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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: F-5898-2018

ScopusID: 6603345523

Yoksis Araştırmacı ID: 22989

Eğitim Bilgileri

Doktora, Ohio State University, Amerika Birleşik Devletleri 1994 - 1999

Yüksek Lisans, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI), Türkiye 1990 - 1992

Lisans, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1985 - 1989

Yaptığı Tezler

Doktora, Synthesis, characterization and reactivity of Organorhodium complexes, Ohio State University, 1999

Yüksek Lisans, Sol-Jel prosesiyle metal alkolatların kelat ligandlarla kompleksleştirilmesi, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI), 1992

Araştırma Alanları

Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2015 - Devam Ediyor

Akademik İdari Deneyim

Bölüm Başkanı, Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2020 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. Sol Gel obtained Ti/Co/Mn oxides doped with 5wt% CuO for the photocatalytic removal of organic azo dyes from wastewater
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- II. **Advanced biopolymer-based Ti/Si-terephthalate hybrid materials for sustainable and efficient adsorption of the tetracycline antibiotic**
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- III. **A Study on Tailoring Silver Release from Micro-Arc Oxidation Coating Fabricated on Titanium**
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ADVANCED ENGINEERING MATERIALS, 2024 (SCI-Expanded)
- IV. **Eco-friendly novel adsorbents composed of hybrid compounds for efficient adsorption of methylene blue and Congo red dyes: Kinetic and thermodynamic studies**
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- V. **Polyhedral Oligomeric Silsesquioxane and Polyorganosilicon Hybrid Materials and Their Usage in the Removal of Methylene Blue Dye**
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- VI. **Adsorption of murexide dye from aqueous solution using a novel Schiff base tin(IV) compound**
Bozbaş S., Yıldız Aras B. C., Karabulut M., Kayan A.
Desalination and Water Treatment, cilt.261, ss.256-265, 2022 (SCI-Expanded)
- VII. **Composite of Natural Polymers and Their Adsorbent Properties on the Dyes and Heavy Metal Ions**
Kayan G. O., KAYAN A.
JOURNAL OF POLYMERS AND THE ENVIRONMENT, cilt.29, sa.11, ss.3477-3496, 2021 (SCI-Expanded)
- VIII. **Inorganic-Organic Hybrid Materials of Zirconium and Aluminum and Their Usage in the Removal of Methylene Blue**
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JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.31, sa.8, ss.3613-3623, 2021 (SCI-Expanded)
- IX. **Ti(IV)-silyliminophenolate catalysts for ϵ -caprolactone and L-Lactide polymerization**
Yildiz B. C., Kayan A.
Sustainable Chemistry and Pharmacy, cilt.21, ss.100416, 2021 (SCI-Expanded)
- X. **Non-Toxic and Environmentally Friendly Titanium Complexes and Their Effects on epsilon-Caprolactone Polymerization**
Yildiz Aras B. C., Kayan A.
CATALYSIS SURVEYS FROM ASIA, cilt.24, sa.4, ss.313-324, 2020 (SCI-Expanded)
- XI. **Recent Studies on Single Site Metal Alkoxide Complexes as Catalysts for Ring Opening Polymerization of Cyclic Compounds**
Kayan A.
Catalysis Surveys from Asia, cilt.24, sa.2, ss.87-103, 2020 (SCI-Expanded)
- XII. **Copolymerization reactions of butadiene monoxide with 3-glycidyloxypropyltrimethoxysilane and styrene oxide and their glycol derivatives**
KAYAN A.
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- XIII. **Inorganic-organic hybrid materials and their adsorbent properties**
KAYAN A.
ADVANCED COMPOSITES AND HYBRID MATERIALS, cilt.2, sa.1, ss.34-45, 2019 (SCI-Expanded)
- XIV. **Multivariate optimization for removal of some heavy metals using novel inorganic-organic hybrid and calcined materials**
Cerrahoglu E., Kayan A., Bingöl D.
SEPARATION SCIENCE AND TECHNOLOGY, cilt.53, ss.2563-2572, 2018 (SCI-Expanded)
- XV. **Synthesis of novel single site tin porphyrin complexes and the catalytic activity of tin tetrakis(4-**

fluorophenyl) porphyrin over epsilon-caprolactone

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- XVI. **New Inorganic-Organic Hybrid Materials and Their Oxides for Removal of Heavy Metal Ions: Response Surface Methodology Approach**
Cerrahoglu E., Kayan A., Bingöl D.
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- XVII. **Preparation of single-site tin(IV) compounds and their use in the polymerization of epsilon-caprolactone**
Yildiz B. C., KAYAN A.
DESIGNED MONOMERS AND POLYMERS, cilt.20, ss.89-96, 2017 (SCI-Expanded)
- XVIII. **Functionalized Hybrid Coatings on ABS Surfaces by PLD and Dip Coatings**
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- XIX. **Synthesis, Characterization, and Application of Hybrid Inorganic-Organic Composites (K/Na)ZrSi(R)O-x**
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- XX. **Preparation, Characterization and Application of Hybrid Materials Having Multifunctional Properties**
Kayan A.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.25, sa.6, ss.1345-1352, 2015 (SCI-Expanded)
- XXI. **Synthesis of poly(styrene oxide) with different molecular weights using tin catalysts**
Kayan A.
DESIGNED MONOMERS AND POLYMERS, cilt.18, sa.6, ss.545-549, 2015 (SCI-Expanded)
- XXII. **Synthesis and characterization of substituted salicylate zirconium compounds and their catalytic activity over epsilon-caprolactone**
MERT O., KAYAN A.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, cilt.80, ss.409-416, 2014 (SCI-Expanded)
- XXIII. **Preparation of L-Lactide/3-Glycidyoxypropyltrimethoxysilane Copolymeric Materials with Various Catalysts**
KAYAN A., MERT O.
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- XXIV. **Novel tyrosine-containing inorganic-organic hybrid adsorbent in removal of heavy metal ions**
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- XXV. **Novel inorganic-organic hybrid polymers to remove heavy metals from aqueous solution**
Bozbas S., Ay Ü., KAYAN A.
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- XXVI. **Synthesis of silyliminophenolate zirconium compounds and their catalytic activity over lactide/epoxide**
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APPLIED CATALYSIS A-GENERAL, cilt.464, ss.322-331, 2013 (SCI-Expanded)
- XXVII. **Preparation, Characterization and Application of Inorganic-Organic Hybrid Polymers, Poly-GPTS/M(CL)(x)O(OH)**
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- XXVIII. **Synthesis and characterization of Zr, Ti, Al-phthalate and pyridine-2-carboxylate compounds and their use in ring opening polymerization**
Yalcin G., KAYAN A.
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- XXIX. **Preparation of Al, Ti, Zr-perfluoroheptanoate compounds and their use in ring opening polymerization**
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- XXX. **Polymerization of 3-glycidylxypropyltrimethoxysilane with different catalysts**
Kayan A.
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- XXXI. **Ring-opening polymerization of isopropylglycidyl ether (IPGE) with new catalysts of Ti, Sn, Al-alkoxides and comparison of its reactivity**
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- XXXII. **Solvent effect on complexation of titanium tetraethoxide with allylacetate**
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- XXXIII. **Effects of different amount of As₂O₃ and TiO₂ on the chemical, physical and electrical properties of the base material MnO₂**
ESMER K., Kadiroglu U., TARCAN E., KAYAN A.
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- XXXIV. **Complexation of titanium alkoxides with pentenoic acid and allylacetate and their hydrolysis and addition reactions with H-silanes**
Kayan A., Hoebbel D., Schmidt H.
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.95, sa.4, ss.790-796, 2005 (SCI-Expanded)
- XXXV. **Complexation of zirconium alkoxides with 3-pentenoic acid and hydrolytic stability of their products**
Bulut G., Mercanci E., Kayan A.
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- XXXVI. **Electrical and dielectrical properties of the MnO₂ doped with As₂O₃ and SnO**
KAYAN A., TARCAN E., Kadiroglu U., ESMER K.
MATERIALS LETTERS, cilt.58, sa.16, ss.2170-2174, 2004 (SCI-Expanded)
- XXXVII. **Complexation of titanium alkoxides with Cw-2-butene-1,4-diol and hydrolysis of their products**
KAYAN A.
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- XXXVIII. **Complexation of titanium alkoxides with cis-2-butene-1,4-diol and hydrolysis of their products**
Kayan A.
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- XXXIX. **Oxidative addition reactions of Rh(SbPh₃)(3)(CO)X (X = Cl, Br) with organic phenyl-substituted propargyl compounds. Rhodium(III) phenylpropargyl products and their conversion to rhodiacyclic complexes**
Kayan A., Wojcicki A.
INORGANICA CHIMICA ACTA, cilt.319, ss.187-193, 2001 (SCI-Expanded)
- XL. **Reactions of Rh(SbPh₃)(3)(CO)X (X = Cl, Pr) with organic propargyl compounds. Synthesis, structure and reactivity of rhodiacyclopent-3-ene-2-one complexes**
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- XLI. **An unusual reaction of Rh(SbPh₃)(3)(CO)Cl with propargyl halides: the formation of rhodiacyclopent-3-ene-2-one complexes**

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Diğer Dergilerde Yayınlanan Makaleler

- I. **Zirconium Complexes Bearing Methyl/^tButyl Salicylate and Their Catalytic Activity on ϵ -Caprolactone**
Uzun G., Kayan A.
REACTIONS, cilt.5, sa.3, ss.594-606, 2024 (ESCI)
- II. **Polycaprolactone Composites/Blends and Their Applications Especially in Water Treatment**
Kayan G. Ö., Kayan A.
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- III. **Synthesis and characterization of Ti-/Zr-diphenylpropanedione complexes and their application in the ring opening polymerization of ϵ -caprolactone**
Gökcalp Y., Kayan A.
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- IV. **Preparation and characterization of TAMP/TIMP-Ti and Zr compounds and their catalytic activity over propylene oxide and ϵ -caprolactone**
Kayan A.
Journal of the Turkish Chemical Society, Section A: Chemistry, cilt.4, sa.1, ss.59-80, 2017 (Hakemli Dergi)
- V. **Synthesis and Theoretical Study of Zinc II and Nickel II Complexes of 5 Methoxyisatin 3 N 4 chlorophenyl thiosemicarbazone**
Kandemirli F., Saraçoğlu M., Yalçın G., Ebenso E., Arslan T., Kayan A.
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- VI. **Spectroscopic Investigation on the Reactions of Tin and Titanium Alkoxides with 3-Pentenoic Acid**
Kayan A.
The Open macromolecules journal, cilt.2, ss.38-42, 2008 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **ZIRCONIUM TEREPHTHALATE/CELLULOSE CONTAINING HYBRID MATERIALS AND THEIR USE IN METHYLENE BLUE REMOVAL**
Demirci V. G., Baig M. T., Kayan A.
15. Ulusal 3. Uluslararası Çevre Mühendisliği Kongresi, Ankara, Türkiye, 23 - 25 Kasım 2023, ss.1-6
- II. **Poli(Diizobütül Glikolid)-Bazlı Nanoteranostik Sistemler: Kanser Tedavisi ve Teşhisinde İlerlemenin Umut Verici Bir Yolu**
Arıcan M. O., Koldankaya T., DURUKSU G., MERT S., Sezer H. A., YILDIZ U., KAYAN A., MERT O.
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Türkiye, 04 Eylül 2023
- III. **Zirkonyum Propoksit ve Zirkonyum Bütoksit'in Sübstitüe Salisilik Asit ile Tepkimesi ve Katalizör Etkisi**
Uzun G., Yıldız B. C., Kayan A.
32. Ulusal Kimya Kongresi, Eskişehir, Türkiye, 17 - 19 Eylül 2020
- IV. **Synthesis and characterization of newly synthesized schiff base ligand and study adsorption of Murexide dye**
KARAYÜNLÜ BOZBAŞ S., YILDIZ B. C., Karabulut M., KAYAN A.
4th ITWCCST, 7 - 10 Eylül 2018
- V. **Synthesis and characterization of newly synthesized schiff base ligand and study adsorption of Murexide dye**
KARAYÜNLÜ BOZBAŞ S., YILDIZ B. C., karabulut m., KAYAN A.

4th ITWCCST, 7 - 10 Eylül 2018

- VI. **Multivariate Optimization for Removal of Cu(II) and Pb(II) from Aqueous Solutions Using Synthesized Hybrid and Calcined Materials**
Cerrahoğlu Kaçakgil E., Kayan A., Bingöl D.
8th Black Sea Basin Conference on Analytical Chemistry, İstanbul, Türkiye, 9 - 11 Mayıs 2018
- VII. **SYNTHESIS OF TIN(IV) A-BENZOIN OXIME COMPOUNDS AND THEIR CATALYTIC ACTIVITY OVER POLYMERIZATION OF ϵ -CAPROLACTONE**
YILDIZ B. C., KAYAN A.
Ancon 2017 INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE 5-7 October, 2017/Ankara-TURKEY, 5 - 07 Kasım 2017
- VIII. **Synthesis of Tin(IV) α -Benzoin Oxime Compounds and Their Catalytic Activity over Polymerization of ϵ -Caprolactone**
YILDIZ B. C., KAYAN A.
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- IX. **SYNTHESIS OF NEW MATERIALS OF TIN(IV) COMPOUNDS and THEIR CATALYTIC ACTIVITY OVER POLYMERIZATION OF ϵ -CAPROLACTONE**
YILDIZ B. C., KAYAN A.
16TH EPF EUROPEAN POLYMER CONGRESS, 2 - 07 Temmuz 2017
- X. **SYNTHESIS OF NEW MATERIALS OF TIN(IV) COMPOUNDS and THEIR CATALYTIC ACTIVITY OVER POLYMERIZATION OF ϵ -CAPROLACTONE**
YILDIZ B. C., KAYAN A.
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- XI. **Nanoformulations of Novel Boron Based Polyesters for Use in Drug Delivery Systems**
Arıcan M. O., Aybüke H. K., Duruksu G., Yıldız U., Kayan A., Mert O.
4th International BAU Drug Design Congress, İstanbul, Türkiye, 13 - 15 Ekim 2016
- XII. **Synthesis of Poly isobutyl methyl glycolide and Poly isobutyl ethyl glycolide Polymers for Use In Drug Delivery Systems**
MERT O., vardar a., arıcan m. o., YILDIZ U., KAYAN A.
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- XIII. **New and Effective Material for Removal of Murexide Dye from Aqueous Solution**
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- XIV. **New and Effective Material for Removal of Murexide Dye from Aqueous Solution**
YILDIZ B. C., Karabulut M., KARAYÜNLÜ BOZBAŞ S., KAYAN A.
10th Aegean Analytical Chemistry Days, 29 Eylül - 02 Ekim 2016
- XV. **Optimization of methylene blue removal on a new hybrid material by box Behnken design**
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- XVI. **OPTIMIZATION OF METHYLENE BLUE REMOVAL ON A NEW HYBRID MATERIAL BY BOX BEHNKEN DESIGN**
CERRAHOĞLU E., KAYAN A., BİNGÖL D.
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- XVII. **Optimization of Methylene Blue Removal on a New Hybrid Material by Box Behnken Design**
CERRAHOĞLU E., KAYAN A., BİNGÖL D.
10th Aegean Analytical Chemistry Days, 29 Eylül - 02 Ekim 2016
- XVIII. **New and effective tin catalyst and its catalytic activity over polymerization of caprolactone**
YILDIZ B. C., KAYAN A.
28. ulusal kimya kongresi, Türkiye, 15 - 21 Ağustos 2016
- XIX. **New and effective tin catalyst and its catalytic activity over polymerization of caprolactone**
YILDIZ B. C., KAYAN A.
28. Ulusal Kimya Kongresi, Mersin, Türkiye, 15 - 21 Ağustos 2016

- XX. **Synthesis and Characterization of a New Class of Boron Based Asymmetric Poly Substituted Glycolides for Biomedical Applications**
Vardar A., Arıcan M. O., YILDIZ U., KAYAN A., MERT O.
46th IUPAC World Polymer Congress (MACRO 2016), 17 - 21 Temmuz 2016
- XXI. **Synthesis and characterization of new class of boron based asymmetric poly substituted glycolides for biomedical applications**
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- XXII. **Syntheses and nanoformulations of novel boron based poly diisobutyl glycolide homopolymers and their copolymers with lactide for drug delivery systems**
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- XXIII. **syntheses and nanoformulations of novel boron based poly diisobutyl glycolide homopolymers and their copolymers with lactide for drug delivery systems**
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- XXV. **NOVEL INORGANIC ORGANIC HYBRID ADSORBENT FOR REMOVAL OF SOME HEAVY METAL ION**
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- XXVI. **Novel Inorganic Organic Hybrid Adsorbent for Removal of Some Heavy Metal Ions**
Cerrahoğlu E., Kayan A., Bingöl D.
Third International Conference on New Trends in Chemometrics and Applications, Antalya, Türkiye, 25 - 28 Mayıs 2016
- XXVII. **NaOSiMe₃ BAĞLANMIŞ YENİ BİR ORGANİK İNORGANİK HİBRİT MATERYALİN METAL ADSORPSİYON ÖZELLİKLERİNİN YANIT YÜZEY METODU YAKLAŞIMI İLE İNCELENMESİ**
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- XXVIII. **NaOSiMe₃ BAĞLANMIŞ YENİ BİR ORGANİK İNORGANİK HİBRİT MATERYALİN METAL ADSORPSİYON ÖZELLİKLERİNİN YANIT YÜZEY METODU YAKLAŞIMI İLE İNCELENMESİ**
CERRAHOĞLU E., KAYAN A., BİNGÖL D.
IV Eser Analiz Kongresi, ESAn2016, Türkiye, 19 - 21 Mayıs 2016
- XXIX. **Ring opening polymerizations of epoxide GPTS and lactide with the catalysts of silyliminophenolate based zirconium compound**
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- XXX. **Ring opening polymerizations of epoxide GPTS and lactide with the catalysts of silyliminophenolate based zirconium compounds**
MERT O., KAYAN A.
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- XXXI. **Synthesis of new and effective catalysts of Sn and their catalytic activity over polymerization of caprolactone**
Yıldız B. c., KAYAN A.
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- XXXII. **Synthesis of new and effective catalysts of Sn and their catalytic activity over polymerization of caprolactone**
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XXXIII. Syntheses and Characterizations of Poly Diethyl Glycolide Polymers

MEHMET ONUR A., KAYAN A., YILDIZ U., MERT O.

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XXXIV. Yeni Bor Bazlı Biyomalzemelerin Sentezleri ve İlaç Sistemlerinde Uygulamaları

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XXXV. Sn SİMPH ve Sn SAMPH Bileşiklerinin Sentezlenmesi ve Katalitik Etkisinin İncelenmesi

YILDIZ B. C., KAYAN A.

V. Ulusal Anorganik Kimya Kongresi, Türkiye, 22 - 25 Nisan 2015

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BOZ Y., KARAYÜNLÜ BOZBAŞ S., AY Ü., KAYAN A.

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XXXVIII. Energy storage performance of metal allyl acetoacetate complex

Kayiran S., KAYAN A., Lamari F., Weinberger B., Farhat S.

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XXXIX. Synthesis and reactions of unsaturated ligands containing Al and Zr alkoxide precursors

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Diğer Yayınlar

I. Spectroscopic investigation on the reactions of tin and titanium alkoxides with 3-pentenoic acid

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Metrikler

Yayın: 89

Atıf (WoS): 651

Atıf (Scopus): 692

H-İndeks (WoS): 16

H-İndeks (Scopus): 17

Akademi Dışı Deneyim

Dr. Saadettin Hacıevliyagil