



## CURRICULUM VITAE

Name and surname: **Jerzy WEBER**

### Personal data:

Date and place of birth: December 1, 1947; Wroclaw, Poland

Nationality: Polish

Citizenship: Polish

Sex: male

Marital status: married, 3 children, 8 grandchildren.

### Affiliation:

Wroclaw University of Environmental and Life Sciences,  
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### Education and scientific carrier

MSc - Geology, University of Wroclaw, 1972

PhD - Soil Science, Agricultural University of Wroclaw, 1978

DSc (Habilitation) - Soil Science, Agricultural University of Wroclaw, 1995

Professor of Soil Science – the President of the Republic of Poland, 2002.

### Research

Author of about 250 publications (23 in JCR journals) dealing with soil science and environmental sciences on: soil organic matter transformation and characteristic, composting of municipal solid waste and ecological aspects of their utilization, heavy metal pollution of the soil environment, weathering processes and clay minerals.

Summarized IF=51.474; h-index= 10

Number of citations (ISI Web of Knowledge, core collection): 398

### Project management

1999 – 2001, Leader of the project 6 P04G 093 16: Ecological aspects of utilization of municipal stable waste compost in crop production.

2000 – 2001, Leader of the project 5 PO6B 046 18: The content and forms of heavy metals in soils of the Karkonosze Mts. in the area of the ecological disaster.

2005 – 2008, Leader of the project 2 P06 504 529: Organic and mineral colloids in the weathering of acid, neutral and base igneous rocks and their role in the forming of the soil environment properties

2010 – 2013, Leader of the project N N305 362639: The assessment of the status of organic matter and properties of anthropogenic soils on reclaimed geomechanically degraded areas.

2010 – 2014, Leader of the project N N305 395638: The assessment of the status of organic matter and properties of anthropogenic soils on reclaimed geomechanically degraded areas.

2019 – 2021, Leader of the consortium for the project NCN 2018/31/B/ST10/00677: Spectroscopic and chemical properties of the humin soil fraction in relations to their mutual interaction with pesticides.

2022 – 2025, Leader of the consortium for the EJP SOIL project SOMPACS: Soil management effects on soil organic matter properties and carbon sequestration

### Professional bodies

- European Union of Geosciences (EUG): Vice President (2002-2003);
- European Geosciences Union (EGU): founding member of the EGU in 2002: EGU Soil Systems Sciences Division (SSS); President (2003-2005, 2005-2007),
- International Society for Environmental Biogeochemistry (ISEB): Vice Chair (2003-2013); President (2015-2017); International Committee member (od 1991),
- International Humic Substances Society (IHSS): Vice Chair (2006-2008), President (2008-2010), Past President (2010-2012),
- European Geosciences Union (EGU): Chair of the Phillippe Douchaufour Medal Committee (2008-2012, 2016-2018)
- Academy of Veterinary Sciences of Catalonia: Barcelona, Spain (ACVC): Corresponding member (od 2019),
- Polish Humic Substances Society (PTSH): Treasurer (1996-2003), Vice President (2003 – 2007), President (2011-2015),
- Polish Academy of Science (PAN): Committee of Soil Science and Agrochemistry, Vice chair (1999 – 2015) Committee of Agrophysics, member (2012 – 2015)
- Soil Science Society of Poland (PTG): Council member (1996-2015),
- Institute of Agrophysics, Polish Academy of Sciences, Lublin: Member of the Scientific Committee (2015-2018).

### Abroad fellowships and visits

1974: UK, Scotland, Dept of Soil Science, University of Aberdeen, the course "The preparation and interpretation of thin sections of soils" (1 month fellowship of British Council)

1990: France, INA Paris-Grignon, Laboratory of Soil Science and Hydrology (6 months fellowship of French Government)

1991: USA, short visits and lecturing at universities, all together 2 months: Rutgers University (New Jersey), California (Davis), Oregon (Corvallis), Utah (Logan), Iowa (Ames), Texas A & M University, Louisiana (Baton Rouge), Georgia (Athens), North Caroline (Raleigh),

1994: Spain, Universidad de Granada, Dep. of Soil Science and Agricultural Chemistry (2 months fellowship of Spanish Government)

1996-2011: short visits with lectures: University of Bari, (Italy), CSIC Madrid, (Spain), University of Granada (Spain), University of Ankara (Turkey), Emprapa Sao Carlos (Brazil), Zhejiang University, Hangzhou (China), Hunan Agricultural University, Changsha (China), University of Almeria (Spain), Agricultural University of Wuhan (China).

### Selected latest papers

- Bekier J., Drozd J., Jamroz E., Jarosz B., Kocowicz A., Walenczak K., Weber J. (2014). Changes in selected hydrophobic components during composting of municipal solid wastes. *Journal of Soils and Sediments*, 14, 2, 305-311.
- Weber J., Kocowicz A., Bekier J., Jamroz E., Tyszka R., Debicka M., Parylak D, Kordas K. (2014). The effect of a sandy soil amendment with municipal solid waste (MSW) compost on nitrogen uptake efficiency by plants. *European Journal of Agronomy*, 54, 54-60.
- Bińczycki T., Tyszka R., Weber J. (2014). Heavy Isotope Analyses in Soil Sciences: Possibilities and Challenges. *Polish Journal of Environmental Studies*, vol. 23, No 2, 303-307.
- Jamroz E., Kocowicz A., Bekier J., Weber J. (2014). The influence of mountain dwarf pine (*Pinus mugo Turra.*) and Norway spruce (*Picea abies* (L.) Karst.) dieback on soil organic matter in Podzols in the East Sudety Mountains, Poland. *Forest Ecology and Management*, 330, 261-270.

- Weber J., Strączyńska S., Kocowicz A., Gilewska M. Bogacz A., Debicka M. (2015). Properties of soil materials derived from fly ash 11 years after revegetation of post-mining excavation. *Catena*, 133, 250-254.
- Żolnierz L., Weber J., Gilewska M., Strączyńska S., Pruchniewicz D. (2016). The spontaneous development of understory vegetation on reclaimed and afforested fly ash landfill. *Catena*. 136, 84-90.
- Dębicka M., Kocowicz A., Weber J., Jamroz E. (2016). Organic matter effects on phosphorus sorption in sandy soils. *Archives of Agronomy and Soil Science*, 62, 6, 840-855.
- Weber J., Strączyńska S., Kocowicz A., Gilewska M. Bogacz A., Debicka M. (2017). Reprint of "Properties of soil materials derived from fly ash 11 years after revegetation of post-mining excavation". *Catena*, 148, 35-39.
- Frąc M., Weber J., Gryta A., Dębicka M., Kocowicz A., Jamroz E., Oszust K., Żolnierz L. (2017). Microbial functional diversity in Podzol ectohumus horizons affected by alkaline fly-ash in the vicinity of electric power plant. *Geomicrobiology Journal*, 34, 7, 579-586.
- Weber, J., Kocowicz A., Dębicka M., Jamroz E. (2017). Changes in soil morphology of Podzols affected by alkaline fly-ash blown out from dumping site of electric power plant. *Journal of Soils and Sediments*. 17, 1852-1861.
- Weber J., Dradrach A., Karczewska A., Kocowicz A. (2018). The distribution of sequentially extracted Cu, Pb and Zn fractions in Podzol profiles under a dwarf pine at different stages of degradation in subalpine zone of Karkonosze Mts (central Europe). *Journal of Soils and Sediments*. 18, 2387–2398.
- Bielińska E.J., Futa B., Ukalska-Jaruga A., Weber J., Chmielewski S., Wesółowska S., Mocek-Płóćiniak A., Patkowski K., Mielnik L. (2018). Mutual relations between PAHs derived from atmospheric deposition, enzymatic activity, and humic substances in soils of differently urbanized areas. *Journal of Soils and Sediments*, 18, 2682-2691.
- Weber J., Chen Y., Jamroz E., Miano T. (2018). Preface: Humic substances in the environment. *Journal of Soils and Sediments*, 18, 2665-2667.
- Asensio C., Weber J., Lozano F.J., Mielnik L. (2019). Laser-scanner used in a wind tunnel to quantify soil erosion. *International Agrophysics*, 33, 227-232.
- Olk D.C., Bloom P.R., De Nobili M. , Chen Y., McKnight D.M, Wells M.J.M., Weber J. (2019). Using Humic Fractions to Understand Natural Organic Matter Processes in Soil and Water: Selected Studies and Applications. *Journal of Environmental Quality*, 48, 1633-1643.
- Bińczycki T., Weber J., Mielnik L., Asensio C. (2020). Lead isotope ratios in Podzol profiles as a tracer of pollution source in the subalpine zone of the Karkonosze National Park, Sudety Mts (south-western Poland). *Catena*, Volume 189, June 2020, 104476, <https://doi.org/10.1016/j.catena.2020.104476>
- Mielnik L., Weber J., Podlasiński M., Kocowicz A. (2021). Fluorescence properties of humic substances transformed in ectohumus horizons of Podzols affected by alkaline fly-ash. *Land Degradation and Development*, <https://doi.org/10.1002/ldr.3926>
- Mielnik L., Hewelke E., Weber J., Oktaba L., Jonczak J., Podlasiński M. (2021). Changes in soil hydrophobicity and structure of humic substances in sandy soil abandoned from cultivation. *Agriculture, Ecosystems & Environment*, 319, 107554, <https://doi.org/10.1016/j.agee.2021.107554>
- Weber J., Jamroz E., Kocowicz A., Dębicka M., Bekier J., Cwiela-Piasecka I., Ukalska-Jaruga A., Mielnik L., Bejger R., Jerzykiewicz M. (2022). Optimized isolation method of humin fraction from mineral soil material. *Environmental Geochemistry and Health*, 1-10 <https://doi.org/10.1007/s10653-021-01037-3>

### **Editorial activity**

- Science of Soils - Advisory Board member (1996 – 1999)
- eEarth - Associate Editor (2005-2009)
- E3 Journal of Environmental Research and Management - Editor (2010-2012)
- Pedosphere - member of the Editorial Committee (from 2010)
- Journal of Geochemical Exploration - Associate Editor (from 2012)
- SOIL - Topical Editor (from 2014)
- EC Agriculture – member of the Editorial Board (from 2019)
- Geochemistry: Exploration, Environment, Analysis - Associate Editor (from 2017)
- Elsevier Science Ltd - Guest Editor of the Special Issues of the following journals: Chemosphere (2003), Geoderma (2004) and Organic Geochemistry (2003).
- Springer – Guest Editor of the Special Issue of Journal of Soils and Sediments (2018)
- Soil Science Annual (Roczniki Gleboznawcze): Editorial Board member (1999-2011)

### **Reviewer of papers published in the following JRC journals**

Agriculture, Ecosystems and Environment; Applied Geochemistry; Archives of Agronomy and Soil Science; Archives of Environmental Protection; Biology and Fertility of Soils; Catena; Chemosphere; Clays and Clay Minerals; CLEAN - Soil, Air, Water; Compost Science & Utilization; Desalination and Water Treatment; Environmental and Experimental Botany; Environmental Engineering and Management Journal; Environmental Engineering Science; Environmental Pollution; Environmental Science & Technology; European Journal of Soil Biology; Fresenius Environmental Bulletin; Fuels; Geoderma; Geomicrobiology Journal; Human and Ecological Risk Assessment; Hydrological Processes; International Agrophysics; International Journal of Environmental Analytical Chemistry; International Journal of Environmental Science and Technology; International Journal of Phytoremediation; Journal of Agricultural and Food Chemistry; Journal of Environmental Engineering and Science; Journal of Environmental Quality; Journal of Geochemical Exploration; Journal of Hazardous Materials; Journal of Soils and Sediments; Journal of the Air & Waste Management Association; Journal of the Brazilian Chemical Society; Journal of Trace Elements in Medicine and Biology; Land Degradation & Development; Pedosphere; Physics and Chemistry of the Earth; PLOS ONE; Science of the Total Environment; Scientia Horticulture; Scientific World Journal; Soil Biology & Biochemistry; Soil Research; Soil Science Society of America Journal; Water Science and Technology – Water Supply; Water Science and Technology; Water, Air & Soil Pollution.