

PERSONAL INFORMATION

PETROVA VERA ZAMFIROVA



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Sex female | Date of birth 17.10.1979 | Nationality Bulgarian

POSITION

Academic Position: Associate Professor at the Department of "Agriculture and Herbology" in the field of higher education 6. "Agricultural Sciences and Veterinary Medicine" professional field 6.1. " Plant breeding " scientific field "Melioration"

WORK EXPERIENCE

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| 02.11. 2016– to present | Associate Professor of Melioration,
University of Forestry, Faculty of Agronomy, Department of „Agriculture and Herbology”, Sofia – 1797, Bulgaria |
| 16. 02. 2015 - 02.11. 2016 | “Nikola Poushkarov” Institute of Soil Science, Agrotechnologies and Plant Protection, Prof. PhD Svetla Ruseva – Director,
Department of Soil Physics, Associate Professor |
| 28. 02. 2011 - 16. 02. 2015 | “Nikola Poushkarov” Institute of Soil Science, Agrotechnologies and Plant Protection, Prof. PhD Totka Mitova – Director,
Department of Soil Physics, Assistant Professor |
| 16. 02. 2009 - 07. 07. 2010 | “Nikola Poushkarov” Institute of Soil Science, Agrotechnologies and Plant Protection, Prof. PhD Metodi Teoxarov – Director,
Department of Soil Physics, Assistant |
| 16. 02. 2009 - 07. 07. 2010 | “Nikola Poushkarov” Institute of Soil Science, Agrotechnologies and Plant Protection, Prof. PhD Nikola Vichev – Director,
Department of Soil Physics, Senior Fellow |

EDUCATION AND TRAINING

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| 2006-2010 | “N. Poushkarov” Institute of Soil Science, Agrotechnologies and Plant Protection
PhD
Subject : “Evaluation of ameliorative effect on water and heat regime of soybean and wheat” |
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2003-2005 University of Forestry
M.Sc.
Plant Protection

1998 – 2003 University of Forestry
BSc
Agronomist

1993-1998 Technical school
Gained diploma

PERSONAL SKILLS

Mother tongue(s) Bulgarian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	C2	C2	C2	C2	C2
RUSSIAN	C2	C2	B2	B2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Excellent skills in working with people, debating and negotiating;
- Ability to work with methods to resolve conflict situations;
- Tolerance and respect for partners in teamwork;
- Knowledge and skills for working with people from different cultures and ethnicities;

Organisational / managerial skills

- Communicative skills and teamwork;
- Excellent skills in planning and implementing tasks in time;
- Flexibility, creativity and innovative approaches in project design;
- Experience in coordinating and managing projects.

Job-related skills

Research priorities

- Soil - physical properties. Indicators of the soil physical condition, soil drought; surface soil waterlogging;
- Measurement and evaluation of soil-plant-atmosphere parameters;
- Water balance of the soil.
- Physiological and physical indicators of water and heat plants stress;
- Loss of yield, water and nitrogen, due to poor irrigation.
- Irrigation with wastewater;
- Use of sludge and organic waste in agriculture and production of bio gas.

Applied research

- Carrying out experiments to determine the impact of organic substrates and materials that can be used as a soil improver;
- Conducting research in facilities with artificial climate for growing plants;
- Instrumental the timing of irrigation and others.
- Technology for determination of dry- and cold resistant crops;

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

Other skills

- Excellent ability to work with computer and office equipment;
- Work with modelling program "WINISAREG"

Driving licence

Driving licence category- B

ADDITIONAL INFORMATION

Publications

63 including 15 in Bulgarian language 46 in English, 2 manuals in Bulgarian and English

Projects

Participation in projects at the Agricultural Academy

1. **Project OZHT32** "Improvement of technologies for efficient and competitive production of planting material" to IVE led by Associate Professor Violeta K. Dimitrova. Task "Assessment of the risk of drought by means of instrumental control of the soil water regime" Director: Prof. Dr. Eng. Yordanka M. Kirkova.
2. **No POZM 104:** "Evaluation of environmental characteristics and develop management systems, environmental remediation solutions to local and diffuse soil pollution." Director: Prof. Dr. N. Dinev

3. **RD 104 / 8.05. 09.** "Evaluation of agro-ecological potential and develop a plan for sustainable production of important energy crops on new land." Director Assoc Prof. Dr. Totka Mitova.
4. **Project OZHT-53** "Evaluation of the state of soil and plant resources based on data from joint aerospace images and ground-based observations", led by Prof. Eng. Nicola B. Kolev.
5. **Project OZHT-69** "Technology for field production in modern trends in agriculture," Head: Assoc Prof. Ivan Dimitrov, Prof. T. Mitova
6. **Research Project 2009** "National Program to improve drought tolerance of important crops." Director: Prof. Dr. N. Tzenov;
Task "Research to assess the drought and cold resistance of the different crops and determine the abiotic stress tolerant genotypes for sustainable production". Head: Prof. Dr. Eng. Yordanka M. Kirkova.
7. **№ 133 POMZ** "Waste management to reduce greenhouse gas emissions and energy production from Renewable Energy". -1.01.2011-31.12.2013. Head: Prof. Dr. Svetla Marinova
8. **№ 129 POZM** "Technology for utilization of crop residues in agriculture" IPAZR "N. Poushkarov "2011 -2013. Director Assoc. Prof. Dr. Eng. Georgi Stoimenov;
9. **№ 158 POZM Order № RD 0857** "Evaluation of the major components of agro ecosystems in various levels of anthropogenic interference" - from 2012 to 2015. Head: Assoc. Prof. Ilko Dimitrov Genchev
10. **№ 176 POMZ Order № RD 08-39** "Innovative solutions and technologies for maintaining and enhancing soil fertility and protecting the environment through the use of organic fertilizers and waste in agricultural practices and production of renewable energy" – 2014 - 2016. Head: Prof. Dr. Svetla Marinova
11. **POZM 128- Agricultural Academy**
Type of the competition and year: **2016-2018**
Title: "Evaluations of hydro-pedological processes in watersheds "
Project coordinator: Assoc. Prof. Milena Kercheva
Status of the project: with intermediate report

Participation in international projects and contracts

12. **31.12.2011 – 30.06.2013 – ManProEnv** International Project title: „Development of a management system for environmental protection by enhancing the use value of animal dejections in the Teleorman - Veliko Tarnovo cross border area “MIS code 132- Romania-Bulgaria Cross-Border Cooperation Programme 2007-2013 - manager Prof. Svetla Marinova.
13. **2012** – Programme co-funded by the EU. Title: “**DMCSEE** - Drought Management Centre for South East Europe”. Led by Prof. Z. Popova
14. **An international project with Austria- 2017**
Project number or acronym: **DNTS / Austria 01/2 of 23.08.2017** with NF "NI"
Topic: "Distribution of nutrients in the soil in the intensive growing of vegetables with fustigation and optimization of the diet of crops to reduce the impact of fertilizers on the environment - OPTIMA"
Project manager: Assoc. Dr. Veselin Kutev
Status of the project: submitted report at stage

Project and Task Manager

15. An Out-of-Projects National Project funded by the Ministry of Education, **Youth and Science No. 1603 / 2006-2009** "Study to Establish a System of Events for Adaptation of Agricultural Technologies to Climate Change". Head Vera Tsenova
16. **Project of the Soy Institute in Pavlikeni with tasks:**
 - Task I: "Modeling the impact of water scarcity across the different phases of soybean production in order to optimize irrigation technologies in conditions of water deficit";
 - Task II: "Assessment of Soy Tolerance to Ground Air Water deficiency, extreme temperatures and wind in the phytocameter. "Head Vera Tsenova
17. **" University of Forestry " – NIS- 2017- 158 / 08.03.2017-2019**
Topic: "Exploration of the impact of bio-carbon on soil fertility and the development of agricultural crops"
Project coordinator: Assoc. Prof. Vera Petrova
Project Status: Initial Stage

Participation in projects funded by MES

18. **Project № HS-AN-204 / 2006** D. (Contract № 917/17.11.2006 on-D01) "Instrumental evaluation of water treatment plant and soil to minimize irrigation water", headed by Dr. A. Matev to IP Plovdiv.
19. **№ DFNI-E01/3 2012 –2014** Project funded by the Ministry of Education - State Fund for Scientific Research E01/3 from 27.11.2012 on the topic: "Ecology of agro-environmental systems and increase energy efficiency by applying a revised bio organic waste for fertilization, introduction of energy crops and complex use of biomass as energy source"- manager Prof. Svetla Marinova.
20. **№ DFNI-E01/6 2012 –2014** Project funded by the Ministry of Education Title:" Complex evaluation of the potential of agricultural and forest tree species to create energy crops in Bulgaria" - 2011- 2014.
21. **Project BG051PO001-3.3.06** "Programme to improve interdisciplinary training and qualification of young scientists in the field of soil science and ecology", funded under the Operational Programme "Development of Human Resources" and a scheme to provide grants BG051PO001- 03/03/06 "Support for the development of doctoral students, graduate students and young scientists." Head: Assoc. Prof. Venus Tsoleva
22. **"FINANCING OF SCIENTIFIC RESEARCH - 2017"**; N 16/41 MES; Topic: "Heat properties of soils in different ways of land use and melioration" Project Manager: Assoc. Prof. Milena Kercheva, PhD Status of the project: submitted report at stage

Participation in other projects, contracts and tasks

23. **Project to " Forestry University"** Title: " A study on the sustainability of grass species used for green areas in order to determine their tolerance to abiotic stress. " Head: Assoc. Prof.. Iskra Vassileva
24. **Task: № 13/2011 Contract with "Vermikult" LTD.** Characterization and evaluation of vermiculite and possibilities for its use in agricultural practice. Director Prof. Dr. S. Marinova.
25. **International Contract: a project with the Siberian Physico-Technical Institute of Agrarian problems** "Research and development of information technologies and impacts of agricultural crops in extreme conditions" led by Prof. II degree. Dr. Eng. Georgi Stoimenov.
26. Contract for bilateral cooperation with the National University of Cyprus, Limassol entitled: "Evaluation of soil quality and pollution control".
27. **University of Forestry " – SC 2016- 5** Title: "Response to abiotic stress factors in different salads (Lactuca sativa L.) var. Romana and var. Capitata in the Sofia Field "; Project Leader: Prof. Dr. Nidal Shaban Status of the project: Reporting stage

Memberships

B.EN.A

Courses	<ul style="list-style-type: none"> - Course physiological methods to assess the status of water plants. - Course on "Theoretical foundations of statistical methods and data analysis Program" Statistica " - Course on Geographic Information Systems "ArcGis" - English course: Pre Intermediate, Intermediate, Business English. - Course in preparation of European projects. - Thematic school " Traditional foods and health of Bulgarians "; 4th International Course on Organic Farming - Izmir, Turkey.
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List of publications for the period 2006-2016

1. **Tsenova, V.**, Kirkova, Y. 2007. "Effects of climate and irrigation regime on the temperature of the sowing of soybeans I. Impact of climate change on the temperature of the sowing of soybeans". Scientific reports from the international conference. "Soil - foundation for sustainable agriculture and environmental protection," Part 2 13-17 May 2007. Sofia.
2. **Tsenova, V.**, Kirkova, Y. 2007. "Effects of climate and irrigation regime on the temperature of sowing soybean II. Influence of irrigation mode on the temperature of the sowing of soybeans. "Scientific reports from the international conference. "Soil - foundation for sustainable agriculture and environmental protection," Part 2 13-17 May 2007. Sofia
3. Kirkova, Y., **V. Tsenova**, G. Stoimenov. 2009. "Drought resistance of different wheat varieties". Climate ekologiya, selyskoe hozayaystvo Eurasia, Irkutsk, r.317-324.
4. Stoimenov, D., **Tsenova, V.**, Y. Kirkova, R.Kireva, 2007. "Evaluation of the water regime of sunflower seed grown in Sofia field." Field crops studies, volume IV, No.2
5. Stoimenov, D., **Tsenova, V.**, Y. Kirkova, 2007. "Relation between the temperature of the sowing of wheat and extraction." Field crops studies, volume IV, No.2
6. **Tsenova, V.**, ., S. Manolova, H. Stoykov, 2007. "Influence of soil moisture on the yield of soybeans." Field crops studies, volume IV, No.2
7. **Tsenova, V.**, S. Manolova, H. Stoykov, 2007. "Influence of conditions in fitokamera and vegetatsionoa house on the cultivation of different genotypes soybeans." Field crops studies, volume IV, No.2
8. Vasileva, I., **Tsenova, V.**, 2008. "Soil water regime in relation to some physiological indicators of the grass species". International Conference BALWOIS 2008, 27- 31 May, Ohrid, Republic of Macedonia.
9. Kirkova, Y., **V. Tzenova**, G. Stoimenov, 2008. "Influence of the irrigation regime on the soybean productivity". International conference BALWOIS 2008, 27- 31 May, Ohrid, Republic of Macedonia.
10. **Tsenova, V.**, Y. Kirkova, G. Stoimenov, 2008, "Methods for plant water stress evaluation of soybean canopy". International conference BALWOIS 2008, 27- 31 May, Ohrid, Republic of Macedonia.
11. **Tsenova V**, Manolova S, Stoikov H. 2008. "Soil moisture and humidity influence on the wheat yield". International Conference BALWOIS 2008, 27- 31 May, Ohrid, Republic of Macedonia.
12. **Tzenova, V.**, Kirkova Y, 2008. "Changes of soybean and wheat yield I. Under non irrigated condition" *EUROSOIL 2008*, August 25 – 29, 2008 Technical University Vienna, Austria.

13. **Tzenova V**, Kirkova Y., 2008. "Changes of soybean and wheat yield II. Under optimal irrigation". *EUROSOIL 2008*, August 25 – 29, 2008 Technical University Vienna, Austria.
14. Manolova, S., **V. Tzenova**, T. Mitova-, 2008. "Effects of water deficit on the development of canola varieties. I. Effects of soil water deficit. "Seventh International Symposium "Ecology - Sustainable Development", c. Vratsa, 23 - 25. 10. 2008.
15. **Tsenova, V.**, S. Manolova, I. Mitova-, 2008. "Effects of water deficit on the development of canola varieties. II. Influence of air water deficit. "Seventh International Symposium "Ecology - Sustainable Development", c. Vratsa, 23 - 25. 10. 2008.
16. **Tsenova V**, Kirkova Y, 2008. "Frost tolerance evaluation of wheat and colza". Global environmental change: challenges to science and society in southeastern Europe, Sofia 2008.
17. Stoimenov, G., **V. Tsenova**, Y. Kirkova. 2009. "Irrigation influence on the different hybrids maize yield". *Климат, экология, сельское хозяйство евразии*, Иркутск, p.353-361.
18. **Tsenova, V.**, Y. Kirkova, 2009. "Frost tolerance (cold –resistance) evaluation of wheat and colza". *Климат, экология, сельское хозяйство евразии*, Иркутск, p.361-368.
19. **Tsenova V**, Mitova I, 2010. "Influence of the soil moisture regime on the N and plastid pigments of wheat varieties". *Environmental Protection and Ecology*, vol.11, № 2, p.540-546. (IF 0,176)
20. **Tzenova, V.**, Kirkova, Y., Stoimenov, G, 2010. "Water deficit influence during different growth stages on the soybean yield". *International Conference BALWOIS 2010*, 25-29 May, Ohrid, Republic of Macedonia. p.109.
21. Stoimenov, G, Kirkova, Y., **Tzenova, V.**, 2010. "On the possibility to use infrared thermometry for irrigation of wheat canopy". *International Conference BALWOIS 2010*, 25-29 May, Ohrid, Republic of Macedonia. p.602.
22. Stoimenov, G., **Petrova, V.**, Kirokova, Y., 2011. "Climate and Maize Yield in Plovdiv Region under Different Irrigation Conditions". *Journal of Balkan Ecology*, vol.14, №3, 2011.
23. Kirkova, Y., **Petrova, V.**, 2011. "Changes of soybean and wheat yield. I. Under non irrigated conditions". *AGRISAFE FINAL CONFERENCE*, March 21-23, Hungary. p. 183-187.
24. **Petrova, V.**, Kirkova, Y., 2011. "Changes of soybean and wheat yield. II. Under optimal irrigated conditions". *AGRISAFE FINAL CONFERENCE*, March 21-23, Hungary. p. 438-442.
25. **Petrova, V.**, Matev, A., Kirkova, J., Stoimenov, G., Petrova, R., 2011. "infrared thermometer as an indicator of water stress in soybeans." INTERNATIONAL CONFERENCE 100 YEARS BULGARIAN SOIL SCIENCE, 16-20 May 2011, Sofia.
26. **Petrova, V.**, Stoimenov, D., Kirkova, J., 2011. "Effects of climate and irrigation regime on the temperature of the sowing of wheat variety Sadovo 1". INTERNATIONAL CONFERENCE 100 YEARS BULGARIAN SOIL SCIENCE, 16-20 MAY 2011, Sofia.
27. Zlatareva, E. Marinova, S., Tontcheva, R., **Petrova, V.**, Mihailova, S. 2012. "Establishing the effect of compost produced by anaerobic digestion of a mixture of pig manure and waste from fruits and vegetables." *Environmental engineering and environmental protection*. Vol. 4/2012, st.40-44, ISSN 1311-8668.
28. **Petrova, V.**, Stoimenov, G., Manolova, S., 2012. "Drought and frost resistance of different Bulgarian wheat varieties". *International Conference BALWOIS 2012*

29. Stoimenov, G., Kirkova, Y., **Petrova, V.**, 2012. „Soil and plant water regimes evaluation of grape wine plantation”. *International Conference BALWOIS 2012*
30. Mitova, V., **Petrova, V.**, Zlatareva, E., 2013. “Possibility for using digestate to produce a quality plant production”. *Bulgarian Journal of Agricultural Science*. Под печат. (IF 0,189)
31. Stoimenov, G., **Petrova, V.**, Kirkova, J., 2012. "Methods for determining when watering." *Agricultural Engineering*, No. 18, issue 20 (537), Sofia.
32. N. Katidzhotes, **V. Petrova**, S. Marinova, V. Kolchakov, H. Pchelarova. 2013 "Opportunities for biogas from waste - potential barriers and legal norms." The third National Conference with international participation. "Ecological engineering and environmental protection." 13.06. 2013 RCIC, a small room. In print.
33. Marinova, S., Stoicheva, D., Ivanov, P., **Pertova, V.**, Kolchakov, V., Pchelarova, H. 2013. “Establishment of pollution from livestock breeding in the region of Veliko Tarenovo”. *Journal of Ecological engineering and environment protection*. Vol. 2/2013, p. 5-10.
34. Stoicheva, D., Simeonova, T., Kercheva, M., Benkova, M., Nenova, L., Marinova, S., **Petrova, V.**, 2013. “Nitrates in water monitored under different anthropogenic loading at pilot site in Northern Bulgaria”. *Journal of Balkan Ecology*, Vol.16, No 3, p.313-319.
35. Marinova S., Kolchakov V., Ivanov P., **Petrova V.**, Karadjova H. 2013. “Selection of suitable sites for the construction of biogas plant”. *INTERNATIONAL SYMPOSIUM INMATEH Agricultural Engineering*, p.185-193.
36. Mitova, T., **Petrova, V.** 2013. “Characteristic of greenhouse gas emission from the agrarian sector of Bulgaria and Romania as climate change mitigation factors”. *INTERNATIONAL SYMPOSIUM INMATEH Agricultural Engineering*. p. 201-209.
37. Zlatareva, E., **Petrova, V.**, Ivanov, P., Marinova, S., 2013. “Comparative characteristics and evaluation of digestate from biogas production with participation of pig manure and waste from markets”. *INTERNATIONAL SYMPOSIUM INMATEH Agricultural Engineering*, p. 209- 215.
38. Shindarska, Z., Zaharinov, B., **Petrova, V.**, Ivanov, P., Kostadinova, G., Kirov, V., Baykov, B. 2013. “Ecological assessment of different raw materials for biogas” *INTERNATIONAL SYMPOSIUM INMATEH Agricultural Engineering*. p. 215-223.
39. Popova, T., Marinova, S., Zaharinov, B., Kaleva, M., Baykov, B., Kirov, V., **Petrova, V.** 2013. “Reduction of sanitary indicator microorganisms in anaerobic digestion of poultry litter in combination with silages”. *INTERNATIONAL SYMPOSIUM INMATEH Agricultural Engineering*. p. 245-253.
40. Kolev, N., Marinova, S., **Petrova, V.** 2013. “Agricultural renewable energy sources in Bulgaria approaches and development”. Fifth conference “Energy efficiency and agricultural engineering” Ruse, Bulgaria, 17-18.2013, p.111-118. ISSN 1311-9974.
41.**V. Petrova** et al. 2013. Manual "Ways of utilization of biogas." Issued as part of an international project ManProEnv.
42.**V. Petrova** et al. 2013. Manual "Manure highly effective means of production in horticulture and

- environmental protection." Issued as part of an international project ManProEnv.
43. N. Kathijotes, **V. Petrova**, E. Zlatareva, V. Kolchakov, S. Marinova, P. Ivanov. **2015**. "Impacts of Biogas Digestate on Crop Production and the Environment: A Bulgarian Case Study". American Journal of Environmental Sciences 201511 (2): pp81-89. **IF 1,22**
 44. A.G. El Gendya, A.E. El Goharya, E.A. Omera, S.F. Hendawya, M.S. Husseina, **V. Petrova**, I. Stancheva 2015. "Effect of nitrogen and potassium fertilizer on herbage and oil yield of chervil plant (*Anthriscus crenifolium* L.)". Elsevier Industrial Crops and Products 69 (2015) 167–174. **IF 2.837**
 45. Zlatareva, E., V. Georgieva, St. Marinova, **V. Petrova**. 2015. "Disinfection of sewage sludge using lime materials." Int. conf., "The soil and agricultural technology in a changing world" May 11 to 15, Sofia, drive.
 46. 47. Marinova St., N. Katidzhotes, V. Kolchakov, E. Zlatareva, **V. Petrova**. 2015. "Characterization and evaluation of sewage sludge Kazanlak their use in practice." Environmental Engineering and Environmental Protection, № 3, 57-63.
 47. E. Zlatareva, N. Katijotes, S. Marinova, **V. Petrova**, V. Kolchakov. 2015. / „Establish changes in the system”soil-fertilizer-plant” as a result of fertilization with sludge from wastewater treatment plant“.Energy Solutions To Combat Global Warming, Springer, ISBN 978-3-319-26950-4 (No GCGW14-162).
 48. V. Kolchakov, E. Zlatareva, **V. Petrova**. P. Ivanov, S. Marinova.2015. „Possibilities for biogas production from waste ES potential, barriers and Legal notices“. Energy Solutions To Combat Global Warming, Springer, ISBN 978-3-319-26950-4 (No GCGW14-163).
 49. S. Marinova, D. Sticheva, E. Zlatareva, **V. Petrova**, V. Kolchakov. 2015. "Agrochemical and chemical assessment of waste from livestock farms", Solutions To Combat Global Warming, Springer, ISBN 978-3-319-26950-4 (No. GCGW14-159).
 50. I. Tsvetkov, H. Hristova, S. Marinova, **V. Petrova**, N. Tzvetkova 2016. "Photosynthesis-related features of willow (*Salix spp.*) plants in response to waste water sludge treatment". 2nd General Meeting of COST FA106, PhenomenAll, Copenhagen April 18-20, 2016.
 51. N. Kathijotis, E. Zlatareva, S. Marinova, **V. Petrova**, 2016. "Soil Fertilization with wastewater biosolids- monitoring changes in the "soil-fertilizer-plant" system and phosphorus recovery options". Journal of Water Science and Technology, Volume 74, issue 4. **IF 1.064**.
 52. I. Mitova, **V. Petrova**, E. Zlatareva, 2016. Possibility for Using Digestate to produce a Quality Plant Production. Евразийский Союз Ученых (ЕСУ) 4 (25). pp.7-15. ISSN2411-6467. **IF 0.517**.
 53. I. Mitov, **V. Petrova**, E. Zlatareva, 2016. Possibility for Using Digestate to Produce a Quality Plant Production. Eurasian Soyuz Uchenyih (ESU) 4 (25). v.7-15. ISSN2411-6467. **IF 0.517**.
 54. E. Zlatareva, N. Katijotes, S. Marinova, **V. Petrova**, V. Kolchakov. 2017. "Establish changes in the soil-fertilizer-plant as a result of fertilization with a sludge from a wastewater treatment plant". Energy Solutions To Combat Global Warming, Springer, pp. 339-351. DOI 10.1007 / 978-3-319-26950-4_1. ISBN 978-3-319-26948-1.

55. V. Kolchakov, E. Zlatareva, **V. Petrov**, P. Ivanov, S. Marinova. 2017. "Possibilities for biogas production from ES potential, barriers and legal notices". Energy Solutions To Combat Global Warming, Springer, pp. 181-193. DOI 10.1007 / 978-3-319-26950-4_1. ISBN 978-3-319-26948-1.
56. S. Marinova, D. Sticheva, E. Zlatareva, **V. Petrova**, V. Kolchakov. 2017. "Agrochemical and chemical assessment of waste from livestock farms". Solutions to Combat Global Warming, Springer, pp. 351-365. DOI 10.1007 / 978-3-319-26950-4_1. ISBN 978-3-319-26948-1.
57. Stoyanov, S., Dimitrov, E., **Petrova, V.**, Kercheva, M., 2017. Influence of the heterogeneity of the physical properties of deluvial-meadow soil on water stress in sunflower. Water Magazine, issue 3/4 2017, r. 26-35.
58. Zlatareva, E., Marinova, S., **Petrova, V.**, 2017. Establishment Effect of Sewage Sludge from Waste Water Treatment Plant and Effect over Leaching Smolnitsa. Journal of Tekirdağ Agriculture Faculty Year 2017 for 2nd International Balkan Agriculture Congress, May 16-18, 2017.
59. **Petrova, V.**, Yordanova, M., Stoimenov, G., 2017. Photosynthesis of Vegetables and Field Plants in Response to Biochar Treatment. "3rd International Symposium on Agriculture and Food - ISAF 2017", Book of Abstracts.
60. **Petrova, V.**, Stoimenov, G., Kirkova, Y., 2017. Investigation of Wheat Development After Biochar Soil Application. "3rd International Symposium on Agriculture and Food - ISAF 2017", Book of Abstracts.
61. **Petrova, V.**, Yordanova, M., Stoimenov, G., 2018. Photosynthesis of Vegetables and Field Plants in Response to Biochar Treatment. JOURNAL OF AGRICULTURE, FOOD AND ENVIRONMENTAL SCIENCES INTERNATIONAL SCIENTIFIC JOURNAL, vol. 72, N2, pp. 88-95, ISSN 2545-4315.
62. Nikolova. Ts., **V. Petrova**, M. Yordanova, A. Petrova, 2018. Investigation of the impact of biochar on the nectariferous qualities of the zucchini. 7th edition of the International Conference "Agriculture for Life, Life for Agriculture" Bucharest, Romania between 7th and 9th of June 2018. Scientific papers, series D, Animal Science "ISSN 2285-5785"
63. **Petrova, V.**, M. Yordanova, Ts. Nikolova, 2018. EVALUATION OF GRAIN CEREALS DEVELOPMENT AFTER BIOCHAR APPLICATION. National Scientific Conference with International Participation - "90 Years of Creativity, Growth, Development in Agrarian Science" - Smolyan 18-19.10.2018r.