, Guilin & Zhang, Shitong & Xiao, Xuhuan & Li, Yikai & Xi, Gao & Wang, Di & Qu, Rui. (2022). Rainwater chemical evolution driven by extreme rainfall in megacity: Implication for the urban air pollution source identification. *Journal of Cleaner Production*.
 6. Kumar, R., Kumar, R., Singh, A. *et al.* Chemometric approach to evaluate the chemical behavior of rainwater at high altitude in Shaune Garang catchment, Western Himalaya. *Sci Rep* 12, 12774 (2022). <https://doi.org/10.1038/s41598-022-15422-0>.
 7. Li, R.F., Dong, X.Y., Xie, C. and Zhao, L.J., 2022. Long-term observations of the chemical composition, fluxes and sources of atmospheric wet deposition at an urban site in Xi'an, Northwest China. *Environmental monitoring and assessment*, 194(2), pp.1-21.
 8. Ravan, P., Ahmady-Birgani, H., Solomos, S., Yassin, M.F. and Abasalinezhad, H., 2022. Wet Scavenging in Removing Chemical Compositions and Aerosols: A Case Study Over the Lake Urmia. *Journal of Geophysical Research: Atmospheres*, 127(6), p.e2021JD035896.
 9. Zhong, Y., Li, X., Fan, Z., Ayitken, M., Li, S. and Liu, X., 2022. Chemical Composition Characteristics and Source Contributions of Precipitation in Typical Cities on the North Slope of Tianshan Mountain in Xinjiang during 2010–2019. *Atmosphere*, 13(5), p.646.
 10. Jing Li, Huawu Wu, Pengju Jiang, Congsheng Fu, Rainwater chemistry in a subtropical high-altitude mountain site, South China: Seasonality, source apportionment and potential factors, *Atmospheric Environment*, Volume 268, 2022, 118786, ISSN 1352-2310, <https://doi.org/10.1016/j.atmosenv.2021.118786>.
 11. Krasavtseva, E.; Maksimova, V.; Makarov, D.; Potorochin, E. Modelling of the Chemical Halo of Dust Pollution Migration in Loparite Ore Tailings Storage Facilities. *Minerals* 2021, 11, 1077. <https://doi.org/10.3390/min11101077>
 12. Naseem, M., Kulshrestha, U.C. Wet deposition of atmospheric inorganic reactive nitrogen (Nr) across an urban-industrial-rural transect of Nr emission hotspot (India). *J Atmos Chem* (2021). <https://doi.org/10.1007/s10874-021-09425-w>
 13. Zeng, J.; Ge, X.; Wu, Q.; Zhang, S. Three-Year Variations in Criteria Atmospheric Pollutants and Their Relationship with Rainwater Chemistry in Karst Urban Region, Southwest China. *Atmosphere* 2021, 12, 1073. <https://doi.org/10.3390/atmos12081073>

14. Yixi Qiu, Joseph David Felix, Hurricane/tropical storm rainwater chemistry in the US (from 2008 to 2019), *Science of The Total Environment* 798(12):149009, DOI: 10.1016/j.scitotenv.2021.149009.
15. Gagi, V.; Mateescu, E.; Dobre, A.A.; Smeu, I.; Cucu, M.E.; Oprea, O.A.; Alexandru, D.; Iorga, E.; Belc, N. Deoxynivalenol Occurrence in Triticale Crops in Romania during the 2012–2014 Period with Extreme Weather Events. *Toxins* 2021, 13, 456. <https://doi.org/10.3390/toxins13070456>
16. Emmanuel Ubuoh, Fredian Uchenna Nwogu, E.C. Osuagwu, Wet deposition chemistry and neutralization potential in oil producing region of southern Nigeria, *Journal of Environmental Management*, 89(11):112431, 2021, DOI: 10.1016/j.jenvman.2021.112431
17. Carolyn E. Jordan, Ryan M. Stauffer, Brian T. Lamb, Charles H. Hudgins, Kenneth L. Thornhill, Gregory L. Schuster, Richard H. Moore, Ewan C. Crosbie, Edward L. Winstead, Bruce E. Anderson, Robert F. Martin, Michael A. Shook, Luke D. Ziemba, Andreas J. Beyersdorf, Claire E. Robinson, Chelsea A. Corr, and Maria A. Tzortziou, New in situ aerosol hyperspectral optical measurements over 300–700 nm – Part 1: Spectral Aerosol Extinction (SpEx) instrument field validation during the KORUS-OC cruise, *Atmos. Meas. Tech.*, 14, 695–713, 2021, <https://doi.org/10.5194/amt-14-695-2021>
18. Jie Zeng, Guilin Han, Rainwater chemistry observation in a karst city : variations, influence factors, sources, and potential environmental effects, *PeerJ* 9:e11167, 2021, DOI: 10.7717/peerj.11167
19. Han, T.N., Pham, T.T.H. and Nguyen, M.K., 2021. Study on Acidity and Neutralizing Ability of Ions in the Chemical Composition of Rainwater. *VNU Journal of Science: Earth and Environmental Sciences*, 37(2).
20. Ilker Oruc, Emilia Georgieva, Elena Hristova, Krum Velchev, Goksel Demir & Bulent Oktay Akkoyunlu, Wet Deposition in the Cross-Border Region Between Turkey and Bulgaria: Chemical Analysis in View of Cyclone Paths, *Bulletin of Environmental Contamination and Toxicology*, 2021, <https://doi.org/10.1007/s00128-021-03210-x>
21. Bodor Katalin, Boga Reka, Pernyeszi Timea, Tonk Szende, Deak Gyorgy, Variation of PM10 concentration depending on the meteorological parameters in two Bucharest monitoring stations (in green areas), 1, *PESD*, DOI: 10.15551/pesd2020141022, Pag. 277-292.
22. Chen, H.Y., Hsu, L.F., Huang, S.Z. and Zheng, L., 2020. Assessment of the Components and Sources of Acid Deposition in Northeast Asia: A Case Study of the Coastal and Metropolitan Cities in Northern Taiwan. *Atmosphere*, 11(9), p.983.
23. Bartos, Hunor; Balázs, Márta; Kuzman, Ildikó H.; Lányi, Szabolcs; Miklóssy, Ildikó. 2021. "Production of High Added-Value Chemicals in *Basfia succiniciproducens*: Role of Medium Composition" *Sustainability* 13, no. 6: 3513. <https://doi.org/10.3390/su13063513>
24. Jie Zeng, Guilin Han, Rainwater Chemistry Reveals Air Pollution in a Karst Forest: Temporal Variations, Source Apportionment, and Implications for the Forest, *Atmosphere*, 11(12), 1315, 2020. <https://doi.org/10.3390/atmos11121315>
25. Jie Zengyngtze, Fu-Jun Yue, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Si-Liang Li, Quantifying depression trapping effect on rainwater chemical composition during the rainy season in karst agricultural area,

- southwestern China, *Atmospheric Environment*, 218, 2019.
26. Jie Zeng, Guilin Han, Qixin Wu, Yang Tang, Effects of agricultural alkaline substances on reducing the rainwater acidification: insight from chemical composition and calcium isotopes in karst forests area, *Agriculture, Ecosystems & Environment*, 290, 2020.
 27. Ismail Anil, Omar Alagha, Nawaf I. Blaisi, Iehab Abdelilah Mohamed, Mohammad Hisham Barghouthi, Mohammad Saood Manzar, Source identification of episodic rain pollutants by a new approach: combining satellite observations and backward air mass trajectories, *Aerosol and Air Quality Research*, 19:2828-2843, 2019.
 28. ONDREJ HEGEDŰS, KATARÍNA SZARKA, ALŽBETA HEGEDŰSOVÁ, ZSUZSANNA GÓDÁNY, MIROSLAV ŠLOSÁR, AURELIA CRISTINA NECHIFOR and SZENDE TONK, alidation and quality assurance of ascorbic acid determination in agricultural products, Volume 70, No. 7, 2019.
 29. Jie Zeng, Fu-Jun Yue, Si-Liang Li, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Ze-Long Yan, Determining rainwater chemistry to reveal alkaline rain trend in Southwest China: Evidence from a frequent-rainy karst area with extensive agricultural production, *Environmental Pollution*, Volume 266, Part 3, 2020, 115166, ISSN 0269-7491, <https://doi.org/10.1016/j.envpol.2020.115166>.
 30. Yu Zhao, Qi Feng, Aigang Lu, Variation of chemical characteristics of precipitation with respect to altitude gradient on the northern slope of Mt. Taibai, China, *Journal of Atmospheric and Solar-Terrestrial Physics*, 197, 2020.
 31. Ion Marius Nafliu, Hussam Nadum Abdalraheem Al-Ani, Alexandra Raluca Grosu (Miron), Paul Constantin Albu, Gheorghe Nechifor, Iono-molecular separation with composite membranes, VIII recuperative aluminium ions separation on capillary polypropylene S_EPDM composite membranes, *Materiale plastice*, 56, 1, 2019.
 32. Lin Ma, Hossein Dadashazar, Miguel Ricardo A. Hilario, Maria Obiminda Cambaliza, Genevieve Rose Lorenzo, James Bernard Simpas, Phu Nguyen, Armin Sorooshian, Contrasting wet deposition composition between three diverse islands and coastal North American sites, *Atmospheric Environment*, Volume 244, 2021, 117919, ISSN 1352-2310, <https://doi.org/10.1016/j.atmosenv.2020.117919>.
 33. Alberto Cuevas-Robles, Naghmeh Soltani, Behnam Keshavarzi, Jong-sang Youn, Alexander B. MacDonald, Armin Sorooshian, Hygroscopic and chemical properties of aerosol emissions at a major mining facility in Iran: Implications for respiratory deposition, *Atmospheric Pollution Research*, 2021, ISSN 1309-1042, <https://doi.org/10.1016/j.apr.2020.12.015>.
 34. Carolyn E. Jordan, Ryan M. Stauffer, Brian T. Lamb et al., , New In Situ Aerosol Hyperspectral Optical Measurements over 300–700 nm, Part 2: Extinction, Total Absorption, Water- and Methanol-soluble Absorption observed during the KORUS-OC cruise, 2020, <https://doi.org/10.5194/amt-14-715-2021>
 35. Alexandra Beal, Leila D. Martins, Jorge A. Martins, Anderson P. Rudke, Daniela S. de Almeida, Letícia M. Costa, César R.T. Tarley, Evaluation of the chemical composition of hailstones from triple border Paraná, Santa Catarina (Brazil) and Argentina, *Atmospheric Pollution Research*, 2021, ISSN

	<p>1309-1042, https://doi.org/10.1016/j.apr.2021.01.009.</p> <p>36. Mind'as, Jozef; Hanzelova, Miriam; Skvareninova, Jana; et al., Long-Term Temporal Changes of Precipitation Quality in Slovak Mountain Forests, WATER Volume: 12 Issue: 10 Article Number: 2920, 2020. DOI: 10.3390/w12102920</p> <p>37. ZongJie Li, ZongXing Li, LingLing Song, Juan Gui, Jian Xue, BaiJian Zhang, WenDe Gao, Precipitation chemistry in the Source Region of the Yangtze River, Atmospheric Research, Volume 245, 2020, 105073, ISSN 0169-8095, https://doi.org/10.1016/j.atmosres.2020.105073.</p> <p>38. Subash Adhikari, Fan Zhang, Namita Paudel Adhikari, Chen Zeng, Ramesh Raj Pant, Kirpa Ram, Yongqin Liu, Nasir Ahmed, Jie Xu, Lekhendra Tripathee, Qianggong Zhang, Md. Abdul Quaiyum Bhuiyan, Md. Ariful Ahsan, Atmospheric wet deposition of major ionic constituents and inorganic nitrogen in Bangladesh: Implications for spatiotemporal variation and source apportionment, Atmospheric Research, Volume 250, 2021, 105414, ISSN 0169-8095, https://doi.org/10.1016/j.atmosres.2020.105414.</p> <p>39. Ion Marius Nafliu, Alexandra Raluca Grosu (Miron), Hussam Nadum Abdalraheem Al-Ani, Paul Constantin Albu, Gavril Gheorghevi, Mihaela Emanuela Craciun, Neutralization with simultaneously separation of aluminum ions from condensate water through cellulose derivatives-capillary polypropylene composite membranes, Materiale Plastice, 56, 2, 2019.</p> <p>40. Amit Kumar Mishra Anshumali, Nature and sources of ionic species in rainwater during monsoon periods in and around sixteenth–seventeenth century CE monuments in Yamuna River basin, India, Environmental Monitoring and Assessment 193(2), 2021, DOI: 10.1007/s10661-021-08889-3</p> <p>41. Shan Jiang et al., Nitrogen in Atmospheric Wet Depositions Over the East Indian Ocean and West Pacific Ocean: Spatial Variability, Source Identification, and Potential Influences, Frontiers in Marine Science 7:600843, 2021.</p>
3	<p>R. Szép, E. Mateescu, A.C. Nechifor, Á. Keresztesi*, Chemical characteristics and source analysis on ionic composition of rainwater collected in the Carpathians "Cold Pole", Ciuc basin, Eastern Carpathians – Romania. Environmental Science and Pollution Research, Volume:24, Issue:35, Page: 27288-27302, 2017.</p> <ol style="list-style-type: none"> 1. Jie Zeng, Guilin Han, Shitong Zhang, Xuhuan Xiao, Yikai Li, Xi Gao, Di Wang, Rui Qu, Response of dissolved organic carbon in rainwater during extreme rainfall period in megacity: Status, potential source, and deposition flux, Sustainable Cities and Society, Volume 88, 2023, 104299, ISSN 2210-6707, https://doi.org/10.1016/j.scs.2022.104299. 2. Lisi Zhao, Gongren Hu, Yu Yan, Ruilian Yu, Jianyong Cui, Xiaoming Wang, Yan Yan, Source apportionment of heavy metals in urban road dust in a continental city of eastern China: Using Pb and Sr isotopes combined with multivariate statistical analysis, Atmospheric Environment, Volume 201, 2019, Pages 201-211, ISSN 1352-2310, https://doi.org/10.1016/j.atmosenv.2018.12.050. 3. Lisi Zhao, Lingling Xu, Xin Wu, Guoqing Zhao, Ling Jiao, Jinsheng Chen, Youwei Hong, Junjun Deng, Yanting Chen, Kai Yang, Gongren Hu, Ruilian Yu,

Characteristics and sources of mercury in precipitation collected at the urban, suburban and rural sites in a city of Southeast China, *Atmospheric Research*, Issue: 211, Pages: 21-29, 2018. DOI: 10.1016/j.atmosres.2018.04.019

4. Zs. Bodor, Sz. Lanyi, B. Albert, K. Bodor, A.C. Nechifor, I. Miklossy, Model driven analysis of the biosynthesis of 1,4-butanediol from renewable feedstocks in *Escherichia coli*, *Revista de Chimie*, Vol. 79, No. 11, 2019.
5. ION MARIUS NAFLIU, HUSSAM NADUM ABDALRAHEEM AL ANI, ALEXANDRA RALUCA GROSU (MIRON), SZIDONIA KATALIN TANCZOS, IOANA MAIOR, AURELIA CRISTINA NECHIFOR, Iono-molecular Separation with Composite Membranes. VII. Nitrophenols pertraction on capillary polypropylene S-EPDM composite membranes., *Materiale Plastice*, Vol. 55, Issue 4, 2018.
6. Zsolt Bodor, Lehel Tompos, Aurelia Cristina Nechifor, Katalin Bodor, In silico analysis of 1,4 – butanediol heterologous pathway impact on *Escherichia coli* metabolism, *Revista de Chimie*, Vol. 70, No. 10, 2019.
7. ONDREJ HEGEDŰS, KATARÍNA SZARKA, ALŽBETA HEGEDŰSOVÁ, ZSUZSANNA GÓDÁNY, MIROSLAV ŠLOSÁR, AURELIA CRISTINA NECHIFOR and SZENDE TONK, Validation and quality assurance of ascorbic acid determination in agricultural products, *Revista de chimie*, Volume 70, No. 7, 2019.
8. JIAO, Yang, et al. Tracking changes in atmospheric particulate matter at a semi-urban site in Central France over the past decade. *Science of The Total Environment*, 2023, 885: 163807.
9. Mátyás, L., & Barna, I. F. (2023). Even and odd self-similar solutions of the diffusion equation for infinite horizon. *Universe*, 9(6), 264.
10. Manaila, E., Demeter, M., Calina, I. C., & Craciun, G. (2023). NaAlg-g-AA Hydrogels: Candidates in Sustainable Agriculture Applications. *Gels*, 9(4), 316.
11. Anil, I., Alagha, O., Blaisi, N. I., Mohamed, I. A., Barghouthi, M. H., & Manzar, M. S. (2019). Source identification of episodic rain pollutants by new approach: combining satellite observations and backward air mass trajectories. *Aerosol and Air Quality Research*, (12), 2827-2843.
12. Adhikari, S., Zhang, F., Adhikari, N. P., Zeng, C., Pant, R. R., Ram, K., ... & Ahsan, M. A. (2021). Atmospheric wet deposition of major ionic constituents and inorganic nitrogen in Bangladesh: implications for spatiotemporal variation and source apportionment. *Atmospheric Research*, 250, 105414.
13. Ahmed, M. S., Bhuyan, P., Sarkar, S., & Hoque, R. R. (2022). Seven-year study of monsoonal rainwater chemistry over the mid-Brahmaputra plain, India: assessment of trends and source regions of soluble ions. *Environmental Science and Pollution Research*, 1-20.
14. Bodor, K., Bodor, Z., & Szép, R. (2021). Spatial distribution of trace elements (As, Cd, Ni, Pb) from PM 10 aerosols and human health impact assessment in an Eastern European country, Romania. *Environmental Monitoring and Assessment*, 193, 1-17.
15. Loya-González, D., López-Serna, D., Alfaro-Barbosa, J. M., López-Reyes, A., González-Rodríguez, H., & Cantú-Silva, I. (2020). Chemical composition of bulk precipitation and its toxicity potential index in the metropolitan area of Monterrey, Northeastern Mexico. *Environments*, 7(12), 106.

	<ol style="list-style-type: none"> 16. Bodor, K., Bodor, Z., Szép, A., & Szép, R. (2021). Human health impact assessment and temporal distribution of trace elements in Cop ș a Mică-Romania. <i>Scientific reports</i>, 11(1), 7049. 17. Bartos, H., Balázs, M., Kuzman, I. H., Lányi, S., & Miklóssy, I. (2021). Production of high added-value chemicals in <i>Basfia succiniciproducens</i>: Role of medium composition. <i>Sustainability</i>, 13(6), 3513. 18. Bartos, H., Balázs, M., Kuzman, I. H., Lányi, S., & Miklóssy, I. (2021). Production of high added-value chemicals in <i>Basfia succiniciproducens</i>: Role of medium composition. <i>Sustainability</i>, 13(6), 3513. 19. Pereira, J. N., Fornaro, A., & Vieira-Filho, M. (2021). Atmospheric deposition chemistry in a Brazilian rural area: alkaline species behavior and agricultural inputs. <i>Environmental Science and Pollution Research</i>, 28, 23448-23458. 20. Loya-González, D., Cantú-Silva, I., González-Rodríguez, H., López-Serna, D., & Alfaro-Barbosa, J. M. (2022). Seasonal variation of atmospheric bulk deposition along an urbanization gradient in Nuevo Leon, Mexico. <i>Atmósfera</i>, 35(3), 577-599. 21. Ko, H. J., Jeong, J., Kim, E. S., Lee, S. S., & Ryoo, S. B. (2019). Composition and Neutralization Characteristics of Precipitation at the Anmyeon-do and Gosan GAW Stations from 2008 to 2017. <i>Atmosphere</i>, 29(4), 403-416. 22. Hristova, E., Veleva, B., Velchev, K., & Georgieva, E. (2020, October). Chemical Characteristics of Precipitation and Cloud Water at High Elevation Site in Bulgaria. In <i>International conference on Environmental protection and disaster RISKS</i> (pp. 91-106). Cham: Springer International Publishing. 23. Bodor, Z., FAZAKAS, A. I., Bodor, K., Kovacs, E., Miklossy, I., & Albert, B. (2020). Using genome-scale model to predict the metabolic engineering impact on <i>Escherichia coli</i> metabolism during succinic acid production optimization. <i>ROMANIAN BIOTECHNOLOGICAL LETTERS</i>, 25(3), 1666-1676.
4	<p>Ágnes Keresztesi, Ion-Andrei Niță, Réka BOGA, Marius-Victor Bîrsan, Zsolt Bodor, Róbert Szép, Spatial and long-term analysis of rainwater chemistry over the conterminous United States, <i>Environmental Research</i>, ISSN: 0013-9351, 188, 2020. https://doi.org/10.1016/j.envres.2020.109872</p> <ol style="list-style-type: none"> 1. Ren, Jiahao & Zhu, Liquan & Zhang, Xi & Luo, Yuqian & Zhong, Xuecai & Li, Bowen & Wang, Yuwen & Zhang, Kai. (2023). Variation characteristics of acid rain in Zhuzhou, Central China over the period 2011-2020. <i>Journal of Environmental Sciences</i>. 138. 10.1016/j.jes.2023.03.035. 2. Ariffin N, Juahir H, Umar R, Makhtar M, Hanapi NHM, Ismail A, Zali MA. Comparison of rainwater quality before and during the MCO using chemometric analyses. <i>Environ Sci Pollut Res Int</i>. 2023 May;30(21):61089-61105. doi: 10.1007/s11356-023-26665-3. Epub 2023 Apr 13. PMID: 37052834; PMCID: PMC10097515. 3. Shota Shima, Rino Uejima, Eiichiro Takamura, Hiroaki Sakamoto, Relationship between output voltage of water droplet-based electricity nanogenerator and electrolyte concentration, <i>Nano Energy</i>, Volume 112, 2023, 108503, ISSN 2211-2855, https://doi.org/10.1016/j.nanoen.2023.108503. 4. Esquivel Hernández, Germain & Sánchez-Murillo, Ricardo & Villalobos-Córdoba, Diego & Monteiro, Lucilena & Villalobos, Mario

& Sánchez-Gutiérrez, Rolando & Cotrim, Marycel & Matiatos, Ioannis. (2023). Exploring the acid neutralizing effect in rainwater collected at a tropical urban area: Central Valley, Costa Rica. *Atmospheric Pollution Research*. 14. 101845. 10.1016/j.apr.2023.101845.

5. Vega, Elizabeth & Wellens, Ann & Alarcón, Ana & Sosa-Echeverría, Rodolfo & Solano, Monica & Jaimes-Palomera, Monica. (2023). Spatiotemporal Variations in Chemical Composition of Wet Atmospheric Deposition in Mexico City. *Aerosol and Air Quality Research*. 23. 230023. 10.4209/aaqr.230023.
6. Mindorff, Leah & Mahmoudi, Nagissa & Hepditch, Scott & Langlois, Valerie & Alam, Md. Samrat & Martel, Richard & Ahad, Jason. (2023). Isotopic and microbial evidence for biodegradation of diluted bitumen in the unsaturated zone. *Environmental pollution (Barking, Essex : 1987)*. 121170. 10.1016/j.envpol.2023.121170.
7. Małecki, Jerzy & Matyjasik, Marek & Krogulec, Ewa & Porowska, Dorota. (2022). Long-term trends and factors influencing rainwater chemistry in the Tatra Mountains, Poland. *Geology, Geophysics and Environment*. 48. 19-38. 10.7494/geol.2022.48.1.19.
8. Rickly, Pamela & Guo, Hongyu & Campuzano-Jost, Pedro & Jimenez, Jose & Wolfe, Glenn & Bennett, Ryan & Bourgeois, Ilann & Crouse, John & Dibb, Jack & DiGangi, Joshua & Diskin, Glenn & Dollner, Maximilian & Gargulinski, Emily & Hall, Samuel & Halliday, Hannah & Hanisco, Thomas & Hannun, Reem & Liao, Jin & Moore, Richard & Rollins, Andrew. (2022). Emission factors and evolution of SO₂ measured from biomass burning in wildfires and agricultural fires. *Atmospheric Chemistry and Physics*. 22. 15603-15620. 10.5194/acp-22-15603-2022.
9. Drummond, Ana & Almeida, Jaqueline & Domingos, Ryan & Nunes, Dayana & Soalheiro, Lívia & Cunha, Priscila & Obraczka, Marcelo & Ohnuma Jr, Alfredo. (2022). Analysis of requirements for scientific articles and Brazilian legislation on rainwater harvesting systems. *Ciência e Natura*. 44. e18. 10.5902/2179460X68836.
10. Prakash, Jigyasa & Agrawal, Shashi & Agrawal, Madhoolika. (2022). Global Trends of Acidity in Rainfall and Its Impact on Plants and Soil. *Journal of Soil Science and Plant Nutrition*. 10.1007/s42729-022-01051-z.
11. Chang, Chung-Te & Yang, Ci-Jian & Huang, Jr-Chuan. (2022). Wet depositions of cations in forests across NADP, EMEP, and EANET monitoring networks over the last two decades. *Environmental Science and Pollution Research*. 10.1007/s11356-022-24129-8.
12. Zeng, Jie & Han, Guilin & Zhang, Shitong & Xiao, Xuhuan & Li, Yikai & Xi, Gao & Wang, Di & Qu, Rui. (2023). Response of dissolved organic carbon in rainwater during extreme rainfall period in megacity: Status, potential source, and deposition flux. *Sustainable Cities and Society*. 10.1016/j.scs.2022.104299.
13. Sullivan CA, Keenan SW (2022) Experimental dissolution of fossil bone under variable pH conditions. *PLoS ONE* 17(10): e0274084. <https://doi.org/10.1371/journal.pone.0274084>

14. Haider, S.W., Kazmi, S.J.H., Arsalan, M. et al. Spatial evaluation of precipitation patterns in the catchment area of Malir River during monsoon spells of 2019 through geospatial techniques. *Arab J Geosci* 15, 1435 (2022). <https://doi.org/10.1007/s12517-022-10574-9>.
15. Morales-Figueroa, Alejandra & Teutli-Sequeira, A. & Linares-Hernández, Ivonne & Martínez-Miranda, Verónica & García-Morales, Marco & Roa-Morales, Gabriela. (2022). Optimization of the Electrocoagulation Process with Aluminum Electrodes for Rainwater Treatment. *Frontiers in Environmental Science*. 10. 860011. 10.3389/fenvs.2022.860011.
16. Tuna Karatas, Jiří Bruthans, Michal Filippi, Anna Mazancová, Tomáš Weiss, Jakub Mareš, Depth distribution and chemistry of salts as factors controlling tafoni and honeycombs development, *Geomorphology*, Volume 414, 2022, 108374, ISSN 0169-555X, <https://doi.org/10.1016/j.geomorph.2022.108374>.
17. Wang, W.; Guan, L.; Zhao, J.; Sha, Z.; Fang, J. Chemical Compositions of Rainfall Water in Nyingchi City, Tibet. *Atmosphere* 2022, 13, 1021. <https://doi.org/10.3390/atmos13071021>.
18. Kumar, R., Kumar, R., Singh, A. *et al.* Chemometric approach to evaluate the chemical behavior of rainwater at high altitude in Shaune Garang catchment, Western Himalaya. *Sci Rep* 12, 12774 (2022). <https://doi.org/10.1038/s41598-022-15422-0>.
19. Li, X., Lü, Y., Pan, Y., Sun, Q., Zhu, X., Hu, J., Liu, J., Cao, J., Gu, M., Zhang, M. and Stewart, R.E., 2022. Chemical characteristics of freezing rain observed at Mount Heng in southern China. *Atmospheric Environment*, p.119140.
20. Cao, F., Jaunat, J., Huneau, F., Négrel, P., Garel, E., Mattei, A., Celle, H. and Ollivier, P., 2022. The input signal to a carbonate aquifer highlights recharge processes and climate evolution under temperate Atlantic conditions. *Hydrological Sciences Journal*, (just-accepted)
21. Fernandez, N.M., Bouchez, J., Derry, L.A., Chorover, J., Gaillardet, J., Giesbrecht, I., Fries, D. and Druhan, J.L., Resiliency of silica export signatures when low order streams are subject to storm events. *Journal of Geophysical Research: Biogeosciences*, p.e2021JG006660.
22. Roque-Malo, S., Druhan, J.L. and Kumar, P., 2022. REWTCrunch: A Modeling Framework for Vegetation Induced Reactive Zone Processes in the Critical Zone. *Journal of Geophysical Research: Biogeosciences*, 127(2), p.e2021JG006562.
23. Li, R.F., Dong, X.Y., Xie, C. and Zhao, L.J., 2022. Long-term observations of the chemical composition, fluxes and sources of atmospheric wet deposition at an urban site in Xi'an, Northwest China. *Environmental monitoring and assessment*, 194(2), pp.1-21.
24. Charles-Granville, U.E., Glover, C.F., Scully, J.R. and Kelly, R.G., 2021. Effect of pH and Al Cations on Chromate Inhibition of Galvanic-Induced Corrosion of AA7050-T7451 Macro-Coupled to 316SS. *Journal of The Electrochemical Society*, 168(12), p.121509.

	<p>25. Jing Li, Huawu Wu, Pengju Jiang, Congsheng Fu, Rainwater chemistry in a subtropical high-altitude mountain site, South China: Seasonality, source apportionment and potential factors, <i>Atmospheric Environment</i>, Volume 268, 2022, 118786, ISSN 1352-2310, https://doi.org/10.1016/j.atmosenv.2021.118786.</p> <p>26. M.G. Garcia, K.L. Lecomte, P.J. Depetris, Natural and anthropogenic sources of solutes in the wet precipitation of a densely populated city of Southern South America, <i>Chemosphere</i>, Volume 287, Part 3, 2022, 132307, ISSN 0045-6535, https://doi.org/10.1016/j.chemosphere.2021.132307.</p> <p>27. Elahe Naderi Peikam, Mohsen Jalali, Chemical composition of rainwater at an urban and two rural stations in the west of Iran, Hamedan, <i>Environmental Earth Sciences</i>, (2021) 80:605 https://doi.org/10.1007/s12665-021-09865-3.</p> <p>28. Tamiru A. Abiye, Physicochemical and metal composition of rainfall in the Johannesburg region, South Africa, <i>Environmental Monitoring and Assessment</i> 193(6), 2021, DOI: 10.1007/s10661-021-09137-4</p> <p>29. Jie Zeng, Guilin Han, Rainwater chemistry observation in a karst city : variations, influence factors, sources, and potential environmental effects, <i>PeerJ</i> 9:e11167, 2021, DOI: 10.7717/peerj.11167</p> <p>30. Elif Yavuz, Levent Kuzu, Gürdal Kanat, Nedim Vardar, Investigating the Combined Use of Enrichment Factor and Weather Research and Forecasting (WRF) Modelling for Precipitation Sample Source Identification: A Case Study in North Carolina, USA, <i>Archives of Environmental Contamination and Toxicology</i>, 2021. DOI: 10.1007/s00244-021-00843-1</p> <p>31. Waghmare, V.V., Aslam, M.Y., Yang, L. <i>et al.</i> Inorganic Ionic Composition of Rainwater at a High Altitude Station over the Western Ghats in Peninsular India. <i>J Atmos Chem</i> (2021). https://doi.org/10.1007/s10874-021-09416-x</p> <p>32. Majumdar, A., Satpathy, J., Kayee, J. <i>et al.</i> Trace metal composition of rainwater and aerosol from Kolkata, a megacity in eastern India. <i>SN Appl. Sci.</i> 2, 2122 (2020). https://doi.org/10.1007/s42452-020-03933-2</p> <p>33. Darithsa Loya-González, Daniel López-Serna, Juan Manuel Alfaro-Barbosa, Antonio López-Reyes, Humberto González-Rodríguez, Israel Cantú-Silva, Chemical Composition of Bulk Precipitation and Its Toxicity Potential Index in the Metropolitan Area of Monterrey, Northeastern Mexico, <i>Environments</i>, 2020, 7(12), 106; https://doi.org/10.3390/environments7120106</p> <p>34. Budhavant, K.B., Gawhane, R.D., Rao, P.S.P. <i>et al.</i> Long-term increasing trends in the wet deposition of secondary inorganic constituents in SW Indian precipitation. <i>Air Qual Atmos Health</i> (2021). https://doi.org/10.1007/s11869-020-00970-z.</p>
5	<p>Ágnes KERESZTESI, Ion-Andrei NIȚĂ, Marius-Victor BÎRSAN, Zsolt BODOR, Róbert SZÉP, The risk of cross-border pollution and the influence of regional climate on the rainwater chemistry in the Southern Carpathians, Romania, <i>Environmental Science and Pollution Research</i>, ISSN: 0944-1344, 27, 2020. https://doi.org/10.1007/s11356-019-07478-9.</p>

1. Abulude, Francis & Akinnusotu, Akinyinka & Bello, Lateef & Awogbindin, Emmanuel. (2022). Assessment of physico-chemical compositions of wet precipitation at a metropolis in Nigeria. *Water Utility Journal*, 25-31
2. Wang, Lin & Zhang, Xin & Wang, Feiteng & Ming, Jing. (2023). Water-soluble inorganic ions (WSIs) in the aerosols from Central Asia via transboundary transport measured in Jimunai in 2020. *Environmental Science and Pollution Research*. 1-12. 10.1007/s11356-023-29083-7.
3. Vlasov, Dmitrii & Kasimov, Nikolay & Eremina, Irina & Shinkareva, Galina & Chubarova, Natalia. (2023). Major ions and potentially toxic elements in atmospheric precipitation during the COVID-19 lockdown in Moscow megacity. *Urban Climate*. 48. 101422. 10.1016/j.uclim.2023.101422.
4. Stepanets, V.N. & Serykh, T.G. & Papina, Tatyana. (2021). Chemical composition of snow cover in the south of Western Siberia. *HYDROMETEOROLOGY AND ECOLOGY. PROCEEDINGS OF THE RUSSIAN STATE HYDROMETEOROLOGICAL UNIVERSITY*. 480-492. 10.33933/2713-3001-2021-64-480-492.
5. Haider, S.W., Kazmi, S.J.H., Arsalan, M. et al. Spatial evaluation of precipitation patterns in the catchment area of Malir River during monsoon spells of 2019 through geospatial techniques. *Arab J Geosci* 15, 1435 (2022). <https://doi.org/10.1007/s12517-022-10574-9>.
6. Ahmed, M., Bhuyan, P., Sarkar, S. and Hoque, R.R., 2022. Seven-year study of monsoonal rainwater chemistry over the mid-Brahmaputra plain, India: assessment of trends and source regions of soluble ions. *Environmental Science and Pollution Research*, 29(17), pp.25276-25295.
7. NITA, I.A., APOSTOL, L., PATRICHE, C.V., SFÎCĂ, L., BOJARIU, R. and BIRSAN, V., FREQUENCY OF ATMOSPHERIC CIRCULATION TYPES OVER ROMANIA ACCORDING TO JENKINSON-COLLISON METHOD BASED ON TWO LONG-TERM REANALYSIS DATASETS.
8. Chen, S., Deng, Y., Xiao, X., Xu, S., Rudd, P.N. and Huang, J., 2021. Preventing lead leakage with built-in resin layers for sustainable perovskite solar cells. *Nature Sustainability*, 4(7), pp.636-643.
9. Xiao, X., Wang, M., Chen, S., Zhang, Y., Gu, H., Deng, Y., Yang, G., Fei, C., Chen, B., Lin, Y. and Dickey, M.D., 2021. Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. *Science advances*, 7(44), p.eabi8249.
10. Adriana Isvoran, Diana Larisa Roman, Daniela Dascalu, Beatrice Vlad-Oros, Alecu Ciorsac, Laura Pitulice, Radojka Jonovic, Zoran Stevanovic and Vasile Ostafe, Human Health Effects of Heavy Metal Pollution in the Cross-Border Area of Romania and Serbia: A Review, *ECOL CHEM ENG S*. 2021;28(3):365-388, DOI: <https://doi.org/10.2478/eces-2021-0025>
11. Stepanets, V.N., Malygina, N.S., Lovtskaya, O.V. and Papina, T.S., 2021. Regional-scale impacts of the major tin plant on the chemical composition of atmospheric precipitation in the south of Western

	<p>Siberia (Russia). <i>Environmental Earth Sciences</i>, 80(20), pp.1-12.</p> <p>12. Yixi Qiu, Joseph David Felix, Hurricane/tropical storm rainwater chemistry in the US (from 2008 to 2019), <i>Science of The Total Environment</i> 798(12):149009, DOI: 10.1016/j.scitotenv.2021.149009.</p> <p>13. Farkas, A., Bidló, A., Bolodár-Varga, B. et al. Accumulation of selected metals and concentration of macroelements in liver and kidney tissues of sympatric golden jackal (<i>Canis aureus</i>) and red fox (<i>Vulpes vulpes</i>) in Somogy County, Hungary. <i>Environ Sci Pollut Res</i> (2021). https://doi.org/10.1007/s11356-021-15156-y</p> <p>14. Bartos, Hunor; Balázs, Márta; Kuzman, Ildikó H.; Lányi, Szabolcs; Miklóssy, Ildikó. 2021. "Production of High Added-Value Chemicals in <i>Basfia succiniciproducens</i>: Role of Medium Composition" <i>Sustainability</i> 13, no. 6: 3513. https://doi.org/10.3390/su13063513</p> <p>15. Lucian Sfică, Christoph Beck, Andrei-Ion Nita, Mirela Voiculescu, Marius-Victor Birsan, Andreas Philipp, Cloud cover changes driven by atmospheric circulation in Europe during the last decades, <i>International Journal of Climatology</i>, 41, S1, 2020. https://doi.org/10.1002/joc.6841</p> <p>16. Jie Zeng, Fu-Jun Yue, Si-Liang Li, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Ze-Long Yan, Determining rainwater chemistry to reveal alkaline rain trend in Southwest China: Evidence from a frequent-rainy karst area with extensive agricultural production, <i>Environmental Pollution</i>, Volume 266, Part 3, 2020, 115166, ISSN 0269-7491, https://doi.org/10.1016/j.envpol.2020.115166.</p> <p>17. Strzebońska, M.; Gruszecka-Kosowska, A.; Kostka, A. Chemistry and Microbiology of Urban Roof Runoff in Kraków, Poland with Ecological and Health Risk Implications. <i>Appl. Sci.</i> 2020, 10, 8554. https://doi.org/10.3390/app10238554</p> <p>18. Darithsa Loya-González, Daniel López-Serna, Juan Manuel Alfaro-Barbosa, Antonio López-Reyes, Humberto González-Rodríguez, Israel Cantú-Silva, Chemical Composition of Bulk Precipitation and Its Toxicity Potential Index in the Metropolitan Area of Monterrey, Northeastern Mexico, <i>Environments</i>, 2020, 7(12), 106; https://doi.org/10.3390/environments7120106</p> <p>19. Zeng, J.; Han, G. Rainwater Chemistry Reveals Air Pollution in a Karst Forest: Temporal Variations, Source Apportionment, and Implications for the Forest. <i>Atmosphere</i> 2020, 11, 1315. https://doi.org/10.3390/atmos11121315</p>
6	<p>Ágnes KERESZTESI, Ion-Andrei NIȚĂ, Marius-Victor BÎRSAN, Zsolt BODOR, Tímea PERNYESZI, Róbert SZÉP, Assessing the variations in the chemical composition of rainwater and air masses using the zonal and meridional index, <i>Atmospheric Research</i>, ISSN: 0169-8095, 237, 2020. https://doi.org/10.1016/j.atmosres.2020.104846</p> <p>1. Abulude, Francis & Akinnusotu, Akinyinka & Bello, Lateef & Awogbindin, Emmanuel. (2022). Assessment of physico-chemical compositions of wet precipitation at a metropolis in Nigeria. <i>Water Utility Journal</i>, 25-31</p>

2. Hussein, Zakariya. (2023). Assessment of heavy radionuclides in blood samples for workers of a cement factory by X-ray fluorescence. *Journal of Radiation Research and Applied Sciences*. 16. 100553. [10.1016/j.jrras.2023.100553](https://doi.org/10.1016/j.jrras.2023.100553).
3. Gluščić, V.; Žužul, S.; Pehcec, G.; Jakovljević, I.; Smoljo, I.; Godec, R.; Bešlić, I.; Milinković, A.; Alempijević, S.B.; Frka, S. Sources, Ionic Composition and Acidic Properties of Bulk and Wet Atmospheric Deposition in the Eastern Middle Adriatic Region. *Toxics* 2023, 11, 551. <https://doi.org/10.3390/toxics11070551>
4. Major, Maciej & Chudzińska, Maria & Majewski, Mikołaj. (2023). Wielkość dostawy wybranych zanieczyszczeń atmosferycznych i ich wpływ na jakość wód w zurbanizowanej zlewni Różanego Strumienia w Poznaniu w latach hydrologicznych 2016-2020 = The level of supply of selected atmospheric pollutants and their impact on water quality in the urban catchment of Różany Strumień in Poznan, Poland, in hydrological years 2016-2020. *Przegląd Geograficzny*. 94. 415-436. [10.7163/PrzG.2022.4.1](https://doi.org/10.7163/PrzG.2022.4.1).
5. Dimitriou, Konstantinos & Kassomenos, Pavlos. (2022). Ionic composition of six-year daily precipitation samples collected at JRC-Ispra (Italy) in relation to synoptic patterns and air mass origin. *Atmospheric Pollution Research*. 13. 101601. [10.1016/j.apr.2022.101601](https://doi.org/10.1016/j.apr.2022.101601).
6. González-Jiménez, José & Daly, Kheireddine & Healy, Mark. (2022). Phosphorus and nitrogen leaching from an organic and a mineral soil receiving single and split dairy slurry applications: a laboratory column experiment. *Journal of Soils and Sediments*. 1-9. [10.1007/s11368-022-03378-7](https://doi.org/10.1007/s11368-022-03378-7).
7. Zeng, Jie & Han, Guilin & Zhang, Shitong & Xiao, Xuhuan & Li, Yikai & Xi, Gao & Wang, Di & Qu, Rui. (2022). Rainwater chemical evolution driven by extreme rainfall in megacity: Implication for the urban air pollution source identification. *Journal of Cleaner Production*.
8. Wang, W.; Guan, L.; Zhao, J.; Sha, Z.; Fang, J. Chemical Compositions of Rainfall Water in Nyingchi City, Tibet. *Atmosphere* 2022, 13, 1021. <https://doi.org/10.3390/atmos13071021>.
9. Ravan, P., Ahmady-Birgani, H., Solomos, S., Yassin, M.F. and Abaslinezhad, H., 2022. Wet Scavenging in Removing Chemical Compositions and Aerosols: A Case Study Over the Lake Urmia. *Journal of Geophysical Research: Atmospheres*, 127(6), p.e2021JD035896.
10. Ahmed, M.S., Bhuyan, P., Sarkar, S. et al. Seven-year study of monsoonal rainwater chemistry over the mid-Brahmaputra plain, India: assessment of trends and source regions of soluble ions. *Environ Sci Pollut Res* (2021). <https://doi.org/10.1007/s11356-021-17385-7>
11. Ahmady-Birgani, H., Ravan, P., Simon Schlosser, J., Cuevas-Robles, A., AzadiAghdam, M. and Sorooshian, A., 2021. Is There a Relationship between Lake Urmia Saline Lakebed Emissions and Wet Deposition Composition in the Caucasus Region?. *ACS Earth and Space Chemistry*, 5(10), pp.2970-2985.

12. Zeng, J.; Ge, X.; Wu, Q.; Zhang, S. Three-Year Variations in Criteria Atmospheric Pollutants and Their Relationship with Rainwater Chemistry in Karst Urban Region, Southwest China. *Atmosphere* 2021, 12, 1073. <https://doi.org/10.3390/atmos12081073>
13. Nur Hidayah Norazman, Md Firoz Khan, Sharanya Ramanathan, Syazwani Mustapa Kama Shah, Siti Jariani Mohd Jani, Khaled Shaifullah Joy, Kazi Naimul Islam, Farah Jeba, Abdus Salam, Otoha Yoshida, and Hiroto Kawashima, Influence of Monsoonal Driving Factors on the Secondary Inorganic Aerosol over Ambient Air in Dhaka, <https://doi.org/10.1021/acsearthspacechem.1c00200>, *ACS Earth Space Chem.* XXXX, XXX, XXX–XXX.
14. Do, L.T.T., Griffith, S.M., Tseng, W.T. and Lin, N.H., 2021. Long-term trend of wintertime precipitation chemistry at a remote islet site influenced by anthropogenic emissions from continental East Asia. *Atmospheric Environment*, 262, p.118626.
15. Boni Wang et al., The effect of construction dust and agricultural fertilization on the precipitation chemical composition during summer in the Yangtze River Delta area, China, *Atmospheric Pollution Research*, Atmospheric Pollution Research, 2021.
16. Jie Zeng, Guilin Han, Rainwater chemistry observation in a karst city : variations, influence factors, sources, and potential environmental effects, *PeerJ* 9:e11167, 2021, DOI: 10.7717/peerj.11167
17. Anna Kostka, Andrzej Leśniak, Natural and Anthropogenic Origin of Metals in Lacustrine Sediments; Assessment and Consequences—A Case Study of Wigry Lake (Poland), *Minerals* 11(2):158, 2021, DOI: 10.3390/min11020158
18. Diego Aliaga, Victoria A. Sinclair, Marcos Andrade, Paulo Artaxo, Samara Carbone, Evgeny Kadantsev, Paolo Laj, Alfred Wiedensohler, Radovan Krejci, Federico Bianchi, Identifying source regions of air masses sampled at the tropical high-altitude site of Chacaltaya using WRF-FLEXPART and cluster analysis. *Atmospheric Chemistry and Physics*, <https://doi.org/10.5194/acp-2021-126>
19. Bartos, Hunor; Balázs, Márta; Kuzman, Ildikó H.; Lányi, Szabolcs; Miklóssy, Ildikó. 2021. Production of High Added-Value Chemicals in *Basfia succiniciproducens*: Role of Medium Composition, *Sustainability* 13, no. 6: 3513. <https://doi.org/10.3390/su13063513>
20. Srivastava, D., Xu, J., Vu, T.V., Liu, D., Li, L., Fu, P., Hou, S., Palmerola, N.M., Shi, Z. and Harrison, R.M., 2021. 首页» 文章» 文章详细信息 . *Atmospheric Chemistry and Physics*, 21(19).
21. Jie Zeng, Fu-Jun Yue, Si-Liang Li, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Ze-Long Yan, Determining rainwater chemistry to reveal alkaline rain trend in Southwest China: Evidence from a frequent-rainy karst area with extensive agricultural production, *Environmental Pollution*, Volume 266, Part 3, 2020, 115166, ISSN 0269-7491, <https://doi.org/10.1016/j.envpol.2020.115166>.
22. Jie Zeng, Fu-Jun Yue, Min Xiao, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Dissolved organic carbon in rainwater from a karst agricultural area of Southwest China: Variations, sources, and wet deposition

	<p>fluxes, <i>Atmospheric Research</i>, Volume 245, 2020, 105140, ISSN 0169-8095, https://doi.org/10.1016/j.atmosres.2020.105140.</p> <p>23. Konstantinos Dimitriou, Georgios Grivas, Eleni Liakakou, Evangelos Gerasopoulos, Nikolaos Mihalopoulos, Assessing the contribution of regional sources to urban air pollution by applying 3D-PSCF modeling, <i>Atmospheric Research</i>, Volume 248, 2021, 105187, ISSN 0169-8095, https://doi.org/10.1016/j.atmosres.2020.105187.</p> <p>24. Strzebońska, M.; Gruszecka-Kosowska, A.; Kostka, A. Chemistry and Microbiology of Urban Roof Runoff in Kraków, Poland with Ecological and Health Risk Implications. <i>Appl. Sci.</i> 2020, <i>10</i>, 8554. https://doi.org/10.3390/app10238554.</p>
7	<p>Ágnes Keresztesi, Marius-Victor Bîrsan, Ion-Andrei Niță, Zsolt Bodor, Róbert Szép, Assessing the neutralization, wet deposition and source contributions of the precipitation chemistry over Europe during 2000-2017, <i>Environmental Sciences Europe</i>, ISSN: 2190-4715, 31:50, 2019.</p> <ol style="list-style-type: none"> 1. Abulude, Francis & Akinnusotu, Akinyinka & Bello, Lateef & Awogbindin, Emmanuel. (2022). Assessment of physico-chemical compositions of wet precipitation at a metropolis in Nigeria. <i>Water Utility Journal</i>, 25-31 2. Bagalwa, Mashimango & Majaliwa, Jackson & Katcho, Karume & Akello, Sarah & Kansime, Frank. (2023). Major Ions in Atmospheric Deposition in Lake Kivu Basin. <i>Journal of Environmental Protection</i>. 14. 185-205. 10.4236/jep.2023.143013. 3. Zhang, Liuyi & Wang, Jia & Wang, Shuxiao & Wang, Chunbo & Yang, Fumo & Li, Tingzhen. (2023). Chemical characteristics of long-term acid rain and its impact on lake water chemistry: A case study in Southwest China. <i>Journal of Environmental Sciences</i>. 138. 10.1016/j.jes.2023.03.028. 4. Soyam, P.S., Safai, P.D., Mukherjee, S. et al. Significant abundances of alkaline components in the fine and coarse aerosols over a tropical rain shadow location in peninsular India. <i>J Atmos Chem</i> (2023). https://doi.org/10.1007/s10874-023-09447-6 5. Audoux, Thomas & Laurent, Benoit & Desboeufs, Karine & Noyalet, Gael & Maisonneuve, Franck & Lauret, Olivier & Chevaillier, Servanne. (2023). Intra-event evolution of elemental and ionic concentrations in wet deposition in an urban environment. 10.5194/egusphere-2023-1022. 6. Vega, Elizabeth & Wellens, Ann & Alarcón, Ana & Sosa-Echeverría, Rodolfo & Solano, Monica & Jaimes-Palomera, Monica. (2023). Spatiotemporal Variations in Chemical Composition of Wet Atmospheric Deposition in Mexico City. <i>Aerosol and Air Quality Research</i>. 23. 230023. 10.4209/aaqr.230023. 7. Wang, Yi-Tzu & Lin, Neng-Huei & Chang, Chung-Te & Huang, Jr-Chuan & Lin, Teng-Chiu. (2023). Fog and rain water chemistry in a tea plantation of northern Taiwan. <i>Environmental Science and Pollution Research</i>. 1-12. 10.1007/s11356-023-29263-5. 8. Gluščić, V.; Žužul, S.; Pehnc, G.; Jakovljević, I.; Smoljo, I.; Godec, R.; Bešlić, I.; Milinković, A.; Alempijević, S.B.; Frka, S. Sources, Ionic Composition and Acidic Properties of Bulk and Wet Atmospheric Deposition in the Eastern Middle Adriatic Region. <i>Toxics</i> 2023, <i>11</i>, 551. https://doi.org/10.3390/toxics11070551

9. Vlasov, Dmitrii & Kasimov, Nikolay & Eremina, Irina & Shinkareva, Galina & Chubarova, Natalia. (2023). Major ions and potentially toxic elements in atmospheric precipitation during the COVID-19 lockdown in Moscow megacity. *Urban Climate*. 48. 101422. 10.1016/j.uclim.2023.101422.
10. Katoch, A., Yadav, S., Singh, Y. et al. Wet scavenging of trace metals and reactive nitrogen in Delhi, India. *Int. J. Environ. Sci. Technol.* (2023). <https://doi.org/10.1007/s13762-023-05097-z>
11. Zhou, K., Xu, W., Zhang, L., Ma, M., Liu, X., and Zhao, Y.: Estimating nitrogen and sulfur deposition across China during 2005 to 2020 based on multiple statistical models, *Atmos. Chem. Phys.*, 23, 8531–8551, <https://doi.org/10.5194/acp-23-8531-2023>, 2023.
12. Nikolaos Th. Skoulidakis, Ioannis Matiatos, Panagiotis Michalopoulos, Evangelia Smeti, Cemil Özkan, Konstantinos Akepsimaidis, Sofia Laschou, Christine Stumpp, Sources of major elements and nutrients in the water cycle of an undisturbed river basin – Samothraki Island, Greece, *Science of The Total Environment*, Volume 897, 2023, 165361, ISSN 0048-9697, <https://doi.org/10.1016/j.scitotenv.2023.165361>.
13. Małeck, Jerzy & Matyjasik, Marek & Krogulec, Ewa & Porowska, Dorota. (2022). Long-term trends and factors influencing rainwater chemistry in the Tatra Mountains, Poland. *Geology, Geophysics and Environment*. 48. 19-38. 10.7494/geol.2022.48.1.19.
14. Audoux, Thomas & Laurent, Benoit & Chevallier, Servanne & Féron, Anaïs & Pangui, Edouard & Maisonneuve, Franck & Desboeufs, Karine & Triquet, Sylvain & Noyalet, Gael & Lauret, Olivier & Huet, Florian. (2022). Automatic sequential rain sampling to study atmospheric particulate and dissolved wet deposition. *Atmospheric Environment*. 295. 119561. 10.1016/j.atmosenv.2022.119561.
15. Wang, Y.; Zhu, F.; Kang, R.; Song, L.; Huang, S.; Huang, D.; Huang, K.; Mgelwa, A.S.; Gurmesa, G.A.; Fang, X.; Fang, Y. Chemical Composition and Deposition Characteristics of Precipitation into a Typical Temperate Forest in Northeastern China. *Forests* 2022, 13, 2024. <https://doi.org/10.3390/f13122024>
16. Timoncini, Andrea & Brattich, Erika & Bernardi, Elena & Chiavari, Cristina & Tositti, Laura. (2022). Safeguarding outdoor cultural heritage materials in an ever-changing troposphere: challenges and new guidelines for artificial ageing test. *Journal of Cultural Heritage*. 59. 190-201. 10.1016/j.culher.2022.12.003.
17. Wang, Yingying & Zhu, Feifei & Kang, Ronghua & Song, Linlin & Huang, Shaonan & Huang, Dan & Huang, Kai & Mgelwa, Abubakari & Gurmesa, Geshere Abdisa & Fang, Xiaoming & Fang, Yunting. (2022). Chemical Composition and Deposition Characteristics of Precipitation into a Typical Temperate Forest in Northeastern China. *Forests*. 13. 2024. 10.3390/f13122024.
18. Prakash, Jigyasa & Agrawal, Shashi & Agrawal, Madhoolika. (2022). Global Trends of Acidity in Rainfall and Its Impact on Plants and Soil. *Journal of Soil Science and Plant Nutrition*. 10.1007/s42729-022-01051-z.
19. Chang, Chung-Te & Yang, Ci-Jian & Huang, Jr-Chuan. (2022). Wet depositions of cations in forests across NADP, EMEP, and EANET

- monitoring networks over the last two decades. *Environmental Science and Pollution Research*. 10.1007/s11356-022-24129-8.
20. Imfeld, Gwenaël & Junginger, Tobias & Payraudeau, Sylvain. (2022). Transformation and Stable Isotope Fractionation of the Urban Biocide Terbutryn During Biodegradation, Photodegradation and Abiotic Hydrolysis. *SSRN Electronic Journal*. 10.2139/ssrn.4102663.
 21. Sosclassificationa-Echeverría, Rodolfo & Alarcón, Ana & Barrera, María & Alvarez, Pablo & Hernández, Elías & Vega, Elizabeth & Jaimes, Monica & Retama, Armando & Gay, David. (2022). Nitrogen and sulfur compounds in ambient air and in wet atmospheric deposition at Mexico city metropolitan area. *Atmospheric Environment*. 119411. 10.1016/j.atmosenv.2022.11941
 22. Anna Šímová, Martin Jiroušek, Patrícia Singh, Petra Hájková, Michal Hájek, Ecology of testate amoebae along an environmental gradient from bogs to calcareous fens in East-Central Europe: development of transfer functions for palaeoenvironmental reconstructions, *Palaeogeography, Palaeoclimatology, Palaeoecology*, Volume 601, 2022, 111145, ISSN 0031-0182, <https://doi.org/10.1016/j.palaeo.2022.111145>.
 23. Ibarra-Morales, Diana & Silva-Aguilera, Raúl & Oseguera, Luis & Merino-Ibarra, Martín & Alcocer, Javier. (2022). Impacts of global change on two tropical, high mountain lakes in Central Mexico. *Science of The Total Environment*. 852. 158521. 10.1016/j.scitotenv.2022.158521.
 24. Heydarizad, M.; Gimeno, L.; Amiri, S.; Minaei, M.; Mohammadabadi, H.G. A Comprehensive Overview of the Hydrochemical Characteristics of Precipitation across the Middle East. *Water* 2022, 14, 2657. <https://doi.org/10.3390/w14172657>.
 25. Haider, S.W., Kazmi, S.J.H., Arsalan, M. et al. Spatial evaluation of precipitation patterns in the catchment area of Malir River during monsoon spells of 2019 through geospatial techniques. *Arab J Geosci* 15, 1435 (2022). <https://doi.org/10.1007/s12517-022-10574-9>.
 26. Zeng, Jie & Han, Guilin & Zhang, Shitong & Xiao, Xuhuan & Li, Yikai & Xi, Gao & Wang, Di & Qu, Rui. (2022). Rainwater chemical evolution driven by extreme rainfall in megacity: Implication for the urban air pollution source identification. *Journal of Cleaner Production*.
 27. Junginger, Tobias & Payraudeau, Sylvain & Imfeld, Gwenaël. (2022). Transformation and stable isotope fractionation of the urban biocide terbutryn during biodegradation, photodegradation and abiotic hydrolysis. *Chemosphere*. 305. 135329. 10.1016/j.chemosphere.2022.135329.
 28. Hunova, Iva & Brabec, Marek & Malý, Marek & Škáčková, Hana. (2022). Reconstruction of Daily Courses of SO₄²⁻, NO₃⁻, NH₄⁺ Concentrations in Precipitation from Cumulative Samples. *Atmosphere*. 13. 1049. 10.3390/atmos13071049.
 29. Anna Šímová, Martin Jiroušek, Patrícia Singh, Petra Hájková, Michal Hájek, Ecology of testate amoebae along an environmental gradient from bogs to calcareous fens in East-Central Europe: development of transfer functions for palaeoenvironmental reconstructions, *Palaeogeography, Palaeoclimatology, Palaeoecology*, Volume 601, 2022,

111145, ISSN 0031-0182,
<https://doi.org/10.1016/j.palaeo.2022.111145>.

30. Tuna Karatas, Jiří Bruthans, Michal Filippi, Anna Mazancová, Tomáš Weiss, Jakub Mareš, Depth distribution and chemistry of salts as factors controlling tafoni and honeycombs development, *Geomorphology*, Volume 414, 2022, 108374, ISSN 0169-555X,
<https://doi.org/10.1016/j.geomorph.2022.108374>.
31. Kumar, R., Kumar, R., Singh, A. *et al.* Chemometric approach to evaluate the chemical behavior of rainwater at high altitude in Shaune Garang catchment, Western Himalaya. *Sci Rep* 12, 12774 (2022).
<https://doi.org/10.1038/s41598-022-15422-0>.
32. He, S., Huang, M., Zheng, L., Chang, M., Chen, W., Xie, Q. and Wang, X., 2022. Seasonal variation of transport pathways and potential source areas at high inorganic nitrogen wet deposition sites in southern China. *Journal of Environmental Sciences*.
33. Zhong, Y., Li, X., Fan, Z., Ayitken, M., Li, S. and Liu, X., 2022. Chemical Composition Characteristics and Source Contributions of Precipitation in Typical Cities on the North Slope of Tianshan Mountain in Xinjiang during 2010–2019. *Atmosphere*, 13(5), p.646.
34. Chang, C.T., Yang, C.J., Huang, K.H., Huang, J.C. and Lin, T.C., 2022. Changes of precipitation acidity related to sulfur and nitrogen deposition in forests across three continents in north hemisphere over last two decades. *Science of the Total Environment*, 806, p.150552.
35. Oruc, I., Akkoyunlu, B.O. and Erdogan, I., 2022. The sources and seasonal variations of chemical components in the deposition samples in Kirklareli, Turkey. *Journal of the Serbian Chemical Society*.
36. Sharif, R.B., Houser, P., Aquila, V. and Maggioni, V., 2022. Investigating Rainfall Patterns in the Hubei Province, China and Northern Italy During the Covid-19 Lockdowns. *Frontiers in Climate*, 3, p.799054.
37. Hesam Ahmady-Birgani, Parisa Ravan, Joseph Simon Schlosser, Alberto Cuevas-Robles, Mojtaba AzadiAghdam, Armin Sorooshian, Is There a Relationship between Lake Urmia Saline Lakebed Emissions and Wet Deposition Composition in the Caucasus Region?, *ACS Earth Space Chem.* 2021, 5, 10, 2970–2985 Publication Date: October 12, 2021,
<https://doi.org/10.1021/acsearthspacechem.1c00320>
38. Abdemanafi, D., Meshkatee, A. and Hejam, S., 2021. The study of pH, Total Dissolved Solids (TDS), Electrical Conductivity (EC), Total Alkalinity and Total Hardness of rain water over Tehran city. *Journal of Climate Research*, 1399(44), pp.1-14.
39. Naseem, M., Kulshrestha, U.C. Wet deposition of atmospheric inorganic reactive nitrogen (Nr) across an urban-industrial-rural transect of Nr emission hotspot (India). *J Atmos Chem* (2021).
<https://doi.org/10.1007/s10874-021-09425-w>
40. Chung-Te Chang, Ci-Jian Yang, Ko-Han Huang, Jr-Chuan Huang, Teng-Chiu Lin, Changes of precipitation acidity related to sulfur and nitrogen deposition in forests across three continents in north hemisphere over last two decades, *Science of The Total Environment*, Volume 806, Part 1, 2022, 150552, ISSN 0048-9697,
<https://doi.org/10.1016/j.scitotenv.2021.150552>.

41. Boni Wang et al., The effect of construction dust and agricultural fertilization on the precipitation chemical composition during summer in the Yangtze River Delta area, China, *Atmospheric Pollution Research*, Atmospheric Pollution Research, 2021.
42. Emmanuel Ubuoh, Fredian Uchenna Nwogu, E.C. Osuagwu, Wet deposition chemistry and neutralization potential in oil producing region of southern Nigeria, *Journal of Environmental Management*, 89(11):112431, 2021, DOI: 10.1016/j.jenvman.2021.112431
43. Krasavtseva, E.; Maksimova, V.; Makarov, D.; Potorochin, E. Modelling of the Chemical Halo of Dust Pollution Migration in Loparite Ore Tailings Storage Facilities. *Minerals* 2021, 11, 1077.
<https://doi.org/10.3390/min11101077>
44. Naidu, R., Joseph, L. and Ghani, S.S., 2021. Physico-chemical and Biological Properties of Groundwater Quality in Rural Settlement, Nadi, Fiji. *Asian Journal of Water, Environment and Pollution*, 18(1), pp.1-6.
45. Han, T.N., Pham, T.T.H. and Nguyen, M.K., 2021. Study on Acidity and Neutralizing Ability of Ions in the Chemical Composition of Rainwater. *VNU Journal of Science: Earth and Environmental Sciences*, 37(2).
46. Xuemei Zhang Inge Hoff Inge Hoff Rabbira Garba Saba, Response and Deterioration Mechanism of Bitumen under Acid Rain Erosion, August 2021 *Materials* 14(17):4911, DOI: 10.3390/ma14174911
47. Zeng, J.; Ge, X.; Wu, Q.; Zhang, S. Three-Year Variations in Criteria Atmospheric Pollutants and Their Relationship with Rainwater Chemistry in Karst Urban Region, Southwest China. *Atmosphere* 2021, 12, 1073. <https://doi.org/10.3390/atmos12081073>
48. Nur Hidayah Norazman, Md Firoz Khan, Sharanya Ramanathan, Syazwani Mustapa Kama Shah, Siti Jariani Mohd Jani, Khaled Shaifullah Joy, Kazi Naimul Islam, Farah Jeba, Abdus Salam, Otoha Yoshida, and Hiroto Kawashima, Influence of Monsoonal Driving Factors on the Secondary Inorganic Aerosol over Ambient Air in Dhaka, <https://doi.org/10.1021/acsearthspacechem.1c00200>, *ACS Earth Space Chem.* XXXX, XXX, XXX-XXX.
49. MIHALI, CRISTINA; BUTEAN, CLAUDIA; BERINDE, ZOIȚA; DIPPONG, THOMAS; NECHITA, ALEXANDRA, ANALYSIS OF AMMONIUM ION IN WET DEPOSITION DURING COLD AND WARM SEASONS USING A MODIFIED NESSLER METHOD., *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering* . 2019, Vol. 33 Issue 2, p49-57. 9p.
50. Olatunji Omoniyi, Francis Olawale Abulude, Samuel Dare Oluwagbayide, Study of physico-chemical composition in wet atmospheric precipitation in Akure, Nigeria, *Water Utility Journal* 26: 9-18, 2020.
51. Yixi Qiu, Joseph David Felix, Hurricane/tropical storm rainwater chemistry in the US (from 2008 to 2019), *Science of The Total Environment* 798(12):149009, DOI: 10.1016/j.scitotenv.2021.149009.
52. Farkas, A., Bidló, A., Bolodár-Varga, B. et al. Accumulation of selected metals and concentration of macroelements in liver and kidney tissues of sympatric golden jackal (*Canis aureus*) and red fox (*Vulpes vulpes*) in Somogy County, Hungary. *Environ Sci Pollut Res* (2021).

- <https://doi.org/10.1007/s11356-021-15156-y>
53. Han Thi Ngan, Hoang Xuan Co, Pham Thi Thu Ha, Nguyen Manh Khai, Study on Acidity and Neutralizing Ability of Ions in the Chemical Composition of Rainwater, *Earth and Environmental Sciences*, 2021, DOI: 10.25073/2588-1094/vnuees.4708
54. Kacjan Maršič, N.; Može, K.S.; Mihelič, R.; Nečemer, M.; Hudina, M.; Jakopič, J. Nitrogen and Sulphur Fertilisation for Marketable Yields of Cabbage (*Brassica oleracea* L. var. *Capitata*), Leaf Nitrate and Glucosinolates and Nitrogen Losses Studied in a Field Experiment in Central Slovenia. *Plants* 2021, 10, 1304.
<https://doi.org/10.3390/plants10071304>
55. Jie Zeng, Guilin Han, Rainwater chemistry observation in a karst city : variations, influence factors, sources, and potential environmental effects, *PeerJ* 9:e11167, 2021, DOI: 10.7717/peerj.11167
56. Ilker Oruc, Emilia Georgieva, Elena Hristova, Krum Velchev, Goksel Demir & Bulent Oktay Akkoyunlu, Wet Deposition in the Cross-Border Region Between Turkey and Bulgaria: Chemical Analysis in View of Cyclone Paths, *Bulletin of Environmental Contamination and Toxicology*, 2021, <https://doi.org/10.1007/s00128-021-03210-x>
57. Bartos, Hunor; Balázs, Márta; Kuzman, Ildikó H.; Lányi, Szabolcs; Miklóssy, Ildikó. 2021. "Production of High Added-Value Chemicals in *Basfia succiniciproducens*: Role of Medium Composition" *Sustainability* 13, no. 6: 3513.
<https://doi.org/10.3390/su13063513>
58. Bodor Katalin, Boga Reka, Pernyeszi Timea, Tonk Szende, Deak Gyorgy, Variation of PM10 concentration depending on the meteorological parameters in two Bucharest monitoring stations (in green areas), 1, *PESD*, DOI: 10.15551/pesd2020141022, Pag. 277-292.
59. Jie Zeng, Fu-Jun Yue, Si-Liang Li, Zhong-Jun Wang, Qixin Wu, Cai-Qing Qin, Ze-Long Yan, Determining rainwater chemistry to reveal alkaline rain trend in Southwest China: Evidence from a frequent-rainy karst area with extensive agricultural production, *Environmental Pollution*, Volume 266, Part 3, 2020, 115166, ISSN 0269-7491,
<https://doi.org/10.1016/j.envpol.2020.115166>.
60. Ibarra-Morales, D., Alcocer, J., Oseguera, L.A. *et al.* Bulk Deposition and Main Ionic Composition in a Remote Tropical Region: Nevado de Toluca, Mexico. *Water Air Soil Pollut* 231, 413 (2020).
<https://doi.org/10.1007/s11270-020-04785-7>
61. Chen, H.-Y.; Hsu, L.-F.; Huang, S.-Z.; Zheng, L. Assessment of the Components and Sources of Acid Deposition in Northeast Asia: A Case Study of the Coastal and Metropolitan Cities in Northern Taiwan. *Atmosphere* 2020, 11, 983.
<https://doi.org/10.3390/atmos11090983>
62. Budhavant, Krishnakant B.; Gawhane, Ranjeeta D.; Rao, Pasumarthi Surya Prakash; et al., Long-term increasing trends in the wet deposition of secondary inorganic constituents in SW Indian precipitation, *AIR QUALITY ATMOSPHERE AND HEALTH*, DOI: 10.1007/s11869-020-00970-z
63. Darithsa Loya-González, Daniel López-Serna, Juan Manuel Alfaro-

	<p>Barbosa, Antonio López-Reyes, Humberto González-Rodríguez, Israel Cantú-Silva, Chemical Composition of Bulk Precipitation and Its Toxicity Potential Index in the Metropolitan Area of Monterrey, Northeastern Mexico, <i>Environments</i>, 2020, 7(12), 106; https://doi.org/10.3390/environments7120106</p> <p>64. Zeng, J.; Han, G. Rainwater Chemistry Reveals Air Pollution in a Karst Forest: Temporal Variations, Source Apportionment, and Implications for the Forest. <i>Atmosphere</i> 2020, 11, 1315. https://doi.org/10.3390/atmos11121315</p> <p>65. Mind'as, Jozef; Hanzelova, Miriam; Skvareninova, Jana; et al., Long-Term Temporal Changes of Precipitation Quality in Slovak Mountain Forests, <i>WATER</i> Volume: 12 Issue: 10 Article Number: 2920, 2020. DOI: 10.3390/w12102920</p> <p>66. Amit Kumar MishraAnshumali, Nature and sources of ionic species in rainwater during monsoon periods in and around sixteenth–seventeenth century CE monuments in Yamuna River basin, India, <i>Environmental Monitoring and Assessment</i> 193(2), 2021, DOI: 10.1007/s10661-021-08889-3</p> <p>67. Lingling Zhang, Wenping Liu, B. Zheng, A. Xu, B. Sun, Features of Roof Rainwater Runoff Pollution in a Northern Coastal City under the Effects of Multiple Factors, <i>International Journal of Sustainable Development and Planning</i>, 2020, DOI:10.18280/ijmdp.150403.</p>
8	<p>Zsolt BODOR, Katalin BODOR, Ágnes KERESZTESI, Róbert SZÉP, Major air pollutants seasonal variation analysis and long-range transport of PM₁₀ in an urban environment with specific climate condition in Transylvania (Romania), <i>Environmental Science and Pollution Research</i>, ISSN: 0944-1344, 27, 2020. https://doi.org/10.1007/s11356-020-09838-2</p> <ol style="list-style-type: none"> 1. Bhadauria, Neha & Chauhan, Abhishesk & Ranjan, Rajnish & Jindal, Tanu. (2023). An assessment of seasonal, monthly and diurnal variations of ambient air quality in the Gurugram city (Haryana). <i>Journal of Applied and Natural Science</i>. 15. 306-313. 10.31018/jans.v15i1.4142. 2. Jiao, Yang & Yangang, Ren & Laroussi, Walid & Robin, Corinne & Filippis, Amélie & Bordier, Florent & Rangognio, J. & Yahyaoui, Abderrazak & Favez, Olivier & Mellouki, Abdelwahid. (2023). Tracking changes in atmospheric particulate matter at a semi-urban site in Central France over the past decade. <i>Science of The Total Environment</i>. 885. 163807. 10.1016/j.scitotenv.2023.163807. 3. Chen, Y, Shi, Y, Ren, J. et al. VOC species controlling O₃ formation in ambient air and their sources in Kaifeng, China. <i>Environ Sci Pollut Res</i> 30, 75439–75453 (2023). https://doi.org/10.1007/s11356-023-27595-w 4. Rosa Lara, Laura Megido, Beatriz Suárez-Peña, Luis Negral, Yolanda Fernández-Nava, Jesús Rodríguez-Iglesias, Elena Marañón, Leonor Castrillón, Impact of COVID-19 restrictions on hourly levels of PM₁₀, PM_{2.5} and black carbon at an industrial suburban site in northern Spain, <i>Atmospheric Environment</i>, Volume 304, 2023, 119781, ISSN 1352-2310, https://doi.org/10.1016/j.atmosenv.2023 5. Pan, Q., Harrou, F. & Sun, Y. A comparison of machine learning

- methods for ozone pollution prediction. *J Big Data* 10, 63 (2023). <https://doi.org/10.1186/s40537-023-00748-x>
6. Fubara, Boma & Dibofori-Orji, Amalo. (2023). Seasonal Variation of PH_{2.5} and PM₁₀ Concentrations and Potential Human Health Risk in 5 Urban and 1 Rural Residential Communities of Rivers State. *Journal of Health and Environmental Research*. 10.11648/j.jher.20230901.14.
 7. Rahman, RR., Kabir, A. Spatiotemporal analysis and forecasting of air quality in the greater Dhaka region and assessment of a novel particulate matter filtration unit. *Environ Monit Assess* 195, 824 (2023). <https://doi.org/10.1007/s10661-023-11370-y>
 8. Oujidi, Bouchra & Benchrif, Abdelfettah & TAHRI, Mounia & Zahry, Fatiha & Bounakhla, Moussa & Bazairi, Hocein & Mhammdi, Nadia & Snoussi, Maria. (2023). Gaseous Pollutants and Particulate Matter in Ambient Air: First Field Experiment in an Urban Mediterranean Area (Nador, Morocco). *Aerosol and Air Quality Research*. 23. 220451. 10.4209/aaqr.220451.
 9. Pallavi Pradeep Khobragade, Ajay Vikram Ahirwar, Seasonal Variation and Source Identification of PM₁₀ in an Industrialized City, *Macromolecular symposia*, Volume 410, Issue 1, 2023, <https://doi.org/10.1002/masy.202100217>
 10. Sharma, Khushboo & Kumar, P. & Sharma, Jayant & Thapa, Satkar & Gupta, Aparna & Rajak, Rajeev & Baruah, Bidyutjyoti & Prakash, Amit & Ranjan, Rakesh. (2023). Characterization of Polycyclic Aromatic Hydrocarbons (PAHs) associated with fine aerosols in ambient atmosphere of high-altitude urban environment in Sikkim Himalaya. *Science of The Total Environment*. 870. 161987. 10.1016/j.scitotenv.2023.161987.
 11. Birinci, E., Deniz, A. & Özdemir, E.T. The relationship between PM₁₀ and meteorological variables in the mega city Istanbul. *Environ Monit Assess* 195, 304 (2023). <https://doi.org/10.1007/s10661-022-10866-3>
 12. Khumukcham R, Khoiyangbam R. S. Indoor and Outdoor Air Quality Assessment of SO₂ and NO₂ in Suburban Schools in Imphal, Manipur. *Curr World Environ* 2022;17(3). DOI:<http://dx.doi.org/10.12944/CWE.17.3.11>
 13. Chen, Yijia & Shi, Yuqi & Ren, Jie & Guiying, You & Zheng, Xudong & Liang, Yue & Simayi, Maimaiti & Hao, Yufang & Xie, Shaodong. (2022). Characteristics, Effects and Sources of Ambient Volatile Organic Compounds in Kaifeng, China. *SSRN Electronic Journal*. 10.2139/ssrn.4186676.
 14. Darynova, Z., Malekipirbazari, M., Shabdirov, D. et al. Reliability and stability of a statistical model to predict ground-based PM_{2.5} over 10 years in Karachi, Pakistan, using satellite observations. *Air Qual Atmos Health* (2023). <https://doi.org/10.1007/s11869-022-01296-8>.
 15. Shelton, Sherly & Liyanage, Gayathri & Jayasekara, Sanduni & Pushpawela, Buddhi & Rathnayake, Upaka & Jayasundara, Akila & Jayasooriya, Lesty. (2022). Seasonal Variability of Air Pollutants and

Their Relationships to Meteorological Parameters in an Urban Environment. *Advances in Meteorology*. 2022. 10.1155/2022/5628911.

16. Iroegbulem, Ifunanya & Egereonu, · & Ogukwe, Cynthia & Akalezi, Chris & Egereonu, · & Duru, Chidi & Okoro, ·. (2022). Assessment of Seasonal Variations in Air Quality from Lagos Metropolis and Suburbs Using Chemometric Models. *Chemistry Africa*. 24. 10.1007/s42250-022-00537-8.
17. Tudor, Cristiana. (2022). Ozone pollution in London and Edinburgh: spatiotemporal characteristics, trends, transport and the impact of COVID-19 control measures. *Heliyon*. 8. e11384. 10.1016/j.heliyon.2022.e11384.
18. Chaitanya, P, Upadhyay, E., Kulkarni, A. et al. Effect of association of temperature and pollutant levels on COVID-19 spread over Jaipur. *Vegetos* (2022). <https://doi.org/10.1007/s42535-022-00500-5>
19. Faour, Ali & Abboud, Maher & Germanos, Georges & Farah, Wehbeh. (2022). Assessment of the exposure to PM_{2.5} in different ch microenvironments at different temporal scales. *Environmental Monitoring and Assessment*. 195. 10.1007/s10661-022-10607-6.
20. Sellamuthu, Sadheesh & Jeyadharmarajan, Jeyanthi. (2022). Analysis of Seasonal Variation and Dispersion Pattern of Ambient Air Pollutants in an Urban Environment. *EMAS*, 2022, 10.21203/rs.3.rs-1954800/v1.
21. Soares da Silva, Mauricio & Pimentel, Luiz Claudio & Duda, Fernando & Aragão, Leonardo & Silva, Corbiniano & Dragaud, Ian & Vicentini, Pedro. (2022). Assessment of meteorological settings on air quality modeling system—a proposal for UN-SDG and regulatory studies in non-homogeneous regions in Brazil. *Environmental Science and Pollution Research*. 10.1007/s11356-022-22146-1.
22. Faizi, Fiza & Mahmood, Khalid & Basit, Iqra. (2022). Geospatial passives for dynamic vegetation monitoring around thermal power plants. *Environmental Science and Pollution Research*. 1-14. 10.1007/s11356-022-21581-4.
23. Shala, Shkumbin & Aleksander-Kwaterczak, Urszula & Rexhepi, Fatos. (2022). Long-term changes in air quality. The case of Pristina (Kosovo). *Geology Geophysics & Environment*. 48. 5-18. 10.7494/geol.2022.48.1.5.
24. Şükrü Özkan, Hakan Ceylan, The effects on mechanical properties of sustainable use of waste andesite dust as a partial substitution of cement in cementitious composites, *Journal of Building Engineering*, 2022, 104959, ISSN 2352-7102, <https://doi.org/10.1016/j.jobbe.2022.104959>.
25. Chandra, Ravish & Saloni, kumari. (2023). Impact of Different Water Management Options on Groundwater Draft, Energy Consumption and Carbon Emission in Different Districts of Bihar. *Indian Journal of Ecology*. 50. 221-229. 10.55362/IJE/2023/3882..
26. Tudu, P, Gaine, T, Mahanty, S, Mitra, S, Bhattacharyya, S. and Chaudhuri, P, 2022. Impact of COVID-19 lockdown on the elemental profile of PM₁₀ present in the ambient aerosol of an educational

- institute in Kolkata, India. *Environmental Quality Management*.
27. Kahraman, A.C. and Sivri, N., 2022. Comparison of metropolitan cities for mortality rates attributed to ambient air pollution using the AirQ model. *Environmental Science and Pollution Research*, pp.1-14.
 28. Sarawut Sukkhum, Apiradee Lim, Rattikan Saelim, Thammasin Ingviya, Seasonal Patterns and Trends of Air Pollution in The Upper Northern Thailand from 2004 to 2018, 2021, DOI: 10.21203/rs.3.rs-914607/v1,
 29. Krasavtseva, E.; Maksimova, V.; Makarov, D.; Potorochin, E. Modelling of the Chemical Halo of Dust Pollution Migration in Loparite Ore Tailings Storage Facilities. *Minerals* 2021, 11, 1077. <https://doi.org/10.3390/min11101077>
 30. Ahmet Cihat Kahraman, Nüket Sivri, Comparison of Metropolitan Cities for Mortality Rates Attributed to Ambient Air Pollution Within the Context of SDGs Using the AirQ Model, DOI: 10.21203/rs.3.rs-838069/v1, Research Square, 2021.
 31. Thomas Plocoste, Rudy Calif, Is there a causal relationship between Particulate Matter (PM10) and air Temperature data? An analysis based on the Liang-Kleeman information transfer theory, *Atmospheric Pollution Research*, 2021, 101177, ISSN 1309-1042, <https://doi.org/10.1016/j.apr.2021.101177>.
 32. Jahan- E-GulshanMd. Mominul Islam, Seasonal variations of microbes in particulate matter obtained from Dhaka City in Bangladesh, *Environmental Pollutants and Bioavailability*, DOI: 10.1080/26395940.2021.1940302, 2021.
 33. Kim, B.-Y.; Cha, J.W.; Chang, K.-H.; Lee, C. Visibility Prediction over South Korea Based on Random Forest. *Atmosphere* 2021, 12, 552. <https://doi.org/10.3390/atmos12050552>
 34. Akinola S. Akinwumiju Tesleem Ajisafe Adedeji A. Adelodun, Airborne Particulate Matter Pollution in Akure Metro City, Southwestern Nigeria, West Africa: Attribution and Meteorological Influence, *Journal of Geovisualization and Spatial Analysis* 5(1) DOI: 10.1007/s41651-021-00079-6
 35. Martha N. Uugwanga, Nnenesi A. Kgabi, Dilution and dispersion of particulate matter from abandoned mine sites to nearby communities in Namibia, *Heliyon*. Volume: 7. Issue: 4. 2021, DOI:<https://doi.org/10.1016/j.heliyon.2021.e06643>
 36. Hajdu, T., Hajdu, G. Temperature, climate change, and birth weight: evidence from Hungary. *Popul Environ* (2021). <https://doi.org/10.1007/s11111-021-00380-y>
 37. Darithsa Loya-González, Daniel López-Serna, Juan Manuel Alfaro-Barbosa, Antonio López-Reyes, Humberto González-Rodríguez, Israel Cantú-Silva, Chemical Composition of Bulk Precipitation and Its Toxicity Potential Index in the Metropolitan Area of Monterrey, Northeastern Mexico, *Environments*, 2020, 7(12), 106; <https://doi.org/10.3390/environments7120106>
 38. Jing-Ying Mao, Zhi-Ming Chen, Zong-Kai Jiang, Zhao-Yu Mo, Hong-Jiao Li, Fan Meng, Bei Chen, Hui-Jiao Ling, Hong Li, A Comparative Study on Air Pollution Characteristics in Four Key Cities during 2013 in

	<p>Guangxi Province, China, <i>Sustainability</i> 2021, 13(4), 1612; https://doi.org/10.3390/su13041612.</p> <p>39. Effects of Technological Progress from Different Sources on Haze Pollution in China, <i>Sustainability</i>, 2021. <i>Sustainability</i> 2021, 13(5), 2730; https://doi.org/10.3390/su13052730 (registering DOI)</p>
9	<p>Ágnes Keresztesi, Sandor Petres, Ghita Gina, Dumitru Florina-Diana, Mihaela Andreea Moncea, Alexandru Ozunu, Robert Szép*, Ammonium Neutralization Effect on Rainwater Chemistry in the Basins of the Eastern Carpathians – Romania, <i>Revista de Chimie</i>, Volume: 69, Issue: 1, Page: 57-63, 2018.</p> <ol style="list-style-type: none"> 1. Kumar, R., Kumar, R., Singh, A., Arif, M., Kumar, P., & Kumari, A. (2022). Chemometric approach to evaluate the chemical behavior of rainwater at high altitude in Shaune Garang catchment, Western Himalaya. <i>Scientific Reports</i>, 12(1), 12774. 2. Svv, D. R., Al-Rashidi, A., Sabarathinam, C., Alsabti, B., Al-Wazzan, Y., & Kumar, U. S. (2023). Temporal and spatial shifts in the chemical composition of urban coastal rainwaters of Kuwait: The role of air mass trajectory and meteorological variables. <i>Science of The Total Environment</i>, 899, 165649. 3. Bodor, K., Bodor, Z., & Szép, R. (2021). Spatial distribution of trace elements (As, Cd, Ni, Pb) from PM 10 aerosols and human health impact assessment in an Eastern European country, Romania. <i>Environmental Monitoring and Assessment</i>, 193, 1-17. 4. Bartos, H., Balázs, M., Kuzman, I. H., Lányi, S., & Miklóssy, I. (2021). Production of high added-value chemicals in <i>Basfia succiniciproducens</i>: Role of medium composition. <i>Sustainability</i>, 13(6), 3513. 5. Bodor, K., Boga, R., Pernyeszi, T., Tonk, S., & Deak, G. (2020). Variation of PM10 concentration depending on the meteorological parameters in two Bucharest monitoring stations (in green areas). <i>Present Environment and Sustainable Development</i>, (1), 277-292. 6. Bodor, K., Bodor, Z., & Szep, R. (2020). The trend of trace elements (Cd, Ni, Pb) from PM 2.5 and PM 10 aerosols and its effect on human health in Bucharest, Romania. <i>Rev Chim</i>, 71, 433-439. 7. Boga, R., Bodor, Z., Bodor, K., Tonk, S., Deak, G., Pernyeszi, T., & Nita, I. A. (2019). The influence of evapotranspiration and wet deposition on the variations of PM10 concentration in the Ciuc basin. <i>Present Environment and Sustainable Development</i>, (1), 33-44. 8. Indrawati, A., Lestari, R. P., & Tanti, D. A. (2020). Tren Deposisi Amonium di Serpong dan Bandung. <i>Ecolab</i>, 14(2), 147-156. 9. Hong, T. T. K., & Giao, N. T. (2022). Evaluation of Rainwater Quality in Soc Trang City, Soc Trang province, Vietnam. <i>Journal of Energy Technology and Environment</i>, 4(3). 10. Hong, T. T. K., & Giao, N. T. (2022). Evaluation of Rainwater Quality in Soc Trang City, Soc Trang province, Vietnam. <i>Journal of Energy Technology and Environment</i>, 4(3). 11. Bodor, Z., FAZAKAS, A. I., Bodor, K., Kovacs, E., Miklossy, I., & Albert, B. (2020). Using genome-scale model to predict the metabolic engineering impact on <i>Escherichia coli</i> metabolism during succinic acid production optimization. <i>ROMANIAN BIOTECHNOLOGICAL LETTERS</i>, 25(3), 1666-1676.
10	<p>Miruna-Mihaela Micheu, Marius-Victor Birsan, Róbert Szép, Ágnes Keresztesi, Ion-Andrei Nita, From air pollution to cardiovascular diseases: the emerging role of</p>

	<p>epigenetics, <i>Mol Biol Rep</i> 47, 5559–5567 (2020). https://doi.org/10.1007/s11033-020-05570-9.</p> <ol style="list-style-type: none"> 1. Kulick, E. R., Kaufman, J. D., & Sack, C. (2023). Ambient Air Pollution and Stroke: An Updated Review. <i>Stroke</i>, 54(3), 882-893. 2. Ghosh, A. K. (2021). Acetyltransferase p300 is a putative epigenetic target for amelioration of cellular aging-related cardiovascular disease. <i>Cells</i>, 10(11), 2839. 3. Mihai, G., Alexandru, A. M., Nita, I. A., & Birsan, M. V. (2022). Climate Change in the Provenance Regions of Romania over the Last 70 Years: Implications for Forest Management. <i>Forests</i>, 13(8), 1203. 4. Baranyi, G., Deary, I. J., McCartney, D. L., Harris, S. E., Shortt, N., Reis, S., ... & Pearce, J. (2022). Life-course exposure to air pollution and biological ageing in the Lothian Birth Cohort 1936. <i>Environment International</i>, 169, 107501. 5. Brogi, S., Tabanelli, R., & Calderone, V. (2022). Combinatorial approaches for novel cardiovascular drug discovery: a review of the literature. <i>Expert Opinion on Drug Discovery</i>, 17(10), 1111-1129. 6. Shi, W., Tang, S., Fang, J., Cao, Y., Chen, C., Li, T., ... & Shi, X. (2022). Epigenetic age stratifies the risk of blood pressure elevation related to short-term PM2.5 exposure in older adults. <i>Environmental Research</i>, 212, 113507. 7. D'Amico, G., Santonocito, R., Vitale, A. M., Scalia, F., Marino Gammazza, A., Campanella, C., ... & Caruso Bavisotto, C. (2023). Air Pollution: Role of Extracellular Vesicles-Derived Non-Coding RNAs in Environmental Stress Response. <i>Cells</i>, 12(11), 1498. 8. Moraca, S., Lionetti, V., & De Nuntiis, P. (2022). Planetary health: an interdisciplinary perspective. <i>Environmental Engineering and Management Journal</i>, 21(10), 1699-1708. 9. Muruganandam, N., Mahalingam, S., Narayanan, R., & Rajadurai, E. (2023). Meandered and muddled: a systematic review on the impact of air pollution on ocular health. <i>Environmental Science and Pollution Research</i>, 1-19. 10. Dutta, P., Sengupta, A., & Chakraborty, S. (2022). Epigenetics: a new warrior against cardiovascular calcification, a forerunner in modern lifestyle diseases. <i>Environmental Science and Pollution Research</i>, 1-18. 11. Gujral, U. P., Barkin, S., & Narayan, K. V. (2023). Epigenetics of Early-Life Socioeconomic Stressors and the Impact on Childhood Body Mass Index—Potential Mechanism and Biomarker?. <i>JAMA pediatrics</i>. 12. Zhang, Y., Dun, X., Li, B., Bao, H., Li, D., Xu, Z., ... & Cui, L. (2021). Real Ambient Particulate Matter-Induced Myocardial Hypertrophy and Myocardial Lipotoxicity: Roles of PDGFRβ Methylation. 13. Mihai, G., Alexandru, A. M., Nita, I. A., & Birsan, M. V. (2022). Climate Change in the Provenance Regions of Romania over the Last 70 Years: Implications for Forest Management. <i>Forests</i> 2022, 13, 1203.
11	<p>Marius-Victor Birsan, Dana-Magdalena Micu, AI Nita, Elena Mateescu, Robert Szep, Agnes Keresztes, SPATIO-TEMPORAL CHANGES IN ANNUAL TEMPERATURE EXTREMES OVER ROMANIA (1961–2013), <i>Romanian Journal of Physics</i> 64, 816 (2019).</p> <ol style="list-style-type: none"> 1. Mihai, G., Alexandru, A. M., Nita, I. A., & Birsan, M. V. (2022). Climate Change in the Provenance Regions of Romania over the Last 70 Years: Implications for Forest Management. <i>Forests</i>, 13(8), 1203.

2. Micu, D. M., Dumitrescu, A., Cheval, S., Nita, I. A., & Birsan, M. V. (2021). Temperature changes and elevation-warming relationships in the Carpathian Mountains. *International Journal of Climatology*, 41(3), 2154-2172.
3. Prăvălie, R., Niculiță, M., Roșca, B., Patriche, C., Dumitrașcu, M., Marin, G., ... & Birsan, M. V. (2023). Modelling forest biomass dynamics in relation to climate change in Romania using complex data and machine learning algorithms. *Stochastic Environmental Research and Risk Assessment*, 37(5), 1669-1695.
4. Sfîcă, L., Minea, I., Hrițac, R., Amihăesei, V. A., & Boicu, D. (2022). Projected changes of groundwater levels in northeastern Romania according to climate scenarios for 2020–2100. *Journal of Hydrology: Regional Studies*, 41, 101108.
5. Nita, I. A., Apostol, L. I. V. I. U., Patriche, C., Sfîcă, L., Bojariu, R., & Birsan, M. V. (2022). Frequency of Atmospheric Circulation Types over Romania According to Jenkinson-Collison Method Based on Two Long-Term Reanalysis Datasets. *Rom. J. Phys*, 67, 812.
6. Gudko, V., Usatov, A., Ioshpa, A., Denisenko, Y., Shevtsova, V., & Azarin, K. (2021). Agro-climatic conditions of the Southern Federal District of Russia in the context of climate change. *Theoretical and Applied Climatology*, 145(3-4), 989-1006.
7. Mihai, G., Curtu, A. L., Alexandru, A. M., Nita, I. A., Ciocîrlan, E., & Birsan, M. V. (2022). Growth and Adaptive Capacity of Douglas Fir Genetic Resources from Western Romania under Climate Change. *Forests*, 13(5), 805.
8. Horvath, C., & Croitoru, A. E. (2023). Analysis of precipitation extremes related to agriculture and water resources sectors based on gridded daily data in Romania. *Theoretical and Applied Climatology*, 151(1-2), 355-373.
9. Nechita, C., Iordache, A. M., Costinel, D., Botoran, O. R., Dănilă, G., Ionete, R. E., & Varlam, M. (2022). A Tree Ring Proxy Evaluation of Declining Causes in *Pinus sylvestris* L. and *Pinus nigra* JF Arnold in Northeastern Romania. *Forests*, 13(2), 336.
10. Mihai, G., Alexandru, A. M., Nita, I. A., & Birsan, M. V. (2022). Climate Change in the Provenance Regions of Romania over the Last 70 Years: Implications for Forest Management. *Forests* 2022, 13, 1203.
11. Vlăduț, A. Ș. (2023). Thermal continentality in Romania (period 1961–2018). *Arabian Journal of Geosciences*, 16(10), 557.
12. Bodor, K., Bodor, Z., & Szep, R. (2020). The trend of trace elements (Cd, Ni, Pb) from PM 2.5 and PM 10 aerosols and its effect on human health in Bucharest, Romania. *Rev Chim*, 71, 433-439.
13. Croitoru, A. E., Horvath, C., & Man, T. C. (2022). Assessment of Climate Conditions and Changes Detected Over the Historical Period (1961–2013). In *The Danube River Delta* (pp. 77-99). Cham: Springer International Publishing.
14. GÜNDÜZ, F., & ZEYBEKOĞLU, U. (2024). Analysis of temperature and precipitation series of Hirfanli Dam Basin by Mann Kendall, Spearman's Rho and Innovative Trend Analysis. *Turkish Journal of Engineering*, 8(1), 11-19.
15. Pomaga, R., Birsan, M. V., Roșca, G., & Dabija, T. (2019). Towards an automatic meteorological forecast verification system for the state hydrometeorological service, republic of Moldova. *Present Environment and*

	<i>Sustainable Development, (2), 43-56.</i>
12	<p>Katalin BODOR, Róbert SZÉP, Zsolt BODOR, The human health risk assessment of particulate air pollution (PM2.5 and PM10) in Romania, <i>Toxicology Reports</i>, 9, 2022, 556-562.</p> <ol style="list-style-type: none"> 1. Abidin, Azham & Maziya, Fina & Susetyo, Septian & Yoneda, Minoru & Matsui, Yasuto. (2023). Exposure Particulate Matter (PM2.5) and Health Risk Assessment on Informal Workers in Landfill Site, Indonesia. <i>Environmental Challenges</i>. 13. 100795. 10.1016/j.envc.2023.100795. 2. Alusvigayana, Pryanka & Yuwono, Arief & Yani, Mohamad & Syarwan, Supandi. (2023). Evaluation of the Air Pollutant Standard Index (ISPU) parameter concentration limits in industrial estates on Java Island. <i>Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan (Journal of Natural Resources and Environmental Management)</i>. 13. 537-548. 10.29244/jpsl.13.4.537-548 3. Sanda, Mia & Dunea, Daniel & Iordache, Stefania & Predescu, Laurentiu & Predescu, Mirela & Pohoata, Alin & Onutu, Ion. (2023). Recent Urban Issues Related to Particulate Matter in Ploiesti City, Romania. <i>Atmosphere</i>. 14. 746. 10.3390/atmos14040746. 4. Jiang, Ruiyuan & Xie, Changkun & Man, Zihao & Zhou, Rebecca & Che, Shengquan. (2023). Effects of Urban Green and Blue Space on the Diffusion Range of PM2.5 and PM10 Based on LCZ. <i>Land</i>. 12. 964. 10.3390/land12050964. 5. Mamić, Luka & Gasparovic, Mateo & Kaplan, Gordana. (2023). Developing PM2.5 and PM10 Prediction Models on National and Regional Scale Using Open-source Remote Sensing Data. <i>Environmental Monitoring and Assessment</i>. 195. 10.1007/s10661-023-11212-x. 6. Beatrice Mahler, Dragoş Băiceanu, Traian Constantin Panciu, Radu Marian Florea, Ana Luiza Iorga, Marcin Gnat, Cornelia Florina German, Simona Pârvu, Dorel Paraschiv, Daniela Manea, Mihaela Mihai, Elmira Ibrahim, Bogdan Timar, Florin Dumitru Mihălţan, Air Pollutants and Their Impact on Chronic Diseases—A Retrospective Study in Bucharest, Romania, <i>Atmosphere</i>.2023; 14(5): 867. 7. He, Jia & Jing, Yuhan & Ran, Duan. (2023). Is There a Relationship between Increased Land-Use Intensity and the Rise in PM2.5 Pollution Levels in the Yangtze River Economic Belt, China (2000–2021)?. <i>Atmosphere</i>. 14. 1097. 10.3390/atmos14071097. 8. Singh, Bhupendra & Mehra, Kriti & Chowdhary, Khyati & Khanna, Charvi & Chandra, Prakash. (2023). Effect of Meteorological Parameters and Air Pollutants Association with Health Risk Assessment during the Pandemic in Delhi, India. 10.21203/rs.3.rs-3149050/v1. 9. Zhang, Hao & Du, Ping & Yuan, Bei & Yunhui, Zhang & Chen, Juan & Liu, Hupeng & Li, Aiyang & Wei, Yuquan & Xiong, Yanna & Zhao, Bin. (2023). Multifaceted Insight into Sensitivity Analysis and Environmental Impact on Human Health of Soil Contamination Risk Assessment. <i>Environment & Health</i>. 10.1021/envhealth.3c00077. 10. Clemente María, Álvaro & Gil-Moltó, J. & Yubero, Eduardo & Juárez, N. & Nicolás, Jose & Crespo, J. & Galindo, Nuria. (2023). Sensitivity of PM10

	<p>oxidative potential to aerosol chemical composition at a Mediterranean urban site: ascorbic acid versus dithiothreitol measurements. <i>Air Quality, Atmosphere & Health</i>. 1-8. 10.1007/s11869-023-01332-1</p> <ol style="list-style-type: none"> 11. Jiang, Ruiyuan & Xie, Changkun & Man, Zihao & Afshari, Afshin & Che, Shengquan. (2023). LCZ method is more effective than traditional LUCC method in interpreting the relationship between urban landscape and atmospheric particles. <i>Science of The Total Environment</i>. 869. 161677. 10.1016/j.scitotenv.2023.161677. 12. Buzatu, Diana & Dodocioiu, Ana. (2022). AIR QUALITY STUDY IN CRAIOVA MUNICIPALITY BASED ON DATA PROVIDED BY URADM INDEPENDENT SENSOR NETWORK. <i>ANNALS OF THE UNIVERSITY OF CRAIOVA, Biology, Horticulture, Food products processing technology, Environmental engineering</i>. 27. 10.52846/bihpt.v27i63.17. 13. Salami, Lukumon & Popoola, Lekan. (2023). A Comprehensive Review of Atmospheric Air Pollutants Assessment Around Landfill Sites. <i>Air, Soil and Water Research</i>. 16. 117862212211453. 10.1177/11786221221145379. 14. Zhu, Zixin & Zhao, Xueke & Zhu, Lili & Xiong, Yan & Cong, Shuo & Zhou, Mingyu & Zhang, Manman & Cheng, Mingliang & Luo, Xinhua. (2022). Effects of short-term waterfall forest aerosol air exposure on rat lung proteomics. <i>Annals of Translational Medicine</i>. 10. 1223-1223. 10.21037/atm-22-4813. 15. Yuan, C.S., Ceng, J.H., Yen, P.H., Chiang, K.C., Tseng, Y.L., Wong, K.W., Jeng, M.S. (2023). Temporospatial Variation, Chemical Composition, and Source Resolution of PM_{2.5} in the Southeastern Taiwan Island. <i>Aerosol Air Qual. Res.</i> 23, 220350. https://doi.org/10.4209/aaqr.220350. 16. Elbaz, Khalid & Hoteit, Ibrahim & M. Shaban, Wafaa & Shen, Shui-Long. (2022). Spatiotemporal air quality forecasting and health risk assessment over smart city of NEOM. <i>Chemosphere</i>. 313. 137636. 10.1016/j.chemosphere.2022.137636. 17. Debaene, Guillaume & Ukalska - Jaruga, Aleksandra & Smreczak, Bozena & Papierowska, Ewa. (2022). Diffuse Reflectance Spectroscopy for Black Carbon Screening of Agricultural Soils under Industrial Anthropopressure. <i>Molecules</i>. 27. 7334. 10.3390/molecules27217334.
13	<p>Rápó E., Aradi L.E., Szabó Á, Posta K., Szép R., Tonk Sz.: Adsorption of Remazol Brilliant Violet-5R Textile Dye from Aqueous Solutions by Using Eggshell Waste Biosorbent, <i>Scientific Reports</i>, vol. 10 (8385), 2020.</p> <ol style="list-style-type: none"> 1. Slama, H.B.; Chenari Bouket, A.; Pourhassan, Z.; Alenezi, FN.; Silini, A.; Cherif-Silini, H.; Oszako, T.; Luptakova, L.; Golińska, P.; Belbahri, L. Diversity of Synthetic Dyes from Textile Industries, Discharge Impacts and Treatment Methods. <i>Appl. Sci.</i> 2021, 11, 6255. https://doi.org/10.3390/app11146255 2. Rápó, E.; Tonk, S. Factors Affecting Synthetic Dye Adsorption; Desorption Studies: A Review of Results from the Last Five Years (2017–2021). <i>Molecules</i> 2021, 26, 5419. https://doi.org/10.3390/molecules26175419 3. Amina Othmani, Sara Magdouli, P. Senthil Kumar, Ashish Kapoor, Padmanaban Velayudhaperumal Chellam, Ömür Gökkuş, Agricultural waste materials for adsorptive removal of phenols, chromium (VI) and cadmium (II) from wastewater: A review, <i>Environmental Research</i>, Volume 204, Part A, 2022, 111916, ISSN 0013-9351,

<https://doi.org/10.1016/j.envres.2021.111916>.

4. Adithya Sridhar, Muthamilselvi Ponnuchamy, Ashish Kapoor, Sivaraman Prabhakar, Valorization of food waste as adsorbents for toxic dye removal from contaminated waters: A review, *Journal of Hazardous Materials*, Volume 424, Part B, 2022, 127432, ISSN 0304-3894, <https://doi.org/10.1016/j.jhazmat.2021.127432>.
5. Sanchali Bose, P. Senthil Kumar, Gayathri Rangasamy, G. Prasannamedha, S. Kanmani, A review on the applicability of adsorption techniques for remediation of recalcitrant pesticides, *Chemosphere*, Volume 313, 2023, 137481, ISSN 0045-6535, <https://doi.org/10.1016/j.chemosphere.2022.137481>.
6. Shojaei, Siroos, et al. "Application of Taguchi method and response surface methodology into the removal of malachite green and auramine-O by NaX nanozeolites." *Scientific reports* 11.1 (2021): 16054.
7. Yeow, Peck Kah, Sie Wei Wong, and Tony Hadibarata. "Removal of azo and anthraquinone dye by plant biomass as adsorbent—a review." *Biointerface Res. Appl. Chem* 11 (2021): 8218-8232.
8. Vandeginste, Veerle. "Food waste eggshell valorization through development of new composites: A review." *Sustainable Materials and Technologies* 29 (2021): e00317.
9. Mirzaei, Kamyar, et al. "Improved adsorption performance of ZIF-8 towards methylene blue dye by hybridization with nanodiamond." *Journal of Water Process Engineering* 50 (2022): 103254.
10. Laohavisuti, Nongnuch, et al. "Simple recycling of biowaste eggshells to various calcium phosphates for specific industries." *Scientific Reports* 11.1 (2021): 15143.
11. Eskikaya, Ozan, et al. "Photocatalytic activity of calcined chicken eggshells for Safranin and Reactive Red 180 decolorization." *Chemosphere* 304 (2022): 135210.
12. Soltani, Ali, Mehdi Faramarzi, and Seyed Aboutaleb Mousavi Parsa. "A review on adsorbent parameters for removal of dye products from industrial wastewater." *Water Quality Research Journal* 56.4 (2021): 181-193.
13. Danouche, M., et al. "An overview of the biosorption mechanism for the bioremediation of synthetic dyes using yeast cells." *Environmental Technology Reviews* 10.1 (2021): 58-76.
14. Akpomie, Kovo G., and Jeanet Conradie. "Synthesis, characterization, and regeneration of an inorganic–organic nanocomposite (ZnO@ biomass) and its application in the capture of cationic dye." *Scientific reports* 10.1 (2020): 14441.
15. Tonk, Szende, and Eszter Rápó. "Linear and nonlinear regression analysis for the adsorption of remazol dye by romanian brewery waste by-product, *Saccharomyces cerevisiae*." *International Journal of Molecular Sciences* 23.19 (2022): 11827.
16. Singh, Mayank, et al. "Comparative assessment for removal of anionic dye from water by different waste-derived biochar vis a vis reusability of generated sludge." *Biochar* 4.1 (2022): 13.
17. Salih, Shameran Jamal, Aram Salahuddin Abdul Kareem, and Sewgil Saaduldeen Anwer. "Adsorption of anionic dyes from textile wastewater utilizing raw corncob." *Heliyon* 8.8 (2022).

18. Ullah, Toheed, et al. "Adsorption of remazol brilliant violet-5R from aqueous solution using sugarcane bagasse as biosorbent: Kinetic and thermodynamic studies." *Water* 14.19 (2022): 3014.
19. Mensah, Kenneth, et al. "Dye removal using novel adsorbents synthesized from plastic waste and eggshell: mechanism, isotherms, kinetics, thermodynamics, regeneration, and water matrices." *Biomass Conversion and Biorefinery* (2022): 1-16.
20. Tonk, Szende, et al. "Effectiveness and characterization of novel mineral clay in Cd²⁺ adsorption process: linear and non-linear isotherm regression analysis." *Water* 14.3 (2022): 279.
21. Rápó, Eszter, et al. "Performance comparison of Eichhornia crassipes and Salvinia natans on azo-dye (Eriochrome Black T) phytoremediation." *Crystals* 10.7 (2020): 565.
22. Çiftçi, Esengül, et al. "Synthesis, characterization and dye adsorption property of a 2D nickel (ii)-coordination polymer constructed from tetracarboxylic acid and 1, 3-bis (imidazol-1-yl-methyl) benzene." *CrystEngComm* 24.42 (2022): 7440-7446.
23. Khasri, Azduwin, et al. "Adsorption of remazol brilliant violet 5R dye from aqueous solution onto melunak and rubberwood sawdust based activated carbon: interaction mechanism, isotherm, kinetic and thermodynamic properties." *DWT* 216 (2021): 401-411.
24. Hakim, Yusuf Mathiinul, Risfidian Mohadi, and Idha Royani. "Ammonium-Assisted Intercalation of Java Bentonite as Effective of Cationic Dye Removal." *Journal of Ecological Engineering* 24.2 (2023).
25. Kınaytürk, Neslihan Kaya, Belgin Tunalı, and Deniz Türköz Altuğ. "Eggshell as a biomaterial can have a sorption capability on its surface: A spectroscopic research." *Royal Society open science* 8.6 (2021): 210100.
26. Jagodić, I. D., et al. "Removal of methylene blue using tungsten (VI)-oxide immobilized on commercial PVC in the presence of simulated solar radiation." *International Journal of Environmental Science and Technology* 20.8 (2023): 8303-8318.
27. Kumari, R., et al. "Dye sequestration from aqueous phase using natural and synthetic adsorbents in batch mode: present status and future perspectives." *International Journal of Environmental Science and Technology* (2023): 1-20.
28. Pekdemir, Mustafa Ersin, Mehtap Tanyol, and Gülben Torğut. "Preparation of ε-Caprolactone/Fe₃O₄ Magnetic Nanocomposite and Its Application to the Remazol Brilliant Violet 5R Dye Adsorption from Wastewaters by Using RSM." *Journal of Polymers and the Environment* 30.10 (2022): 4225-4237.
29. Ayuba, Abdullahi Muhammad, and Bridget Idoko. "Cowpea husk adsorbent for the removal of crystal violet dye from aqueous solution." *Arabian Journal of Chemical*
30. Kumari, Sheetal, et al. "Introducing machine learning model to response surface methodology for biosorption of methylene blue dye using Triticum aestivum biomass." *Scientific Reports* 13.1 (2023): 8574.
31. Oueslati, Kods, et al. "Modeling the removal of Reactive Red 120 dye from aqueous effluents by activated carbon." *Water Science and Technology* 82.4 (2020): 651-662.
32. Awokoya, Kehinde Nurudeen, et al. "Experimental and computational

- studies of microwave-assisted watermelon rind–styrene based molecular imprinted polymer for the removal of malachite green from aqueous solution." *Scientific African* 16 (2022): e01194.
33. Souza, Ane Gabriele Vaz, et al. "Enzymatic bioremediation of dyes from textile industry effluents." *The Toxicity of Environmental Pollutants*. IntechOpen, 2022.
 34. Mohammad, Somaia G., Sahar M. Ahmed, and Mayyada MH El-Sayed. "Removal of copper (II) ions by eco-friendly raw eggshells and nano-sized eggshells: a comparative study." *Chemical Engineering Communications* 209.1 (2022): 83-95.
 35. Vonnie, Joseph Merillyn, et al. "Development and Characterization of Biosorbent Film from Eggshell/Orange Waste Enriched with Banana Starch." *Polymers* 15.11 (2023): 2414.
 36. El Hayaoui, Widad, et al. "In situ preparation of eggshell@ Ag nanocomposite electrode for highly sensitive detection of antibiotic drug ornidazole in water sample." *Nanotechnology for Environmental Engineering* 7.3 (2022): 635-646.
 37. Çiftçi, Esengül, et al. "Synthesis, characterization and dye adsorption properties of a 3-fold interpenetrated cobalt (II)-metal organic framework based on (E)-5, 5'-(but-2-ene-1, 4-diylbis (oxy)) diisophthalate and 1, 4-bis (imidazole-1-yl) butane ligands." *Journal of Solid State Chemistry* 311 (2022): 123111.
 38. Belli, Tiago José, et al. "Effects of solid retention time and exposure mode to electric current on Remazol Brilliant Violet removal in an electro-membrane bioreactor." *Environmental Science and Pollution Research* 30.20 (2023): 58412-58427.
 39. Castro, M. A. M., et al. "Improvement of dye degradation by photocatalysis and synergistic effect of sonophotocatalysis processes using CaMoO₄/g-C₃N₄ heterojunction." *Optik* (2024): 171682.
 40. Mondal, Prasenjit, Suparna Mukherji, and Anurag Garg. "Performance of treatment schemes comprising chromium-hydrogen peroxide-based advanced oxidation process for textile wastewater." *Environmental Science and Pollution Research* 29.58 (2022): 88089-88100.
 41. Meez, Elie, et al. "Synthetic oil-spills decontamination by using sawdust and activated carbon from Aloe vera as absorbents." *Biointerface Res Appl Chem* 11.4 (2021): 11778-11796.
 42. Awogbemi, Omojola, D. V. V. Kallon, and Victor Sunday Aigbodion. "Pathways for sustainable utilization of waste chicken eggshell." *Journal of Renewable Materials*, 10 (8) (2022): 2217-2246.
 43. Al Nasir, Hareer A., and Suhad S. Mohammed. "Experimental Investigation on Adsorption of Methyl orange Using eggshells as adsorbent Surface." *Ibn AL-Haitham Journal For Pure and Applied Sciences* 36.1 (2023): 197-207.
 44. Seker, S., and N. Karaaslan Ayhan. "Adsorption potential of neodymium/alginate beads for removal of Congo red and Brilliant blue G from aqueous solution." *International Journal of Environmental Science and Technology* (2023): 1-12.
 45. Bano, Abida, et al. "Enhanced Photocatalytic Activity and Charge Carrier Separation of a Nickel Impregnated Zinc Oxide Catalyst for the Visible Photodegradation of Remazol Brilliant Violet-5R and Methyl Orange."

	<p><i>Analytical Letters</i> 56.8 (2023): 1312-1324.</p> <p>46. Huang, Yunxiang, et al. "Tandem nanobody: A feasible way to improve the capacity of affinity chromatography." <i>Journal of Chromatography B</i> 1173 (2021): 122678.</p> <p>47. Khadama, Sana, Tariq Javeda, and Muhammad Idrees Jilanib. "Adsorptive exclusion of crystal violet dye from wastewater using eggshells: kinetic and thermodynamic study." <i>DESALINATION AND WATER TREATMENT</i> 268 (2022): 99-112.</p> <p>48. Adewale, Abiodun John, et al. "Removal of carbon monoxide from an ambient environment using chicken eggshell." <i>Next Materials</i> 2 (2024): 100100.</p> <p>49. Hakim, Yusuf Mathiinul, et al. "Bentonite Impregnation Ammonium-Assisted as Eco-Friendly Dye Adsorbent: Analyses of Kinetics and Thermodynamics in Cationic Dye Adsorption." <i>Key Engineering Materials</i> 963 (2023): 85-102.</p> <p>50. Bertrand, Zing Zing, et al. "Assessment of physicochemical parameters and trace metal elements from untreated and treated wastewater of an analysis laboratory, Yaounde-Cameroon." <i>International Journal of Environmental Analytical Chemistry</i> 104.1 (2024): 160-177.</p> <p>51. Libardi, Nelson, et al. "A Combination of Biosorption and Enzymatic Degradation of Azo Dyes." <i>Microbial Remediation of Azo Dyes with Prokaryotes</i>. CRC Press, 2022. 259-277.</p> <p>52. Jegede, Mobolaji M., Olatunde S. Durowoju, and Joshua N. Edokpayi. "Sequestration of hazardous dyes from aqueous solution using raw and modified agricultural waste." <i>Adsorption Science & Technology</i> 2021 (2021): 1-21.</p>
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CS I dr. ing. Szép Robert Eugen