

CURRICULUM VITAE

PERSONAL INFORMATION	
SURNAME	GASPARATOS
NAME	DIONISIOS
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CURRENT POSITION(S)

11/9/2023 - today	Full Professor Department of Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, Greece
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PREVIOUS POSITION(S)

Please add previous research position(s)/experience starting with the most recent.

5/9/2019 - 10/9/2023	Associate Professor Department of Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, Greece
12/6/2016 - 4/9/2019	Assistant Professor School of Agriculture, Aristotle University of Thessaloniki

EDUCATION

Please add separate sections for each degree starting with the most recent.

25/10/2011 - 21/4/2015	Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens, Greece, Mineralogy and Chemical Composition of Fe-Mn Concretions And Nodules in Alfisols of Thessaly, MSc Degree
9/1997 - 7/2007	Department of Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, Greece, Genesis of Fe – Mn Concretions and Nodules in Alfisols of Thessaly, PhD Degree
16/9/1991 – 25/2/1997	Department of Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, Greece, Heavy metals distribution in soils from Eleonas area, Athens Greece, BSc Degree

PUBLICATIONS

- Biliás, Fotis, Sewu, Divine Damertey, Woo, Seung Han, Anastopoulos, Ioannis, Verheijen, Frank, Lehmann, Johannes, Teixeira, Wenceslau Geraldes, Gasparatos, Dionisios, Draper, Kathleen and Kalderis, Dimitrios. "Glossary of terms used in biochar research (IUPAC Technical Report)" Pure and Applied Chemistry, 2024. <https://doi.org/10.1515/pac-2021-0106>

- Map-based soil crusting susceptibility assessment using pedotransfer Rules, CORINE and NDVI: A preliminary study in Greece, M. Karamesouti, O. Kairis, D. Gasparatos, T. Lakes, Ecological Indicators, 154, 110668, 2023, <https://doi.org/10.1016/j.ecolind.2023.110668>

- Impaired Soil Health in Agricultural Areas Close to Fe-Ni Mines on Euboea Island, Greece, Caused by Increased Concentrations of Potentially Toxic Elements, and the Associated Impacts on Human Health, I. Massas, O. Kairis, D. Gasparatos, D. Ioannou, D. Vatougiou, I. Zafeiriou, Environments, 10 (9), 150, 2023, <https://doi.org/10.3390/environments10090150>

- Effect of Soil Mixtures Based on a Gneiss-Derived Soil and Two Forest Floor Types on Growth and Nutritional Status of *Castanea sativa* Mill. Seedlings, E. Papaioannou, D. Gasparatos, S. Stefanou, T. Chatzistathis, K. Karamanoli, E. Matziris, Journal of Soil Science and Plant Nutrition 23 (1), 1339-1350, 2023 <https://doi.org/10.1007/s42729-023-01124-7>

- Se (IV)/Se (VI) adsorption mechanisms on natural and on Ca-modified zeolite for Mediterranean soils amended with the modified zeolite: prospects for agronomic applications, I. Zafeiriou, D. Gasparatos, D. Ioannou, M. Katsikini, F. Pinakidou, E.C. Paloura, I. Massas, Environmental Science and Pollution Research 30 (14), 41983-41998, 2023 <https://doi.org/10.1007/s11356-022-24979-2>

- Calcium- and Magnesium-Enriched Organic Fertilizer and Plant Growth-Promoting Rhizobacteria Affect Soil Nutrient Availability, Plant Nutrient Uptake, and Secondary Metabolite Production in *Aloe vera* (*Aloe barbadensis* Miller) Grown under Field Conditions, C.N. Nikolaou, A. Chatziartemiou, M. Tsiknia, A.G. Karyda, C. Ehaliotis, D. Gasparatos, Agronomy 13 (2), 482, 2023, <https://doi.org/10.3390/agronomy13020482>

- Effects of Biochars Derived from Sewage Sludge and Olive Tree Prunings on Cu Fractionation and Mobility in Vineyard Soils over Time, I. Zafeiriou, K. Karadendrou, D. Ioannou, M.A. Karadendrou, A. Detsi, D. Kalderis, I. Massas, D. Gasparatos, Land 12 (2), 416, 2023, <https://doi.org/10.3390/land12020416>

- Biochar application as a soil potassium management strategy: A review, F. Biliás, D. Kalderis, C. Richardson, N. Barbayiannis, D. Gasparatos, Science of The Total Environment 858, 159782, 2023, <https://doi.org/10.1016/j.scitotenv.2022.159782>

- Assessment of Potentially Toxic Element Contamination in the Philippi Peatland, Eastern Macedonia, Greece, I. Zafeiriou, D. Gasparatos, I. Megremi, D. Ioannou, I. Massas, M. Economou-Eliopoulos, Minerals 12 (11), 1475, 2022 <https://doi.org/10.3390/min12111475>

- Selenium Uptake by Lettuce Plants and Se Distribution in Soil Chemical Phases Affected by the Application Rate and the Presence of a Seaweed Extract-Based Biostimulant, I. Zafeiriou, D. Gasparatos, D. Ioannou, I. Massas, Soil Systems 6 (2), 56, 2022, <https://doi.org/10.3390/soilsystems6020056>

- Soil Contamination by Heavy Metals and Metalloids, D. Gasparatos, Environments 9 (3), 32, 2022, <https://doi.org/10.3390/environments9030032>

- Selenium uptake by rocket plants (*Eruca sativa*) grown in a calcareous soil as affected by Se species, Se rate and a seaweed extract-based biostimulant application. I. Zafeiriou, D. Gasparatos, D. Ioannou, I. Massas, Crop & Pasture Science, 73(8), 850-861, 2022, <https://doi.org/10.1071/CP21529>

- Detailed Soil Survey Field and Laboratory Data as a Critical Tool for Optimizing the Arable Cropping Capability Evaluation of a Representative Episaturated Soil Pedon in Greece, D. Gasparatos, O. Kairis, Land 11 (2), 182, 2022, <https://doi.org/10.3390/land11020182>

- Towards a soil remediation strategy using biochar: Effects on soil chemical properties and bioavailability of potentially toxic elements, F. Biliias, T. Nikoli, D. Kalderis, D. Gasparatos, *Toxics* 9 (8), 184, 2021, <https://doi.org/10.3390/toxics9080184>
- Critical and Battery Raw Materials in Eu: The Case of Ni-Laterites In Central Greece, K.Goutzioupa, A. Godelitsas, P. Tsakiridis, M. Petrelli, Y. Sanakis, M. Samouhos, D. Gasparatos, A. Papadopoulos, S. Maras, A. Apostolikas, 3rd European Mineralogical Conference, 29th August – 2nd September 2021 Poland
- A comparative analysis of a detailed and semi-detailed soil mapping for sustainable land management using conventional and currently applied methodologies in Greece, O. Kairis, V. Dimitriou, C. Aratzioglou, D. Gasparatos, N. Yassoglou, C. Kosmas, N. Moustakas, *Land* 9 (5), 154, 2020, <https://doi.org/10.3390/land9050154>
- Single and combined effect of chelating, reductive agents, and agro-industrial by-product treatments on As, Pb, and Zn mobility in a mine-affected soil over time, G. Kalyvas, D. Gasparatos, C.A. Liza, I. Massas, *Environmental Science and Pollution Research* 27, 5536-5546, 2020, <https://doi.org/10.1007/s11356-019-07230-3>
- Spatial distribution of nutrients and morpho-physiological indicators of salinity tolerance among five olive cultivars - The use of relative nutrient concentration as an efficient tolerance index, P.A. Roussos, A. Dimou, A. Assimakopoulou, D. Gasparatos, G. Kostelenos, P. Bouchaghier, I. Argyrokastritis, *Journal of Plant Nutrition* 42 (18), 2269-2286, 2019, <https://doi.org/10.1080/01904167.2019.1656245>
- Fe-Mn concretions and nodules formation in redoximorphic soils and their role on soil phosphorus dynamics: Current knowledge and gaps, D. Gasparatos, I. Massas, A. Godelitsas, *Catena* 182, 104106, 2019, <https://doi.org/10.1016/j.catena.2019.104106>
- The effect of granular commercial fertilizers containing elemental sulfur on wheat yield under mediterranean conditions, D.L. Bouranis, D. Gasparatos, B. Zechmann, L.D. Bouranis, S.N. Chorianopoulou, *Plants* 8 (1), 2, 2019, <https://doi.org/10.3390/plants8010002>
- Chromium uptake by lettuce as affected by the application of organic matter and Cr (VI)-irrigation water: Implications to the land use and water management, S. Raptis, D. Gasparatos, M. Economou-Eliopoulos, A. Petridis, *Chemosphere* 210, 597-606, 2018, <https://doi.org/10.1016/j.chemosphere.2018.07.046>
- A critical assessment on arsenic partitioning in mine-affected soils by using two sequential extraction protocols, G. Kalyvas, D. Gasparatos, I. Massas, *Archives of Agronomy and Soil Science* 64 (11), 1549-1563, 2018, <https://doi.org/10.1080/03650340.2018.1443443>
- The Origin of Nickel in Soils, D. Gasparatos and N. Barbayiannis, In *Nickel in Soils and Plants*; CRC Press: Boca Raton, FL, USA, 2018, <https://doi.org/10.1201/9781315154664>
- Predicting bulk density using pedotransfer functions for soils in the Upper Anthemountas basin, Greece, S. Sevastas, D. Gasparatos, D. Botsis, I. Siarkos, K.I. Diamantaras, G. Bilas, *Geoderma Regional* 14, e00169, 2018, <https://doi.org/10.1016/j.GEODRS.2018.e00169>
- Topsoil pollution as ecological footprint of historical mining activities in Greece, G. Kalyvas, D. Gasparatos, N. Papassiopi, I. Massas, *Land Degradation & Development* 29 (6), 2025-2035, <https://doi.org/10.1002/ldr.2963>
- Signs for secondary buildup of heavy metals in soils at the periphery of Athens International Airport, Greece, I. Massas, D. Gasparatos, D. Ioannou, D. Kalivas, *Environmental Science and Pollution Research* 25, 658-671, 2018, <https://doi.org/10.1007/s11356-017-0455-7>
- From which soil metal fractions Fe, Mn, Zn and Cu are taken up by olive trees (*Olea europaea* L., cv. 'Chondrolia Chalkidikis') in organic groves? T. Chatzistathis, A. Papaioannou, D. Gasparatos, A. Molassiotis, *Journal of environmental management* 203, 489-499, 2017, <https://doi.org/10.1016/j.jenvman.2017.07.079>

- Impact of organic fertilization on soil properties, plant physiology and yield in two newly planted olive (*Olea europaea* L.) cultivars under Mediterranean conditions, P.A. Roussos, D. Gasparatos, K. Kechrologou, P. Katsenos, P. Bouchagier, *Scientia horticultrae* 220, 11-19, 2017, <https://doi.org/10.1016/j.scienta.2017.03.019>
- Fractionation of heavy metals and evaluation of the environmental risk for the alkaline soils of the Thriassio plain: a residential, agricultural, and industrial area in Greece, D. Gasparatos, G. Mavromati, P. Kotsovilis, I. Massas, *Environmental Earth Sciences* 74, 1099-1108, 2015, <https://doi.org/10.1007/s12665-015-4096-1>
- Total and available heavy metal concentrations in soils of the Thriassio plain (Greece) and assessment of soil pollution indexes, I. Massas, D. Kalivas, C. Ehaliotis, D. Gasparatos, *Environmental monitoring and assessment* 185, 6751-6766, 2013, <https://doi.org/10.1007/s10661-013-3062-1>
- Sequestration of heavy metals from soil with Fe–Mn concretions and nodules, D. Gasparatos, *Environmental Chemistry Letters* 11, 1-9, 2013, <https://doi.org/10.1007/s10311-012-0386-y>
- Effect of nitrogen and boron fertilization on Lettuce (*Lactuca sativa* L.) mineral nutrition in a calcareous soil, A. Petridis., D. Gasparatos, C. Haidouti, Ch. Paschalidis, P. Zamanidis, *Communications in Soil Science and Plant Analysis* 44, 733 – 740, 2013, <https://doi.org/10.1080/00103624.2013.748125>
- Sorption behavior of cesium in two Greek soils: effects of Cs initial concentration, clay mineralogy, and particle-size fraction, F. Giannakopoulou, D. Gasparatos, C. Haidouti, I. Massas, *Soil and Sediment Contamination: An International Journal* 21 (8), 937-950, 2012, <https://doi.org/10.1080/15320383.2012.714418>
- Comparative effects of organic and conventional apple orchard management on soil chemical properties and plant mineral content under Mediterranean climate conditions, D. Gasparatos, P.A. Roussos, E. Christofilopoulou, C. Haidouti, *Journal of soil science and plant nutrition* 11 (4), 105-117, 2011, <http://dx.doi.org/10.4067/S0718-95162011000400008>
- Iron oxides in four Red Mediterranean soils on metarhyolite and metadolerite in Kilkis, Greece, P. Tsaousidou, E. Gartzos, A. Tsagalides, C. Haidouti, D. Gasparatos, *Archives of Agronomy and Soil Science* 54 (2), 227-235, 2008, <https://doi.org/10.1080/03650340701808922>
- Sorption behavior of cesium on various soils under different pH levels, F. Giannakopoulou, C. Haidouti, A. Chronopoulou, D. Gasparatos, *Journal of Hazardous Materials* 149 (3), 553-556, 2007, <https://doi.org/10.1016/j.jhazmat.2007.06.109>
- Microscopic structure of soil Fe-Mn nodules: environmental implication, D. Gasparatos, D. Tarenidis, C. Haidouti, G. Oikonomou, *Environmental Chemistry Letters* 2 (4), 175-178, 2005, <https://doi.org/10.1007/s10311-004-0092-5>
- Characterization of iron oxides in Fe-rich concretions from an imperfectly-drained Greek soil: a study by selective-dissolution techniques and X-ray diffraction, D. Gasparatos, C. Haidouti, D. Tarenidis, *Archives of Agronomy and Soil Science* 50 (4-5), 485-493, 2004, <https://doi.org/10.1080/0365034042000216149>
- A comparison of wet oxidation methods for determination of total phosphorus in soils. D. Gasparatos and C. Haidouti, *Journal of Plant Nutrition and Soil Science*, 164, 435-439, [https://doi.org/10.1002/1522-2624\(200108\)164:4<435::AID-JPLN435>3.0.CO;2-5](https://doi.org/10.1002/1522-2624(200108)164:4<435::AID-JPLN435>3.0.CO;2-5)

CONFERENCES/WORKSHOPS/etc

National, international scientific conferences, workshops, summer schools, educational seminars, etc. in chronological order, starting with the most recent.

▪ 16th Panhellenic Soil Congress, 4-6 December 2023, Athens, Greece
▪ 10 th International Conference Mikrobiokosmos, 30 November – 2 December 2023, Larissa, Greece,
▪ EGU General Assembly 2023, 23–28 April 2023, Vienna, Austria & Online
▪ Perspectives for reducing “legacy phosphorus” in agricultural soils webinar, European Sustainable Phosphorus Platform, February 2022
▪ XII International Agriculture Symposium "AGROSYM2021, 7-10 October 2021, Bosnia and Herzegovina
▪ 9 th Conference of “Mikrobiocosmos, 16 - 18 December 2021, Athens, Greece
▪ 3 rd European Mineralogical Conference, 29 August – 2 September 2021, Cracow, Poland
▪ 12 th Panhellenic Congress of Hellenic Society of Agricultural Engineers, 21 – 22 October 2021, Thessaloniki, Greece
▪ 28th International Symposium of the International Scientific Center for Fertilizers (CIEC), 3 – 4 November 2020, Athens, Greece
▪ International Conference Protection and Restoration of the Environment XV, 2020, Patras, Greece
▪ Conference Fertilizers and Sustainable Soil Management., Hellenic Fertilizers' Association (S.P.E.L), 3 February 2018, Thessaloniki, Greece
▪ 25 th International Symposium of the Scientific Centre for Fertilizers. September 5-8, 2017, Groningen, The Netherlands
▪ 14 th International Congress of Geological Society of Greece, Thessaloniki, May 2016.
▪ 12 th International Conference on Protection and Restoration of the Environment, Skiathos island, Greece, 29 June - 3 July, 2014
▪ European Geosciences Union General Assembly 2014 Vienna , Austria, 27 April – 02 May 2014
▪ 15th Panhellenic Soil Congress, Hellenic Soil Science Society, Greece, Patra. 26-28. November, 2014
▪ Protection and Restoration of the Environment XI, Thessaloniki, Greece, July 3 – 6 2012.
▪ International Conference for Olive Tree and Olive Products (OliveBioteq 2011) Chania, Crete, Greece, October 31st - November 4 th 2011.
▪ International Soil Science Congress on "Management of Natural Resources to Sustain Soil Health and Quality, May 26 – 28, 2010. Samsun, Turkey
▪ European Society for new Methods in Agricultural Research XXXIX, Annual Meeting, Brno - Czech Republic, 25-29 Aug. 2009
▪ Eurosoil 2008. 25- 29 August 2008, Vienna, Austria
▪ 10 th International Conference on Environmental Science and Technology, Cos Island, Greece, September 5-7, 2007

MEMBERSHIPS & REVIEWING ACTIVITIES *(if applicable)*

2023	Evaluator	Effect of biochar addition on metal availability for spinach, on soil characteristics and biomass of lettuce' MSc Thesis, Maich, Greece
2022	Evaluator	Effects of Grain Husks and Fruit Stones Biochar on Lettuce (<i>Lactuca sativa</i>) grown in three soils, MSc Thesis, Maich, Greece
2021	Evaluator	Mediterranean Geosciences Union Annual Meeting (MedGU-21)
2016	Evaluator	Complex micro-analytical study of iron and manganese oxide minerals distribution within ferromanganese nodules and their iron oxide-clay mineral associations. ID: 119814, National Research, Development, and Innovation Office (NKFIH), Hungary
2003 - today	Reviewer	Soil Science Society of America Journal, Environmental Science: Processes & Impacts, Science of Total Environment, Journal of Environmental Management, Soil Research, Environmental Pollution, Archives of Agronomy and Soil Science, PLOS ONE, Journal of Chemistry, PeerJ — the Journal of Life and Environmental Sciences, Waste Management, Catena, RSC Advances, Forests, International Journal of Environmental Research and Public Health, Physiology and Molecular Biology of Plants, Agronomy, Applied Sciences, Processes, Journal of Geochemical Exploration, Pedosphere, Environmental Science and Pollution Research, Earth Environmental Sciences, Soil Systems, Plants, Land, Environmental Geochemistry and Health, Acta Agriculturae Scandinavica, Section B — Soil & Plant Science, Journal of Soil Science and Plant Nutrition, Emirates Journal of Food and Agriculture, Journal of Integrative Agriculture, Environmental Processes, Springer Plus, Sustainability, Water, Frontiers in Plant Science, Agriculture, International Journal of Environmental Science and Technology, Agronomy for Sustainable Development, Water, Air and Soil Pollution, Remote Sensing, Nuclear Energy and Technology, Scientia Horticulturae, Horticulturae, Air, Soil and Water Research, Central European Journal of Geosciences, Arid Land Research and Management, Communications in soil science and plant analysis
Membership		European Society for New Methods in Agricultural Research (ESNA), The European Association of Chemistry and the Environment (ACE)

TEACHING ACTIVITIES *(if applicable)*

2014 - 2016	Lecturer- Soil Science, Soil Fertility, Soil Chemistry, Chemical Analysis of Soils, Irrigation Waters and Plant Tissues (MSc degree course), School of Agriculture, Aristotle University of Thessaloniki, Greece
2016 - 2019	Assistant Professor- Soil Science, Soil Fertility, Soil Chemistry, Applied Soil Science, Soil clay minerogy, Chemical Analysis of Soils, Irrigation Waters and Plant Tissues (MSc degree course), School of Agriculture, Aristotle University of Thessaloniki, Greece
2019 – September 2023	Associate Professor- Soil Science, Applied Soil Science, Soil Genesis and Classification, Problem Soils and their Management, Soil Mapping and Soil Survey, Land Degradation and Soil Restoration (MSc degree course), Crop Nutrition, Food Security and Human Health (MSc degree course), Soil evaluation (MSc degree course), Soil types - Soil functions - Soil protection (MSc degree course), Department of Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, Greece
October 2023 - today	Full Professor- Soil Science, Applied Soil Science, Soil Genesis and Classification, Problem Soils and their Management, Land Degradation and Soil Restoration (MSc degree course), Crop Nutrition, Food Security and Human Health (MSc degree course), Soil evaluation (MSc degree course), Soil types - Soil functions - Soil protection (MSc degree course), Department of Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, Greece

SUPERVISION OF GRADUATE STUDENTS & POSTDOCTORAL FELLOWS *(if applicable)*

2016 - 2019	Two Master Students, Aristotle University of Thessaloniki, Greece
2020 - today	Five Master Students, One PhD Candidate, Agricultural University of Athens, Greece

FELLOWSHIPS and AWARDS *(if applicable)*

1997 - 2001	State Scholarships Foundation (IKY), Greece
2004	Grant from European Society for new Methods in Agricultural Research, for participation in the XXXI Annual Meeting in the Maich, Hania, Greece, September 8-12

RESEARCH GRANTS *(if applicable)*

Please add indicative research projects (international or national) in which you have participated (in any role).

Project Title	Funding source	Period	Role of the PI
Quality evaluation of soils of Kilkis: Productive development and environmental protection.	Regional Unit of Kilkis	1999	Soil survey and mapping
Study of the excavated clay material of the Psitalia work as subsoil appropriate from planting	Themeliodomi S.A	2000	Soil survey

Restoration and upgrading of landfill cover soils with the selection of the appropriate vegetation and planting material	Ministry for the Environment, Physical Planning and Public Works	1999 - 2002	Soil survey
"Dynamics of soil phosphorus in natural and agricultural ecosystems: Effect on the environment"	General Secretariat for Research and Technology	2006-2009	Determination of soil phosphorus forms the main soil orders of Greece
Assessment of nutrients, heavy metals and hydrodynamic soil properties for the wise use of water and fertilizers and the growth of safe products in the Region of Eastern Macedonia and Thrace	Region of Eastern Macedonia and Thrace	2007-2010	Soil analyses and characterization
Distribution, fractionation and bioavailability of antimony in greek soils. A first approach	A.U.TH Research Committee	2014 - 2015	Chemical analysis for determination of dynamics of antimony (potential toxic element) in soil environment
Assessment of the impact on the biodiversity of areas of High Natural Value of the Ionian Islands Region due to the invasion of non-native invasive weeds "Ailanthus altissima"	Region of Ionian Islands	2019 - 2021	Development of soil indicators
Soil - plant analysis and soil fertility recommendations for olive cultivation in the Kalavryta Municipality	Private Sector (AUA Research Committee)	2020 - 2023	Soil survey and analysis

GRANT APPLICATIONS OF RELATED PROJECTS *(if applicable)*

Please add other Research Proposals/Projects **related to the proposed research project** in which you are involved in any role.

Project Title	Funding source	Submission date	Role of the PI
EPURE	HORIZON-MISS-2022-SOIL-01	27/09/2022	Soil survey and soil contamination mapping
DESIRE	HORIZON-CL6-2023-ZEROPOLLUTION-01	28/03/2023	Soil health indicators and agricultural water pollution
REVERSO	HORIZON-MISS-2023-SOIL-01	20/09/2023	Integrated soil nutrient management, soil health indicators, saline soil restoration
Bio-NUTRISAFE	HORIZON-JU-CBE-2023	20/09/2023	Application and validation of bio-based fertilisers (BBFs) in greenhouse and open field conditions: Adapting the BBFs used to build healthy soils

1 SCIENTIFIC ACHIEVEMENTS

1. Up to ten (10) representative publications, from the last ten (10) years, as main author:

1. Petridis A., **D. Gasparatos**, C. Haidouti Ch. Paschalidis, P. Zamanidis 2013. Effect of nitrogen and boron fertilization on Lettuce (*Lactuca sativa* L.) mineral nutrition in a calcareous soil. *Communications in Soil Science and Plant Analysis* Vol 44, p. 733 - 740.
2. **Gasparatos D.**, G. Mavromati, P. Kotsovilis, I. Massas 2015. Fractionation of heavy metals and evaluation of the environmental risk for the alkaline soils of the Thriassio plain: a residential, agricultural, and industrial area in Greece. *Environmental Earth Sciences* Vol. 74, p. 1099-1108.
3. Karamesouti M and **D. Gasparatos**. 2017. Sustainable management of soil phosphorus in a changing world. In A Rakshit et al (eds). *Adaptive Soil Management – From Theory to Practice*. Springer-Verlag Springer Science+Business Media, pp 189-214.
4. Sevastas S, **Gasparatos D**, Botsis D, Siarkos I, Diamantaras KI and Bilas G. 2018. Predicting bulk density using pedotransfer functions for soils in the Upper Anthemountas basin, Greece. *Geoderma Regional* Vol 14, p. e00169.
5. **Gasparatos D.**, Massas I. Godelitsas, A. 2019. Fe-Mn concretions and nodules formation in redoximorphic soils and their role on soil phosphorus dynamics: Current knowledge and gaps. *Catena* Vol. 182, p. 104106.
6. Karapouloutidou S., **Gasparatos D**. 2019 Effects of Biostimulant and Organic Amendment on Soil Properties and Nutrient Status of *Lactuca Sativa* in a Calcareous Saline-Sodic Soil. *Agriculture* Vol. 9, p. 164.
7. Tsioubri, M., **Gasparatos, D.**, Economou-Eliopoulos, M. 2020. Selenium Uptake by Lettuce (*Lactuca sativa* L.) and Berseem (*Trifolium alexandrinum* L.) as affected by the application of Sodium Selenate, Soil Acidity and Organic Matter content. *Plants*, Vol. 9, 605.
8. Biliass, F., Nikoli, T., Kalderis, D, **Gasparatos, D**. 2021 Towards a soil remediation strategy using biochar: effects on soil chemical properties and bioavailability of potentially toxic elements. *Toxics* 9(8):184.
9. **Gasparatos, D.**; Kairis, O. 2022 Detailed Soil Survey Field and Laboratory Data as a Critical Tool for Optimizing the Arable Cropping Capability Evaluation of a Representative Episaturated Soil Pedon in Greece. *Land*, 11, 182.
10. Biliass F., Kalderis D., Richardson C., Barbayiannis, D., **Gasparatos D**. 2023. Biochar application as a soil potassium management strategy: A review, *Science of The Total Environment*, Volume 858, Part 1, 159782.

2. Research monographs:

Gasparatos D. 2013. Sequestration of heavy metals from soil with Fe-Mn concretions and nodules. *Environmental Chemistry Letters* Vol. 11, p. 1-9.
Gasparatos, D. 2022 *Soil Contamination by Heavy Metals and Metalloids*. *Environments*, 9, 32.

4. Invited presentations to international conferences and/or advanced schools:

Guest Editor

Environments - Special Issue: Soil Contamination by Heavy Metals and Metalloids
Applied Sciences – Special Issue: Soil Fertility and Plant Nutrition for Sustainable Agriculture
Frontiers in Environmental Science – Special Issue: Pollutants and Heat Treatment of Livestock Manure: Emission, Control, and Environmental Risk Assessment
Land Impact of Pollutants on Soil Health

5. Organization of international conferences:

28th International Symposium of CIEC: The International Scientific Centre for Fertilizers, November 3-4, 2020, Agricultural University of Athens, Greece

6. Prizes/Awards/Academy memberships:

Named in the top 2% of scientists according to the Stanford University list in 2023