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Biyografi

Atif KOCA is a full professor of Chemical Engineering and Director of Electrochemical Technologies and Energy Laboratory in the Faculty of Engineering at Marmara University. He is a member of Turkish Academy of Sciences. Renowned for his pioneering works in the area of renewable energy technologies and electrochemical technologies he has authored and co-authored in more than two thousands refereed journal and conference papers. He has chaired many national and international conferences, symposia, workshops and technical meetings. He has actively been working in the areas of hydrogen energy, catalytic processes and electrochemical technologies, and his group has developed various novel technologies/methods/etc.

Öğrenim Bilgisi

Doktora 1998 - 2002	Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizikokimya (Dr), Türkiye
Yüksek Lisans 1996 - 1998	Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizikokimya (YI) (Tezli), Türkiye
Lisans 1990 - 1995	Marmara Üniversitesi, Atatürk Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Türkiye

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Bazı porfirazin komplekslerinin voltametrik incelenmesi, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizikokimya (Dr), 2002

Yüksek Lisans, Hidrojen (H₂) üretimi ve yakıt olarak kullanımı, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizikokimya (YI) (Tezli), 1998

Akademik Unvanlar / Görevler

Prof. Dr.
2013 - Devam Ediyor

Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Doç. Dr.
2007 - 2013

Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Yrd. Doç. Dr.
2002 - 2007

Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

Araştırma Görevlisi
1996 - 2002

Marmara Üniversitesi, Atatürk Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü

Desteklenen Projeler

1. Koca A., Yükseköğretim Kurumları Destekli Proje, Titanil ftalosiyanın Elektropolimeri temelli Seçici Flörür Sensör Elektrodu, 2018 - 2019
2. Koca A., Akyüz D., Yükseköğretim Kurumları Destekli Proje, Fotokatalitik Hidrojen Üretimi İçin Aktif Fotokatalizörlerin Sentezi, 2017 - 2019
3. Koca A., Özkaya A. R., Karaca Albayrak F., Sarioğlu C., TÜBİTAK Projesi, Fotoelektrokimyasal-Fotokatalitik Hidrojen Üretim Reaksiyonları (PEPCHER) ile Saf Hidrojen Üretimi, 2017 - 2019
4. Koca A., Yükseköğretim Kurumları Destekli Proje, FTALOSİYANİN KOMPLEKSLERİNİN ELEKTROKROMİK ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2018
5. Koca A., Yargı Ö., TÜBİTAK Projesi, Yüksek Enerji Yoğunluklu Asimetrik Süperkapasitör Üretimi, 2016 - 2018
6. Koca A., Sesal N. C., TÜBİTAK Projesi, Marmara Doğa Bilimlerine Yönelik Araştırma Projesi Hazırlama Eğitimi, 2017 - 2017
7. Koca A., Sesal N. C., Yükseköğretim Kurumları Destekli Proje, AHL Moleküllerinin Elektrokimyasal Metod İle Algılanması, 2016 - 2017
8. Koca A., Yükseköğretim Kurumları Destekli Proje, Kompozit Elektrotların Modifikasyonu Karakterizasyonu ve Biyosensör Uygulamaları, 2016 - 2017
9. Koca A., TÜBİTAK Uluslararası İkili İşbirliği Projesi, Synthesis And Characterization Of Conductive Electroactive Polymers And Their Usability For Metallization Of Plastics, 2015 - 2017
10. Koca A., Bayır Z., TÜBİTAK Projesi, Polimerleşebilir Sübstitüentler İçeren Ftalosiyanın İletkenlik Gaz Sensör ve Elektrokatalitik Özellikleri, 2015 - 2017
11. Koca A., AB Destekli Diğer Projeler, Metalliftalosiyanın temelli iletken redoks aktif polimerlerin geliştirilmesi ve elektrokimyasal pestisit sensörü olarak kullanımları, 2015 - 2017
12. Koca A., TÜBİTAK Projesi, Fotokatalitik Elektrokatalitik İkili Hidrojen Üretim Sistemi, 2014 - 2017
13. Koca A., TÜBİTAK Projesi, ELEKTROKATALİTİK HİDROJEN ÜRETİMİ, 2015 - 2016
14. Koca A., Balun Kayan D., TÜBİTAK Projesi, İletken Polimer Metal Nanokompozit Yapılarının Hidrojen Üretiminde Elektrokatalitik Aktivitelerinin İncelenmesi, 2014 - 2016
15. Koca A., Yükseköğretim Kurumları Destekli Proje, Elektrokimyasal olarak polimerleştirilen Metalli ftalosiyanın Elektrokromik özellikleri, 2014 - 2015
16. Koca A., TÜBİTAK Projesi, Ftalosiyanın Elektrokimyasal ve Spektrokimyasal Özelliklerinin Araştırılması, 2014 - 2015
17. Koca A., Yükseköğretim Kurumları Destekli Proje, Fonksiyonel Ftalosiyanın temelli modifiye elektrotların hazırlanması karakterizasyonu ve teknolojiye uygulama alanlarının belirlenmesi, 2013 - 2015
18. Koca A., Ünsal Y., Diğer Resmi Kurumlarca Desteklenen Proje, Eğitimde İşbirliği(MEB, Bilim, Sanayi ve Teknoloji Bakanlığı ve TÜBİTAK), 2012 - 2015
19. Koca A., Yükseköğretim Kurumları Destekli Proje, ChE Biyosensörünün Pestisit Tayinindeki Hassasiyetinin Farklı

Kompozit Elektrotlar Kullanılarak Geliştirilmesi, 2011 - 2015

20. Koca A., TÜBİTAK Projesi, Elektrokromik Substituentler İçeren Ftalosiyanın Komplekslerinin Polielektrokromik Özelliklerinin İncelenmesi Ve Elektrokromik Görüntüleme Cihazlarında Uygulamaları, 2011 - 2013
21. Koca A., Kandaz M., TÜBİTAK Projesi, Floresans Fonksiyonel Gruplar İçeren Ftalosiyanın Sentezi Sol jel Polimerik Matriks İnce Filmlerinin Hazırlanması ve Sensör Olarak Kullanılması, 2008 - 2010
22. Koca A., TÜBİTAK Projesi, Hidrojen Üretiminde Ftalosiyanın Komplekslerinin Elektrokatalitik Aktivitelerinin İncelenmesi, 2006 - 2009
23. Koca A., TÜBİTAK Projesi, Ftalosiyanın ve Porfirazin gibi Makrosiklik Komplekslerin Elektrokimyasal Spektroelektrokimyasal ve elektrokatalitik özelliklerinin incelenmesi, 2005 - 2006
24. Koca A., Kandaz M., TÜBİTAK Projesi, Optik ve Elektrokromik ve Sensör Özellik Taşıyan Yeni Tip Makromoleküllerin Hazırlanması, 2003 - 2005

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **Synthesis, characterization, electrochemistry and spectroelectrochemistry of new non-peripherally hexyl benzoate substituted CoII, CuII, MnIII(Cl) phthalocyanines**
Kılıçarslan F. A., ERDOĞMUŞ A., Bilgen E., KOCA A.
Inorganica Chimica Acta, cilt.580, 2025 (SCI-Expanded)
2. **Metallo-phthalocyanines bearing 5,7-dichloro-8-hydroxy-2-methylquinoline substituents: Synthesis, electrochemistry and spectroelectrochemistry**
DEMİRBAŞ Ü., Elmalı N., KOCA A., KANTEKİN H.
Journal of Organometallic Chemistry, cilt.1031, 2025 (SCI-Expanded)
3. **One-pot electrodeposition of nickel cobalt sulfide-reduced graphene oxide hybrid structures for high-performance supercapacitor applications**
Budak Ö., KOCA A.
Journal of Energy Storage, cilt.113, 2025 (SCI-Expanded)
4. **Electrodeposited molybdenum-tungsten oxide thin films decorated with cobalt phthalocyanine-reduced graphene oxide composites as functional capacitance materials for asymmetric supercapacitors**
Budak Ö., Öztürk N. F., KOCA A.
Materials Science in Semiconductor Processing, cilt.188, 2025 (SCI-Expanded)
5. **Optimizing the electrocatalytic hydrogen production with vanadyl porphyrin impregnated on mesoporous SiO₂ nanoparticles**
Mylytkbayeva Z., López Nieto J. M., Moreno-Torralbo B. M., Concepción P., Abylaikhan A., KOCA A.
Electrochimica Acta, cilt.514, 2025 (SCI-Expanded)
6. **Schiff base substituted non-peripheral symmetrical copper, cobalt, and manganese phthalocyanines: Synthesis, design, electrochemistry, and spectroelectrochemistry**
Yalazan H., KURTULUŞ Z., KOCA A., KANTEKİN H.
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7. **Selective and sensitive molecularly imprinted polymer-based electrochemical sensor for detection of deltamethrin**
Mutlu E., Şenocak A., Demirbaş E., KOCA A., Akyüz D.
Food Chemistry, cilt.463, 2025 (SCI-Expanded)
8. **Highly efficient iron and cobalt benzimidazole metal organic framework electrocatalysts for hydrogen evolution reaction**
Vetti K. J., KOCA A.
International Journal of Hydrogen Energy, cilt.97, ss.214-225, 2025 (SCI-Expanded)
9. **Electrodeposition of Manganese (III) Phthalocyanine/ Reduced Graphene Oxide for Asymmetric Supercapacitor Devices**
Yenilmez H. Y., Farajzadeh Öztürk N., Budak Ö., İpsiz Öney Ö., KOCA A., Altuntaş Bayır Z.

Chemistry - An Asian Journal, cilt.19, sa.24, 2024 (SCI-Expanded)

10. **Structural insights and photophysical properties of mononuclear and pentanuclear Zn(II) acetate complexes with pyridyl-based thiazolyl-hydrazones**
Araškov J. B., Garcia-Sosa A. T., Višnjevac A., Sousa S. F., Holló B. B., Uğuz Ö., KOCA A., Monge M., Rodríguez-Castillo M., López-de-Luzuriaga J. M., et al.
Polyhedron, cilt.262, 2024 (SCI-Expanded)
11. **Investigation of the Performances of TiO₂ and Pd@TiO₂ in Photocatalytic Hydrogen Evolution and Hydrogenation of Acetylenic Compounds for Application in Photocatalytic Transfer Hydrogenation**
Talgatov E. T., Naizabayev A. A., Kenzheyeva A. M., Myltykbayeva Z. K., KOCA A., Bukharbayeva F. U., Akhmetova S. N., Yersaiyn R., Auyezkhanova A. S.
Catalysts, cilt.14, sa.10, 2024 (SCI-Expanded)
12. **Electrode modifications with electrophoretic deposition methods for water electrolyzers**
Turan R., Bilgen E., KOCA A.
International Journal of Hydrogen Energy, cilt.81, ss.675-706, 2024 (SCI-Expanded)
13. **Metal Phthalocyanine Sensitized Photoelectrochemical Cell Assembling with Azide-Functionalized Reduced Graphene and Quaternary Metal Chalcogenide Composites**
Ezgi Varol D., UĞUZ NELİ Ö., BUDAK Ö., KESKİN B., KOCA A.
ChemElectroChem, cilt.11, sa.9, 2024 (SCI-Expanded)
14. **Polyindole coated NiCo₂S₄ composites as high-performance supercapacitor electrode materials**
Otluca H. E., BUDAK Ö., BİLİCİ A., KOCA A.
Journal of Energy Storage, cilt.86, 2024 (SCI-Expanded)
15. **Electrochemical, spectroelectrochemical, and electrochromic characterization of silicon(IV) phthalocyanine with axially ligated electropolymerizable 3,4-ethylenedioxythiophene moieties**
Yıldız B., BUDAK Ö., KOCA A., ŞENER M. K.
Dyes and Pigments, cilt.223, 2024 (SCI-Expanded)
16. **Synthesis, characterization, electrochemistry and spectroelectrochemistry of new peripherally substituted lutetium bis phthalocyanines**
Kılıçarslan F. A., ERDOĞMUŞ A., BUDAK Ö., KOCA A.
Inorganica Chimica Acta, cilt.561, 2024 (SCI-Expanded)
17. **B, P, and S heteroatom doped, bio- and hemo-compatible 2D graphitic-carbon nitride (g-C₃N₄) with antioxidant, light-induced antibacterial, and bioimaging endeavors**
Demirci S., Suner S. S., Neli Ö., KOCA A., ŞAHİNER N.
Nanotechnology, cilt.35, sa.2, 2024 (SCI-Expanded)
18. **Electrochromic molecular imprinted polymer sensor for detection of selective acetamiprid**
Mutlu E., Şenocak A., Demirbaş E., KOCA A., Akyüz D.
Microchemical Journal, cilt.196, 2024 (SCI-Expanded)
19. **Supercapacitive properties of carbazole-containing cobalt(ii) phthalocyanines/reduced graphene oxide composites**
Yenilmez H. Y., BUDAK Ö., Öztürk N. F., KOCA A., Boz A., Ustamehmetoğlu B., Altuntaş Bayır Z.
Dalton Transactions, cilt.53, sa.4, ss.1766-1778, 2023 (SCI-Expanded)
20. **Electrochemistry and in-situ spectroelectrochemistry properties of N-, S-substituted-1,4-naphthoquinone compounds (NQ's)**
Ozyildiz Z., Erkan C., DENİZ N. G., GÖKMEN Z., Neli Ö. U., KOCA A.
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21. **Investigation of electrochemical and spectroelectrochemical properties of some amino-substituted naphthoquinones (NQs)**
Ozyildiz Z., Gezer D., DENİZ N. G., GÖKMEN Z., Neli Ö. U., KOCA A.
Journal of Electroanalytical Chemistry, cilt.946, 2023 (SCI-Expanded)
22. **Chloromanganese and oxo-Titanium (IV) phthalocyanines: Synthesis, electrochemistry and Spectroelectrochemistry**
DİLBER G., NAS A., BUDAK Ö., KOCA A.

Polyhedron, cilt.242, 2023 (SCI-Expanded)

23. **Influence of 2-naphthoic acid anchoring groups to the photovoltaic performance of zinc phthalocyanine-based photosensitizers in dye-sensitized solar cell**
Köse G. G., Karaoğlu G. K., Maden Y., KOCA A.
Journal of Electroanalytical Chemistry, cilt.945, 2023 (SCI-Expanded)
24. **Improved photoelectrochemical hydrogen production performance of reduced graphene oxide-cadmium zinc sulfoselenide photoelectrodes prepared by a Facile In-situ Electrosynthesis method**
NELİ Ö. U., BUDAK Ö., KOCA A.
Electrochimica Acta, cilt.458, 2023 (SCI-Expanded)
25. **Effects of anchoring and spacer groups of asymmetric zinc phthalocyanines on the photovoltaic performance of dye-sensitized solar cells**
Köse G. G., Karaoğlu G. K., Maden Y., KOCA A.
New Journal of Chemistry, cilt.47, sa.28, ss.13497-13507, 2023 (SCI-Expanded)
26. **Structural, physicochemical and anticancer study of Zn complexes with pyridyl-based thiazolyl-hydrazones**
Araškov J. B., Maciejewska N., Olszewski M., Višnjevac A., Blagojević V., Fernandes H. S., Sousa S. F., Puerta A., Padrón J. M., Holló B. B., et al.
Journal of Molecular Structure, cilt.1281, 2023 (SCI-Expanded)
27. **Design of novel metal chalcogenide photoanodes supported with reduced graphene oxide for improvement of photoelectrochemical hydrogen evolution**
Neli Ö., BUDAK Ö., KARACA ALBAYRAK F., KESKİN B., ÖZKAYA A. R., KOCA A.
Journal of Photochemistry and Photobiology A: Chemistry, cilt.440, 2023 (SCI-Expanded)
28. **Crystal structures, antioxidant, electrochemical and in-situ spectroelectrochemical properties of new bisthiocarbohydrazones and their Ni(II) complexes**
KAYA Y., ERÇAĞ A., Uğuz Ö., Zorlu Y., KOCA A.
Inorganica Chimica Acta, cilt.549, 2023 (SCI-Expanded)
29. **Electro-stimulated drug release by methacrylated hyaluronic acid-based conductive hydrogel with enhanced mechanical properties**
AYCAN D., KARACA ALBAYRAK F., KOCA A., Alemdar N.
International Journal of Biological Macromolecules, cilt.231, 2023 (SCI-Expanded)
30. **Electrochemical and spectroelectrochemical characterizations of phthalocyanines bearing peripherally tetra-4-carboxyethylenephenoxy anchoring groups and usage as photosensitizers of dye-sensitized solar cell**
Maden Y., Köse G. G., Karaoğlu G. K., KOCA A.
Journal of Electroanalytical Chemistry, cilt.929, 2023 (SCI-Expanded)
31. **A detailed experimental and computational study of Cd complexes with pyridyl-based thiazolyl hydrazones**
Kokanov S. B., Filipovic N. R., Visnjevac A., Nikolic M., Novakovic I., Janjic G., Hollo B. B., Ramotowska S., Nowicka P., Makowski M., et al.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.37, sa.1, 2023 (SCI-Expanded)
32. **Synthesis, Electrochemistry, Spectroelectrochemistry, and Electrochromism of Metallophthalocyanines Substituted with Four (2,4,5-trimethylphenyl)ethynyl Groups**
Ozcan S., Kobak R. Z., BUDAK Ö., KOCA A., Bayır Z.
ELECTROANALYSIS, cilt.34, sa.10, ss.1610-1620, 2022 (SCI-Expanded)
33. **Utilization of pyrazole-perimidine hybrids bearing different substituents as corrosion inhibitors for 304 stainless steel in acidic media**
Uğus Ö., GÜMÜŞ M., SERT Y., KOCA İ., KOCA A.
Journal of Molecular Structure, cilt.1262, 2022 (SCI-Expanded)
34. **Non-peripheral tetra methoxylated pyrazoline bearing Co-II, Cu-II and (MnCl)-Cl-III phthalocyanines: Syntheses, electrochemistry and spectroelectrochemistry**
Yalazan H., KANTEKİN H., BUDAK Ö., KOCA A.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.973, 2022 (SCI-Expanded)

35. **Synthesis, characterization, electrochemical, spectroelectrochemical and dye-sensitized solar cell properties of Phthalocyanines Containing Carboxylic Acid Anchoring Groups as photosensitizer**
Karaoglan G. K., Hisir A., ERDAĞ MADEN Y., Karakus M. O., KOCA A.
DYES AND PIGMENTS, cilt.204, 2022 (SCI-Expanded)
36. **Zinc(II) phthalocyanine-viologen dyads: synthesis, electrochemistry, spectroelectrochemistry, electrodeposition, and electrochromism**
YILDIZ B., AHMETALİ E., BUDAK Ö., KOCA A., ŞENER M. K.
NEW JOURNAL OF CHEMISTRY, cilt.46, sa.16, ss.7410-7423, 2022 (SCI-Expanded)
37. **Simultaneous electrochemical deposition of nickel cobalt oxide-reduced graphene oxide composites for high performance asymmetric supercapacitors**
BUDAK Ö., UĞUZ Ö., KOCA A.
JOURNAL OF ENERGY STORAGE, cilt.47, 2022 (SCI-Expanded)
38. **Synthesis, electrochemistry, and electrocatalytic activity of thiazole-substituted phthalocyanine complexes**
Demir F., Yenilmez H. Y., KOCA A., Bayır Z.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, cilt.26, sa.3, ss.761-772, 2022 (SCI-Expanded)
39. **Enhanced photoelectrochemical activity of magnetically modified TiO₂ prepared by a simple ex-situ route**
Yilmaz S., KERKEZ KUYUMCU Ö., BAYAZİT Ş. S., Ayaz R. M. Z., Akyuz D., KOCA A.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, cilt.26, sa.1, ss.245-255, 2022 (SCI-Expanded)
40. **Double-decker lutetium phthalocyanine functionalized with 4-phenylthiazol-2-thiol moieties: Synthesis, characterization, electrochemistry, spectroelectrochemistry and electrochromism**
Beduoğlu A., BUDAK Ö., Sevim A. M., KOCA A., Bayır Z.
Polyhedron, cilt.209, 2021 (SCI-Expanded)
41. **Manganese phthalocyanine and its graphene quantum dot conjugate: Synthesis, characterization electrochemistry, spectroelectrochemistry, electropolymerization, and electrochromism**
AlMarzouq D., A. Majeed S., BUDAK Ö., KOCA A.
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42. **New asymmetric bithiocarbohydrazones and their mixed ligand nickel(II) complexes: Synthesis, characterization, crystal structure, electrochemical-spectroelectrochemical property, antimicrobial and antioxidant activity**
KAYA Y., ERÇAĞ A., UĞUZ Ö., KOCA A., Zorlu Y., HACIOĞLU M., Seher Birteksöz Tan A.
Polyhedron, cilt.207, 2021 (SCI-Expanded)
43. **Hybrid photoelectrochemical-photocatalytic hydrogen evolution reaction with reduced graphene oxide-binary metal chalcogenide composites**
UĞUZ Ö., KOCA A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.45, sa.13, ss.19303-19315, 2021 (SCI-Expanded)
44. **Simultaneous electrodeposition of electrochemically reduced graphene oxide-binary metal chalcogenide composites to enhance photoelectrochemical performance**
UĞUZ Ö., BUDAK Ö., KOCA A.
International Journal of Hydrogen Energy, cilt.46, ss.35290-35301, 2021 (SCI-Expanded)
45. **Synthesis, electrochemical and in-situ spectroelectrochemical properties of 1,2,4 triazole containing metallo-phthalocyanines**
Akyuz D., DEMİRBAŞ Ü., KOCA A., AKÇAY H. T., MENTEŞE E., KANTEKİN H.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, cilt.99, sa.1-2, ss.99-108, 2021 (SCI-Expanded)
46. **Synthesis, electrochemistry, in-situ spectroelectrochemistry and molecular structures of 1,4-naphthoquinone derivatives**
DENİZ N. G., Sayıl C., Akyuz D., KOCA A.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1224, 2021 (SCI-Expanded)

47. **Solar-hydrogen production with reduced graphene oxide supported Cd_xZn_{1-x}S photocatalysts**
Tanişik İ., UĞUZ Ö., Akyüz D., Zunain Ayaz R. M., SARIOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
International Journal of Hydrogen Energy, cilt.45, sa.60, ss.34845-34856, 2020 (SCI-Expanded)
48. **Photoelectrochemical performance of thermally sulfurized Cd_xZn_{1-x}S photoanode: Enhancement with reduced graphene oxide support**
Zunain Ayaz R., Akyüz D., UĞUZ Ö., Tanşık İ., SARIOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
RENEWABLE ENERGY, cilt.162, ss.182-195, 2020 (SCI-Expanded)
49. **Cobalt(II)/(III) complexes bearing a tetradentate thiosemicarbazone: Synthesis, experimental and theoretical characterization, and electrochemical and antioxidant properties**
Kaya B., Akyuz D., Karakurt T., Sahin O., KOCA A., ÜLKÜSEVEN B.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.34, sa.11, 2020 (SCI-Expanded)
50. **Electrochemistry of novel tetra peripherally and non-peripherally substituted phthalocyanines bearing morpholine groups**
Akyuz D., DEMİRBAŞ Ü., AKÇAY H. T., KOCA A., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.924, 2020 (SCI-Expanded)
51. **Photocatalytic and photoelectrochemical performances of Mo, Ni and Cu decorated metal chalcogenides**
Akyuz D., ÖZKAYA A. R., KOCA A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.116, 2020 (SCI-Expanded)
52. **Electrochemical and spectroelectrochemical characterizations of new tetra-substituted metallophthalocyanines bearing 4-(trifluoromethoxy)phenoxy groups on non-peripheral positions**
Farajzadeh N., Akyuz D., KOCA A., Kocak M. B.
MONATSHFTE FÜR CHEMIE, cilt.151, sa.9, ss.1337-1348, 2020 (SCI-Expanded)
53. **Electrochemistry of Novel Phthalocyanines Bearing 1,2,4 Triazole Groups**
Akyuz D., DEMİRBAŞ Ü., Akcay H. T., Mentese E., KOCA A., KANTEKİN H.
ELECTROANALYSIS, cilt.32, sa.7, ss.1433-1438, 2020 (SCI-Expanded)
54. **The Synthesis, Characterization, Electrochemical and Spectroelectrochemical Properties of Novel Unsymmetrical Phthalocyanines Containing Naphthoic Acid and Di-tert-butylphenoxy Groups**
GÜMRÜKÇÜ KÖSE G., KESER KARAOĞLAN G., Isik S. N., Akyuz D., KOCA A.
SYNTHETIC METALS, cilt.264, 2020 (SCI-Expanded)
55. **An alternative strategy to detect bacterial contamination in milk and water: a newly designed electrochemical biosensor**
Ozcan S. M., SESAL N. C., ŞENER M. K., KOCA A.
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, cilt.246, sa.6, ss.1317-1324, 2020 (SCI-Expanded)
56. **Synthesis, electrochemical and spectroelectrochemical properties of novel soluble peripheral tetra triazole substituted Co-II, Cu-II, (MnCl)-Cl-III and (TiO)-O-IV phthalocyanines**
Yalazan H., Akyuz D., Unluer D., KOCA A., KANTEKİN H., SANCAK K.
POLYHEDRON, cilt.180, 2020 (SCI-Expanded)
57. **New square-planar nickel(II)-triphenylphosphine complexes containing ONS donor ligands: Synthesis, characterization, electrochemical and antioxidant properties**
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Akademik İdari Deneyim

2016 - Devam Ediyor	Bölüm Başkanı	Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü
2015 - Devam Ediyor	Anabilim/Bilim Dalı Başkanı	Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü

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Kimyasal Teknolojiler, Elektrokimyasal Teknolojiler, Elektrokimya, İletken Polimerler, Nanokompozitler, Polimerik Filmler, Yakıt Pilleri, Kataliz, Organometalik Kimya

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