

Assoc. Prof. FATMA ALKAN

Personal Information

Office Phone: [+90 312 297 6787](tel:+903122976787)

Email: alkanf@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/alkanf>

Education Information

Doctorate, Hacettepe Üniversitesi, Eğitim Fakültesi, Turkey 2007 - 2012

Dissertations

Doctorate, Kendi kendine öğrenmenin kimya laboratuvarında öğrenci başarısına, öğrenme hazırbuluşluğuna, laboratuvar becerilerine yönelik tutumuna ve endişesine etkisi, Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2012

Research Areas

Social Sciences and Humanities, Education, Teacher Training in Science and Math. at Second. Sch. Lev.

Academic Titles / Tasks

Associate Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2017 - Continues

Lecturer PhD, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2012 - 2017

Research Assistant, Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2007 - 2012

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **DEVELOPMENT OF CHEMISTRY LABORATORY SELF-EFFICACY BELIEFS SCALE**
ALKAN F.
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.15, no.3, pp.350-359, 2016 (Journal Indexed in SSCI)
- II. **The Effect of Inquiry-Based Laboratory Application on Thinking Styles of Students**
ERDEM E., ALKAN F.
ANTHROPOLOGIST, vol.20, pp.369-376, 2015 (Journal Indexed in SCI)
- III. **THE EFFECT OF ALTERNATIVE ASSESSMENT TECHNIQUES ON CHEMISTRY COMPETENCY PERCEPTIONS AND CHEMISTRY SUCCESS OF PROSPECTIVE SCIENCE TEACHERS**
Alkan F.
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.12, no.6, pp.774-783, 2013 (Journal Indexed in SSCI)
- IV. **THE EFFECT OF SELF-DIRECTED LEARNING ON THE SUCCESS, READINESS, ATTITUDES TOWARDS LABORATORY SKILLS AND ANXIETY IN LABORATORY**
ALKAN F., ERDEM E.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, no.44, pp.15-26, 2013 (Journal Indexed in SSCI)

V. A STUDY ON DEVELOPING ATTITUDE SCALE TOWARDS LABORATORY SKILLS

ALKAN F., ERDEM E.

HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, pp.22-31, 2012 (Journal Indexed in SSCI)

Articles Published in Other Journals

- I. **INVESTIGATING THE RELATIONSHIPS AMONG STUDENTS' CHEMISTRY MOTIVATIONS, ACHIEVEMENT GOAL ORIENTATION, CLASSROOM ENGAGEMENT, GENDER, CLASS AND POSITIVE TEACHER BEHAVIOURS THROUGH STRUCTURAL EQUATION MODELING**
Alkan F.
MIER-JOURNAL OF EDUCATIONAL STUDIES TRENDS AND PRACTICES, vol.10, no.2, pp.188-205, 2020 (Journal Indexed in ESCI)
- II. **INVESTIGATION OF EPISTEMOLOGICAL BELIEFS AND CREATIVITY FOSTERING BEHAVIOURS OF PROSPECTIVE TEACHERS' IN TERMS OF VARIOUS VARIABLES**
ALKAN F., YÜCEL A. S.
MIER-JOURNAL OF EDUCATIONAL STUDIES TRENDS AND PRACTICES, vol.9, no.2, pp.212-226, 2019 (Journal Indexed in ESCI)
- III. **Experimental Learning Model in Chemistry Laboratory and Its Effects on Metacognitive Learning Strategies**
ALKAN F.
Cumhuriyet International Journal of Education, vol.6, pp.382-399, 2017 (Refereed Journals of Other Institutions)
- IV. **Teachers' Opinions towards Private Courses and Their Efficacy Levels**
ALKAN F., ACARLI D. S., ALTUNDAĞ C.
CUKUROVA UNIVERSITY FACULTY OF EDUCATION JOURNAL, vol.46, no.2, pp.517-540, 2017 (Journal Indexed in ESCI)
- V. **Experiential Learning Its Effects on Achievement and Scientific Process Skills**
ALKAN F.
Journal of Turkish Science Education, vol.13, pp.15-26, 2016 (Refereed Journals of Other Institutions)
- VI. **The Role of Technology in Science Teaching Activities: Web Based Teaching Applications**
ALKAN F., ALTUNDAĞ C.
Journal for the Education of Gifted Young, vol.3, no.2, pp.1-7, 2015 (Refereed Journals of Other Institutions)
- VII. **STUDENTS REASONS FOR ATTENDING PRIVATE COURSESAND THEIR VIEWS ON THEM THE CASE OF TURKEY**
ACARLI D. S., ALTUNDAĞ C., ALKAN F.
JOURNAL OF EDUCATIONAL AND INSTRUCTIONAL STUDIESIN THE WORLD, vol.5, pp.44-49, 2015 (Refereed Journals of Other Institutions)
- VIII. **Ortaöğretim öğrencilerinin dershanedeki fen öğretimine yönelik tutum ve görüşleri**
ACARLI D. S., ALKAN F., ALTUNDAĞ C.
Elektronik Sosyal Bilimler Dergisi, vol.14, pp.54-67, 2015 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Examining the instructional materials motivation of prospective chemistry teachers' in laboratory**
ALKAN F.
ERPA International Congresses on Education (ERPA), Sakarya, Turkey, 19 - 22 June 2019, vol.66
- II. **How should be the laboratory application? Prospective teachers' perspective**
ALKAN F.
ERPA International Congresses on Education (ERPA), Sakarya, Turkey, 19 - 22 June 2019, vol.66

- III. **INTERRELATIONS BETWEEN HIGH SCHOOL STUDENTS ACADEMIC MOTIVATION AND METACOGNITIVE AWARENESS**
ALKAN F.
International Journal of Arts & Sciences Academic Conferences 2016, Boston, United States Of America, 23 - 27 May 2016, vol.9, pp.129-136
- IV. **OPINIONS AND ATTITUDES OF PROSPECTIVE TEACHERS FOR THE USE OF TECHNOLOGY IN EDUCATION**
ALKAN F., ALTUNDAĞ C.
International Conference on Education in Mathematics, Science & Technology (ICEMST) 2016, Muğla, Turkey, 19 - 22 May 2016, pp.881-884
- V. **AN EXAMINATION OF HIGH SCHOOL STUDENTS ACADEMICMOTIVATION AND THEIR ATTITUDE TOWARDS CHEMISTRYLESSONS**
ALTUNDAĞ C., ALKAN F.
International Conference on Research in Education and Science (ICRES) 2016, Muğla, Turkey, 19 - 22 May 2016, pp.442-446
- VI. **Chemistry laboratory applications supported with simulation**
ALKAN F., ALTUNDAĞ C.
International Educational Technology Conference, Chicago, United States Of America, 3 - 05 September 2014, vol.176, pp.970-976
- VII. **Technology based instruction of precipitation titrations**
Kocak C., ALKAN F.
International Educational Technology Conference IETC, Illinois, United States Of America, 3 - 05 September 2014, vol.176, pp.531-537
- VIII. **Technology Supported Teaching of Volumetric Analysis**
ALTUNDAĞ C., ALKAN F.
V. European Conference on Social and Behavioral Sciences, St. Petersburg, Russia, 11 - 13 September 2014
- IX. **The Relationship Between Metacognitive Awareness, Teacher Self-Efficacy and Chemistry Competency Perceptions**
ALKAN F., ERDEM E.
3rd Cyprus International Conference on Educational Research (CY-ICER), Nicosia, CYPRUS, 30 January - 01 February 2014, vol.143, pp.778-783
- X. **The Effect of Educational Technologie on Pre Service Teachers Self Efficacy**
ALKAN F., ERDEM E.
3rd World Conference on Information Technology, Barcelona, Spain, 14 - 16 November 2012, vol.3, pp.873-878
- XI. **The relationship between teacher self-efficacy and competency perceptions of chemistry teacher candidates**
ALKAN F., ERDEM E.
Cyprus International Conference on Educational Research (CY-ICER), CYPRUS, 8 - 11 February 2012, vol.47, pp.1927-1932
- XII. **Phänomenographie Eine qualitative Studie über die Wahrnehmung der Nanotechnologie**
ALKAN F., ERDEM E.
GDCh-Wissenschaftsforum Chemie 2011, Bremen, Germany, 4 - 07 September 2011
- XIII. **The effect of elective courses on candidate teachers' level of social skills**
ALKAN F., ERDEM E.
3rd World Conference on Educational Sciences (WCES), İstanbul, Turkey, 3 - 07 February 2011, vol.15, pp.3451-3455
- XIV. **A study on developing candidate teachers' spatial visualization and graphing abilities**
ALKAN F., ERDEM E.
3rd World Conference on Educational Sciences (WCES), İstanbul, Turkey, 3 - 07 February 2011, vol.15, pp.3446-3450
- XV. **The attitudes of student teachers towards educational technologies according to their status of**

receiving teaching application lessons

ALKAN F., ERDEM E.

2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.2523-2527

XVI. Kimya Öğretmen Adaylarının Eğitim Teknolojilerine Yönelik Tutumlarının ncelenmesi

ALKAN F., ERDEM E.

3. Uluslararası Bilgisayar ve Öğretim Teknolojileri Sempozyumu, Trabzon, Turkey, 7 - 09 October 2009, pp.306-310

Supported Projects

YÜCEL A. S. , Özsoy S., Karadeniz A., ALTUNDAĞ C., MUSTAFAOĞLU F. M. , ALKAN F., Project Supported by Higher Education Institutions, Tahmin Et Gözle Açıkla Yöntemi İle Desteklenmiş Organik Kimya Laboratuvar Uygulamalarının Kimya Öğretmen Adaylarının Laboratuvar Kullanımına Yönelik Tutumları Üzerine Etkisi, 2016 - 2018

ALKAN F., Project Supported by Higher Education Institutions, Lise Öğrencilerinin Akademik Motivasyonlarının Üstbilişsel Farkındalık Açısından İncelenmesi, 2016 - 2016

ALTUNDAĞ C., ALKAN F., Project Supported by Higher Education Institutions, Lise Öğrencilerinin Akademik Motivasyonlarının ve Kimya Dersine Yönelik Tutumlarının İncelenmesi, 2016 - 2016

ALKAN F., Project Supported by Higher Education Institutions, 3. Uluslararası Eğitim ve e-Öğrenme Konferansı, 2015 - 2016

ALKAN F., Project Supported by Higher Education Institutions, Öğretmenlerin Dershanelere Yönelik Görüşleri ve Mesleki Yetkinlikleri, 2014 - 2015

Citations

Total Citations (WOS):22

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