

Prof. KERİM SERBEST

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 2114

Education Information

Doctorate, Karadeniz Technical University, -, Kimya, Turkey 1999 - 2003

Postgraduate, Karadeniz Technical University, -, Kimya, Turkey 1996 - 1999

Dissertations

Doctorate, YENİ BİR SİKLİK DİESTER, İMİDATLARI, BAKIR(II) KOMPLEKSLERİNİN SENTEZİ VE KARAKTERİZASYONU, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, 2003

Postgraduate, YENİ BİR TETRAOKSİM LİGANDININ DİNÜKLEER, TETRAOKSİM GEÇİŞ METAL KOMPLEKSLERİNİN SENTEZİ VE KARAKTERİZASYONU, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Kimya, 1999

Research Areas

Chemistry, Inorganic Chemistry, Bioinorganic Chemistry, Coordination Chemistry, Organometallic Chemistry, Novel Ligands, Natural Sciences

Academic Titles / Tasks

Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2012 - Continues

Academic and Administrative Experience

Recep Tayyip Erdogan University, Fen Edebiyat Fak., Kimya Bölümü, 2012 - Continues

University Executive Board Member, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2017 - 2018

Recep Tayyip Erdogan University, 2014 - 2017

Recep Tayyip Erdogan University, Teknik Bilimler Myo, Kimya Ve Kimyasal İşleme Teknolojileri, 2014 - 2017

Recep Tayyip Erdogan University, Teknik Bilimler Myo, 2014 - 2017

Recep Tayyip Erdogan University, Fen Edebiyat Fak., 2012 - 2015

Member of the Senate, Recep Tayyip Erdogan University, 2012 - 2014

Recep Tayyip Erdogan University, Fen Edebiyat Fak., Kimya Bölümü, 2012 - 2014

Recep Tayyip Erdogan University, 2008 - 2011

Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, 2007 - 2011

Recep Tayyip Erdogan University, Fen Edebiyat Fak., Kimya Bölümü, 2005 - 2010

Courses

İş Sağlığı ve Güvenliği-I, Undergraduate, 2019 - 2020

Anorganik Kimya-II, Undergraduate, 2019 - 2020

Koordinasyon Kimyasına Giriş, Undergraduate, 2020 - 2021

Uzmanlık Alan Dersi II, Doctorate, 2019 - 2020

Dönem Projesi, Undergraduate, 2020 - 2021

Uzmanlık Alan Dersi I, Postgraduate, 2020 - 2021

Anorganik Tepkime Mekanizmalarına Giriş, Undergraduate, 2019 - 2020

Doktora Tezi, Doctorate, 2019 - 2020

İş Sağlığı ve Güvenliği-I, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Binuclear Cu(II), Ni(II) and Zn(II) complexes of hydrazone Schiff bases: Synthesis, spectroscopy, DFT calculations, and SOD mimetic activity**
Zengin A., Serbest K., Emirik M., Özil M., Mentese E., Faiz Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1278, 2023 (SCI-Expanded)
- II. **Ternary Transition Metal Complexes with an Azo-Imine Ligand and 2,2 '-Bipyridine: Characterization, Computational Calculations, and Acetylcholinesterase Inhibition Activities**
SERBEST K., DURAL T., KIZIL D., EMİRİK M., ZENGİN A., DİNÇER B.
ACTA CHIMICA SLOVENICA, vol.69, no.3, pp.604-618, 2022 (SCI-Expanded)
- III. **Heteroligand bivalent transition metal complexes with an azo-oxime ligand and 1,10-phenanthroline: Synthesis, spectroscopy, thermal analysis, DFT calculations and SOD-mimetic activities**
SERBEST K., DURAL T., EMİRİK M., ZENGİN A., FAİZ Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1229, 2021 (SCI-Expanded)
- IV. **Mononuclear Cu(II) complex of an oxime ligand derived from N-Heterocyclic hydrazide: Synthesis, spectroscopy, electrochemistry, DFT calculations and catecholase activity**
ZENGİN A., KARAOĞLU K., EMİRİK M., MENTESE E., Serbest K.
JOURNAL OF MOLECULAR STRUCTURE, vol.1193, pp.444-449, 2019 (SCI-Expanded)
- V. **Oxime derivative unsymmetrical azine, its Ni(II), Cu(II) and Zn(II) complexes: Synthesis, spectroscopy and catecholase activity**
Serbest K., GOKTEKİN O., KARAOĞLU K., ZENGİN A., Coruh U.
HETEROATOM CHEMISTRY, vol.29, no.4, 2018 (SCI-Expanded)
- VI. **Synthesis, in vitro DNA interactions, cytotoxicities, antioxidative activities, and topoisomerase inhibition potentials of Mn(II), Co(II), Ni(II), Cu(II), and Zn(II) complexes with azo-oxime ligands**
Ayvaz M., Turan I., Dural B., DEMİR S., KARAOĞLU K., ALİYAZICIOĞLU Y., Serbest K.
TURKISH JOURNAL OF CHEMISTRY, vol.41, no.5, pp.728-747, 2017 (SCI-Expanded)
- VII. **Acetate bridged dinuclear Cu(II) complexes with ferrocene based benzimidazol ligands: Synthesis, spectroscopy, electrochemistry, DFT calculations and catecholase activity**
KARAOĞLU K., EMİRİK M., MENTESE E., ZENGİN A., Serbest K.
POLYHEDRON, vol.111, pp.109-117, 2016 (SCI-Expanded)
- VIII. **Ferrocenyl-substituted dinuclear Cu(II) complex: Synthesis, spectroscopy, electrochemistry, DFT calculations and catecholase activity**
EMİRİK M., KARAOĞLU K., Serbest K., MENTESE E., Yılmaz İ.
JOURNAL OF MOLECULAR STRUCTURE, vol.1106, pp.331-342, 2016 (SCI-Expanded)

- IX. **Spectroscopic, electrochemical, theoretical characterization and biological evaluation of a ferrocenyl-substituted unsymmetric azine ligand and its Cu(II) complex**
ÖZEL A., KARAOĞLU K., SERBEST K., Gurcan N., EMIRIK M., Coruh U.
JOURNAL OF COORDINATION CHEMISTRY, vol.69, no.10, pp.1587-1601, 2016 (SCI-Expanded)
- X. **Two novel unsymmetrical ferrocene based azines and their complexing abilities towards Cu(II): Spectroscopy, crystal structure, electrochemistry and DFT calculations**
EMİRİK M., KARAOĞLU K., SERBEST K., Coruh U., VAZQUEZ LOPEZ E. M.
POLYHEDRON, vol.88, pp.182-189, 2015 (SCI-Expanded)
- XI. **An unsymmetrical ferrocene based azine and its Cu(II) complex: Spectroscopy, crystal structure, electrochemistry and DFT calculations**
Karaoglu K., Serbest K., Emirik M., ŞAHİN E.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.775, pp.80-87, 2015 (SCI-Expanded)
- XII. **Studies on synthesis, structure, and DNA cleaving of homo-dinuclear Mn(II), Cu(II), Ni(II), and Zn(II) complexes with a heterocycle-based macrocyclic Schiff base**
Baran T., Karaoglu K., Serbest K., AGIR H., Sandalli C., DEĞİRMENCİOĞLU İ.
MONATSHEFTE FÜR CHEMIE, vol.144, no.8, pp.1107-1115, 2013 (SCI-Expanded)
- XIII. **Synthesis and spectroscopic studies of homo-binuclear, alkoxo bridged homo- and hetero-tetranuclear metal complexes of a bis-N2O4 Schiff base ligand derived from ethanolamine and macrocyclic tetranaphthaldehyde**
KARAOĞLU K., BARAN T., DEĞİRMENCİOĞLU İ., SERBEST K.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.79, no.5, pp.867-872, 2011 (SCI-Expanded)
- XIV. **New olefinic centred binuclear clamshell type phthalocyanines: Design, synthesis, structural characterisation, the stability and the change in the electron cloud at olefine-based symmetrical diphtalonitrile fragment by the combined application of UV-Vis electronic structure and theoretical methods**
DEĞİRMENCİOĞLU İ., Bayrak R., Er M., SERBEST K.
POLYHEDRON, vol.30, no.9, pp.1628-1636, 2011 (SCI-Expanded)
- XV. **Synthesis, characterization and properties of tetra((1-hydroxyimino-methylnaphthalen-2-yloxy)methyl)ethene and its homo-dinuclear metal complexes: A combined experimental and theoretical investigation**
SERBEST K., KARAOĞLU K., ERMAN M., Er M., DEĞİRMENCİOĞLU İ.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.77, no.3, pp.643-651, 2010 (SCI-Expanded)
- XVI. **Novel phthalocyanines containing substituted salicyclic hydrazone-1,3-thiazole moieties: Microwave-assisted synthesis, spectroscopic characterization, X-ray structure and thermal characterization**
DEĞİRMENCİOĞLU İ., Atalay E., Er M., KÖYSAL Y., İŞİK Ş., SERBEST K.
DYES AND PIGMENTS, vol.84, no.1, pp.69-78, 2010 (SCI-Expanded)
- XVII. **The microwave-assisted synthesis and structural characterization of novel, dithia-bridged polymeric phthalocyanines containing a substituted thiophenylamine Schiff base**
DEĞİRMENCİOĞLU İ., Bayrak R., Er M., SERBEST K.
DYES AND PIGMENTS, vol.83, no.1, pp.51-58, 2009 (SCI-Expanded)
- XVIII. **Spectroscopic and theoretical study of 1,2,4-triazole-3-one based salicylaldimine complexes and evaluation of superoxide-scavenging properties**
SERBEST K., OZEN A., ÜNVER Y., Er M., DEĞİRMENCİOĞLU İ., SANCAK K.
JOURNAL OF MOLECULAR STRUCTURE, vol.922, pp.1-10, 2009 (SCI-Expanded)
- XIX. **Two novel macrocyclic schiff bases containing bis-N2O2 donor set and their binuclear complexes: synthesis, spectroscopic and magnetic properties**
KARAOĞLU K., BARAN T., SERBEST K., Er M., DEĞİRMENCİOĞLU İ.
JOURNAL OF MOLECULAR STRUCTURE, vol.922, pp.39-45, 2009 (SCI-Expanded)
- XX. **Binuclear transition metal complexes of a novel lateral-N-methylthiosemicarbazone through the**

central ethylene bridge: Synthesis, structural characterization and the response of ligand molecule to different solvent media

Er M., SANCAK K., DEĞİRMENCİOĞLU İ., SERBEST K.

JOURNAL OF MOLECULAR STRUCTURE, vol.882, pp.35-46, 2008 (SCI-Expanded)

- XXI. **Ni(II), Cu(II), and Zn(II) Complexes of Tetradentate Schiff Base Containing Two Thiadiazoles Units: Structural, Spectroscopic, Magnetic Properties, and Molecular Modeling Studies**
SERBEST K., KAYI H., Er M., SANCAK K., DEĞİRMENCİOĞLU İ.
HETEROATOM CHEMISTRY, vol.19, no.7, pp.700-712, 2008 (SCI-Expanded)
- XXII. **Microwave-assisted synthesis and characterization and theoretical calculations of the first example of free and metallophthalocyanines from salen type Schiff base derivative bearing thiophen and triazole heterocyclic rings**
SERBEST K., DEĞİRMENCİOĞLU İ., UENVER Y., Er M., KANTAR C., SANCAK K.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.692, no.25, pp.5646-5654, 2007 (SCI-Expanded)
- XXIII. **Cu(II), Ni(II) and Fe(II) complexes with a new substituted [1,2,4] triazole Schiff base derived from 4-amino-5-(thien-2-yl ethyl)-2,4-dihydro-3H-1,2,4-triazol-3-one and 2-hydroxy-1-naphthaldehyde: synthesis, characterization and a comparison of theoretical and experimental results by Ab initio calculation**
SANCAK K., ER M., UNVER Y., YILDIRIM M., DEĞİRMENCİOĞLU İ., Serbest K.
TRANSITION METAL CHEMISTRY, vol.32, no.1, pp.16-22, 2007 (SCI-Expanded)
- XXIV. **2,2'-[2,3-bis(1-formyl-2-naphthyloxymethyl)-but-2-ene-1,4-diylidioxy]bis(naphthalene-1-carbaldehyde)**
USTABAS R., Coruh U., ER M., Serbest K., VAZQUEZ-LOPEZ E. M.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.62, 2006 (SCI-Expanded)
- XXV. **DNA hydrolysis by homo- and heteronuclear Cu(II)-Ni(II) complexes of two diester-type ligands**
SAGLAM N., COLAK A., Serbest K., KARABOCEK S., GUNER S. B.
MONATSHFTE FUR CHEMIE, vol.135, no.8, pp.1023-1031, 2004 (SCI-Expanded)
- XXVI. **Synthesis and characterization of Cu(II) complexes of two ligands derived from malonyl dichloride**
Karabocek N., Karabocek S., Mazlum H., Degirmencioglu I., Serbest K.
TURKISH JOURNAL OF CHEMISTRY, vol.28, no.1, pp.87-94, 2004 (SCI-Expanded)
- XXVII. **Copper(II)-nickel(II) complexes of novel 1,9-dioxo-3,6-dithiacyclotridecane-10,12-dione and 1,4-dioxo-7,10-dithiacyclododecane-2,3-dione ligands**
KARABOCEK S., DEĞİRMENCİOĞLU İ., KARABOCEK N., Serbest K.
TRANSITION METAL CHEMISTRY, vol.28, no.5, pp.529-533, 2003 (SCI-Expanded)
- XXVIII. **The effect of intramolecular-hydrogen bonds in the synthesis of novel imidates from a 13-membered dioxadithia crown ether diester**
KARABOCEK S., Serbest K., DEĞİRMENCİOĞLU İ., KARABOCEK N., ER M.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.40, no.4, pp.639-643, 2003 (SCI-Expanded)
- XXIX. **Synthesis and characterization of new phthalocyanines peripherally fused to four 21-membered dithiacrown ether macrocycles**
DEĞİRMENCİOĞLU İ., KARABOCEK S., KARABOCEK N., ER M., Serbest K.
MONATSHFTE FUR CHEMIE, vol.134, no.6, pp.875-881, 2003 (SCI-Expanded)
- XXX. **Oxidative cleavage of DNA by homo- and heteronuclear Cu(II)-Mn(II) complexes of an oxime-type ligand**
SAGLAM N., COLAK A., Serbest K., DULGER S., GUNER S. B., KARABOCEK S., BELDUZ A.
BIOMETALS, vol.15, no.4, pp.357-365, 2002 (SCI-Expanded)
- XXXI. **A new binucleating ligand incorporating four oxime groups and its copper(II), manganese(II) and cobalt(III) complexes**
Serbest K., DEĞİRMENCİOĞLU İ., KARABOCEK S., GUNER S. B.
TRANSITION METAL CHEMISTRY, vol.26, pp.232-236, 2001 (SCI-Expanded)
- XXXII. **Mono-, di- and trinuclear copper(II) dioxime complexes; 3-{2-[2-(2-hydroxyimino-1-methylpropylideneamino)ethylamino]ethylimino}butan-2-one oxime**

- Serbest K., KARABOCEK S., DEGIRMENCIOGLU I., GUNER S. B., KORMALI F.
TRANSITION METAL CHEMISTRY, vol.26, pp.375-379, 2001 (SCI-Expanded)
- XXXIII. **Copper(II)-manganese(II) complexes of 3,3'-(1,3-propanediylidimine)bis-(3-methyl-2-butanone)dioxime with superoxide dismutase-like activity**
Serbest K., COLAK A., GUNER S. B., KARABOCEK S., KORMALI F.
TRANSITION METAL CHEMISTRY, vol.26, no.6, pp.625-629, 2001 (SCI-Expanded)
- XXXIV. **A novel tetraoxime and its dinuclear and tetranuclear transition metal complexes**
BILGIN A., Serbest K., GOK Y.
TRANSITION METAL CHEMISTRY, vol.25, no.1, pp.63-68, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Iron(III) complexes derived from azo-containing salicylaldoxime ligands: Synthesis, structures and biological evaluations** Azo grubu içeren salisilaldoksim ligandlarından türetilen demir (Iii) kompleksleri: sentez, karakterizasyon ve biyolojik değerlendirmeler
Serbest K., Dural B., Çol Ayvaz M., Zengin A., Emirik M.
El-Cezerî Journal of Science and Engineering, vol.8, pp.1184-1201, 2021 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **N-HETEROSİKLİK OKSİM LİGANDI VE MONONÜKLEER Cu(II) KOMPLEKSİ: SENTEZ, SPEKTROSKOPİ, ELEKTROKİMYA, DFT HESAPLAMALARI VE KATEKOLAZ AKTİVİTESİ**
ZENGİN A., SERBEST K.
2. Uluslararası Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, 7 - 10 November 2019, pp.529-539
- II. **The Molecular Structure Determination of [Cu{(n5-C5H5)Fe(n5-C5H4)-(H)C=N=N=C(H)-(naphthalen)}]2]**
ÇORUH U., KARAOĞLU K., SERBEST K., LOPEZ E. M. V.
XXIV Congress of Chemists and Technologists of Macedonia, 11 - 14 September 2016
- III. **Ferrosen Birimi İçeren Salisilazin Bileşikleri, Bakır Komplekslerinin Sentezi ve Karakterizasyonu**
KARAOĞLU K., SERBEST K.
IV. Ulusal Anorganik Kimya Kongresi, Tokat, Turkey, 30 May - 02 June 2013, pp.268
- IV. **Amino Asit Türevi Makroasiklik Schiff Bazı Ligandı ve Geçiş Metal Komplekslerinin Sentezi, Karakterizasyonu**
Baran T., KARAOĞLU K., Dural B., SERBEST K.
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010
- V. **İki Yeni Bis-Makrosiklik Schiff Bazı Ligandı ve Metal Komplekslerinin Sentezi, Karakterizasyonu**
KARAOĞLU K., Baran T., Dural B., SERBEST K.
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010
- VI. **Etanolamin Türevi Makroasiklik Schiff Bazı Ligandı, Cu(II), Ni(II), Zn(II) Komplekslerinin Sentezi ve Karakterizasyonu**
BARAN T., KARAOĞLU K., ERMAN M., SERBEST K.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.248
- VII. **Yeni Bir Makroasiklik Schiff Bazı Ligandı Geçiş Metal Komplekslerinin Sentezi ve Karakterizasyonu**
KARAOĞLU K., BARAN T., ER M., DEĞİRMENCİOĞLU İ., SERBEST K.
XXII. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kkct), 6 - 10 October 2008, pp.74
- VIII. **Yeni Bir Mahrosiklik Schiff Bazı Ligandı, Geçiş Metali Komplekslerinin Sentezi ve Karakterizasyonu**
KARAOĞLU K., BARAN T., ER M., SERBEST K.
XXII. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kkct), 6 - 10 October 2006
- IX. **Yeni Bir Triazol Türevi Makroasiklik Schiff Bazı Ligandı, Geçiş Metal Komplekslerinin Sentezi ve**

Karakterizasyonu

BARAN T., KARAOĞLU K., ER M., DEĞİRMENCİOĞLU İ., SERBEST K.

XXII. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kktc), 6 - 10 October 2006

Supported Projects

Serbest K., Mohammed A. H., TUBITAK Project, Bis -Azo Türevi Schiff Bazı Komplekslerinin Sentezi, Karakterizasyonu ve Termal Davranışlarının İncelenmesi, 2024 - 2024

SERBEST K., ZENGİN A., Project Supported by Higher Education Institutions, BAZI HETEROSİKLIK BİRİM İÇEREN Cu(II) KOMPLEKSLERİNİN SENTEZİ, KARAKTERİZASYONU VE KATEKOLAZ AKTİVİTELERİNİN BELİRLENMESİ, 2018 - 2020

SERBEST K., AKTARER S. M., GÖKMEN M. S., KUK AKÇAİR S., Project Supported by Higher Education Institutions, Motor Test ve Araç Muayene Laboratuvarının Kurulması, 2016 - 2017

SERBEST K., AKTARER S. M., Project Supported by Higher Education Institutions, Otomotiv Teknoloji Atölyesinin Kurulması, 2015 - 2016

SERBEST K., KARAOĞLU K., Project Supported by Higher Education Institutions, Oksim Türevi Simetrik Olmayan Azin ve Komplekslerinin Sentezi, Karakterizasyonu, Katekolaz Aktivitelerinin incelenmesi, 2015 - 2016

Özel A., Serbest K., TUBITAK Project, Bazı Aril Sübstitüe Azin Ferrosen Bakır(II) Komplekslerinin DNA Bağlama, DNA Kesim, Topoizomeraz I Aktivitelerinin ve Antioksidan Kapasitelerinin İncelenmesi, 2014 - 2015

SERBEST K., KARAOĞLU K., Project Supported by Higher Education Institutions, Ferrosen Birimi İçeren Azin ve Hidrazit Türevi Ligantlar, Cu(II) Komplekslerinin Sentezi, Karakterizasyonu ve Teorik İncelenmeleri, 2011 - 2015

Serbest K., Alpay Karaoğlu Ş., Er M., TUBITAK Project, Yeni Makroasiklik/Makrobisiklik Schiff Bazı Ligandlarının, Geçiş Metal Komplekslerinin Sentezi, Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2007 - 2010

SERBEST K., TUBITAK Project, Biyolojik Aktif Türler Olan 1,2,4-Triazol ve Tiyofen Heterosiklik Birimlerini İçeren Yeni Salen Tipi Schiff Bazı Ligandı ve Onun Fe(III), Co(II), Ni(II), Bakır(II) ve Zn(II) Komplekslerinin Sentezi, Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2006 - 2007

Scientific Refereeing

Monatshefte Für Chemie, SCI Journal, April 2015

Monatshefte Für Chemie, SCI Journal, January 2015

Project Supported by Higher Education Institutions, July 2014

TUBITAK Project, June 2014

Journal Of Molecular Structure, SCI Journal, April 2014

Monatshefte Für Chemie, SCI Journal, February 2014

Journal Of Organometallic Chemistry, SCI Journal, November 2013

Journal Of Molecular Structure, SCI Journal, October 2013

Journal Of Organometallic Chemistry, SCI Journal, June 2013

Monatshefte Für Chemie, SCI Journal, June 2013

European Journal Of Medicinal Chemistry, SCI Journal, June 2013

Monatshefte Für Chemie, SCI Journal, May 2013

Monatshefte Für Chemie, SCI Journal, April 2013

Spectrochimica Acta Part A, SCI Journal, July 2012

Spectrochimica Acta Part A, SCI Journal, March 2011

Spectrochimica Acta Part A, SCI Journal, December 2009

Molecules, SCI Journal, December 2008

Dyes and Pigments, SCI Journal, February 2008

Metrics

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Citation (WoS): 510

Citation (Scopus): 532

H-Index (WoS): 14

H-Index (Scopus): 14