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Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1985 - 1991

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1983 - 1985

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1979 - 1983

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Synthesis, stereochemistry and reactivity of diimine-carbonylmetal (o) complexes of 6B elements, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1991

Postgraduate, Synthesis and dynamic stereochemistry of 1,2-bis(dimethylphosphino)ethanedicarbonyldienetungste (0) complexes, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1985

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2004 - Continues
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1995 - 2004

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, 1993 - 1995

Academic and Administrative Experience

Middle East Technical University, Faculty of Arts and Sciences, 2015 - Continues

Middle East Technical University, Faculty of Arts and Sciences, 2016 - 2017

Courses

Genel Kimya II, Undergraduate, 2020 - 2021

Genel Kimya, Undergraduate, 2020 - 2021

Advising Theses

HACALOĞLU J., KAYRAN İŞÇİ C., Poly(lactic acid) blends, composites and fibers and direct pyrolysis mass spectrometry for nanoclay composites, Doctorate, E.ÖZDEMİR(Student), 2017

KAYRAN İŞÇİ C., HACALOĞLU J., Synthesis and characterization of metal functional polybenzoxazines /, Doctorate, T.LEKESİZ(Student), 2014

KAYRAN İŞÇİ C., HACALOĞLU J., The effect of inorganic composites on the thermal degradation of Poly(methylmetacrylate) (PMMA), Postgraduate, M.Karabulut(Student), 2011

HACALOĞLU J., KAYRAN İŞÇİ C., The effect of inorganic composites on the thermal degradation of polymethylmetacrylate (PMMA), Postgraduate, M.KARABULUT(Student), 2011

KAYRAN İŞÇİ C., HACALOĞLU J., Nano structural metal composites: Synthesis, structural and thermal characterization, Postgraduate, T.ORHAN(Student), 2009

KAYRAN İŞÇİ C., HACALOĞLU J., Thermal characterization of phenol and bisphenol a based polybenzoxazines, Postgraduate, S.BAGHERİFAM(Student), 2009

KAYRAN İŞÇİ C., Nano structural metal composites: Synthesis, structural and thermal characterization, Postgraduate, K.KALELİ(Student), 2008

HACALOĞLU J., KAYRAN İŞÇİ C., Thermal characterization of homopolymers, copolymers and metal functional copolymers of vinylpyridines, Postgraduate, A.ELMACI(Student), 2008

ÖZKAR S., KAYRAN İŞÇİ C., Synthesis and characterization of tetracarbonylpyrazinetrimethylphosphitetungsten(0) complexes, Postgraduate, F.ALPER(Student), 2004

KAYRAN İŞÇİ C., The Synthesis and characterization of pentacarbonyl (pyrazine) metal (metal:chromium, molybdenum, tungsten), Postgraduate, E.NALBANT(Student), 2001

KAYRAN İŞÇİ C., Substitution kinetics of (norbornadiene) in tetracarbonyl (norbornadiene) molybdenum (o) by 2,2'-bipyridine, Postgraduate, E.(KARAKURT)(Student), 1998

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ege Üniversitesi, April, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Preparation and thermal characterization of poly(2-vinylpyridine) copolymers coordinated to Cr nanoparticles**
Lekesiz T. O., Kayran C., HACALOĞLU J.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.26, no.6, pp.555-560, 2015 (SCI-Expanded)
- II. **Preparation and characterization of polystyrene-b-poly(2-vinylpyridine) coordinated to metal or metal ion nanoparticles**
Lekesiz T. O., Kaleli K., UYAR T., KAYRAN İŞÇİ C., HACALOĞLU J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.106, pp.81-85, 2014 (SCI-Expanded)
- III. **Thermal decomposition of polystyrene-b-poly(2-vinylpyridine) coordinated to co nanoparticles**

Elmaci A., Hacaloğlu J., Kayran C., Sakellariou G., Hadjichristidis N.

POLYMER DEGRADATION AND STABILITY, vol.94, no.11, pp.2023-2027, 2009 (SCI-Expanded)

- IV. **Characterization of humic materials extracted from hazelnut husk and hazelnut husk amended soils**
Cimen F., Ok S. S., Kayran C., Demirci S., Ozenc D. B., Ozenc N.
BIODEGRADATION, vol.18, no.3, pp.295-301, 2007 (SCI-Expanded)
- V. **A stable carbonyl-pyrazine-metal(0) complex: Synthesis and characterization of cis-tetracarbonylpyrazinetrimethylphosphitetungsten(0)**
Alper F., Kayran C., Ozkar S.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.691, no.12, pp.2734-2738, 2006 (SCI-Expanded)
- VI. **Pentacarbonyl(2-ferrocenylpyridine)metal(0) complexes of Group 6 elements. Synthesis and characterization**
Yaman G., Kayran C., Ozkar S.
TRANSITION METAL CHEMISTRY, vol.30, no.1, pp.53-57, 2005 (SCI-Expanded)
- VII. **Activation parameters in flash photolysis studies of Mo(CO)₆**
Kayran C., Richards M., Ford P.
INORGANICA CHIMICA ACTA, vol.357, no.1, pp.143-148, 2004 (SCI-Expanded)
- VIII. **Pentacarbonyl(eta(2)-vinylferrocene)metal(0) complexes of Group 6 elements: synthesis and characterization**
Ozkar S., Kayran C., Demir N.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.688, no.1-2, pp.62-67, 2003 (SCI-Expanded)
- IX. **Photo-induced chromiumcarbonyl catalyzed hydrosilylation of conjugated dienes with triethylsilane: The solvent effect**
Kayran C., Ozkar S., Akhmedov V.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.58, no.7, pp.644-648, 2003 (SCI-Expanded)
- X. **Spectroelectrochemical investigation of pentacarbonyl(pyrazine)metal(0) (metal = Cr, Mo, W) complexes of group 6 elements**
Yaman S., Esenturk E., Kayran C., Onal A.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.57, no.1, pp.92-98, 2002 (SCI-Expanded)
- XI. **Dissociative CO photosubstitution in M(CO)₄(1,4-diazabutadiene) complexes (M = V, Mo) by an olefin affording novel fac-M(CO)₃(1,4-diazabutadiene)(eta(2)-olefin) derivatives**
Grevels F., Kerpen K., Klotzbucher W., Schaffner K., Goddard R., Weimann B., Kayran C., Ozkar S.
ORGANOMETALLICS, vol.20, no.23, pp.4775-4792, 2001 (SCI-Expanded)
- XII. **Thermal catalytic hydrosilylation of conjugated dienes with triethylsilane in the presence of tricarbonyl(o-xylene)metal (metal = Cr, Mo, W) complexes**
Kayran C., Rouzi P.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.56, no.11, pp.1138-1142, 2001 (SCI-Expanded)
- XIII. **Kinetics of the substitution of norbornadiene in tetracarbonyl(norbornadiene)molybdenum(0) by 2,2'-3-bipyridine**
Kayran C., Okan E.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.56, no.3, pp.281-286, 2001 (SCI-Expanded)
- XIV. **Ligand substitution kinetics in M(CO)₄(eta(2 : 2)-1,5-cyclooctadiene) complexes (M = Cr, Mo, W) - substitution of 1,5-cyclooctadiene by bis(diphenylphosphino)alkanes**
Kayran C., Kozanoglu F., Ozkar S., Saldamli S., Tekkaya A., Kreiter C.
INORGANICA CHIMICA ACTA, vol.284, no.2, pp.229-236, 1999 (SCI-Expanded)
- XV. **Photocatalytic hydrosilylation of conjugated dienes with triethylsilane in the presence of Cr(CO)₅L(L=CO, P(CH₃)₃, P(OCH₃)₃)**
Ozkar S., Akhmedov V., Kayran C.

- JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.533, no.1-2, pp.103-108, 1997 (SCI-Expanded)
- XVI. **Displacement kinetics of 1,5-cyclooctadiene from $M(CO)_4(\eta(2:2)-1,5\text{-cyclooctadiene})$ ($M=Cr, Mo, W$) by bis(diphenylphosphino)alkane**
Kayran C., Okan E., Ozkar S., Ozturk O., Saldamli S., Tekkaya A., Kreiter C.
PURE AND APPLIED CHEMISTRY, vol.69, no.1, pp.193-198, 1997 (SCI-Expanded)
- XVII. **Chelate ring-closure kinetics of $Cr(CO)_5$ (DPPM) studied by P-31-NMR spectroscopy**
Ozkar S., Kayran C., Tekkaya A.
TURKISH JOURNAL OF CHEMISTRY, vol.20, no.1, pp.74-79, 1996 (SCI-Expanded)
- XVIII. **RETARDATION EFFECT OF TRIMETHYL PHOSPHITE ON CHELATE RING-CLOSURE OF 2,2'-BIPYRIDINE (BIPY) IN CIS-[$W(CO)_4(P(OME)_3)-(BIPY)$]**
KAYRAN C., OZKAR S., SULTAN W.
JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS, no.15, pp.2239, 1994 (SCI-Expanded)
- XIX. **PENTACARBONYL(1,4-DIISOPROPYL-1,4-DIAZABUTADIENE)CHROMIUM - ISOLATION AND REACTIVITY OF THE MONODENTATE INTERMEDIATE EN-ROUTE TO $Cr(CO)_4(IPROP-DAB)$ CHELATE RING-CLOSURE**
GREVELS F., KAYRAN C., OZKAR S.
ORGANOMETALLICS, vol.13, no.8, pp.2937-2943, 1994 (SCI-Expanded)
- XX. **DISPLACEMENT KINETICS OF 1,5-CYCLOOCTADIENE FROM $MO(CO)_4(\eta(2-2)-1,5\text{-CYCLOOCTADIENE})$ BY BIS(DIPHENYLPHOSPHINO)METHANE**
TEKKAYA A., KAYRAN C., OZKAR S., KREITER C.
INORGANIC CHEMISTRY, vol.33, no.11, pp.2439-2443, 1994 (SCI-Expanded)
- XXI. **HINDERED LIGAND MOVEMENTS IN TRANSITION-METAL COMPLEXES DECARBONYL ($\eta(4\text{-DIENE})$) TUNGSTEN(0)**
OZKAR S., KAYRAN C., KREITER C.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.434, no.1, pp.79-87, 1992 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Probing the neutral and radical transient species of $Mo(CO)_6$ with alkyl halide using flash photolysis.**

Richards M., Diz E., Kayran C., Ford P.

226th National Meeting of the American-Chemical-Society, New York, United States Of America, 7 - 11 September 2003, vol.226

Supported Projects

KAYRAN İŞÇİ C., Project Supported by Higher Education Institutions, Organometalik Polimerler Kullanılarak Nanoyapılı Metal Kompozitlerin Elde Edilmesi: Yapıların Tayini Ve Isıl Karakterizasyonu, 2009 - Continues

YILMAZ A., AKMAN P., GÖKAĞAÇ ARSLAN G., ÇORUH N., NALBANT ESENTÜRK E., KAYRAN İŞÇİ C., PERSİL ÇETİNKOL Ö., Project Supported by Higher Education Institutions, Lüminesan MCM-41 Mezogözenekli Silika Nanoparçacıklarına Selekoksib Yükleme Çalışmaları: İlaç Yükleme ve Bırakma Özellikleri, 2018 - 2019

GÖKAĞAÇ ARSLAN G., YILMAZ A., ÇORUH N., NALBANT ESENTÜRK E., KAYRAN İŞÇİ C., PERSİL ÇETİNKOL Ö., Project Supported by Higher Education Institutions, Değişik destek maddeleri kullanılarak yeni katalizörlerin hazırlanması, 2017 - 2017

ÖZKAR S., GÖKAĞAÇ ARSLAN G., AKBAYRAK S., YILMAZ A., NALBANT ESENTÜRK E., KAYRAN İŞÇİ C., Project Supported by Higher Education Institutions, Serya destekli rutenyum nanokümleri: Sentezi, tanımlanması ve amonyak boranın hdirolizinden hidrojen üretiminde katalitik etkinliğinin incelenmesi, 2016 - 2016

ÖZKAR S., GÖKAĞAÇ ARSLAN G., YILMAZ A., NALBANT ESENTÜRK E., KAYRAN İŞÇİ C., Project Supported by Higher Education Institutions, Hidrojen Üretiminde Formik Asidin Dehidrojenlenmesini Katalizleyecek Metal Nanokümlerinin

Hazırlanması, Tanımlanması ve Katalitik Performanslarının İncelenmesi, 2015 - 2015

YILMAZ A., GÖKAĞAÇ ARSLAN G., NALBANT ESENTÜRK E., KAYRAN İŞÇİ C., Project Supported by Higher Education Institutions, Biyomedikal Amaçla Kullanılabilecek Anorganik Nanoparçacıkların Yüzey Aktifleme Çalışmaları ve Bunların Fizikokimyasal Karakterizasyonları, 2014 - 2014

KAYRAN İŞÇİ C., Project Supported by Higher Education Institutions, Organometalik Polimerler Kullanılarak Nanoyapılı Metal Kompozitlerin Elde Edilmesi;yapılarının Tayini Ve Isıl Karakterizasyonu, 2010 - 2010

Metrics

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H-Index (Scopus): 8