

Prof. STEPHEN THOMAS ASTLEY

Personal Information

Email: stephen.thomas.astley@ege.edu.tr

Web: <https://avesis.ege.edu.tr/stephen.thomas.astley>

Education Information

Doctorate, University Of Alberta, Canada 1984 - 1990

Under Graduate, University Of Southampton, Chemistry, United Kingdom 1981 - 1984

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, C7H7-Bridged Cycloheptatrienyl Complexes, University Of Alberta, 1990

Research Areas

Chemistry, Organic Chemistry, Chemistry of Asymmetric Synthesis, Natural Sciences

Academic Titles / Tasks

Professor, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2012 - Continues

Associate Professor, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2005 - 2012

Advising Theses

ASTLEYS. T. , An investigation into structural effects on the catalytic activity of chiral metal-ligand complexes, Doctorate, P.ARZU(Student), 2017

ASTLEYS. T. , ASTLEY D., Preparation and activity of some new chiral compounds, Doctorate, N.KORKMAZ(Student), 2014

ASTLEYS. T. , synthesis of semi-rigid ligands and preparation of metal organic frameworks, Post Graduate, Y.ÇİFÇİ(Student), 2013

ASTLEYS. T. , Preparation of new chiral ligands derived from amino acids, Post Graduate, M.DESDE(Student), 2010

ASTLEYS. T. , The reaction of aromatic aldehydes with amino alcohols, Post Graduate, N.CENGİZ(Student), 2007

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

- **Synthesis and Structural Characterization of Two Novel Copper(II) Schiff Base Complexes and their Water-Containing Supramolecular Structures**

Celepci D. B. , Korkmaz N., ASTLEYS. T. , Aygun M.

JOURNAL OF STRUCTURAL CHEMISTRY, vol.60, pp.151-158, 2019 (Journal Indexed in SCI)

- **Synthesis, characterization, and antimicrobial activities of novel monosaccharide-containing Schiff base ligands**

Telli F. C. , ASTLEY S. T. , SALMAN A. Y.

TURKISH JOURNAL OF CHEMISTRY, vol.41, pp.370-380, 2017 (Journal Indexed in SCI)

- **Carboxylate Ion dependency in the Cu(II) catalysed asymmetric Henry reaction: Structural characterisation of a tridentate Schiff Base complex containing a coordinated carboxylic acid**
Akinci A., Barut Celepci D., Alkan L., Korkmaz N., Aygün M., Astley S. T.
Applied Organometallic Chemistry, vol.31, pp.3831, 2017 (Journal Indexed in SCI Expanded)
- **Synthesis of novel Schiff base ligands from gluco- and galactochloraloses for the Cu(II) catalyzed asymmetric Henry reaction**
ALKAN S., TELLİ F., SALMAN Y., ASTLEY S. T.
CARBOHYDRATE RESEARCH, vol.407, pp.97-103, 2015 (Journal Indexed in SCI)
- **Crystal structure determination of four new copper II complexes containing onco type Schiff base ligands**
BARUT CELEPCI D., KORKMAZ N., ASTLEY S. T. , AYGÜN M.
Acta Crystallographica Section A, vol.71, pp.422, 2015 (Journal Indexed in SCI)
- **Synthesis, X-ray Structural and Thermal Analysis of a Novel Copper Compound Containing Dissymmetric Independent 5-and 6-coordinate CuL(H₂O)(n) (n=2, 3) Units and Hydrogen bond Bridges**
Barut D., KORKMAZ n., Astley S. T. , Aygun M.
ACTA CHIMICA SLOVENICA, vol.62, pp.88-94, 2015 (Journal Indexed in SCI)
- **Alkyne insertion and coupling reactions mediated by the cycloheptatrienyl bridged heterobimetallic complexes C₇H₇ Ru CO 3M CO 2 M Rh Ir**
ASTLEY S. T. , JOSEF T.
Journal Of Organometallic Chemistry, vol.754, pp.75, 2014 (Journal Indexed in SCI Expanded)
- **Catalyst functional group cooperativity in the amino acid-catalysed nitroaldol condensation reaction**
Karadeniz L., Astley S. T.
RESEARCH ON CHEMICAL INTERMEDIATES, vol.39, pp.3407-3415, 2013 (Journal Indexed in SCI)
- **Synthesis of Stable Acyclic Aminals Derived from L-(+)-Aspartic Acid and Their Application in Asymmetric Henry Reactions**
Koz G., ASTLEY D., ASTLEY S. T.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.68, pp.57-63, 2013 (Journal Indexed in SCI)
- **Tridentate ligands derived from L-tert-Leucine for the Cu(II) mediated asymmetric Henry reaction**
Korkmaz N., ASTLEY D., ASTLEY S. T.
TURKISH JOURNAL OF CHEMISTRY, vol.35, pp.361-374, 2011 (Journal Indexed in SCI)
- **Enantioselective Henry reaction catalyzed by a novel L-(+)-aspartic acid-derived Schiff base ligand and Cu(II) ion**
KOZ G., ASTLEY D., ASTLEY S. T.
TURKISH JOURNAL OF CHEMISTRY, vol.35, pp.553-560, 2011 (Journal Indexed in SCI)
- **Synthesis, spectroscopic and structural characterization of cobalt(II) complex with uracil-containing 2,6-diformylpyridine ligand: Theoretical studies on the ligand and pentagonal-bipyramidal [Co(L)(H₂O)(2)](2+) and [Zn(L)(H₂O)(2)](2+) cations**
Koz G., ÖZDEMİR N., ASTLEY D., DİNÇER M., ASTLEY S. T.
JOURNAL OF MOLECULAR STRUCTURE, vol.966, pp.39-47, 2010 (Journal Indexed in SCI)
- **Co(III) catalysed asymmetric ring-opening of epichlorohydrin by salicylaldehyde derivatives: reversal of enantioselectivity and rate acceleration on addition of AlCl₃**
Karadeniz L., Koz G., Aydın K., Astley S. T.
TURKISH JOURNAL OF CHEMISTRY, vol.34, pp.711-718, 2010 (Journal Indexed in SCI)
- **A highly novel dinickel complex: A hydrogen-bonded anti-skew carboxylate bridge and a 2D supramolecular structure**
Korkmaz N., Gokce A. G. , ASTLEY S. T. , Aygun M., ASTLEY D., Buyukgungor O.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.12, pp.1204-1208, 2009 (Journal Indexed in SCI)
- **trans-diaqua{5,5'-(E,E)-pyridine-2,6-diylbis(methylidynenitrilo)}bis[pyrimidine-2,4(1H,3H)-dione]}zinc(II) nitrate hexafluorophosphate trihydrate**
Ozdemir N., Dincer M., Doganer G., Astley D., ASTLEY S. T.
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, vol.63, 2007 (Journal Indexed in SCI)

- **Uncatalysed coupling of an activated aryl chloride with aryllithium and aryl Grignard reagents**
Astley D., Saygi H., Gezer S., Astley S. T.
TETRAHEDRON LETTERS, vol.45, pp.7315-7317, 2004 (Journal Indexed in SCI)
- **The metal-halogen exchange reaction between ortho-substituted aryl halides and Ph₂CuLi center dot LiCN: scope and applicability for coupling reactions**
Cetin F., Senogul H., Gezer S., Astley D., Astley S. T.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.689, pp.154-157, 2004 (Journal Indexed in SCI)
- **Preparation of o-bromobenzophenone derivatives from lithium diarylcuprate(I) reagents**
Karagoz S., Astley D., Astley S. T.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.14, pp.341-344, 2000 (Journal Indexed in SCI)
- **Structure and luminescent properties of the 4 arylidene 2 aryl 5 oxazolones azlactones in solution and crystalline states**
İÇLİ S., DOROSHENKO A., ALP S., ABMANOVA N., EGOROVA S., ASTLEY S. T.
Spectroscopy Letters, vol.32, pp.553, 1999 (Journal Indexed in SCI Expanded)
- **Stereocontrolled organomanganese synthesis of cis-4a,10b-dihydrophenanthridine derivatives**
ASTLEY S. T. , Astley D.
TETRAHEDRON LETTERS, vol.38, pp.623-626, 1997 (Journal Indexed in SCI)
- **A BENEFICIAL EFFECT OF ORTHO-SUBSTITUENTS IN THE ARYLATION OF (BENZENE)TRICARBONYLMANGANESE(1+) HEXAFLUOROPHOSPHATE(1-)**
ASTLEY D., ASTLEY S. T.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.487, pp.253-255, 1995 (Journal Indexed in SCI)
- **PREPARATION AND REACTIVITY OF CUPRATE DERIVATIVES OF LITHIUM 6-LITHIOPIPERONYLATE WITH TRICARBONYL(2-METHOXYCYCLOHEXADIENYL)IRON(1+) HEXAFLUOROPHOSPHATE(1-)**
ASTLEY S. T. , STEPHENSON G.
JOURNAL OF THE CHEMICAL SOCIETY-PERKIN TRANSACTIONS 1, pp.1953-1955, 1993 (Journal Indexed in SCI)
- **HIPPEASTRINE SYNTHESIS - A COMBINED BIO-DIOXYGENATION ORGANOIRON CHIRALITY RELAY APPROACH**
ASTLEY S. T. , MEYER M., STEPHENSON G.
TETRAHEDRON LETTERS, vol.34, pp.2035-2038, 1993 (Journal Indexed in SCI)
- **Hippeastrine Synthesis Functionalised metallated arenes in an organoiron route to a tricyclic model**
ASTLEY S. T. , RICHARD S.
Synlett, pp.507, 1992 (Journal Indexed in SCI Expanded)
- **COMPARATIVE PHOTOCHEMISTRY OF SOME TRICARBONYL(ETA-4-POLYENE)IRON COMPLEXES IN FROZEN GAS MATRICES AT CA-12-K**
ASTLEY S. T. , CHURTON M., HITAM R., REST A.
JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS, pp.3243-3253, 1990 (Journal Indexed in SCI)
- **Solid state structure and fluxional solution behaviour of the ambident organometallic nucleophiles C₇H₇ M CO₃ 1 M Ru Os**
ASTLEY S. T. , TAKATS J., HUFFMAN J., STREIB W.
Organometallics, vol.9, pp.184, 1990 (Journal Indexed in SCI Expanded)
- **CYCLOHEPTATRIENYL BRIDGED HETEROBIMETALLIC COMPLEXES - SYNTHESIS AND REACTIVITY OF (MU-C₇H₇)RU(CO)₃IR(CO)₂**
ASTLEY S. T. , TAKATS J.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.363, pp.167-174, 1989 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Preparation Of A Chiral Cu(II)-Schiff Base Complex And Application For Asymmetric Catalysis**
Alkan L., Astley S. T.
Karaelmas Fen ve Mühendislik Dergisi, vol.8, pp.151-155, 2018 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- **Synthesis of Novel Piperazine Derivatives**

ALKAN L., ASTLEY S. T.

Erasmus International Academic Research Symposium, 5 - 06 April 2019

- **Copper(II)-Catalysed Asymmetric Henry (Nitroaldol) Reactions: Recent Developments**

Alkan L., Astley S. T.

ANCON 2017, Ankara, Turkey, 5 - 07 October 2017

- **Chiral Fluorescent Receptors: Synthesis and Recognition for Amino Acids**

KARADENİZ L., YALÇIN U., AKSUNER N., ASTLEY S. T.

Chemistry Conference for Young Scientists ChemCYS 2016, 16 - 18 March 2016

- **ONO Tipi Üç Dişli Kiral Ligand İçeren Cu(II) Kompleksinin Sentezi ve Asimetrik Henry Tepkimesindeki Katalitik Aktivitesinin İncelenmesi**

KARADENİZ L., ASTLEY S. T.

XXVII. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015

- **Primer Amin İçeren Şeker Tiyoüre Türevi Kiral Katalizörler ve Uygulamaları**

KORKMAZ N., KÖK G., ASTLEY S. T.

1. Ulusal Organik Kimya Kongresi, Sakarya, Turkey, 11 September 2013, pp.247

- **Tridentate Ligands Derived from Aminosugar Derivative for the Cu II Mediated Asymmetric Henry Reaction**

TELLİ F., Alkan S., SALMAN A. Y. , ASTLEY S. T.

IUPAC 44th World Chemistry Congress, İstanbul, Turkey, 11 August 2013, pp.1

- **Ring-opening of Epichlorohydrin by 2,4-dihydroxybenzaldehyde And The Biological Activity of Product Schiff Base Derivatives**

KARADENİZ L., ASTLEY S. T. , YAŞA İ.

3rd Pak-Turk Conference on Chemical Science, 13 - 15 September 2012

- **Synthesis and Characterization of Multifunctional Chiral Schiff Base Derivatives**

KARADENİZ L., ASTLEY S. T.

15th International Electronic Conference on Synthetic Organic Chemistry, 1 - 30 November 2011

- **Tek Basamakta Gerçekleşen Henry Eliminasyon Tepkimeleri**

KARADENİZ L., ASTLEY S. T.

XXV. ULUSAL KİMYA KONGRESİ, Turkey, 27 June - 02 July 2011

- **Kiral Lewis-Asit Katalizli Diels Alder Tepkimeleri**

KARADENİZ L., ASTLEY S. T.

XXV. ULUSAL KİMYA KONGRESİ, Turkey, 27 June - 02 July 2011

- **Salisilaldehit Türevlerinin Epiklorohidrin ile Tepkimeleri**

AYDIN K., KARADENİZ L., KOZ G., ASTLEY D., ASTLEY S. T.

XXII. ULUSAL KİMYA KONGRESİ, Turkey, 6 - 10 October 2008

- **The Reaction between Ortho Substituted Aryl Halides and Ph₂CuLi LiCN Preparation of Functionalized Arylcuprate Reagents.**

ASTLEY S. T. , ASTLEY D., TELLİ F., SENOGUL H., Gezer S.

XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 05 July 2004, pp.1

- **o İyodo Sübstitüentli Aril Bileşiklerinin Bakır İçeren Organometalik Bileşiklerle Reaksiyonların İncelenmesi.**

TELLİ F., ASTLEY S. T. , ASTLEY D.

XVII. Ulusal Kimya Kongresi, İstanbul, Turkey, 08 September 2003, pp.1

Supported Projects

ASTLEY S. T. , Project Supported by Higher Education Institutions, KİRAL METAL LİGANDLARIN KATALİTİK AKTİVİTESİ ÜZERİNDEN YAPISAL ETKİLERİNİN İNCELENMESİ, 2015 - 2017

ASTLEY S. T. , Project Supported by Higher Education Institutions, YENİ KİRAL-ESNEK KARBOKSİLAT LİGANTLARIN HAZIRLANMASI, 2013 - 2014

ASTLEYS. T. , Project Supported by Higher Education Institutions, YENİ SUDA ÇÖZÜNEBİLİR LİGANDLARIN VE GEÇİŞ METAL KOMPLEKSLERİNİN HAZIRLANMASI, 2007 - 2011

ASTLEYS. T. , Project Supported by Higher Education Institutions, SALİSİLALDEHİT TÜREVLERİNİN EPOKSİTLER İLE TEPKİMLERİ, 2008 - 2010

ASTLEYS. T. , Project Supported by Higher Education Institutions, AROMATİK ALDEHİTLERİN AMİNOALKOLLERLE REAKSİYONLARI, 2006 - 2008

ASTLEYS. T. , Project Supported by Higher Education Institutions, BİS (BENZEN) DEMİR DİKATYONUNA NÜKLEOFİLİK KATILMA REAKSİYONLARI, 1992 - 1995

Citations

Total Citations (WOS):168

h-index (WOS):8