

Prof. MİNE İŞIKSAL BOSTAN

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey
2012 - 2006

Postgraduate, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey
2000 - 2002

Undergraduate, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü,
Turkey 1996 - 2000

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, A study on pre-service elementary mathematics teachers' subject matter knowledge and pedagogical content knowledge regarding the multiplication and division of fractions, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2006

Postgraduate, The Effect of spreadsheet and dynamic geometry software on the mathematics achievement and mathematics self-efficacy of 7th grade students, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2002

Research Areas

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

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2017 - Continues

Associate Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2011 - 2017

Assistant Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2009 - 2011

Courses

community service, Undergraduate, 2018 - 2019

Advising Theses

İŞIKSAL BOSTAN M., A teacher's learning to implement cognitively high-level tasks to facilitate student thinking through coaching program, Doctorate, E.AYTEKİN(Student), 2022

İŞIKSAL BOSTAN M., Supporting the development of a second-grade classroom's conceptions of multiplication through a hypothetical learning trajectory, Doctorate, S.KANDİL(Student), 2022

İŞIKSAL BOSTAN M., Development of prospective secondary school mathematics teachers' specialized knowledge of limit concept through lesson study, Doctorate, R.SAVURAN(Student), 2022

İŞIKSAL BOSTAN M., An investigation of elementary gifted students' modeling competencies through engineering-based model eliciting activities, Doctorate, F.İCLAL(Student), 2022

İşiksal Bostan M., An investigation of prospective middle school mathematics teachers' argumentation, proof, and geometric construction processes in the context of cognitive unity, Doctorate, E.DEMİRAY(Student), 2019

İşiksal Bostan M., Investigation into prospective middle school mathematics teachers' noticing of students' algebraic thinking within the context of pattern generalization, Postgraduate, Z.ÖZEL(Student), 2019

İşiksal Bostan M., AN INVESTIGATION OF 7TH GRADE STUDENTS' LEVEL OF UNDERSTANDING IN THE STATISTICAL INVESTIGATION PROCESS, Postgraduate, Ö.ÖZ(Student), 2019

İŞIKSAL BOSTAN M., An Investigation of 7th grade students' level of understanding in the statistical investigation process, Postgraduate, Ö.Öz(Student), 2019

İŞIKSAL BOSTAN M., An Investigation of 7th grade students' statistical literacy about the concepts of average and variation on bar and line graphs, Postgraduate, E.Çatman(Student), 2018

İŞIKSAL BOSTAN M., An Analysis of prospective middle school mathematics teachers' argumentation structures in technology and paper-pencil environments, Doctorate, Ö.Erkek(Student), 2017

İŞIKSAL BOSTAN M., AKYÜZ D., A Pre-service mathematics teacher's technological pedagogical content knowledge regarding different views of 3-d figures in geometry, Postgraduate, İ.Saralar(Student), 2016

İŞIKSAL BOSTAN M., Investigation of attitudes of middle grade students towards use of technology in mathematics lessons, Postgraduate, E.Aytekin(Student), 2015

AKYÜZ D., İŞIKSAL BOSTAN M., The Effect of using dynamic geometry software on eight grade students' achievement in transformation geometry, geometric thinking and attitudes toward mathematics and technology y, Postgraduate, M.Buğra(Student), 2014

İŞIKSAL BOSTAN M., An Investigation into middle school mathematics teachers' subject matter knowledge and pedagogical content knowledge regarding the volume of 3D solids, Doctorate, R.Tekin(Student), 2014

İŞIKSAL BOSTAN M., An Investigation of pre-service middle school mathematics teachers' achievement levels in mathematical proof and the reasons of their wrong interpretations, Postgraduate, E.Demiray(Student), 2013

HASER Ç., İŞIKSAL BOSTAN M., An Investigation of private middle school students' common errors in the domain of area and perimeter and the relationship between their geometry self-efficacy beliefs and basic procedural and conceptual knowledge of area and perimeter, Postgraduate, N.Orhan(Student), 2013

İŞIKSAL BOSTAN M., Elementary teachers' and elementary mathematics teachers' perceptions of mathematically gifted students, Postgraduate, S.Tütüncü(Student), 2013

İŞIKSAL BOSTAN M., A Study on fifth grade students' mistakes, difficulties and misconceptions regarding basic fractional concepts and operations, Postgraduate, N.Tarkan(Student), 2012

IŞIKSAL BOSTAN M., The Effect of creative drama based instruction on seventh grade students' mathematics achievement in probability concept and their attitudes toward mathematics, Postgraduate, A.Damla(Student), 2012

ÇAKIROĞLU E., IŞIKSAL BOSTAN M., The effect of creative drama based instruction on seventh grade students' achievement in ratio and proportion concepts and attitudes toward mathematics, Postgraduate, E.Debreli(Student), 2011

HASER Ç., IŞIKSAL BOSTAN M., Construction of a mathematics related belief scale for elementary preservice mathematics teachers, Postgraduate, R.KAYAN(Student), 2011

IŞIKSAL BOSTAN M., ÇAKIROĞLU E., The relationships among the preservice teachers' spatial visualization ability, geometry self-efficacy, and spatial anxiety, Postgraduate, Ö.Dursun(Student), 2010

IŞIKSAL BOSTAN M., A case study on the aspects of classroom discourse in a fifth grade mathematics class in a regional elementary boarding school, Postgraduate, Ş.Şahin(Student), 2009

IŞIKSAL BOSTAN M., Investigation of the change in sixth grade students' problem solving abilities, attitude towards problem solving and attitude toward mathematics after mathematics instruction based on polya's problem solving steps, Postgraduate, V.Yıldız(Student), 2008

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, February, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, December, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, June, 2019

Doctorate, Doctorate, Hacettepe Üniversitesi, June, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Hacettepe Üniversitesi, June, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A prospective teacher's conceptions about the nature of mathematical tasks and professional knowledge within task unfolding**
Aytakin-Kazanç E., IŞIKSAL BOSTAN M.
Journal of Mathematics Teacher Education, vol.27, no.3, pp.521-546, 2024 (SSCI)
- II. **Nurturing Preservice Mathematics Teachers' Reasoning about Measures of Central Tendency and Variability**
Akar N., IŞIKSAL BOSTAN M.
Journal of Experimental Education, 2024 (SSCI)
- III. **How Does Online Professional Development Program Enriched with Collaborative Discussion Develop Teachers' Noticing Skills?**
Tekin-Sitrava R., Özel Z., IŞIKSAL BOSTAN M., Yemen-Karpuzcu S.
International Journal of Science and Mathematics Education, 2024 (SSCI)
- IV. **Engineering-based modelling experiences of elementary gifted students: An example of bridge construction**
Karatas-Aydin F. I., IŞIKSAL BOSTAN M.
Thinking Skills and Creativity, vol.47, 2023 (SSCI)
- V. **Development of Prospective Teachers' Noticing Skills Within Initial Teacher Education**
Tekin-Sitrava R., Kaiser G., IŞIKSAL BOSTAN M.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.20, no.7, pp.1611-1634, 2022 (SSCI)
- VI. **Through Their Eyes: Gifted Students' Views on Integrating History of Mathematics Embedded Videos Into Mathematics Classrooms**

Karatas-Aydin F. I., İŞIKSAL BOSTAN M.

SAGE OPEN, vol.12, no.2, 2022 (SSCI)

- VII. **Types of Global Argumentation Structures in Conjecture-Generation Activities Regarding Geometry**
DEMİRAY E., İŞIKSAL BOSTAN M., SAYGI E.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.20, no.4, pp.839-860, 2022 (SSCI)
- VIII. **Seventh Graders' Statistical Literacy: an Investigation on Bar and Line Graphs**
Çatman Aksoy E., İşıksal Bostan M.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.19, no.2, pp.397-418, 2021 (SSCI)
- IX. **An In-Service Primary Teacher's Responses to Unexpected Moments in the Mathematics Classroom**
COŞKUN S. D., İŞIKSAL BOSTAN M., Rowland T.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.19, no.1, pp.193-213, 2021 (SSCI)
- X. **Sources of preservice teachers' self-efficacy in the context of a mathematics teaching methods course**
Yurekli B., İŞIKSAL BOSTAN M., ÇAKIROĞLU E.
JOURNAL OF EDUCATION FOR TEACHING, vol.46, no.5, pp.631-645, 2020 (SSCI)
- XI. **Prospective Middle School Mathematics Teachers' Global Argumentation Structures**
Erkek O., İşıksal Bostan M.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.17, pp.613-633, 2019 (SSCI)
- XII. **A Different Look at the Reasoning Process of Prospective Middle School Mathematics Teachers: Global Argumentation Structures**
Erkek O., İŞIKSAL BOSTAN M.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.44, no.199, pp.75-101, 2019 (SSCI)
- XIII. **Middle School Students' Reasoning in Nonlinear Proportional Problems in Geometry**
AYAN R., Bostan M.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.16, no.3, pp.503-518, 2018 (SSCI)
- XIV. **Investigating self-efficacy, anxiety, attitudes and mathematics achievement regarding gender and school type**
Recher S., İşıksal Bostan M., Koc Y.
ANALES DE PSICOLOGIA, vol.34, pp.41-51, 2018 (SCI-Expanded)
- XV. **An Investigation of Pre-service Middle School Mathematics Teachers' Ability to Conduct Valid Proofs, Methods Used, and Reasons for Invalid Arguments**
Demiray E., İşıksal Bostan M.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.15, pp.109-130, 2017 (SSCI)
- XVI. **Prospective Middle School Mathematics Teachers' Covariational Reasoning for Interpreting Dynamic Events During Peer Interactions**
Yemen-Karpuzcu S., Ulusoy F., İşıksal Bostan M.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.15, pp.89-108, 2017 (SSCI)
- XVII. **A Longitudinal Study on Mathematics Teaching Efficacy: Which Factors (Un)Support the Development?**
İşıksal Bostan M.
EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.12, pp.2085-2102, 2016 (SSCI)
- XVIII. **Turkish Prospective Middle School Mathematics Teachers' Beliefs and Perceived Self-Efficacy Beliefs Regarding the Use of Origami in Mathematics Education**
Arslan O., İşıksal Bostan M.
EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.12, pp.1533-1548, 2016 (SSCI)
- XIX. **Investigating Effect of Origami-Based Instruction on Elementary Students' Spatial Skills and Perceptions**
Cakmak S., İŞIKSAL BOSTAN M., KOÇ Y.
JOURNAL OF EDUCATIONAL RESEARCH, vol.107, no.1, pp.59-68, 2014 (SSCI)

- XX. **Pre-service Mathematics Teachers' Knowledge of History of Mathematics and Their Attitudes and Beliefs Towards Using History of Mathematics in Mathematics Education**
Alpaslan M., İşıksal Bostan M., Haser Ç.
SCIENCE & EDUCATION, vol.23, pp.159-183, 2014 (SCI-Expanded)
- XXI. **Investigation of Using Online Video Case Discussions in Teacher Education: Sources of Evidence of Mathematics Learning**
Osmanoglu A., Koç Y., İşıksal Bostan M.
KURAM VE UYGULAMADA EGITIM BILIMLERI, vol.13, pp.1295-1303, 2013 (SSCI)
- XXII. **The Development of Belief Scale about Using Origami in Mathematics Education**
Arslan O., İşıksal Bostan M., Şahin E.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.28, pp.44-57, 2013 (SSCI)
- XXIII. **Preservice Mathematics Teachers' Beliefs about the Nature of Teaching and Learning Mathematics**
Kayan R., HASER Ç., İSİKSAL BOSTAN M.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.38, no.167, pp.179-195, 2013 (SSCI)
- XXIV. **Prospective Teachers' Noticing with respect to the Student Roles underlined in the Elementary Mathematics Program: Use of VideoCases**
Osmanoğlu A., İşıksal Bostan M., Koç Y.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.37, pp.336-347, 2012 (SSCI)
- XXV. **A Comparative Study on Undergraduate Students' Academic Motivation and Academic Self-Concept**
İşıksal Bostan M.
SPANISH JOURNAL OF PSYCHOLOGY, vol.13, pp.572-585, 2010 (SSCI)
- XXVI. **The Relationship Among Mathematics Teaching Efficacy, Math Anxiety, and Mathematical Self-Concept: The Case of Turkish Pre-Service Elementary Teachers**
İşıksal Bostan M.
ASIA-PACIFIC EDUCATION RESEARCHER, vol.19, pp.501-514, 2010 (SSCI)
- XXVII. **A Study on Investigating 8th Grade Students' Reasoning Skills on Measurement: The Case of Cylinder**
İşıksal M., KOÇ Y., Osmanoglu A.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.35, no.156, pp.61-70, 2010 (SSCI)
- XXVIII. **A Study on Investigating Eight Grade Students' Reasoning Skills on Measurement: The Case of Cylinder**
İşıksal Bostan M., Koç Y., Osmanoğlu A.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.35, pp.16-25, 2010 (SSCI)
- XXIX. **IN-SERVICE ELEMENTARY SCHOOL TEACHERS' BELIEFS IN SCIENCE TEACHING PRACTICES**
Şahin E., İşıksal Bostan M., Ertepinar H.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, pp.296-306, 2010 (SSCI)
- XXX. **The new Turkish early childhood teacher education curriculum: a brief outlook**
Atay-Turhan T., Koc Y., İŞİKSAL BOSTAN M., İşıksal H.
ASIA PACIFIC EDUCATION REVIEW, vol.10, no.3, pp.345-356, 2009 (SSCI)
- XXXI. **MATHEMATICS ANXIETY AND MATHEMATICAL SELF-CONCEPT: CONSIDERATIONS IN PREPARING ELEMENTARY-SCHOOL TEACHERS**
İŞİKSAL BOSTAN M., Curran J. M., Koc Y., Askun C. S.
SOCIAL BEHAVIOR AND PERSONALITY, vol.37, no.5, pp.631-643, 2009 (SSCI)
- XXXII. **Preservice Elementary Teachers' Attitudes and Self-efficacy Beliefs toward Mathematics**
ÇAKIROĞLU E., İSİKSAL BOSTAN M.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.34, no.151, pp.132-139, 2009 (SSCI)
- XXXIII. **PRESERVICE TEACHERS' KNOWLEDGE OF STUDENTS' COGNITIVE PROCESSES ABOUT THE DIVISION OF FRACTIONS**
İşıksal Bostan M., Çakroğlu E.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION,

- no.35, pp.175-185, 2008 (SSCI)
- XXXIV. **İlköğretim matematik öğretmen adaylarının matematiğe ve matematik öğretimine yönelik yeterlik algıları**
Isıksal Bostan M., Çakıroğlu E.
HACETTEPE UNIVERSİTESİ EĞİTİM FAKULTESİ DERGİSİ-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.31, pp.74-84, 2006 (SSCI)
- XXXV. **The effect of spreadsheet and dynamic geometry software on the achievement and self-efficacy of 7th-grade students**
Isıksal M., Askar P.
EDUCATIONAL RESEARCH, vol.47, no.3, pp.333-350, 2005 (SSCI)
- XXXVI. **The Effect of Spreadsheet and Dynamic Geometry Software on the Achievement and Self Efficacy of Seventh Grade Students**
Isıksal Bostan M., Aşkar P.
Educational Research, vol.47, pp.333-350, 2005 (SSCI)
- XXXVII. **İlköğretim öğrencileri için matematik ve bilgisayar öz yeterlik algısı ölçekleri**
Isıksal Bostan M., Aşkar P.
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi-Hacettepe University Journal Of Education, vol.25, pp.109-118, 2003 (SSCI)

Articles Published in Other Journals

- I. **Fostering students' definitions and images in parallelism and perpendicularity: A paper folding activity**
ÇATMAN AKSOY E., İŞIKSAL BOSTAN M.
European Journal of Science and Mathematics Education, vol.12, no.2, pp.236-257, 2024 (Scopus)
- II. **Middle school mathematics teachers' knowledge of integers**
Canogullari A., İŞIKSAL BOSTAN M.
European Journal of Science and Mathematics Education, vol.12, no.2, pp.312-325, 2024 (Scopus)
- III. **From informal to formal understandings: analysing the development of proportional reasoning and its retention**
Ayan-Civak R., İŞIKSAL BOSTAN M., Yemen-Karpuzcu S.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.55, no.7, pp.1704-1726, 2024 (ESCI)
- IV. **From the knowledge to be taught to the learned knowledge: the quadrilaterals in the 5th-grade**
AKAR N., İŞIKSAL BOSTAN M.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.55, no.3, pp.628-649, 2024 (ESCI)
- V. **Pre-service elementary teachers' noticing expertise of students' mathematical thinking: the case of fractions**
Coskun S. D., SİTRAVA R. T., İŞIKSAL BOSTAN M.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.54, no.6, pp.982-999, 2023 (ESCI)
- VI. **Supporting the development of preservice teachers' mathematical connection skills in a teacher education programme**
Disbudak-Kuru O., İŞIKSAL BOSTAN M.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.54, no.8, pp.1393-1419, 2023 (ESCI)
- VII. **What do teachers consider when they plan and implement science and mathematics integration?**
Tekerek B., Haser Ç., İŞIKSAL BOSTAN M.
International Journal of Mathematical Education in Science and Technology, vol.54, no.10, pp.2046-2070, 2023

(ESCI)

- VIII. **Components of collective argumentation in geometric construction tasks**
DEMİRAY E., İŞIKSAL BOSTAN M., SAYGI E.
TURKISH JOURNAL OF EDUCATION, vol.12, no.1, pp.50-71, 2023 (ESCI)
- IX. **Prospective Teachers' Instructional Responses on the basis of Students' Functional Thinking: The Context of Pattern Generalization**
ÖZEL Z., İŞIKSAL BOSTAN M., TEKİN SİTRAVA R.
INTERNATIONAL JOURNAL OF MATHEMATICS TEACHING AND LEARNING, vol.23, no.2, pp.40-58, 2022 (Peer-Reviewed Journal)
- X. **Investigation of the Specialized Content Knowledge of the Pre-service Primary School Teachers about Multiplication**
Özel Z., Yılmaz A., İşıksal Bostan M., Özkan B.
INTERNATIONAL JOURNAL OF MATHEMATICS TEACHING AND LEARNING, vol.23, pp.115-143, 2022 (Peer-Reviewed Journal)
- XI. **Ortaokul Matematik Öğretmenlerinin Mesleki Fark Etme Becerileri: Dikdörtgenler Prizmasının Hacmine İlişkin Problem Durumu**
DIŞBUDAK KURU Ö., UCUZOĞLU A. N., İŞIKSAL BOSTAN M., YEMEN KARPUZCU S., TEKİN SİTRAVA R.
Mersin Üniversitesi Eğitim Fakültesi Dergisi, vol.18, no.2, pp.154-174, 2022 (Peer-Reviewed Journal)
- XII. **Revealing Implicit Knowledge of Pre-Service Mathematics Teachers in Lesson Planning: Knowledge of Infinity**
SAVURAN R., İŞIKSAL BOSTAN M.
European Journal of Science and Mathematics Education, vol.10, no.3, pp.269-283, 2022 (Scopus)
- XIII. **Pre-Service Teachers' Knowledge Regarding the Area of Triangle**
Durmaz A. B., İŞIKSAL BOSTAN M.
European Journal of Science and Mathematics Education, vol.10, no.2, pp.208-224, 2022 (Scopus)
- XIV. **Supporting Pre-service Mathematics Teachers' Professional Noticing of Students' Reasoning About Length**
Ergene B. C., İŞIKSAL BOSTAN M.
European Journal of Science and Mathematics Education, vol.10, no.1, pp.50-70, 2022 (Scopus)
- XV. **A Case Study on Pre-service Teachers' Question Types within the Context of Teaching Practice Course**
Çaylan B., İşıksal Bostan M.
Muğla Sıtkı Koçman Üniversitesi Eğitim Fakültesi Dergisi, vol.9, no.1, pp.1-20, 2022 (Peer-Reviewed Journal)
- XVI. **Orantısız Akıl Yürütmenin Gelişimine Yönelik Varsayım Dayalı Öğrenme Rotasının Geliştirilmesi (Development of a Hypothetical Learning Trajectory for Enhancing Proportional Reasoning)**
AYAN CİVAK R., İŞIKSAL BOSTAN M., YEMEN KARPUZCU S.
HACETTEPE UNIVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.37, no.1, pp.345-365, 2022 (ESCI)
- XVII. **Comparison of Pre-service Elementary Teachers' Mathematical Knowledge in Teaching for Length Measurement: Turkey and the United States**
Coşkun S., İşıksal Bostan M.
Pedagogical Research, vol.7, pp.1-11, 2022 (Peer-Reviewed Journal)
- XVIII. **Pre-service middle school mathematics teachers' (Mis)conceptions of definitions, classifications, and inclusion relations of quadrilaterals**
Baktemur G., Cıvak R. A., İŞIKSAL BOSTAN M.
European Journal of Science and Mathematics Education, vol.9, no.4, pp.183-198, 2021 (Scopus)
- XIX. **A design based study: Characteristics of differentiated tasks for mathematically gifted students**
Ozdemir D., İŞIKSAL BOSTAN M.
European Journal of Science and Mathematics Education, vol.9, no.3, pp.125-144, 2021 (Scopus)
- XX. **Surprises in the mathematics classroom: Some in-the-moment responses of a primary teacher**
DOĞAN COŞKUN S., İŞIKSAL BOSTAN M., Rowland T.

- Mathematics Teacher Education and Development, vol.23, no.1, pp.91-112, 2021 (Scopus)
- XXI. **Erken Orantısal Akıl Yürütmeye Yönelik Öğrenme Rotasının Geliştirilmesi: Bir Tasarı Araştırması**
AYAN CİVAK R., İSİKSAL BOSTAN M., YEMEN KARPUZCU S.
Mersin Üniversitesi Eğitim Fakültesi Dergisi, vol.17, no.3, pp.433-461, 2021 (Peer-Reviewed Journal)
- XXII. **8. Sınıf Öğrencilerinin Eğitim Kavramına Yönelik Kavrayışları**
AYTEKİN E., acar e., İSİKSAL BOSTAN M.
Cumhuriyet Uluslararası Eğitim Dergisi, vol.10, no.4, pp.1535-1561, 2021 (Peer-Reviewed Journal)
- XXIII. **Mathematically gifted students\2019 differentiated needs: what kind of support do they need?**
Ozdemir D. A., İŞİKSAL BOSTAN M.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.52, no.1, pp.65-83, 2021 (ESCI)
- XXIV. **Implementation of technology enhanced activities for teaching slope in daily life situations**
Yemen Karpuzcu S., İŞİKSAL BOSTAN M.
Elementary Education Online, vol.20, no.1, pp.1-19, 2021 (Scopus)
- XXV. **Adaptation Study of Mathematical Ability Test (TOMAGS) to Turkish**
ÖZDEMİR D., İSİKSAL BOSTAN M.
Bartın Üniversitesi Eğitim Fakültesi Dergisi, vol.10, no.1, pp.200-217, 2021 (Peer-Reviewed Journal)
- XXVI. **Yedinci Sınıf Öğrencilerinin İstatistiksel Süreçlerinin İncelenmesi**
Öz Ö., İsıksal Bostan M.
Inonu University Journal of the Graduate School of Education, no.15, pp.90-112, 2021 (Peer-Reviewed Journal)
- XXVII. **Middle school students' attitudes towards the use of technology in mathematics lessons: does gender make a difference?**
Aytekin E., İşıksal Bostan M.
International Journal of Mathematical Education in Science and Technology, vol.50, no.5, pp.707-727, 2019 (ESCI)
- XXVIII. **An in-service primary teacher's implementation of mathematical tasks: the case of length measurement and perimeter instruction**
COŞKUN S. D., İŞİKSAL BOSTAN M.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.50, no.4, pp.486-505, 2019 (ESCI)
- XXIX. **Middle school students' proportional reasoning in real life contexts in the domain of geometry and measurement**
Ayan R., İşıksal Bostan M.
International Journal of Mathematical Education in Science and Technology, vol.50, no.1, pp.65-81, 2019 (ESCI)
- XXX. **Effect of inquiry-based instruction enriched with origami activities on achievement, and self-efficacy in geometry**
Kandil S., İşıksal-Bostan M.
INTERNATIONAL JOURNAL OF MATHEMATICAL EDUCATION IN SCIENCE AND TECHNOLOGY, vol.50, no.4, pp.557-576, 2019 (ESCI)
- XXXI. **Perceptions of Pre-service Elementary Mathematics Teachers on Their Technological Pedagogical Content Knowledge (TPACK) Regarding Geometry**
Bulut A., İsıksal Bostan M.
Journal of Computers in Mathematics and Science Teaching, vol.38, no.2, pp.153-176, 2019 (Peer-Reviewed Journal)
- XXXII. **Elementary mathematics teachers' professional development: Mathematics coaching İlköğretim matematik öğretmenlerinin mesleki gelişimi: Matematik koçluğu**
AYGÜN B., İşıksal-Bostan M.
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- XXXIII. **The Evaluation of a Pre-Service Mathematics Teacher's TPACK: A Case of 3D Shapes with GeoGebra**
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Metrics

Publication: 220

Citation (WoS): 364

Citation (Scopus): 513

H-Index (WoS): 10

H-Index (Scopus): 12

Non Academic Experience

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