

Prof. PERVİZ SAYAN

Personal Information

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Biography

Prof. Dr. Perviz Sayan 1986 yılında İstanbul Teknik Üniversitesi Kimya Mühendisliği Bölümünden mezun olmuştur. Aynı üniversitede 1989 yılında yüksek lisansını, 1995 yılında doktorasını Kimya Mühendisliği alanında tamamlamıştır. Doktora öncesinde ve sonrasında Almanya'nın Bremen Üniversitesi, Heidelberg Üniversitesi, Karlsruhe Teknik Üniversitesi, Martin Luther Üniversitesi ve Kern Forschung Zentrum'da akademik çalışmalarını sürdürmüştür. 2002 yılında Marmara Üniversitesi Kimya Mühendisliği Bölümünde yardımcı doçent olarak göreve başlamıştır. 2006 yılında Doçent, 2012 yılında da profesör olmuştur. Bu süreç içerisinde Yönetim Kurulu Üyeliği, Fakülte Kurulu Üyeliği, Bölüm Başkan Yardımcılığı ve Bölüm Başkanlığı görevlerini yürütmüştür. Temel işlemler alanında yayımlanmış çok sayıda uluslararası ve ulusal makalesi bulunmaktadır. Kristalizasyon ve Teknolojileri alanında çalışmalarını sürdürmektedir. Evli ve 2 çocuk babasıdır.

Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 1989 - 1995

Postgraduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1987 - 1989

Undergraduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1982 - 1986

Dissertations

Doctorate, Polielektrolitlerin borik asit kristalizasyonuna etkisi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 1995

Postgraduate, Boraks Pentahidrat Kristalizasyonunun İncelenmesi, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, 1989

Research Areas

Chemical Engineering and Technology, Basic Operations and Thermodynamics, Engineering and Technology

Academic Titles / Tasks

Professor, Marmara University, Faculty Of Engineering, Chemical Engineering, 2012 - Continues

Associate Professor, Marmara University, Faculty Of Engineering, Chemical Engineering, 2006 - 2012

Assistant Professor, Marmara University, Faculty Of Engineering, Chemical Engineering, 2002 - 2006

Research Assistant, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, 1988 - 2001

Academic and Administrative Experience

Head of Department, Marmara University, Faculty of Engineering, 2016 - 2019

Marmara University, Faculty of Engineering, Chemical Engineering, 2013 - 2016

Advising Theses

Sayan P., Investigation of behaviours of phase changed crystals in the presence of additives, Doctorate, S.POLAT(Student), 2018

SAYAN P., Sayan P., Experimental investigation of convective drying of green bricks in a laboratory scale tunnel dryer, Postgraduate, S.Özen(Student), 2014

SAYAN P., Sayan P., The production and characterization of magnesium silicate for filter production, Postgraduate, A.Sağlam(Student), 2013

SAYAN P., Sayan P., Investigation of the effect of urine proteins on calcium oxalate crystallization, Postgraduate, B.Kiran(Student), 2009

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

- I. **Effect of Apium graveolens extract on the surface morphology and characteristics of calcium pyrophosphate crystals**
Polat S., Sayan P.
JOURNAL OF CRYSTAL GROWTH, vol.562, 2021 (Journal Indexed in SCI)
- II. **Effects of Tryptophan on the Polymorphic Transformation of Calcium Carbonate: Central Composite Design, Characterization, Kinetics, and Thermodynamics**
Polat S., Ozalp-Sendur T. N. , Sayan P.
ACTA CHIMICA SLOVENICA, vol.68, no.2, pp.414-425, 2021 (Journal Indexed in SCI)
- III. **Precipitation, characterization, and kinetic modeling of calcium carbonate prepared using sodium myristate**
Polat S., Sayan P.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.207, no.11, pp.1579-1590, 2020 (Journal Indexed in SCI)
- IV. **Ultrasonic-assisted eggshell extract-mediated polymorphic transformation of calcium carbonate**
Polat S., Sayan P.
ULTRASONICS SONOCHEMISTRY, vol.66, 2020 (Journal Indexed in SCI)
- V. **Assessment of the thermal pyrolysis characteristics and kinetic parameters of spent coffee waste: a TGA-MS study**
Polat S., Sayan P.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2020 (Journal Indexed in SCI)
- VI. **Preparation, characterization and kinetic evaluation of struvite in various carboxylic acids**
Polat S., Sayan P.
JOURNAL OF CRYSTAL GROWTH, vol.531, 2020 (Journal Indexed in SCI)
- VII. **Effects of Amino Acids on the Crystallization of Calcium Tartrate Tetrahydrate**
POLAT S., Aytan-Goze E., SAYAN P.
ACTA CHIMICA SLOVENICA, vol.67, no.3, pp.842-852, 2020 (Journal Indexed in SCI)
- VIII. **Application of response surface methodology with a Box-Behnken design for struvite precipitation**
Polat S., Sayan P.
ADVANCED POWDER TECHNOLOGY, vol.30, no.10, pp.2396-2407, 2019 (Journal Indexed in SCI)
- IX. **Ultrasonic Irradiation during the Calcium Sulfate Hemihydrate to Dihydrate Transformation Process**
Polat S., Sayan P.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.42, no.7, pp.1466-1474, 2019 (Journal Indexed in SCI)
- X. **An experimental investigation and kinetic-modeling study of the phase transformation behavior of**

glycine in various carboxylic acids

Polat S., Sayan P.

ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, vol.14, 2019 (Journal Indexed in SCI)

- XI. **Effect of ultrasonic irradiation on morphology and polymorphic transformation of glycine**
Polat S., Sayan P.
ULTRASONICS SONOCHEMISTRY, vol.47, pp.17-28, 2018 (Journal Indexed in SCI)
- XII. **Evaluation of solvent-mediated phase transformation of glycine using oleic acid: Morphology and characterization study**
Polat S., Sayan P.
CHINESE JOURNAL OF CHEMICAL ENGINEERING, vol.26, pp.1829-1836, 2018 (Journal Indexed in SCI)
- XIII. **The characterization and polymorphism of alpha-Glycine in the presence of butyric acid**
Polat S., Sayan P.
ADVANCED POWDER TECHNOLOGY, vol.29, pp.1968-1976, 2018 (Journal Indexed in SCI)
- XIV. **Calcium Lactate Pentahydrate Crystallization in the Presence of Pentanoic Acid**
Kiran-Yildirim B., Titiz-Sargut S., Sayan P.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.41, pp.1244-1251, 2018 (Journal Indexed in SCI)
- XV. **Characteristics and Thermal Kinetics of Hydroxyapatite Crystals Doped with Tricarballic Acid**
Polat S., Sayan P.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.41, no.6, pp.1108-1117, 2018 (Journal Indexed in SCI)
- XVI. **Effect of the Amino Acids L-Methionine and D-Threonine on Calcium Lactate Pentahydrate Crystallization**
Kiran-Yildirim B., Titiz-Sargut S., Sayan P.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.41, pp.1252-1258, 2018 (Journal Indexed in SCI)
- XVII. **Effects of L-Serine and L-Proline on Crystallization Kinetics of Calcium Pyrophosphate Dihydrate**
Gençaslan A., Sayan P., Titiz-Sargut S.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.41, no.6, pp.1211-1217, 2018 (Journal Indexed in SCI)
- XVIII. **Assessment of propionic acid adsorption performance on the phase transformation of calcium sulfate hemihydrate to dihydrate**
Polat S., Sayan P.
SEPARATION SCIENCE AND TECHNOLOGY, vol.53, pp.1966-1978, 2018 (Journal Indexed in SCI)
- XIX. **Kinetic analysis and polymorphic phase transformation of glycine in the presence of lauric acid**
Polat S., Sayan P.
JOURNAL OF CRYSTAL GROWTH, vol.481, pp.71-79, 2018 (Journal Indexed in SCI)
- XX. **Impacts of UV Radiation on the Polymorphic Transformation of Glycine to Glycine**
Polat S., Sayan P.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.53, 2018 (Journal Indexed in SCI)
- XXI. **Determination of the Effects of Carboxylic Acids on Calcium Sulfate Dihydrate Crystallization**
POLAT S., SAYAN P.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.40, no.7, pp.1354-1361, 2017 (Journal Indexed in SCI)
- XXII. **Characterization and Kinetics of Calcium Sulfate Dihydrate Crystallization in the Presence of Trimesic Acid**
Polat S., Sayan P.
ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, vol.12, no.3, pp.391-399, 2017 (Journal Indexed in SCI)
- XXIII. **Effects of tricarballic acid on phase transformation of calcium sulfate hemihydrate to the dihydrate form**
Polat S., Sayan P.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.52, 2017 (Journal Indexed in SCI)
- XXIV. **Investigation of calcium sulfate dihydrate crystallization in the presence of glutamic acid in MSMPR crystallizer**
POLAT S., SAYAN P., SARGUT S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.4, pp.1121-

- 1130, 2017 (Journal Indexed in SCI)
- XXV. **Impact of glutamic acid on the transformation of calcium sulfate hemihydrate to dihydrate: Characterization, equilibrium, kinetics, and thermodynamics**
Polat S., Sayan P.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.204, pp.1318-1331, 2017 (Journal Indexed in SCI)
- XXVI. **Experimental investigation of green brick shrinkage behavior with Bigot's curves**
MANÇUHAN E., Ozen S., SAYAN P., SARGUT S.
DRYING TECHNOLOGY, vol.34, no.13, pp.1535-1545, 2016 (Journal Indexed in SCI)
- XXVII. **In-line determination of adsorbed fatty acids on magnesium silicate with conductivity measurement**
Sargut S., Sayan P., Sağlam A., Kiran B.
Fresenius Environmental Bulletin, vol.21, pp.3987-3997, 2012 (Journal Indexed in SCI Expanded)
- XXVIII. **Physical and Adsorptive Characterization of Precipitated Magnesium Silicate from Rice Hull Ash Silica**
Sayan P., Titiz-Sargut S., Ozgul-Yucel S., Kiran B.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.34, pp.1497-1506, 2011 (Journal Indexed in SCI)
- XXIX. **Effect of ultrasonic irradiation on crystallization kinetics of potassium dihydrogen phosphate**
Sayan P., Sargut S., Kiran B.
ULTRASONICS SONOCHEMISTRY, vol.18, pp.795-800, 2011 (Journal Indexed in SCI)
- XXX. **Gypsum Crystallization in the Presence of Cr³⁺ and Citric Acid**
Sargut S., Sayan P., Kiran B.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.33, pp.804-811, 2010 (Journal Indexed in SCI)
- XXXI. **Effect of impurities on the microhardness of borax decahydrate**
Sayan P., Sargut S., Kiran B.
POWDER TECHNOLOGY, vol.197, pp.254-259, 2010 (Journal Indexed in SCI)
- XXXII. **SHEAR STRENGTH MEASUREMENT OF MINERAL FILTER CAKES**
Benli B., Taspinar O., SAYAN P.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.19, no.8, pp.1414-1423, 2010 (Journal Indexed in SCI)
- XXXIII. **Influence of essential and non-essential amino acids on calcium oxalate crystallization**
Sargut S., Sayan P., Kiran B.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.45, no.1, pp.31-38, 2010 (Journal Indexed in SCI)
- XXXIV. **Calcium oxalate crystallization in the presence of amino acids, proteins and carboxylic acids**
Sayan P., Sargut S., Kiran B.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.44, pp.807-817, 2009 (Journal Indexed in SCI)
- XXXV. **Effect of trace metals on reactive crystallization of gypsum**
Sayan P., Titiz-Sargut S., Avci B.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.42, pp.961-970, 2007 (Journal Indexed in SCI)
- XXXVI. **Influence of citric acid on calcium sulfate dihydrate crystallization in aqueous media**
Titiz-Sargut S., Sayan P., Avci B.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.42, no.2, pp.119-126, 2007 (Journal Indexed in SCI)
- XXXVII. **Effect of sodium oleate on the agglomeration of calcium carbonate**
Sayan P.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.40, no.3, pp.226-232, 2005 (Journal Indexed in SCI)
- XXXVIII. **The effect of particle size and suspension density on the measurement of ultrasonic velocity in aqueous solutions**
Sayan P., Ulrich J.
Chemical Engineering And Processing, vol.41, pp.281-287, 2002 (Journal Indexed in SCI)
- XXXIX. **Effect of various impurities on the hardness of NaCl crystals**
Sayan P., Ulrich J.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.36, no.11, pp.1253-1262, 2001 (Journal Indexed in SCI)
- XL. **Effect of various impurities on the metastable zone width of boric acid**
Sayan P., Ulrich J.

- CRYSTAL RESEARCH AND TECHNOLOGY, vol.36, pp.411-417, 2001 (Journal Indexed in SCI)
- XLI. **Application of genetic algorithm for determination of mass transfer coefficients**
Şahin Ö., Sayan P., Bulutcu A. N.
Journal Of Crystal Growth, vol.216, pp.475-482, 2000 (Journal Indexed in SCI)
- XLII. **Growth kinetics of probertite in borax solutions in the presence of crystalline seeds**
Gürbüz H., Eroglu O., Yavaşoğlu N., Sayan P., Bulutcu A. N.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.39, no.2, pp.372-377, 2000 (Journal Indexed in SCI)
- XLIII. **Effect of silica on the crystallization of sodium perborate tetrahydrate**
Yıldız Y., Sayan P., Titiz S., Bulutcu A. N.
Journal Of Crystal Growth, vol.160, pp.370-374, 1996 (Journal Indexed in SCI)
- XLIV. **Scheelite flotation a new scheme using oleoyl sarcosine as collector and alkyl oxine as modifier**
Özcan Ö., Bulutcu A. N., Sayan P., Reçepoğlu O.
International Journal Of Mineral Processing, vol.42, pp.111-120, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Assessment of the effects of acetic, oxalic, and tricarballic acids on struvite crystallization: characterisation and kinetic studies**
POLAT S., GÖRENER N., SAYAN P.
Indian Chemical Engineer, vol.63, no.3, pp.324-337, 2021 (Refereed Journals of Other Institutions)
- II. **Polymorphic Phase Change of Calcium Carbonate with Glutamic Acid as an Additive**
Polat S., Özalp T. N., Sayan P.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.8, no.1, pp.117-124, 2021 (Refereed Journals of Other Institutions)
- III. **In Vitro Study on the Influence of Proline on Struvite Crystals**
Polat S., Sayan P.
Hittite Journal of Science and Engineering, vol.7, no.4, pp.271-277, 2020 (Refereed Journals of Other Institutions)
- IV. **Box-Behnken Experimental Design for Zinc Borate Zn₂B₆O₁₁·7H₂O**
Polat S., Sayan P.
Journal of Boron, vol.5, no.3, pp.152-161, 2020 (Other Refereed National Journals)
- V. **Effect of various metal ions on gypsum precipitation**
POLAT S., SAYAN P.
INDIAN CHEMICAL ENGINEER, 2020 (Journal Indexed in ESCI)
- VI. **Effect of various metal ions on gypsum precipitation**
Polat S., Sayan P.
Indian Chemical Engineer, vol.1, no.1, pp.1-11, 2020 (Refereed Journals of Other Institutions)
- VII. **Hidroksiapatit Kristalizasyonunun Pentanoik Asit Varlığında İncelenmesi**
Sayan P., Polat S., Kara A.
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.2, pp.415-427, 2020 (National Refereed University Journal)
- VIII. **Effects of Mandelic and Propane-1,2,3-Tricarboxylic Acids on Calcium Oxalate Monohydrate Crystallization**
Polat S., Sayan P.
International Journal of Advances in Engineering and Pure Sciences, vol.32, no.1, pp.33-41, 2020 (International Refereed University Journal)
- IX. **Effects of polyelectrolytes on the hardness of borax decahydrate crystals**
Polat S., Sayan P.
Bor Dergisi, vol.4, no.4, pp.172-179, 2019 (Other Refereed National Journals)
- X. **Thermal Characteristics and Kinetic Parameters Assessment of Chitosan**
Polat S., Sayan P.

Eurasian Journal of Biological and Chemical Sciences (Eurasian J. Bio. Chem. Sci.), vol.1, no.2, pp.42-47, 2018
(Refereed Journals of Other Institutions)

- XI. **Growth Kinetics of Calcium Sulfate Dihydrate in the Presence of Oxalic Acid**
Polat S., Sargut S., Sayan P.
Journal of Turkish Chemical Society B Chemical Engineering, vol.1, pp.39-48, 2017 (Refereed Journals of Other Institutions)
- XII. **YAŞ TUĞLA KURUTMA PARAMETRELERİNİN DENEYSEL OLARAK İNCELENMESİ**
MANÇUHAN E., özen s., SAYAN P., SARGUT S., Ciğer G., Özoğul B.
Anadolu University Journal of Science and Technology-A Applied Sciences and Engineering, vol.16, pp.203, 2015
(Refereed Journals of Other Institutions)
- XIII. **Effect of Amino Acids on Magnesium Ammonium Phosphate Hexahydrate Struvite Crystallization**
SARGUT S., SAYAN P., MASUM A., KIRAN B.
Iranian Journal of Chemical Engineering, vol.11, pp.3-18, 2014 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Effects Of Amino Acids On Calcium Carbonate Crystallization**
SAYAN P., POLAT S., ÖZALP-ŞENDUR T. N.
LAP LAMBERT Academic Publishing, 2021
- II. **The Effect of Urine Proteins on Calcium Oxalate Crystallization**
Kıran Yıldırım B., Sayan P., Sargut S.
LAP Lambert academic Publishing, New-York, 2010

Refereed Congress / Symposium Publications in Proceedings

- I. **Kalsiyum Karbonatın Yapısal ve Morfolojik Özelliklerinin Ala-Gly ile Kontrol Edilmesi**
Sayan P., Polat S., Civil M., İlerigiden S.
14. Ulusal Kimya Mühendisliği Kongresi (UKMK2020), Konya, Turkey, 10 - 12 June 2021
- II. **Süksinik Asit Varlığında Struvit Kristalizasyonunun İncelenmesi**
Görener N., Polat S., Sayan P.
14. Ulusal Kimya Mühendisliği Kongresi (UKMK2020), Konya, Turkey, 10 - 12 June 2021, pp.151-0
- III. **Kinetics Analysis for Calcium Carbonate Prepared using Threonine**
ÖZALP T. N. , POLAT S., SAYAN P.
International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Ankara, Turkey, 16 - 18 December 2020, pp.97
- IV. **Optimization of Calcium Carbonate Crystallization in the presence of Threonine Using Response Surface Methodology**
ÖZALP T. N. , POLAT S., SAYAN P.
International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Ankara, Turkey, 16 - 18 December 2020, pp.47
- V. **Glutamik Asit Varlığında Kalsiyum Karbonat Kristalizasyonunun İncelenmesi**
Özalp T. N. , Polat S., Sayan P.
32. Online Ulusal Kimya Kongresi, Eskişehir, Turkey, 17 - 19 September 2020
- VI. **Kalsiyum Karbonatın Polimorfik Faz Dönüşümünün Ultrasonik Etki Varlığında İncelenmesi**
ÖZALP T. N. , POLAT S., SAYAN P.
32. Online Ulusal Kimya Kongresi, Turkey, 17 - 19 September 2020
- VII. **Influence of Serine and Proline on the Crystallization of Paracetamol**
POLAT S., SAYAN P.
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara,

Turkey, 19 - 20 March 2020, pp.45

- VIII. **A TGA/MS Study on Pyrolysis Behavior and Kinetics Assessment of Walnut Shell**
Polat S., Sayan P.
5th International Conference On Advances in Mechanical Engineering: ICAME2019, İstanbul, Turkey, 17 - 19 December 2019
- IX. **Investigation of Paracetamol Crystallization in the Presence of Alanine and Tryptophan**
Polat S., Sayan P.
4 th Porous and Powder Materials Symposium and Exhibitions(PPM2019), Muğla, Turkey, 9 - 11 October 2019, pp.45
- X. **Determination of The Effect of Proline on Struvite Crystallization**
Polat S., Sayan P.
4 th International Porous and Powder Materials Symposium and Exhibitions (PPM2019), Muğla, Turkey, 9 - 11 October 2019, pp.187-191
- XI. **The Influence of Curcumin on Calcium Oxalate Crystallization in Vitro**
Polat S., Sayan P.
4 th International Porous and Powder Materials Symposium and Exhibitions (PPM2019), Muğla, Turkey, 9 - 11 October 2019, pp.192-196
- XII. **Influence of Equisetum arvense extract on calcium oxalate crystallization**
Polat S., Sayan P.
15th International Symposium on Biomineralization, Munich, Germany, 9 - 13 September 2019
- XIII. **Effect of eggshell on polymorphic transformation of calcium carbonate**
Polat S., Sayan P.
15th International Symposium on Biomineralization, Munich, Germany, 9 - 13 September 2019
- XIV. **Oksalik Asidin Struvit Kristalizasyonuna Etkisinin İncelenmesi**
Görener N., Polat S., Sayan P.
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019
- XV. **Kalsiyum Tartarat Kristalizasyonunun Alanin Katkısı Varlığında İncelenmesi**
Göze E., Polat S., Sayan P.
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019
- XVI. **Struvite precipitation assessment in the presence of methionine and serine**
Polat S., Sayan P.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019
- XVII. **Investigation of Aspartic Acid Effect on Calcium Tartrate Crystallization**
Göze E., Polat S., Sayan P.
2nd International Congress On Studies Academic Students, İstanbul, Turkey, 26 - 27 April 2019
- XVIII. **Influence of Acetic Acid on the Crystallization of Struvite**
Görener N., Polat S., Sayan P.
2nd International Congress On Studies Academic Students, İstanbul, Turkey, 26 - 27 April 2019
- XIX. **Effects of Carboxylic Acids on the Metastable Zone Width of Glycine**
POLAT S., SAYAN P.
4th International Congress On Engineering, Architecture And Design, İstanbul, Turkey, 23 - 24 April 2019
- XX. **Effect of Methionine and Tyrosine Amino Acids on Calcium Carbonate Precipitation**
POLAT S., SAYAN P.
4th International Congress On Engineering, Architecture And Design, İstanbul, Turkey, 23 - 24 April 2019
- XXI. **Kinetic Analysis of Thermal Decomposition of Mirabilite Using the Model-Fitting Methods**
Polat S., Sayan P.
4th International Conference on Advances on Mechanical Engineering: ICAME 2018, İstanbul, Turkey, 19 - 21 December 2018
- XXII. **Kinetic modelling of hydroxyapatite crystals in the presence of hydroxypropyl- β -cyclodextrin**
Polat S., Sayan P.

- International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018
- XXIII. **Effects of non-polar amino acids on calcium carbonate crystallization.**
Polat S., Sayan P.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018
- XXIV. **An Investigation into Thermogravimetric Kinetic Behavior of PVC via Thermogravimetric Analyzer**
Polat S., Sayan P.
Uluslararası Katılımlı VII. Polimer Bilim Ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018
- XXV. **Effect of Polyelectrolyte on Glycine Phase Transformation**
Polat S., Sayan P.
Uluslararası Katılımlı VII. Polimer Bilim Ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018
- XXVI. **Influence of ultrasonic irradiation on calcium sulfate hemihydrate to dihydrate transformation process: Evaluation of crystal products**
Polat S., Sayan P.
25th International Workshop on Industrial Crystallization (BIWIC2018), Rouen, France, 6 - 07 September 2018
- XXVII. **Evaluation of myristic acid effect on polymorphic transformation of glycine**
Polat S., Sayan P.
25th International Workshop on Industrial Crystallization (BIWIC2018), Rouen, France, 6 - 07 September 2018
- XXVIII. **Thermal Characteristics and Kinetic Parameters Assessment of Chitosan**
Polat S., Sayan P.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- XXIX. **Influence of Tartaric Acid on Phase Transformation Behavior of Glycine**
Polat S., Sayan P.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- XXX. **Glisinin Polimorfik Faz Dönüşümünün İncelenmesi**
Polat S., Sayan P.
6. Ulusal Biyomühendislik Öğrenci Kongresi, İstanbul, Turkey, 5 - 06 April 2018
- XXXI. **Biyokütlenin TGA'da Termal Bozunma Davranışının ve Kinetiğinin İncelenmesi**
Polat S., Sayan P.
6. Ulusal Biyomühendislik Öğrenci Kongresi, İstanbul, Turkey, 5 - 06 April 2018
- XXXII. **Kanatlı Borulu Bir Kondanserin Modellenmesi, Çalışma Ve Tasarım Parametrelerinin Isı Transferine Etkileri**
MANÇUHAN E., SARGUT S., SAYAN P., MUTLU T., BEŞİKÇİ M. T.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 13 - 16 September 2017
- XXXIII. **Effect of Hydroxypropyl- β -Cyclodextrin on Hydroxyapatite Crystallization**
Kara A., Sayan P., Polat S.
3rd International Conference on Advances on Mechanical Engineering: ICAME 2017, İstanbul, Turkey, 19 - 21 December 2017
- XXXIV. **Assessment of Acetic Acid Effect on Glycine Phase Transformation**
Polat S., Sayan P.
3rd International Conference on Advances on Mechanical Engineering: ICAME 2017, İstanbul, Turkey, 19 - 21 December 2017
- XXXV. **Kanatlı borulu bir kondanserin, çalışma ve tasarım parametrelerinin ısı transferine etkisi**
MANÇUHAN E., SARGUT S., SAYAN P., Mutlu t., BEŞİKÇİ M. T.
21. Ulusal Isı Bilimi ve Tekniği Kongresi (ULIBTK'17), Turkey, 13 - 16 September 2017
- XXXVI. **Crystallization Behaviour of Hydroxyapatite in The Presence of Valeric Acid**
Polat S., Sayan P., Kara A.
The Porous and Powder Materials Symposium and Exhibitions PPM 2017, Aydın, Turkey, 12 - 15 September 2017

- XXXVII. **The Characterization and Polymorphism of α -Glycine in the Presence of Butyric Acid**
Polat S., Sayan P.
The Porous and Powder Materials Symposium and Exhibitions PPM 2017, Aydın, Turkey, 12 - 15 September 2017
- XXXVIII. **The role of tricarballic acid in the crystallization of hydroxyapatite**
Polat S., Sayan P., Kara A.
24th International Workshop on Industrial Crystallization (BIWIC2017), Dortmund, Germany, 29 - 31 August 2017, pp.136-141
- XXXIX. **The Growth Kinetics of Calcium Pyrophosphate Dihydrate in the Presence of Pirolin and Serine Considering Agglomeration and Breakage**
GENÇASLAN A., SAYAN P., SARGUT S.
BIWIC2017, Dortmund, Germany, 29 - 31 August 2017, pp.111-116
- XL. **Influence of propionic acid adsorption on phase transformation of calcium sulfate hemihydrate to the dihydrate**
Polat S., Sayan P.
24th International Workshop on Industrial Crystallization (BIWIC2017), Dortmund, Germany, 29 - 31 August 2017, pp.130-135
- XLI. **Effects of Carboxylic Acids as Additives on Crystallization of Calcium Sulfate Dihydrate**
POLAT S., SARGUT S., SAYAN P.
BIWIC 2016 - 23rd International Workshop on Industrial Crystallization, Magdeburg, Germany, 6 - 08 September 2016
- XLII. **Growth Kinetics of Calcium Sulfate Dihydrate in the Presence of Tartaric Acid**
Polat S., Sargut S., Sayan P.
BIWIC 2016 - 23rd International Workshop on Industrial Crystallization, Magdeburg, Germany, 6 - 08 September 2016
- XLIII. **Effect of carboxylic acids as additives on crystallization of calcium sulfate dihydrate**
POLAT S., SARGUT S., SAYAN P.
BIWIC 2016 23rd International workshop on industrial crystallization, 6 - 08 September 2016
- XLIV. **Propiyonik Asit Varlığında Kalsiyum Sülfat Dihidrat (Jips) Kristalizasyonunun İncelenmesi**
Polat S., Sargut S., Sayan P.
12. Ulusal Kimya Mühendisliği Kongresi UKMK2016, İzmir, Turkey, 23 - 26 August 2016
- XLV. **Oksalik Asidin Kalsiyum Sülfat Dihidrat Karakterizasyonuna Etkisi**
Polat S., Sargut S., Sayan P.
12. Ulusal Kimya Mühendisliği Kongresi UKMK2016, İzmir, Turkey, 23 - 26 August 2016
- XLVI. **Kurutma havası bağıl nem koşullarının kurutma davranışına etkisi**
MANÇUHAN E., SAYAN P., SARGUT S., KAYA S.
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Türkiye, Turkey, 2 - 05 April 2015
- XLVII. **Laboratuvar ölçekli bir tünel kurutucuda yaş tuğla kurutma parametrelerinin incelenmesi.**
MANÇUHAN E., ÖZEN S., SAYAN P., SARGUT S., CİĞER G.
11.Ulusal Kimya Mühendisliği Kongresi, Eskisehir, 2014, Turkey, 2 - 05 September 2014
- XLVIII. **Yaş tuğlalarda kuruma küçülme davranışının Bigot eğrileriyle incelenmesi**
MANÇUHAN E., ÖZEN S., SAYAN P., SARGUT S., ÖZOĞUL B.
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Türkiye, Turkey, 2 - 05 September 2014
- XLIX. **Laboratuvar ölçekli bir kurutucuda yaş tuğla kuruma davranışının deneysel olarak incelenmesi**
MANÇUHAN E., SARGUT S., SAYAN P., ÖZEN S.
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Türkiye., Turkey, 9 - 12 September 2013
- L. **Gypsum Crystallization in the Presence of Cr(III) and Citric Acid**
Sargut S., Sayan P., Kıran B.
16th International Workshop on Industrial Crystallization , Lappeenranta, Finland, 9 - 11 September 2009, pp.287-293

Supported Projects

Sayan P., Aytan-Göze E., Project Supported by Higher Education Institutions, Kalsiyum Tartaratın Çeşitli Safsızlıklar Varlığında Sentezi ve Karakterizasyonu, 2019 - 2021

Sayan P., Polat S., Project Supported by Higher Education Institutions, Polimorfik davranış gösteren kristallerin faz dönüşüm karakteristiklerinin incelenmesi, 2018 - 2019

Sayan P., Kara A., Project Supported by Higher Education Institutions, Çeşitli Safsızlıkların Kalsiyum Fosfat Kristalizasyonuna Etkisi, 2017 - 2018

Sayan P., Polat S., Project Supported by Higher Education Institutions, Katkılar varlığında faz değiştiren kristallerin davranışlarının incelenmesi, 2016 - 2018

Sayan P., Polat S., Sargut S., Project Supported by Higher Education Institutions, Karboksilli Asitlerin Jips Morfolojisine ve Kristal Büyüme Kinetiği Üzerine Olan Etkilerinin İncelenmesi, 2015 - 2017

Sayan P., Sargut S., Kıran Yıldırım B., Project Supported by Higher Education Institutions, 2011 - 2014

Mançuhan E., Sayan P., Sargut S., Alpman E., Kıran B., Project Supported by Higher Education Institutions, Yaş Tuğla Kurutma Proseslerinde Optimum Koşulların Modellenmesi, 2010 - 2013

Sayan P., Sargut S., Yücel S., Kıran B., Project Supported by Higher Education Institutions, Tahıl İşleme Atıklarından Magnezyum Silikat Üretimi Ve Filtre Yapımında Değerlendirilmesi, 2010 - 2012

Sayan P., Sargut S., Kıran B., Project Supported by Higher Education Institutions, Kalsiyum Oksalat Kristalizasyonuna Üriner Proteinlerin Etkisinin İncelenmesi, 2008 - 2009

Citations

Total Citations (WOS):295

h-index (WOS):10