

CV

Dr. Muhammet USAK

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Educational Background

Country	University	Faculty/Institute/Board	Subject	Degree	Year
Turkey		Higher Educationa Board	Science Education	Associate Professorship	2012
	METU	Language Preparatory School	English		2007
Turkey	Gazi University	Institute of Educational Sciences	Science Education	PhD	2005
Turkey	Pamukkale University	Institute of Science	Biology (Botanic)	Master of Science	2001
Turkey	Pamukkale University	Faculty of Education	Science Teacher Education	Bachelor of Arts	1998
Turkey	Pamukkale University	Faculty of Education	Primary Teacher Education	Bachelor of Arts	1998

Master Thesis Title: Tavas ilçesi (Denizli) sınırları içerisinde yetişen bazı makrofunguslar üzerine taksonomik bir araştırma-A Taxonomic research on macrofungi around the district of Tavas in Denizli (in Turkish)

Supervisor: Prof. Dr. Ali CELIK

Year: 2001

University: Pamukkale University, Denizli, Turkey

PhD Thesis Title: Fen bilgisi öğretmen adaylarının çiçekli bitkiler konusundaki pedagojik alan bilgileri-Prospective elementary science teachers' pedagogical content knowledge about flowering plants (in Turkish)

Supervisor: Prof. Dr. Mustafa AYDOĞDU

Year: 2005

University: Gazi University, Ankara, Turkey

Academic Experiences

Instution	Country	City	Department	Affiliation	Date
Kazan Federal University	Russia	Kazan	Institute of Psychology and Education	Professor (Part-time)	2018-2025
Gazi University	Turkey	Ankara	Science Education	Associate Professor	2013-2016
Dumlupınar Üniversitesi	Turkey	Kütahya	Science Education	Associate Professor	2012-2013
Zirver University	Turkey	Gaziantep	Primary Education	Assistant Professor	2010-2012
Trnava University	Slovakia	Trnava	Biology Education	Visiting Scholar	2009 August-Sept
Dumlupınar University	Turkey	Kütahya	Science Education	Assistant Professor	2008-2010
Pamukkale University	Turkey	Denizli	Science Education	Research Assistant (Dr.)	2005-2008
Gazi University	Turkey	Ankara	Science Education	Research Assistant	2002-2005
Pamukkale University	Turkey	Denizli	Science Education	Research Assistant	2000-2002
Ministry of Education	Turkey	Denizli	Science Teacher	Teacher	1998-2000

Research Areas

Science Education,
Biology Education,
Environmental Education,
STEM Education
Qualitative Research Methods & Methodology

Project Information

Proje Adı/Project Name	Main Supporters	Budgets	Years	Roles	Project Type
TÜBİTAK 1001: Developing the Modules with Interactive Computer Animation, Simulation and Learning Environments Integrated with the Secondary Physics Education Program, Expanding Through the In-Service Trainings and Adapting to the Training Process	TÜBİTAK- Turkish Academy of Science	224.125 TL (113.679 USD)	01.04.2011- 30.09.2013	Researchers	National

Other Activities and abilities

Supervisors	In-Progress	Completed	
	Master of Science	-	-
	Doctor of Science	-	2
	Bachelor of Science	-	-
Memberships	EUROPEAN SCIENCE EDUCATION RESEARCH ASSOCIATION - ESERA		
Organized and Managed Conferences	ISER 2014-Capadocia, TURKEY & ISER2015-Istanbul, Turkey CICE 2013, Kütahya, TURKEY		
Keynote Speakers	ICASI 2016, Japan		
Co-Editor	EURASIA Journal of Mathematics, Science and Technology Education (2010 –2016)		
Editorial Board Members (Web of Science)	Journal of Baltic Science Education (2008 –)		
Reviewers in journals (Web of Science &	Educational Sciences: Theory & Practice		

Scopus)	Journal of Baltic Science Education Environmental Educational Researcher Learning Individual & Differences Asia-Pacific Education Researcher Environmental Education Researcher
In Web of science	85 papers, 1,322 Citations, H-index – 20
In Scopus	93 papers, 1,644 Citations, h-index – 22
Google Scholar	144 papers, 4699 Citations, h-index – 38
ORCID	0000-0002-6537-9993
Researcher ID:	E-3176-2016
Scopus Author ID:	23010777700
Languages	Turkish (Mother Tongue) English (Advanced) German (Middle)

Doctoral Thesis Supervisor

	Student Name	Thesis Name	Degree	Year
1.	Muharrem Duran	Evaluating and improving the pedagogical content knowledge of basic science subjects of science teachers	Doctorate	2014
2.	Harun Uygun	The effect of pedagogical content knowledge of science teachers on students' learning products	Doctorate	2014

PUBLICATION LISTS

Web of Science-SSCI/SCI-Expanded and Scopus Journals

2025

- I. Demir, S., & Uşak, M. (2025). Analyzing the Implementation of PLS-SEM in Educational Technology Research: A Review of the Past 10 Years. *SAGE Open*, 15(2), 21582440251345950.
- II. Uşak, M. (2025). Transformation in Science Education: The Role of Technology And Emerging Approaches. *Journal of Baltic Science Education*, 24 (3), 396-398
- III. Usak, M. (2025). Artificial intelligence (AI): Solution or new problems? *Problems of Education in the 21st Century*, 83(5), 610–612.

2024

- I. Usak, M. (2024). Artificial intelligence in biology education. *Journal of Baltic Science Education*, 23(5), 806-808.
- II. Usak, M. (2024). Green Chemistry Education, *Problems of Education in the 21st Century* 82(5), 581-584

2023

- I. Nazari, N., Safitri, S., Usak, M., Arabmarkadeh, A., & Griffiths, M. D. (2023). Psychometric validation of the Indonesian version of the fear of COVID-19 scale: Personality traits predict the fear of COVID-19. *International journal of mental health and addiction*, 21(3), 1348-1364.

2022

- I. Ersozlu, Z., Usak, M., & Blake, D. (2022). Using Multi-Group invariance analysis in exploring Cross-Cultural differences in mathematics anxiety. *Journal of Ethnic and Cultural Studies*, 9(1), 1-18.
- II. Usak, M., Sinan, S., & Sinan, O. (2022). Science Maps and Bibliometric Analysis on Hygiene Education during 2012-2021. *Journal of Baltic Science Education*, 21(2), 288-304.
- III. Ersozlu, Z., Blake, D., Usak, M., & Hawken, S. (2022). Addressing Preservice Teacher's Reasons for Mathematics and Test Anxiety. *European Journal of Educational Research*, 11(3), 1715-1728.
- IV. Usak, M., Uygun, H., & Duran, M. (2022). The Effects of Science Teachers' Pedagogical Content Knowledge on Students' Attitudes toward Science and Their Achievement. *Journal of Baltic Science Education*, 21(4), 694-705.

2021

- I. Chan, Y. K., Hsieh, M. Y., & Usak, M. (2021). A Concrete Study on Social-Media Connection of Global Literacy Abilities in MOOCs under the Dual Impacts of Lower Birth-Rate and COVID-19. *Sustainability*, 13(4), 2203.
- II. Duran, M., Usak, M., Hsieh, M. Y., & Uygun, H. (2021). A New Perspective on Pedagogical Content Knowledge: Intellectual and Emotional Characteristics of Science Teachers. *Revista de Cercetare si Interventie Sociala*, 72, 9-32.
- III. Karakus, M., Ersozlu, A., Usak, M., & Yucel, S. (2021). Spirituality and well-being of children, adolescent, and adult students: A scientific mapping of the literature. *Journal of religion and health*, 60(6), 4296-4315.
- IV. Karakus, M., Ersozlu, Z., Usak, M., & Ocean, J. (2021). Self-Efficacy, Affective Well-Being, and Intent-to-Leave by Science and Mathematics Teachers: A Structural Equation Model. *Journal of Baltic Science Education*, 20(2), 237-251.
- V. Karakus, M., Usak, M., & Ersozlu, A. (2021). Emotions in learning, teaching, and leadership: A bibliometric review of Asian literature (1990–2018). *Sage Open*, 11(1), 2158244020988865.
- VI. Usak, M., & Masalimova, A. R. (2021). Selected Papers from 7th International Forum on Teacher Education-IFTE 2021:“Teacher Education: New Challenges and Goals”. *EURASIA Journal of Mathematics, Science and Technology Education*, 17(10), em2009.

- VII. Usak, M., Hsieh, M. Y., & Chan, Y. K. (2021). A concretizing research on making higher-education sustainability count. *Sustainability*, 13(5), 2724.

2020

- I. Usak, M., Masalimova, A. R., Cherdymova, E. I., & Shaidullina, A. R. (2020). New playmaker in science education: Covid-19. *Journal of Baltic Science Education*, 19(2), 180-185.
- II. Usak, M., Kubiátko, M., Shabbir, M. S., Viktorovna Dudnik, O., Jermisittiparsert, K., & Rajabion, L. (2020). Health care service delivery based on the Internet of things: A systematic and comprehensive study. *International Journal of Communication Systems*, 33(2), e4179.
- III. Hsieh, M. Y., & Muhammet, U. S. A. K. (2020). High education radical transformation era: How teachers' competency can enhance the students' employability?. *Revista De Cercetare Si Interventie Sociala*, 68, 95-112.
- IV. Lin, Q., Kubiátko, M., & Usak, M. (2020). Effect of learning environment and tobacco consumption on the formation of students' motivation in basketball classes. *Revista de Cercetare si Interventie Sociala*, 68, 282-298.
- V. Huang, Y. M., Hsieh, M. Y., & Usak, M. (2020). A multi-criteria study of decision-making proficiency in student's employability for multidisciplinary curriculums. *Mathematics*, 8(6), 897.
- VI. Ersozlu, Z., Wildy, H., Ersozlu, A., Lawrence, D., Karakus, M., Sorgo, A., ... & Chang, C. Y. (2020). Self-esteem, Bullying Perpetration/Victimization and Perceived Parental Support in a Nationally Representative Sample of Australian Students. *Revista de cercetare și intervenție socială*, 69, 49-68.

2019

- I. Usak, M., & Masalimova, A. R. (2019). Mentoring on science teacher education in Russia and international perspectives. *Journal of Baltic Science Education*, 18(3), 320.
- II. Karakus, M., Ersozlu, A., Demir, S., Usak, M., & Wildy, H. (2019). A model of attitudinal outcomes of teachers' psychological capital. *Psibologija*, 52(4), 363-378.
- III. Seregina, T. N., Masalimova, A. R., Usak, M., Dorozhkin, E. M., & Galushkin, A. A. (2019). Philosophical view on the problem of degradation and regeneration as potential trends in interethnic communication culture. *XLinguae*, 12(2), 186-194.
- IV. KUBIATKO, M., HALAKOVA, Z., & USAK, M. (2019). Effects of alcohol as on chemical and behaviors influence on college students. *Chimica Oggi – Chemistry Today* 37 (1-Supplement), 22-25
- V. Vlckova, J., Kubiátko, M., & Usak, M. (2019). The perception of biology by Czech lower secondary school students. *Eurasia Journal of Mathematics, Science and Technology Education*, 15(5), em1714
- VI. Sustekova, E., Kubiátko, M., & Usak, M. (2019). Validation of critical thinking test on Slovak conditions. *Eurasia Journal of Mathematics, Science and Technology Education*, 15(12), em1798.

2018

- I. Shao, Z., Wakil, K., Usak, M., Heidari, M. A., Wang, B., & Simoes, R. (2018). Kriging Empirical Mode Decomposition via Support Vector Machine Learning Technique for Autonomous Operation Diagnosing of CHP in Microgrid. *Applied Thermal Engineering*, 145: 58-70
 - II. Usak, M. (2018). Past, Present and Future of Journal of Baltic Science Education. *Journal of Baltic Science Education*, 17 (3), 364-366
 - III. Kubiátko, M., Hsieh, M.Y., Ersozlu, Z.N., Usak, M. (2018). The Motivation toward Learning among Czech High School Students and Influence of Selected Variables on Motivation. *Revista de Cercetare si Interventie Sociala*, 60, 79-93.
- 2017**
- I. Šorgo, A., Lamanauskas, V., Slavica, Š. Š., Ersozlu, Z. N., Tomažič, I., Kubiátko, M., ... & Usak, M. (2017). Cross-national study on relations between motivation for science courses, pedagogy courses and general self-efficacy. *Eurasia Journal of Mathematics, Science and Technology Education*, 6497-6508.
- 2016**
- II. Vlckova, J., Kubiátko, M., & Usak, M. (2016). Czech High School Students 'misconceptions about Basic Genetic Concepts: Preliminary Results. *Journal of Baltic Science Education*, 15(6): 738–745. (Scopus & Web of Science)
 - III. Kubiátko, M., Usak, M., Masalimova, A.R. (2016). Czech Lower Secondary School Pupils' Knowledge about Developing Countries. *Revista de Cercetare si Interventie Sociala*, 55, 215-230.
 - IV. Kubiátko, M., Usak, M., & Kose, M. (2016). Czech University Students' Perception Of Alternative Medicine, *Studies On Ethno-Medicine*, 10(2):125-131. (Scopus & Web of Science)
 - V. Masalimova, A. R., Usak, M., & Shaidullina, A. R. (2016). Advantages and disadvantages of national and international corporate training techniques in adult education. *Current science*, 111(9), 1480-1485. (Scopus & Web of Science)
- 2015**
- I. Duran, M., & Usak, M. (2015). Examining the pedagogical content knowledge of science teachers who have different teaching experience about acids and bases. *Oxidation Communications*, 38(1A), 540-557. (Scopus & Web of Science)
 - II. Hummel, E. Ozel, M., Medina-Jerez, W., Fančovičová, J., Prokop, P., Usak, M. & Randler, C. (2015) Interest in Birds and its Relationship with Attitudes and Myths: A Cross-cultural Study in Countries with Different Levels of Economic Development. *Educational Sciences: Theory and Practice* .15(1):285 - 296. DOI: 10.12738/estp.2015.1.2242 (Scopus & Web of Science)
 - III. Jean-Marie Ballouard, Stephen J. Mullin, Rastko Ajtic, José Carlos Brito, El Hassan ElMouden, Mehmet Erdogan, Monica Feriche, Juan M. Pleguezuelos, Pavol Prokop, Aida Sánchez, Xavier Santos, Tahar Slimani, Bogoljub Sterijovski, Ljiljana Tomovic, Muhammet Uşak, Marco Zuffi, Xavier Bonnet (2015) Factors influencing schoolchildren's responses to a questionnaire in wildlife conservation education, *International Journal of Science Education* 2015; 37(3). DOI:10.1080/09500693.2014.993000 • (Scopus & Web of Science)

- IV. Vlckova, J., Kubiátko, M., Usak, M., & Aydın, H. (2015). Opinions on Euthanasia Among Czech Seniors And University Students. *Revista De Cercetare I Interven Ie Social*, 50, 193-208. (Scopus & Web of Science)
- V. Šorgo, A., Pipenbaher, N., Šašić, S. Š., Prokop, P., Kubiátko, M., Golob, N., ... & Lamanauskas, V. (2015). Cross National Study on Pre-Service Elementary and Science Teachers' Opinions on Science Teaching. *Eurasia Journal of Mathematics, Science & Technology Education*, 11(4), 713-723. (Scopus & Web of Science)
- VI. Senay, I., Usak, M., & Prokop, P. (2015). Talking About Behaviors in the Passive Voice Increases Task Performance. *Applied Cognitive Psychology*, 29(2), 262-270. (Scopus & Web of Science)

2014

- I. Šorgo, A., Usak, M., Kubiátko, M., Fančovičová, J., Prokop, P., Puhek, M., Škoda, J., Bahar, M. (2014) A cross-cultural study on freshmen's knowledge of genetics, evolution, and the nature of science. *Journal of Baltic Science Education*, 13(1): 6–18. (Scopus & Web of Science)
- II. Al-Amoush, S., Markic, S., Usak, M., Erdogan, M., & Eilks, I. (2014). Beliefs About Chemistry Teaching And Learning—A Comparison Of Teachers'and Student Teachers'beliefs From Jordan, Turkey And Germany. *International Journal of Science and Mathematics Education*, **12**(4), 767-792.
- III. Avci, D. E., Onal, N. S., & Usak, M. (2014). Turkish Teachers 'opinions About Science-Technology-Society-Environment Acquisitions in Science and Technology Course Curriculum. *Journal of Baltic Science Education*, 13(2) 216-230. (Scopus & Web of Science)

2013

- I. Pavol, P., Usak, M., Rantala, M., & Senay, I. (2013). Is A Female Preference for Male Chest Hair Influenced by Parasite Threat? *Archives of Sexual Behavior*. 42 (7): 1181 – 1189 (Scopus & Web of Science)
- II. Halder, P., Pietarinen, J. Havu-Nuutinen, S. Pelkonen, P. Prokop, P. Chang, C.Y., & Usak, M. (2013). . Knowledge, perceptions, and attitudes as determinants of youth's intentions to use bioenergy – a cross-national perspective. *International Journal of Green Energy*. 10 (8): 797 – 813. (Scopus & Web of Science)
- III. Ballouard J. M., Ajtic, R., Balint, H., Brito, J., Crnobrnja-Isailovic, J., Elmouden, E. L., Erdogan, M., Feriche, M., Pleiguezuelos, J. M., Prokop, P., Sanchez, A., Santos, X., Slimani, T., Sterijovski, B., Tomovic, L., Usak, M., Zuffi, M., Bonnet, X. 2013: Schoolchildren and one of the most unpopular animals: are they ready to protect snakes? *Anthrozoös*, 26 (1): 93 – 109. (Scopus & Web of Science)
- IV. Al-Amoush S., Markic, S., Abu-Hola, I., Usak, M., Erdogan, M. & Eilks, I. (2014). Beliefs about chemistry teaching and learning – a comparison of teachers and student teachers from Jordan, Turkey and Germany. *International Journal of Mathematics and Science Education*. 12(4):767-792. (Scopus & Web of Science)
- V. Al-Amoush, S., Uşak, M., Erdoğan, M., Markic, S., & Eilks, I. (2013). Pre- and in-service teachers' beliefs about teaching and learning chemistry in Turkey. *European Journal of Teacher Education*. 36(4). DOI:10.1080/02619768.2013.807793 •(Scopus & Web of Science)

- VI. Prokop, P., Özel, M., Usak, M., Senay, I. (2013): Disease-threat model explains acceptance of genetically modified products. *Psibologija*, 40 (3): 229 – 243. (Scopus & Web of Science)

2012

- I. Baytak, A., Akbiyik, C., & Usak, M. (2012). Parents' Perception over Use of ICT in Education. *Technics Technologies Education Management*, 7(3): 1158-1167. (Scopus & Web of Science)
- II. Erdogan, M., Bahar, M., Ozel, R., Erdaş, E. & Usak, M. (2012). Environmental Education in 2002 and 2006 Early Childhood Curriculum. *Kuram ve Uygulamada Egitim Bilimleri-Educational Sciences: Theory & Practice*. Special Issue • Autumn • 3259-3272. (Scopus & Web of Science)
- III. F. Alisinanoglu, H.Z. Inan, S.Ozbey, M. Uşak, (2012). "Early childhood teacher candidates' qualifications in science teaching", *Energy Education Science and Technology Part B: Social and Educational Studies*, 4(1): 373-390 (Scopus & Web of Science)
- IV. Halder, P., Prokop, P. Chang, C.Y., Usak, M., Pietarinen, J. Havu-Nuutinen, S. Pelkonen, P. & Cakir, M. (2012). International survey on bioenergy knowledge, perceptions and attitudes among young citizens. *BioEnergy Research*, 5(1):247-261. (Scopus & Web of Science)
- V. Erdogan, M., Ozel, M., BouJaoude, S., Lamanaukas, V., Usak, M., Prokop, P. 2012: Assessment of preservice teachers' knowledge and attitudes regarding biotechnology: A cross-cultural comparison. *Journal of Baltic Science Education*. 11 (1): 78-93. (Scopus & Web of Science)
- VI. Erdogan, M., Bahar, M., & Usak, M. (2012). Environmental Education in High School 9th - 12th Biology Course Curricula Started to Be Implemented in 2007. *Kuram ve Uygulamada Egitim Bilimleri-Educational Sciences: Theory & Practice*. 12(3): 2217-2235. (Scopus & Web of Science)
- VII. Senay, I., Cetinkaya, M, & Usak, M. (2012). Accepting Test-Anxiety-Related Thoughts Increases Academic Performance Among Undergraduate Student. *Psibologija*, 45 (4), 417–432. (Scopus & Web of Science)

2011

- I. Usak, M., Ozden, M. & Saglam, Y. (2011). Use of Pedagogical Content Knowledge in Teaching Chemistry in Early Science Education. *Asian Journal of Chemistry*, 23(11), 4761-4767. (Scopus & Web of Science)
- II. Sorgo, A., Ambrozic-Dolinsek, J., Usak, M., & Ozel, M. (2011). Knowledge about and acceptance of genetically modified organisms among pre-service teachers: A comparative study of Turkey and Slovenia. *Electronic Journal of Biotechnology*, vol. 14, no. 4. <http://dx.doi.org/10.2225/vol14-issue4-fulltext-5>. (Scopus & Web of Science)
- Prokop, P., Usak, M., Erdogan, M., Fančovičová, J., Bahar, M. (2011). Slovakian and Turkish students' fear, disgust and perceived danger of invertebrates. *Hacettepe University Journal of Education*, 40:344-352. (Scopus & Web of Science)
- III. Kubiátko, M., Usak, M. & Pecusova, E. (2011). Elementary school pupils' knowledge and misconceptions about birds. *Egitim Arastirmalari-Eurasian Journal of Educational Research*, 43:163-182. (Scopus & Web of Science)
- IV. Usak, M., Erdogan, M., Inan, HZ, Kubiátko, M. & Sahin, M (2011). Investigation of prospective teachers' approaches to learning in biology and ecology. *The New Educational Review*, 23(1), 283-294. (Scopus & Web of Science)

- V. Sorgo, A., Usak, M., Aydogdu, M., Keles, O. & Ambrozic-Dolinsek, J. (2011). Biology teaching in upper secondary schools: Comparative study between Slovenia and Turkey. *Energy Education Science and Technology Part B: Social and Educational Studies*, 3(3), 305–314. (Scopus & Web of Science)
- VI. Erdogan, M., Coskun, E. & Usak, M. (2011). Developing children's environmental literacy through the literature: An analysis on the selected classics from Turkish literature. *Egitim Arastirmalari-Eurasian Journal of Educational Research*, 42, 45-62. (Scopus & Web of Science)
- VII. Prokop, P., Tunnicliffe, S. D., Kubiátko, M., Hornáčková, A., Usak, M. (2011). The role of teacher in students' attitudes to and achievement in palaeontology. *Energy Education Science and Technology Part B: Social and Educational Studies*, 3(1-2), 29-45. (Scopus & Web of Science)
- VIII. Prokop, P., Usak, M., & Erdogan, M. (2011). Good predators in bad stories: Cross-cultural comparison of children's attitudes toward wolves. *Journal of Baltic Science Education*, 10(4):229-242. (Scopus & Web of Science)
- IX. Bulut, M., Teo,T., Usak, M., Yilmaz, H., Aydogdu, M., & Kubiátko, M. (2011). Pre-service teachers' technology acceptance in Turkey: An exploratory study. *Technics Technologies Education Management*, 6(3): 719-727. (Scopus & Web of Science)
- X. Usak, M., Ozden, M. & Eilks, I. (2011). A case study of beginning science teachers' subject matter (SMK) and pedagogical content knowledge (PCK) of teaching chemical reaction in Turkey. *European Journal of Teacher Education*, 34:4, 407-429.

2010

- I. Prokop, P, Usak, M., & Fančovičová, J. (2010). Health and the avoidance of macroparasites: a preliminary cross-cultural study. *Journal of Ethology*, 28(2), 345–351. (Scopus & Web of Science)
- II. Narlı, S, Yorek, N, Sahin, M & Usak, M. (2010). Can we make definite categorization of student attitudes? A rough set approach to investigate students' implicit attitudinal typologies toward living things. *Journal of Science Education & Technology*, 19(5), 456–469. (Scopus & Web of Science)
- III. Kubiátko, M., Usak, M., Yilmaz, K & Tasar, M.F. (2010). A cross-national study of Czech and Turkish university students' attitudes toward ICT used in science subjects. *Journal of Baltic Science Education*, 9(2), 119-134. (Scopus & Web of Science)
- IV. Prokop, P., Usak, M., Fančovičová, J. (2010). Risk of parasite transmission influences perceived vulnerability to disease and perceived danger of disease-relevant animals. *Behavioural Processes*, 85(1), 52-57. (Scopus & Web of Science)
- V. Prokop, P., Fančovičová, J. & Usak, M. (2010). Web-site as an education tool in biology education: Sample of nutrition subject. *Kuram ve Uygulamada Egitim Bilimleri-Educational Sciences: Theory & Practice*, 10(2), 907-921. (Scopus & Web of Science)
- VI. Hudson, P, Usak, M., Fančovičová, J., Erdogan, M. & Prokop, P. (2010). Preservice teachers' memories of their secondary science education experiences. *Journal of Science Education & Technology*, 19(6), 546-552. (Scopus & Web of Science)
- VII. Hudson, P., M, Usak, M., & Gencer-Savran, A. (2010). Benchmarking mentoring practices: a case study in Turkey. *EURASIA Journal of Mathematics, Science & Technology Education*, 6(4), 245-252, (Scopus)

2009

- I. Usak, M., Erdogan, M., Prokop, P. & Ozel, M. (2009). High school and university students' knowledge and attitudes regarding biotechnology: A Turkish experience. *Biochemistry and Molecular Biology Education*, 37(2),123-130. (Scopus & Web of Science)
- II. Ozel, M., Erdogan, M.,Usak, M., & Prokop, P.(2009). High school students' knowledge and attitudes regarding biotechnology applications. *Kuram ve Uygulamada Eğitim Bilimleri-Educational Sciences: Theory & Practice*, 9(1), 297-328. (Scopus & Web of Science)
- III. Hudson, P., Usak, M., & Savran-Gencer, A. (2009). Employing the five-factor mentoring instrument: analyzing mentoring practices for teaching primary science. *European Journal of Teacher Education*, 32(1), 63-74. (Scopus & Web of Science)
- IV. Prokop, P, Usak, M., Ozel, M & Fančovičová, J. (2009). Children's conceptions of animal breathing: A cross-age and cross-cultural comparison. *Journal of Baltic Science Education*, 8(3), 191-207. (Scopus & Web of Science)
- V. Usak, M. (2009). Preservice science and technology teachers' pedagogical content knowledge on cell topics. *Kuram ve Uygulamada Eğitim Bilimleri-Educational Sciences: Theory & Practice*, 9(4), 2013-2046. (Scopus & Web of Science)
- VI. Usak, M., Prokop, P, Ozden, M., Ozel, M.,Bilen, K. & Erdogan, M.(2009). Turkish university students' attitudes toward biology: the effects of gender and enrolment in biology classes. *Journal of Baltic Science Education*, 8(2), 88-96. (Scopus & Web of Science)
- VII. Erdogan, M. & Usak, M. (2009). Curricular and extra-curricular activities for developing environmental awareness of young students: A case from Turkey. *Croatian Journal of Education*, 11(1), 73-85. (Scopus & Web of Science)
- VIII. Prokop, P., Ozel, M., & Usak, M. (2009). Cross-cultural comparison of student attitudes toward snakes. *Society & Animals*, 17(3), 224-240.
- IX. Erdogan, M.,Ozel, M., Usak, M., & Prokop, P. (2009). Development and validation of an instrument to measure university students' biotechnology attitude. *Journal of Science Education & Technology*, 18(3), 255-264. (Scopus & Web of Science)
- X. Kose, S.,Usak, M., & Bahar, M. (2009). A cross-age study of students understanding and their misconception about plant nutrition. *Didactica Slovenica-Pedagoska Obzorja*, 24(1), 109-122. (Scopus & Web of Science)
- XI. Erdogan, M.,Usak, M., & Ozel, M. (2009). Prospective Biology and Chemistry teachers' satisfaction with laboratory and laboratory facilities: The Effect of Gender and University. *Journal of Turkish Science Education*, 6(1), 60-71 (Scopus)

2008

- I. M. Erdoğan, M. Uşak, & H. Aydın (2008). Investigating prospective teachers' satisfaction with social services and facilities in Turkish universities. *Journal of Baltic Science Education*, 7(1), 17-26. (Scopus & Web of Science)
- II. M. Bahar, M. Ozel, P. Prokop & M. Uşak (2008). Science students' ideas of heart' internal structure. *Journal of Baltic Science Education*, 7(2), 78-85. (Scopus & Web of Science)

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