

Prof. Murat Rakap

Personal Information

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Education Information

Undergraduate, Anadolu University, Faculty Of Economics, Department Of Public Administration, Turkey 2020 - Continues

Undergraduate, Anadolu University, Faculty Of Economics, Department Of International Relations, Turkey 2013 - 2018

Doctorate, Middle East Technical University, Fen Bilimleri, Anorganik Kimya, Turkey 2004 - 2011

Postgraduate, Karadeniz Technical University, Fen Bilimleri, Anorganik Kimya, Turkey 2000 - 2002

Undergraduate, Karadeniz Technical University, Fen-Edebiyat , Kimya, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Preparation and characterization of zeolite confined cobalt(0) nanoclusters as catalyst for hydrogen generation from the hydrolysis of sodium borohydride and ammonia borane , Middle East Technical University, Fen Bilimleri, Anorganik Kimya, 2011

Postgraduate, 20-Üyeli Taç Eter Grubu İçeren Simetrik Ftalosiyenin Sentezi ve Karakterizasyonu, Karadeniz Technical University, Fen Bilimleri, Anorganik Kimya, 2002

Research Areas

Chemistry, Chemical Kinetics, Fuel Cells, Inorganic Chemistry, Inorganic Reaction Mechanisms and Kinetics, Catalysis, nanoclusters, Natural Sciences

Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2016 - Continues

Assistant Professor, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2013 - 2016

Research Assistant PhD, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, 2011 - 2013

Other, The Florida State University, College Of Engineering, Department Of Chemical And Biomedical Engineering, 2010 - 2011

Research Assistant, Middle East Technical University, Fen-Edebiyat Fakültesi, Kimya, 2002 - 2011

Research Assistant, Karadeniz Technical University, Fen-Edebiyat, Kimya, 2000 - 2002

Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Van Yüzüncü Yil University, Rektörlük, Rektörlük, 2018 - Continues

Assistant Manager of Research and Application Center, Van Yüzüncü Yil University, Rektörlük, Rektörlük, 2018 - Continues

Kalite Komisyonu Üyesi, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2017 - Continues

Danışma Kurulu Üyesi, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2017 - Continues

Fakülte Yönetim Kurulu Üyesi, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2016 - Continues

Araştırmacı Potansiyelinin Geliştirilmesi Desteği Komisyonu Başkanı, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2015 - Continues

Akademik Teşvik Komisyonu Başkanı, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2015 - Continues

Bilimsel Yayın Komisyonu Başkanı, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2015 - Continues

Eğitim Komisyonu Başkanı, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2015 - Continues

Fakülte Kurulu Üyesi, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2014 - Continues

Head of Department, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2014 - Continues

Head of Department, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği , 2014 - Continues

Muayene ve Kabul Komisyonu Başkanı, Van Yüzüncü Yil University, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2015 - 2021

Courses

Anorganik Kimyada Temel Eğilimler, Postgraduate, 2014 - 2015

Kimyasal Bağlanma ve Moleküler Geometri, Postgraduate, 2014 - 2015

Advising Theses

Rakap M., Poli(N-Vinil-2-Pirrolidon) ile Kararlılaştırılmış Nikel-Rutenyum Nanokümlerinin Sentezi Tanımlanması ve Amonyak Boranın Hidrolizinde Katalizör Olarak Kullanılması, Postgraduate, B.ABAY(Student), 2019

Rakap M., Karboksümetil Selüloz ile Kararlılaştırılmış Nikel-Rodyum Nanokümlerinin Sentezi Tanımlanması ve Hidrazin Boranın Hidrolizinde Katalizör Olarak Kullanılması, Postgraduate, N.TUNÇ(Student), 2019

Jury Memberships

Post Graduate, Post Graduate, Van Yüzüncü Yil Üniversitesi, February, 2021

Doctorate, Doctorate, Van Yüzüncü Yil Üniversitesi, September, 2020

Doctorate, Doctorate, Van Yüzüncü Yil Üniversitesi, August, 2020

Doctoral Examination, Doctoral Examination, Van Yüzüncü Yil Üniversitesi, August, 2020

Doctoral Examination, Doktora Yeterlik Sınavı-Ahmet BULUT, Van Yüzüncü Yil Üniversitesi, December, 2019

Doctoral Examination, Doktora Yeterlik Sınavı-Yaşar KARATAŞ, Van Yüzüncü Yıl Üniversitesi, December, 2019
Doctoral Examination, Doktora Yeterlik Sınavı-Mehmet YURDERİ, Van Yüzüncü Yıl Üniversitesi, December, 2019
Appointment Academic Staff, Dr. Ömer SÖNER'in Dr. Öğr. Üyeliğine Atanması, Van Yüzüncü Yıl Üniversitesi, November, 2019
Post Graduate, H. Fikret BARANSEL, Van Yüzüncü Yıl Üniversitesi, August, 2019
Post Graduate, Alper YILDIRIM, Van Yüzüncü Yıl Üniversitesi, August, 2019
Doctorate, Kadir KARAKAŞ, Van Yüzüncü Yıl Üniversitesi, January, 2019
Academic Staff Examination, Araştırma Görevlisi Alım Sınavı-İsmail KARACA, Van Yüzüncü Yıl Üniversitesi, January, 2019
Appointment Academic Staff, Dr. Beyza CABİR'in Dr. Öğr. Üyeliğine Atanması, Van Yüzüncü Yıl Üniversitesi, May, 2018
Doctorate, Doktora Tez Savunması-Melike SEVİM YILMAZ, Atatürk Üniversitesi, February, 2018
Doctoral Examination, Doktora Yeterlik Sınavı-İbtihel ZAIER, Atatürk Üniversitesi, February, 2018
Post Graduate, Yüksek Lisans Tez Savunması-İsmail Burak BAĞUÇ, Yüzüncü Yıl Üniversitesi, December, 2017
Doctorate, Doktora Tez Savunması-İlknur EFECAN ERTAŞ, Yüzüncü Yıl Üniversitesi, September, 2017
Post Graduate, Yüksek Lisans Tez Savunması-Zekeriya BALLI, Yüzüncü Yıl Üniversitesi, July, 2017
Doctoral Examination, Doktora Yeterlik Sınavı-Mehmet Salih KESKİN, Yüzüncü Yıl Üniversitesi, January, 2017
Post Graduate, Yüksek Lisans Tez Savunması-Ahmet BULUT, Yüzüncü Yıl Üniversitesi, September, 2016
Post Graduate, Yüksek Lisans Tez Savunması-Mehmet YURDERİ, Yüzüncü Yıl Üniversitesi, September, 2016
Post Graduate, Yüksek Lisans Tez Savunması-Suzan GÜNKUT, Yüzüncü Yıl Üniversitesi, May, 2016
Post Graduate, Yüksek Lisans Tez Savunması-Nihayet KONUŞ, Yüzüncü Yıl Üniversitesi, October, 2015
Post Graduate, Yüksek Lisans Tez Savunması-Ceyhun KARATAŞ, Yüzüncü Yıl Üniversitesi, September, 2015
Post Graduate, Yüksek Lisans Tez Savunması-Esra EKER, Osmaniye Korkutata Üniversitesi, April, 2015
Post Graduate, Yüksek Lisans Tez Savunması-Yaşar KARATAŞ, Yüzüncü Yıl Üniversitesi, September, 2014
Post Graduate, Yüksek Lisans Tez Savunması-Emrah DEDE, Yüzüncü Yıl Üniversitesi, July, 2014

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

- I. **Hydrogen generation from ammonia borane by NiRu nanoparticles catalysts**
Abay B., Rakap M.
INORGANIC AND NANO-METAL CHEMISTRY, vol.51, no.9, pp.1177-1185, 2021 (Journal Indexed in SCI Expanded)
- II. **Surfactant-aided synthesis of RhCo nanoclusters as highly effective and recyclable catalysts for the hydrolysis of methylamine borane and dimethylamine borane**
Tunç N., Rakap M.
Catalysis Science & Technology, vol.10, pp.7865-7874, 2020 (Journal Indexed in SCI)
- III. **Rh-M (M: Co, Cu, Fe) nanoclusters as highly efficient and durable catalysts for the methanolysis of ammonia borane**
Abay B., Rakap M.
Catalysis Science & Technology, vol.10, pp.7270-7279, 2020 (Journal Indexed in SCI Expanded)
- IV. **Eco-Friendly Synthesis of Carboxymethyl Cellulose-Stabilized Ru_{0.57}Co_{0.43} Nanoclusters as Extremely Efficient and Durable Catalysts for Hydrolytic Dehydrogenation of Methylamine Borane**
Abay B., Rakap M.
ACS Sustainable Chemistry & Engineering, vol.8, pp.16197-16204, 2020 (Journal Indexed in SCI Expanded)
- V. **Nickel-rhodium nanoparticles as active and durable catalysts for hydrogen liberation**
Tunç N., Rakap M.
INORGANIC AND NANO-METAL CHEMISTRY, vol.50, pp.665-673, 2020 (Journal Indexed in SCI)
- VI. **Preparation and characterization of Ni-M (M: Ru, Rh, Pd) nanoclusters as efficient catalysts for hydrogen evolution from ammonia borane methanolysis**
Tunç N., Rakap M.
RENEWABLE ENERGY, vol.155, pp.1222-1230, 2020 (Journal Indexed in SCI Expanded)
- VII. **Synthesis and characterization of bimetallic cobalt-rhodium nanoclusters as effective catalysts to produce hydrogen from ammonia borane hydrolysis**

- Rakap M.
Renewable Energy, vol.154, pp.1076-1082, 2020 (Journal Indexed in SCI Expanded)
- VIII. **Catalytic hydrolysis of hydrazine borane to release hydrogen by cobalt-ruthenium nanoclusters**
Rakap M.
International Journal Of Hydrogen Energy, vol.45, no.1, pp.15611-15617, 2020 (Journal Indexed in SCI)
- IX. **Hydrolysis of ammonia borane and hydrazine borane by poly(N-vinyl-2-pyrrolidone)-stabilized CoPd nanoparticles for chemical hydrogen storage**
Rakap M., Abay B., Tunc N.
TURKISH JOURNAL OF CHEMISTRY, vol.41, no.2, pp.221-232, 2017 (Journal Indexed in SCI)
- X. **Hydrogen generation from hydrolytic dehydrogenation of hydrazine borane by poly(N-vinyl-2-pyrrolidone)-stabilized palladium nanoparticles**
TUNC N., ABAY B., Rakap M.
JOURNAL OF POWER SOURCES, vol.299, pp.403-407, 2015 (Journal Indexed in SCI)
- XI. **PVP-stabilized Ru-Rh nanoparticles as highly efficient catalysts for hydrogen generation from hydrolysis of ammonia borane**
Rakap M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.649, pp.1025-1030, 2015 (Journal Indexed in SCI)
- XII. **Poly(N-vinyl-2-pyrrolidone)-stabilized palladium-platinum nanoparticles-catalyzed hydrolysis of ammonia borane for hydrogen generation**
Rakap M.
JOURNAL OF POWER SOURCES, vol.276, pp.320-327, 2015 (Journal Indexed in SCI)
- XIII. **The highest catalytic activity in the hydrolysis of ammonia borane by poly(N-vinyl-2-pyrrolidone)-protected palladium-rhodium nanoparticles for hydrogen generation**
Rakap M.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.163, pp.129-134, 2015 (Journal Indexed in SCI)
- XIV. **Hydrolysis of Sodium Borohydride and Ammonia Borane for Hydrogen Generation Using Highly Efficient Poly(N-Vinyl-2-Pyrrolidone)-Stabilized Ru-Pd Nanoparticles as Catalysts**
Rakap M.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.12, no.12, pp.1288-1300, 2015 (Journal Indexed in SCI)
- XV. **Hydrogen generation from the hydrolytic dehydrogenation of ammonia borane using electrolessly deposited cobalt-phosphorus as reusable and cost-effective catalyst**
Rakap M.
JOURNAL OF POWER SOURCES, vol.265, pp.50-56, 2014 (Journal Indexed in SCI)
- XVI. **Hydrogen generation from hydrolysis of ammonia borane in the presence of highly efficient poly(N-vinyl-2-pyrrolidone)-protected platinum-ruthenium nanoparticles**
Rakap M.
APPLIED CATALYSIS A-GENERAL, vol.478, pp.15-20, 2014 (Journal Indexed in SCI)
- XVII. **Hydrogen generation from hydrolysis of ammonia-borane using Pd-PVB-TiO₂ and Co-Ni-P/Pd-TiO₂ under stirred conditions**
Rakap M., KALU E. E., ÖZKAR S.
JOURNAL OF POWER SOURCES, vol.210, pp.184-190, 2012 (Journal Indexed in SCI)
- XVIII. **Hydroxyapatite-supported cobalt(0) nanoclusters as efficient and cost-effective catalyst for hydrogen generation from the hydrolysis of both sodium borohydride and ammonia-borane**
Rakap M., ÖZKAR S.
CATALYSIS TODAY, vol.183, no.1, pp.17-25, 2012 (Journal Indexed in SCI)
- XIX. **Cobalt-nickel-phosphorus supported on Pd-activated TiO₂ (Co-Ni-P/Pd-TiO₂) as cost-effective and reusable catalyst for hydrogen generation from hydrolysis of alkaline sodium borohydride solution**
Rakap M., KALU E. E., ÖZKAR S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.25, pp.7016-7021, 2011 (Journal Indexed in SCI)
- XX. **Hydroxyapatite-supported palladium(0) nanoclusters as effective and reusable catalyst for hydrogen generation from the hydrolysis of ammonia-borane**

- Rakap M., ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.12, pp.7019-7027, 2011 (Journal Indexed in SCI)
- XXI. **Polymer-immobilized palladium supported on TiO₂ (Pd-PVB-TiO₂) as highly active and reusable catalyst for hydrogen generation from the hydrolysis of unstirred ammonia-borane solution**
Rakap M., KALU E. E. , ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.2, pp.1448-1455, 2011 (Journal Indexed in SCI)
- XXII. **Hydrogen generation from the hydrolysis of ammonia borane using cobalt-nickel-phosphorus (Co-Ni-P) catalyst supported on Pd-activated TiO₂ by electroless deposition**
Rakap M., KALU E. E. , ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.1, pp.254-261, 2011 (Journal Indexed in SCI)
- XXIII. **Room temperature aerobic Suzuki cross-coupling reactions in DMF/water mixture using zeolite confined palladium(0) nanoclusters as efficient and recyclable catalyst**
Durap F., Rakap M., Aydemir M., ÖZKAR S.
APPLIED CATALYSIS A-GENERAL, vol.382, no.2, pp.339-344, 2010 (Journal Indexed in SCI)
- XXIV. **Hydrogen generation from the hydrolysis of ammonia-borane using intrazeolite cobalt(0) nanoclusters catalyst**
Rakap M., Özkar S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.8, pp.3341-3346, 2010 (Journal Indexed in SCI)
- XXV. **Zeolite confined palladium(0) nanoclusters as effective and reusable catalyst for hydrogen generation from the hydrolysis of ammonia-borane**
Rakap M., ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.3, pp.1305-1312, 2010 (Journal Indexed in SCI)
- XXVI. **Intrazeolite cobalt(0) nanoclusters as low-cost and reusable catalyst for hydrogen generation from the hydrolysis of sodium borohydride**
Rakap M., ÖZKAR S.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.91, pp.21-29, 2009 (Journal Indexed in SCI)
- XXVII. **The synthesis and characterization of new metal-free and metallo phthalocyanines substituted with four dithiatetraoxa macrocyclic moieties**
KANTEKIN H., Rakap M., MISIR M. N. , GOEK H. Z. , ACAR I.
JOURNAL OF COORDINATION CHEMISTRY, vol.60, no.18, pp.1965-1972, 2007 (Journal Indexed in SCI)
- XXVIII. **Synthesis and characterization of new metal-free and phthalocyanine nickel(II) complex containing macrocyclic moieties**
KANTEKIN H., Rakap M., GOK Y., SAHINBAS H. Z.
DYES AND PIGMENTS, vol.74, no.1, pp.21-25, 2007 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Okul Öncesi Dönemde Kimyaya ilişkin Farkındalık**
Kivrak A., Rakap M.
in: Erken Çocuklukta Fen Eğitimi, Rakap A. P., Editor, Eğiten Kitap, Ankara, pp.89-115, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Hydrogen Generation from Hydrolysis of Hydrazine Borane by Poly(N-vinyl-2-pyrrolidone)-stabilized CoRu Nanoparticles**
Rakap M., TUNÇ N.
3.International Academic Studies Conference, Antalya, Turkey, 14 - 16 October 2019, pp.168-169
- II. **CoRh Nanoparticles as Efficient Catalysts for Hydrogen Generation from Hydrolysis of Ammonia Borane**

- Rakap M., ABAY B.
3. International Academic Studies Conference, Antalya, Turkey, 14 - 16 October 2019, pp.158-159
- III. **Rodyum-Nikel Nanokümelerinin Sentezi, Tanımlanması ve Hidrazin Boranın Hidrolizinde Katalizör Olarak Kullanımı**
Rakap M., TUNÇ N.
7. Ulusal Anorganik Kimya Kongresi, Çorum, Turkey, 19 - 22 June 2019, pp.49
- IV. **Amonyak Boranın Hidrolizinde Etkin Katalizörler Olarak Nikel-Rutenyum Nanokümleri**
Rakap M., ABAY B.
7. Ulusal Anorganik Kimya Kongresi, Çorum, Turkey, 19 - 22 June 2019, pp.51
- V. **Hydrolysis of Hydrazine Borane by PVP-Stabilized CoNiRh Nanoparticles for Hydrogen Generation**
Rakap M., ABAY B.
5th International Renewable Energy and Environment Conference (IREEC-2016), Madrid, Spain, 11 - 13 July 2016, pp.54
- VI. **Hydrolysis of Ammonia Borane Catalyzed by PVP-Stabilized Cobalt-Palladium Nanoparticles for Hydrogen Generation**
Rakap M., TUNC N.
2nd International Conference on Engineering and Natural Science (ICENS 2016), Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.1
- VII. **PVP-Stabilized Cobalt-Palladium Nanoparticles-Catalyzed Hydrolysis of Hydrazine Borane for Hydrogen Release**
Rakap M., ABAY B.
2nd International Conference on Engineering and Natural Science (ICENS 2016), Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.1
- VIII. **CoRh Nanoparticles: Synthesis, Characterization, Their Use as Catalyst in the Hydrolysis of Hydrazine Borane**
ABAY B., TUNC N., Rakap M.
NCC6-The 6th Catalysis Conference, Bursa, Turkey, 27 - 30 April 2016, pp.104
- IX. **Hydrogen Generation from Ammonia Borane Hydrolysis Catalyzed by CoPd Nanoparticles**
TUNC N., ABAY B., Rakap M.
NCC6-The 6th Catalysis Conference, Bursa, Turkey, 27 - 30 April 2016, pp.116
- X. **Hydrogen Generation from Ammonia Borane by PVP-Protected Ruthenium-Rhodium Nanoparticles**
Rakap M.
International Conference on Engineering and Natural Science (ICENS 2015), Skopje, Macedonia, 15 - 19 May 2015, pp.1
- XI. **Karboksümetil Selüloz ile Kararlılaştırılmış Nikel-Rodyum Nanokümelerinin Sentezi, Tanımlanması ve Amonyak Boranın Hidrolizinde Katalizör Olarak Kullanılması**
ABAY B., Rakap M.
V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015, pp.1
- XII. **Amonyak Boranın Hidrolizinde Bilinen En Etkin Katalizör: PVP ile Kararlılaştırılmış Palladyum-Rodyum Nanokümleri**
Rakap M.
V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015, pp.1
- XIII. **PVP ile Kararlılaştırılmış Rodyum Nanokümelerinin Sentezi, Tanımlanması ve Hidrazin Boranın Hidrolizinde Katalizör Olarak Kullanılması**
TUNC N., Rakap M.
V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015, pp.1
- XIV. **Electroless Deposition of Low-Cost Reusable Transition Metal Active Catalyst on Oxide Supports for Hydrogen Generation from Hydrides**
Anderson S., Deravil L., Rakap M., Kalu E. E. , Onyeozili E.
2014 ECS and SMEQ Joint International Meeting (ECS 226th Meeting), Cancun, Mexico, 5 - 09 October 2014, pp.1
- XV. **Hydroxyapatite-Supported Palladium(0) Nanoclusters as Active and Reusable Catalyst for Hydrogen**

Generation from the Hydrolysis of Ammonia-Borane

Rakap M., ÖZKAR S.

Energy Challenges for Advanced Materials and Processes: Harvesting, Storage, and Efficient Utilization (EnCAMP-2011), Nevşehir, Turkey, 25 - 29 May 2011, pp.1

XVI. Hidroksiapatit Üzerine Tutturulmuş Palladyum(0) Nanokümelerinin Hazırlanması, Tanımlanması ve Amonyak Boranın Hidrolizindeki Katalitik Etkinliğinin İncelenmesi

Rakap M., ÖZKAR S.

III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011, pp.1

XVII. İntrazeolit Palladyum(0) Nanokümelerinin Suzuki Tepkimelerindeki Katalitik Etkinliği

DURAP F., Rakap M., AYDEMİR M., BAYSAL A., ÖZKAR S.

24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.1

XVIII. İntrazeolit Kobalt(0) Nanokümleri: Hazırlanması, Tanımlanması ve Sodyum Borhidürün Hidrolizindeki Katalitik Etkinliğinin İncelenmesi

Rakap M., ÖZKAR S.

II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.1

Supported Projects

Rakap M., Project Supported by Higher Education Institutions, Nikel Bazlı Alaşım Tipi Bimetalik Nanokümelerin Sentezi Tanımlanması ve Katalitik Etkinliklerinin İncelenmesi, 2019 - 2020

Zahmakran M., Kanberoğlu G. S. , YURDERİ M., BULUT A., Çelebi M., Rakap M., BAĞUÇ İ. B. , Project Supported by Higher Education Institutions, Amin-Boranların Katalitik Dehidroketlenme Tepkimeleri; Yakıt Hücreli Uygulamaları ve Yüksek Moleküler Ağırlıklı [BNHx]y Endüstriyel Polimerlerin Geliştirilmesi, 2019 - 2020

Rakap M., Project Supported by Higher Education Institutions, Alaşım Tipi Nikel-Palladyum Bimetalik Nanokümelerinin Sentezi, Tanımlanması ve Amonyak Boranın Hidrolizindeki Katalitik Etkinliğinin İncelenmesi, 2019 - 2019

Rakap M., TUNÇ N., Project Supported by Higher Education Institutions, Karboksimetil Selüloz ile Kararlılaştırılmış Nikel-Rodyum Nanokümelerinin Sentezi Tanımlanması ve Hidrazin Boranın Hidrolizinde Katalizör Olarak Kullanılması, 2018 - 2019

Rakap M., ABAY B., Project Supported by Higher Education Institutions, Poli(N-Vinil-2-Pirrolidon) ile Kararlılaştırılmış Nikel-Rutenyum Nanokümelerinin Sentezi Tanımlanması ve Amonyak Boranın Hidrolizinde Katalizör Olarak Kullanılması, 2018 - 2019

Rakap M., Project Supported by Higher Education Institutions, Amonyak Boran ve Hidrazin Boranın Metanolizi İçin Etkin Katalizörlerin Geliştirilmesi, 2017 - 2019

Rakap M., Project Supported by Higher Education Institutions, Rutenyum-Platin Nanokümelerinin Sentezi, Tanımlanması ve Amonyak Boranın Metanolizinde Katalizör Olarak Kullanılması, 2018 - 2018

Rakap M., Project Supported by Higher Education Institutions, CoRh Nanokümleri Katalizörlüğünde Amonyak Boranın Hidrolizinden Hidrojen Eldesi, 2017 - 2018

Rakap M., Project Supported by Higher Education Institutions, NiRh Nanokümelerinin Sentezi ve Amonyak Boranın Hidrolizinde Katalizör Olarak Kullanılması, 2016 - 2017

Rakap M., Project Supported by Higher Education Institutions, Hidrazin Boranın Hidrolizini Katalizleyecek PVP ile Kararlılaştırılmış Co-M (M=Palladyum, Rutenyum, Rodyum)Nanokümelerinin Sentezi, Tanımlanması ve Katalitik Etkinliklerinin İncelenmesi, 2014 - 2016

Rakap M., Project Supported by Higher Education Institutions, PVP ile Kararlılaştırılmış Rodyum ve Alaşım Tipi Rodyum-M (M: Rutenyum, Palladyum, Platin) Nanokümelerinin Sentezi, Tanımlanması ve Amonyak Boranın Hidrolizinde Katalizör Olarak Kullanılması, 2013 - 2014

Memberships / Tasks in Scientific Organizations

Türkiye Kimya Derneği, Member, 2015 - Continues

American Chemical Society, Member, 2015 - 2015

Materials Research Society, Member, 2015 - 2015

Scientific Refereeing

JOURNAL OF POWER SOURCES, SCI Journal, February 2021

RENEWABLE ENERGY, SCI Journal, February 2021

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2021

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, January 2021

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2nd International Conference on Engineering and Natural Science (ICENS 2016), Attendee, Sarajevo, Bosnia And Herzegovina, 2016
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V. Ulusal Anorganik Kimya Kongresi, Attendee, Mersin, Turkey, 2015
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III. Ulusal Anorganik Kimya Kongresi, Attendee, Çanakkale, Turkey, 2011
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