

## Prof. NURCAN KARACAN

### Personal Information

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1983 - 1989

Undergraduate, Istanbul University, Kimya Fakültesi, Kimya Yüksek Mühendisliği Pr. (5 Yıllık), Turkey 1973 - 1978

### Dissertations

Doctorate, Bis (pridin-1-oksit) metal (II) tetraşyanonikelat (II) kompleksleri ve benzenli prazinkadmium (II) tetraşyanometalat (II) konak-konuk bileşiklerinin titreşim spektroskopisi ile incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), 1989

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Kimya Bölümü, 2002 - Continues

Professor, Gazi University, Fen Fakültesi, Kimya Bölümü, 2002 - 2023

Associate Professor, Gazi University, Fen Fakültesi, Kimya Bölümü, 1996 - 2002

Assistant Professor, Gazi University, Fen Fakültesi, Kimya Bölümü, 1990 - 1996

### Academic and Administrative Experience

Gazi University, Fen Fakültesi, Kimya Bölümü, 2011 - Continues

### Advising Theses

KARACAN N., Synthesis, Characterization, Dft Studies, Investigating Antimicrobial Activities And Glutathione Reductase Inhibitor Effects Of Piperazine Derivatives And Its Complexes, Postgraduate, B.TÜRKAN(Student), 2019

KARACAN N., Synthesis Of New Copper (I) Complexes And Investigation Of Their Plant Glutathione Reductase Enzyme Activities, Postgraduate, K.BEGÜM(Student), 2015

KARACAN N., Synthesis of new antimony(III) complexes for treatment of leishmaniasis, Doctorate, T.TUNÇ(Student), 2014

KARACAN N., Qsar studies of sulfonamide analogs containing thiazolone as hepatitis C virus NS5B polymerase inhibitor, Postgraduate, Ç.KILIÇER(Student), 2012

KARACAN N., Qsar studies of prostaglandin analogs as D2 receptor antagonist, Postgraduate, M.YAKAN(Student), 2011

KARACAN N., BAZI DİSÜLFONAMİT TÜREVLERİ VE Cu(II) KOMPLEKSLERİNİN SENTEZİ, ANTİMİKROBİYAL AKTİVİTELERİNİN İNCELENMESİ, KANTİTATİF-YAPI-AKTİVİTE İLİŞKİLERİNİN DEĞERLENDİRİLMESİ, Doctorate, S.ALYAR(Student), 2009

KARACAN N., Bazı disülfonamit türevleri ve Cu(II) komplekslerinin sentezi, antimikrobiyal aktivitelerinin incelenmesi, kantitatif-yapı-aktivite ilişkilerinin değerlendirilmesi (QSAR), Doctorate, S.ALYAR(Student), 2009

KARACAN N., Bazı sülfonamit türevleri ve komplekslerinin sentezi, antimikrobiyal aktivitelerinin incelenmesi, yapı-aktivite ilişkilerinin (SAR) değerlendirilmesi, Doctorate, N.ÖZBEK(Student), 2008

KARACAN N., Çeşitli sülfonamit türevleri ve bunların bazı geçiş metal komplekslerinin sentezi, antimikrobiyal etkilerinin incelenmesi, Doctorate, H.GÜZİN(Student), 2008

KARACAN N., SYNTHESIS OF SEVERAL SULFONAMIDE DERIVATIVES AND THEIR SOME TRANSITION METAL COMPLEXES, EVALUATION OF ANTIMICROBIAL ACTIVITIES, Doctorate, H.Güzin(Student), 2008

KARACAN N., SYNTHESIS AND ANTIMICROBIAL ACTIVITY OF BENZENESULFONICACID HYDRAZIDE AND SOME SYMMETRIC BENZENSULFONAMIDE DERIVATIVES, Postgraduate, K.NUMANOĞLU(Student), 2007

KARACAN N., CONFORMATIONAL ANALYSIS, VIBRATIONS AND CHEMICAL SHIFTS CALCULATION OF BENZENESULFONICACID HYDRAZIDE BY DFT METHODS, Postgraduate, M.ÖZDEMİR(Student), 2007

KARACAN N., Metansülfonilhidrazin ve etansülfonilhidrazin'in hidroksi-1-naftaldehit ile oluşturdukları sülfonil hidrazonlar, bunların Ni(II) ve Co(II) komplekslerinin sentezi, yapılarının spektrofotometrik yöntemlerle aydınlatılması, Postgraduate, G.KOZAN(Student), 2004

KARACAN N., 5-klorosalisilaldehit etansülfonilhidrazon bileşiği ve bunun Ni(II) kompleksinin sentezi, ab initio ve yarı denel yöntemlerle geometri optimizasyonunun yapılması ve molekül orbital enerjilerinin hesaplanması, Postgraduate, E.İLHAN(Student), 2003

KARACAN N., 2-hidroksiasetofenon metansülfonilhidrazon bileşiğinin yapı ve titreşim spektrumlarının denel ve teorik olarak incelenmesi, Postgraduate, S.ÇELİK(Student), 2003

KARACAN N., Bazı hidrazin ve hidrazon bileşiklerinin ve komplekslerinin sentezi, yapılarının aydınlatılması, Postgraduate, İ.DEMİR(Student), 2002

KARACAN N., İmidazol ve 4-metilimidazol ligandlı Hofmann tipi konak-konuk bileşiklerinin titreşim spektroskopisi ile incelenmesi, Postgraduate, M.DOĞMUŞ(Student), 2000

KARACAN N., Çeşitli mangan ve kobalt komplekslerinin sentez yapılarının aydınlatılması ve yeşil bitkilerin fotosentezindeki katalizör rollerinin incelenmesi, Doctorate, Ü.ÖZDEMİR(Student), 2000

KARACAN N., Hofmann-Td tipi piridin-N-oksitli kompleksler ile hofmann tipi, piperazinli komplekslerin ve dioksanlı klatların infrared spektroskopisi ile incelenmesi, Postgraduate, K.ÜLKÜ(Student), 1998

KARACAN N., Bazı hofmann tipi komplekslerin ve konak-konuk bileşiklerinin titreşim spektroskopisi ile incelenmesi, Doctorate, Y.TUFAN(Student), 1997

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Molecular Docking and Dynamics Simulations of Ammi visnaga L. Constituents as Antimelanogenic, Anti-Inflammatory and Anticoagulant Agents**  
Çatıkkaş B., KARACAN N.  
Chemistry and Biodiversity, vol.20, no.11, 2023 (SCI-Expanded)
- II. **Synthesis of benzimidazole derivatives containing amide bond and biological evaluation as acetylcholinesterase, carbonic anhydrase I and II inhibitors**  
Alim Z., Tunc T., Demirel N., Guenel A., KARACAN N.

JOURNAL OF MOLECULAR STRUCTURE, vol.1268, 2022 (SCI-Expanded)

- III. **Acetohydroxyacid Synthase (AHAS) Inhibitor-Based Commercial Sulfonylurea Herbicides as Glutathione Reductase Inhibitors: in Vitro and in Silico Studies**  
Sel S., Tunc T., Ortaakarsu A. B., Mamas S., KARACAN N., KARACAN M. S.  
CHEMISTRYSELECT, vol.7, no.38, 2022 (SCI-Expanded)
- IV. **Effects of Novel Photosynthetic Inhibitor [CuL<sub>2</sub>]Br-2 Complex on Photosystem II Activity in Spinach**  
Zharmukhamedov S. K., Shabanova M. S., Rodionova M., Huseynova I. M., KARACAN M. S., KARACAN N., Asik K. B., Kreslavski V. D., Alwasel S., Allakhverdiev S.  
CELLS, vol.11, no.17, 2022 (SCI-Expanded)
- V. **New Schiffbases with a 2,6-bis(2-aminophenylthio)pyridine moiety acting as glutathione reductase activator and inhibitors: Synthesis and molecular docking studies**  
TUNÇ T., Ortaakarsu A. B., Hatipoglu S. M., Kazanci U., Karabocek S., Karabocek N., DEGE N., KARACAN N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1254, 2022 (SCI-Expanded)
- VI. **In vitro anti-leishmanial activities and structure-activity relationship analysis of new antimony(III) complexes**  
TUNÇ T., ERTABAKLAR H., KARACAN N.  
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.59, no.11, pp.1609-1617, 2020 (SCI-Expanded)
- VII. **Three New Copper (II) Complexes with CHIRAL SCHIFF BASES: Synthesis, Characterization, DNA Binding and DNA-Cleavage Studies**  
TUNÇ T., DEMİREL N., Emir M., Gunel A., Kadioglu R., KARACAN N.  
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.41, no.2, pp.334-344, 2019 (SCI-Expanded)
- VIII. **Synthesis, characterization, DFT studies of piperazine derivatives and its Ni(II), Cu(II) complexes as antimicrobial agents and glutathione reductase inhibitors**  
ÖZBEK N., Mamas S., Erdogdu T., Alyar S., Kaya K., KARACAN N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1171, pp.834-842, 2018 (SCI-Expanded)
- IX. **Is carbonic anhydrase activity of photosystem II required for its maximum electron transport rate?**  
Shitov A., Terentyev V. V., Zharmukhamedov S. K., Rodionova M., Karacan M. S., KARACAN N., Klimov V. V., Allakhverdiev S.  
BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS, vol.1859, no.4, pp.292-299, 2018 (SCI-Expanded)
- X. **DNA binding and cleavage activity of three new copper (II) complexes of chiral N-salicyl-beta-amino alcohol Schiff bases**  
TUNÇ T., DEMİREL N., Emir M., GÜNEL A., ÇOLAK M., KARACAN N.  
JOURNAL OF THE MEXICAN CHEMICAL SOCIETY, vol.62, no.3, pp.51-66, 2018 (SCI-Expanded)
- XI. **Evaluation of new Cu(II) complexes as a novel class of inhibitors against plant carbonic anhydrase, glutathione reductase, and photosynthetic activity in photosystem II**  
Rodionova M. V., Zharmukhamedov S. K., KARACAN M. S., Venedik K. B., Shitov A. V., TUNÇ T., Mamas S., Kreslavski V. D., KARACAN N., Klimov V. V., et al.  
PHOTOSYNTHESIS RESEARCH, vol.133, pp.139-153, 2017 (SCI-Expanded)
- XII. **Characterization of nineteen antimony(III) complexes as potent inhibitors of photosystem II, carbonic anhydrase, and glutathione reductase**  
KARACAN M. S., Rodionova M. V., TUNÇ T., Venedik K. B., Mamas S., Shitov A. V., Zharmukhamedov S. K., Klimov V. V., KARACAN N., Allakhverdiev S. I.  
PHOTOSYNTHESIS RESEARCH, vol.130, pp.167-182, 2016 (SCI-Expanded)
- XIII. **Antimony(III) complexes with 2-amino-4,6-dimethoxypyrimidines: Synthesis, characterization and biological evaluation**  
TUNÇ T., KARACAN M. S., Ertabaklar H., SARI M., KARACAN N., Buyukgungor O.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.153, pp.206-214, 2015 (SCI-Expanded)
- XIV. **DNA cleavage, antimicrobial studies and a DFT-based QSAR study of new antimony(III) complexes as glutathione reductase inhibitor**  
TUNÇ T., Koc Y., AÇIK L., KARACAN M. S., KARACAN N.

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.136, pp.1418-1427, 2015 (SCI-Expanded)

- XV. **A new method for screening glutathione reductase inhibitors using square wave voltammetry**  
KARACAN M. S., TUNÇ T., Oruc H., Mamas S., KARACAN N.  
ANALYTICAL METHODS, vol.7, no.12, pp.5142-5148, 2015 (SCI-Expanded)
- XVI. **Screening of novel chemical compounds as possible inhibitors of carbonic anhydrase and photosynthetic activity of photosystem II**  
KARACAN M. S., Zharmukhamedov S. K., Mamas S., Kupriyanova E. V., Shitov A. V., Klimov V. V., ÖZBEK N., ÖZDEMİR ÖZMEN Ü., BALABAN GÜNDÜZALP A., Schmitt F., et al.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.137, pp.156-167, 2014 (SCI-Expanded)
- XVII. **Synthesis, characterization and anti-microbial evaluation of Cu(II), Ni(II), Pt(II) and Pd(II) sulfonylhydrazone complexes; 2D-QSAR analysis of Ni(II) complexes of sulfonylhydrazone derivatives**  
ÖZBEK N., Alyar S., ALYAR H., ŞAHİN E., KARACAN N.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.108, pp.123-132, 2013 (SCI-Expanded)
- XVIII. **Synthesis, characterization, and antimicrobial activity of copper(II) complexes with N,N'-propanediyl-bis-benzenesulfonamide and N,N'-ethanediyl-bis-2-methylbenzenesulfonamide**  
Alyar S., ÖZBEK N., OCAK İSKELELİ N., KARACAN N.  
MEDICINAL CHEMISTRY RESEARCH, vol.22, no.5, pp.2051-2060, 2013 (SCI-Expanded)
- XIX. **Aromatic sulfonyl hydrazides and sulfonyl hydrazones: antimicrobial activity and physical properties**  
ASLAN H. G., KARACAN N.  
MEDICINAL CHEMISTRY RESEARCH, vol.22, no.3, pp.1330-1338, 2013 (SCI-Expanded)
- XX. **Synthesis, Characterization and Antimicrobial Activity of a New Aromatic Sulfonyl Hydrazone Derivative and Its Transition Metal Complexes**  
ASLAN H. G., KARACAN N., Aslan E.  
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.60, no.2, pp.212-217, 2013 (SCI-Expanded)
- XXI. **The antibacterial activity of some sulfonamides and sulfonyl hydrazones, and 2D-QSAR study of a series of sulfonyl hydrazones**  
ASLAN H. G., ÖZCAN S., KARACAN N.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.98, pp.329-336, 2012 (SCI-Expanded)
- XXII. **Synthesis, characterization and antimicrobial activity of m-toluenesulfonamide, N,N'-1,2-ethanediylbis (mtsen) and [Cu(II)(phenanthroline)(2)]mtsen complex**  
ALYAR H., Alyar S., ÜNAL A., ÖZBEK N., ŞAHİN E., KARACAN N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1028, pp.116-125, 2012 (SCI-Expanded)
- XXIII. **Synthesis, characterization, and antibacterial activity of the ligands including thiophene/furan ring systems and their Cu(II), Zn(II) complexes**  
BALABAN GÜNDÜZALP A., ÖZBEK N., KARACAN N.  
MEDICINAL CHEMISTRY RESEARCH, vol.21, no.11, pp.3435-3444, 2012 (SCI-Expanded)
- XXIV. **Quantitative structure-activity relationship analysis of perfluoroiso-propyldinitrobenzene derivatives known as photosystem II electron transfer inhibitors**  
KARACAN M. S., Yakan C., Yakan M., KARACAN N., Zharmukhamedov S. K., Shitov A., Los D. A., Klimov V. V., Allakhverdiev S. I.  
BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS, vol.1817, no.8, pp.1229-1236, 2012 (SCI-Expanded)
- XXV. **Conformational analysis, vibrational and NMR spectroscopic study of the methanesulfonamide-N,N'-1,2-ethanediylbis**  
ALYAR H., ÜNAL A., ÖZBEK N., Alyar S., KARACAN N.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.91, pp.39-47, 2012 (SCI-Expanded)

- XXVI. **Synthesis, crystal structure, antibacterial activities, and electrochemical studies of new N,N'-polymethylene bis-sulfonamides**  
ÖZBEK N., Alyar S., Mamas S., ŞAHİN E., KARACAN N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1010, pp.1-7, 2012 (SCI-Expanded)
- XXVII. **Synthesis, characterization and antimicrobial activity of salicylaldehyde benzenesulfonylhydrazone (Hsalbsmh) and its Nickel(II), Palladium(II), Platinum(II), Copper(II), Cobalt(II) complexes**  
ASLAN H. G., ÖZCAN S., KARACAN N.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.14, no.9, pp.1550-1553, 2011 (SCI-Expanded)
- XXVIII. **Synthesis, characterization, spectroscopic properties, theoretical calculation, and antimicrobial activity of new aryldisulfonamides**  
Alyar S., ZENGİN H., ÖZBEK N., KARACAN N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.992, pp.27-32, 2011 (SCI-Expanded)
- XXIX. **Quantitative structure-activity relationships studies for prediction of antimicrobial activity of synthesized disulfonamide derivatives**  
Alyar S., ÖZBEK N., Kuzukiran K., KARACAN N.  
MEDICINAL CHEMISTRY RESEARCH, vol.20, no.2, pp.175-183, 2011 (SCI-Expanded)
- XXX. **Experimental and theoretical studies on methanesulfonic acid 1-methylhydrazide: Antimicrobial activities of its sulfonyl hydrazone derivatives**  
ÖZBEK N., Alyar S., KARACAN N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.938, pp.48-53, 2009 (SCI-Expanded)
- XXXI. **Synthesis, characterization, antimicrobial activity and structure-activity relationships of new aryldisulfonamides**  
Alyar S., KARACAN N.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.24, no.4, pp.986-992, 2009 (SCI-Expanded)
- XXXII. **Structure, antibacterial activity and theoretical study of 2-hydroxy-1-naphthaldehyde-N-methylethanesulfonylhydrazone**  
ÖZBEK N., Kavak G., Ozcan Y., İDE S., KARACAN N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.919, pp.154-159, 2009 (SCI-Expanded)
- XXXIII. **Tautomeric properties, conformations and structure of 2-hydroxyacetophenone methanesulfonylhydrazone**  
Alyar S., Ozmen Ü., Karacan N., Senturk O. S., Udachin K. A.  
Journal of Molecular Structure, vol.889, no.1-3, pp.144-149, 2008 (SCI-Expanded)
- XXXIV. **Synthesis, characterization and antimicrobial activity of new aliphatic sulfonamide**  
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- XXXV. **Synthesis and antimicrobial activity of new substituted arylsulfonamides**  
Alyar S., Ozbek N., Karacan N.  
DRUGS OF THE FUTURE, vol.32, pp.126-127, 2007 (SCI-Expanded)
- XXXVI. **Synthesis, characterization and antimicrobial activity of new butanesulfonamides**  
Ozbek N., Alyar S., Karacan N.  
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- XXXVII. **Synthesis characterization and antimicrobial activity of new aliphatic sulfonamide**  
ÖZBEK N., KATIRCIOĞLU H., KARACAN N., TÜLAY B.  
Bioorganic and Medicinal Chemistry, vol.15, no.15, pp.5105-5109, 2007 (SCI-Expanded)
- XXXVIII. **Photochemical reactions of metal carbonyls [M(CO)(6) (M = Cr, Mo, W), Re(CO)(5)Br, Mn(CO)(3)Cp] with salicylaldehyde ethanesulfonylhydrazone (Hsalesh)**  
Senturk O. S., Ozdemir Ü., Sert S., Karacan N., Ugur F.  
JOURNAL OF COORDINATION CHEMISTRY, vol.60, no.2, pp.229-235, 2007 (SCI-Expanded)
- XXXIX. **Reaction of metal carbonyls with 2-hydroxy-1-naphthaldehyde methanesulfonylhydrazone and characterization of the substitution products**  
Ozdemir Ü., Senturk O. S., Sert S., Karacan N., Ugur F.

- JOURNAL OF COORDINATION CHEMISTRY, vol.59, no.17, pp.1905-1911, 2006 (SCI-Expanded)
- XL. **Synthesis and characterization of metal carbonyl complexes of  $M(CO)_6$  ( $M = Cr, Mo, \text{ and } W$ ),  $Re(CO)_5Br$ , and  $Mn(CO)_3CP$  with - Acetonemethanesulfonylhydrazone (amsh) and methanesulfonylhydrazone (msh)**  
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SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.34, no.6, pp.1057-1067, 2004 (SCI-Expanded)
- XLII. **Synthesis and characterization of the products from reaction of metal carbonyls  $[M(CO)_6]$  ( $M = Cr, Mo, W$ ),  $Re(CO)_5Br$ ,  $Mn(CO)_3Cp$ ] with salicylaldehyde methanesulfonylhydrazone**  
Sert S., Senturk O., Ozdemir Ü., Karacan N., Ugur F.  
JOURNAL OF COORDINATION CHEMISTRY, vol.57, no.3, pp.183-188, 2004 (SCI-Expanded)
- XLIII. **Synthesis and characterization of some metal carbonyls with 2-hydroxyacetophenone ethanesulfonylhydrazone**  
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- XLIV. **Photochemical reactions of metal carbonyls  $[M(CO)_6]$  ( $M=Cr, Mo \text{ and } W$ ),  $Re(CO)_5Br$ ,  $Mn(CO)_3Cp$ ] with 2-hydroxyacetophenone methanesulfonylhydrazone (apmsh)**  
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TRANSITION METAL CHEMISTRY, vol.28, no.4, pp.443-446, 2003 (SCI-Expanded)
- XLV. **Vibrational spectroscopic study of [1,2-bis(4-pyridyl)ethane]metal(II) tetracyanonickelate(II). 2 m-xylene clathrates**  
Tufan Y., Karacan N., Ozdemir Ü.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.40, no.4, pp.275-278, 2001 (SCI-Expanded)
- XLVI. **Redox characteristics of manganese and cobalt complexes obtained from pyridine N-oxide**  
Hotchandani S., Ozdemir Ü., Allakhverdiev S., Karacan N., Klimov V., Kamat P., Carpentier R.  
BIOELECTROCHEMISTRY, vol.51, no.2, pp.175-180, 2000 (SCI-Expanded)
- XLVII. **Vibrational spectroscopic investigations of  $M(\text{imidazole})_2 Ni(CN)_4$  center dot  $2C_6H_{12}$  clathrates**  
Tufan Y., Karacan N., Davies J.  
VIBRATIONAL SPECTROSCOPY, vol.23, no.1, pp.51-55, 2000 (SCI-Expanded)
- XLVIII. **Structure and vibrational spectroscopy of methanesulfonic acid hydrazide: an experimental and theoretical study**  
Ienco A., Mealli C., Paoli P., Dodoff N., Kantarci Z., Karacan N.  
NEW JOURNAL OF CHEMISTRY, vol.23, no.12, pp.1253-1260, 1999 (SCI-Expanded)
- XLIX. **Schiff bases of methanesulfonylhydrazine. Synthesis, spectroscopic characterization, conformational analysis, and biological activity**  
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ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.54, no.12, pp.1553-1562, 1999 (SCI-Expanded)
- L. **Reconstruction of the water-oxidizing complex in manganese-depleted photosystem II preparations using mononuclear manganese complexes**  
Allakhverdiev S., Ozdemir Ü., Harnois J., Karacan N., Hotchandani S., Klimov V., Murata N., Carpentier R.  
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- LI. **Vibrational spectroscopic investigations of  $M(\text{imidazole})_2 Ni(CN)_4$  center dot 2 dioxane clathrates**  
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JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.33, no.2, pp.149-154, 1999 (SCI-Expanded)
- LII. **Redox characteristics of Schiff base manganese and cobalt complexes related to water-oxidizing complex of photosynthesis**

- Hotchandani S., Ozdemir Ü., Nasr C., Allakhverdiev S., Karacan N., Klimov V., Kamat P., Carpentier R.  
BIOELECTROCHEMISTRY AND BIOENERGETICS, vol.48, no.1, pp.53-59, 1999 (SCI-Expanded)
- LII. **Infrared spectroscopic study of bis[1,2-bis(4-pyridyl)ethane]cadmium(II) tetracyanonickelate(II)-m-xylene (1/2) clathrate and its host structure**  
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- LIII. **Spectrophotometric determination of the stability constants of Cu(II) and Fe(III) complexes with some aryl Schiff bases**  
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- LIV. **Bis(1,2-di-4-pyridylethane-N:N') cadmium(II) tetracyanonickelate(II) m-xylene solvate**  
GÜNEŞ B., Soylu H., Ozbey S., Tufan Y., Karacan N.  
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