

ATIF KOCA

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International Researcher IDs

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Biography

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.

Education

Doctorate 1998 - 2002	Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Fizikokimya (Dr), Turkey
Postgraduate 1996 - 1998	Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Fizikokimya (Yl) (Tezli), Turkey
Undergraduate 1990 - 1995	Marmara University, Ataturk Faculty of Education, Mathematics and Science Education, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı porfirazin komplekslerinin voltametrik incelenmesi, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Fizikokimya (Dr), 2002

Postgraduate, Hidrojen (H₂) üretimi ve yakıt olarak kullanımı, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Fizikokimya (Yl) (Tezli), 1998

Academic Positions

Professor
2013 - Continues

Marmara University, Faculty of Engineering, Chemical Engineering

Associate Professor
2007 - 2013

Marmara University, Faculty of Engineering, Chemical Engineering

Assistant Professor
2002 - 2007

Marmara University, Faculty of Engineering, Chemical Engineering

Research Assistant
1996 - 2002

Marmara University, Ataturk Faculty of Education, Mathematics and Science
Education

Funded Projects

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

Hassasiyetinin Farklı Kompozit Elektrotlar Kullanılarak Geliştirilmesi, 2011 - 2015

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

Journal articles indexed in SCI, SSCI, and AHCI

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, vol.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, vol.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, vol.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, vol.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, vol.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.
Journal of Molecular Structure, vol.1321, 2025 (SCI-Expanded)
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, vol.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, vol.97, pp.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.

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, vol.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, vol.14, no.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, vol.81, pp.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, vol.11, no.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, vol.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, vol.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, vol.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, vol.35, no.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, vol.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, vol.53, no.4, pp.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.
Journal of Electroanalytical Chemistry, vol.950, 2023 (SCI-Expanded)
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, vol.946, 2023 (SCI-Expanded)
22. **Chloromanganese and oxo-Titanium (IV) phthalocyanines: Synthesis, electrochemistry and Spectroelectrochemistry**
DİLBER G., NAS A., BUDAK Ö., KOCA A.

Polyhedron, vol.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, vol.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, vol.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, vol.47, no.28, pp.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, vol.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, vol.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, vol.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, vol.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, vol.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, vol.37, no.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, vol.34, no.10, pp.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, vol.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, vol.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, vol.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, vol.46, no.16, pp.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, vol.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, vol.26, no.3, pp.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, vol.26, no.1, pp.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, vol.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.
Inorganica Chimica Acta, vol.527, 2021 (SCI-Expanded)
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, vol.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, vol.45, no.13, pp.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, vol.46, pp.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, vol.99, no.1-2, pp.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, vol.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, vol.45, no.60, pp.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, vol.162, pp.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, vol.34, no.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, vol.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, vol.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, vol.151, no.9, pp.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, vol.32, no.7, pp.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, vol.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, vol.246, no.6, pp.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, vol.180, 2020 (SCI-Expanded)
57. **New square-planar nickel(II)-triphenylphosphine complexes containing ONS donor ligands: Synthesis, characterization, electrochemical and antioxidant properties**
Kaya Y., Erçağ A., Koca A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1206, 2020 (SCI-Expanded)
58. **Thiazole-substituted non-symmetrical metallophthalocyanines: synthesis, characterization, electrochemical and heavy metal ion sensing properties**
Beduoglu A., Sevim A. M., KOCA A., ALTINDAL A., Bayır Z.
NEW JOURNAL OF CHEMISTRY, vol.44, no.14, pp.5201-5210, 2020 (SCI-Expanded)
59. **Electrochemistry, electropolymerization and electrochromism of novel phthalocyanines bearing morpholine groups**
Akyüz D., Demirbaş Ü., Koca A., Çelik F., Kantekin H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1206, 2020 (SCI-Expanded)
60. **Novel peripheral tetra-substituted phthalocyanines containing methoxylated chalcone group:**

Synthesis, spectral, electrochemical and spectroelectrochemical properties

Yalazan H., Akyuz D., SERDAROĞLU V., KAHRİMAN N., KOCA A., KANTEKİN H.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.912, 2020 (SCI-Expanded)

61. **Phthalocyanine-aniline dyad constructed with click electrochemistry: a novel hybrid electrochromic material**
Akyüz D., Koca A.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.24, no.2, pp.431-440, 2020 (SCI-Expanded)
62. **Synthesis, electrochemistry and in situ spectroelectrochemistry of novel tetra- and octa-substituted metallophthalocyanines bearing peripherally 4-(trifluoromethoxy)phenoxy groups**
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6. **Fen Bilimleri 3 SINIF 1 KİTABI**
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15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, (Summary Text)
2. **Preparation of Metallic Phthalocyanine Based Photoelectrodes for Photoelectrochemical Hydrogen**

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3. **Photoelectrochemical Performance of Cd_{0.8}Zn_{0.2}S_xSe_{1-x} Photoelectrodes Fabricated by Electrodeposition Method**
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5. **Studies on the Photoelectrochemical Performance of Mo, Ni and Cu Decorated RGO-CdS_{0.2}Se_{0.8} Photoelectrodes Fabricated by Electrodeposition Method**
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12. **Enhanced Photoelectrochemical activity of Reduced Graphene Oxide decorated Cd_xZn_{1-x}S photocatalyst for Hydrogen Production**
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13. **Synthesis of Magnetically Separable Visible Light Driven Photocatalysts for H₂ Generation**
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16. **The Effect of Photo-induced Phase Transformation on RGO-Cd(1-x)Zn_xS Photoelectrodes**

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18. **Electrochemical Sensing Applications of Metallophthalocyanines (MPCs)**

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19. **Role of Alternative Co-catalysts on The Activity of RGO-Cd(1-x)Zn_xS Photocatalyst for the Photocatalytic Hydrogen Production**

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20. **Photocatalytic Hydrogen Production with The Heteroatom Doped RGO-Cd(1-x)Zn_xS Nanocomposites**

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21. **Non-peripheral metallo-phthalocyanines containing thiazole moieties: Synthesis, electrochemical, and spectroelectrochemical properties**

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22. **Hydrogen Production from Water as Photoelectrochemical by using Solar Light Irradiation**

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23. **Active Photocatalysts Designed by Sulphurization Method for Hydrogen Production**

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24. **The Effect of Co-Catalyst and Novel Heterogeneous Active Photocatalysts for Hydrogen Evolution Under Solar Energy**

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25. **Photoelectrochemical Hydrogen Production Using Cd(1-x)Zn_xS and Its Modifications with Graphene Derivatives**

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26. **Electrode Modifications, Characterizations And Electrochemical Applications Of Metallophthalocyanines**

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27. **Photocatalytic Hydrogen Production From Water Under Sun Light**

AKYÜZ D., ALEMDER N., KARACA ALBAYRAK F., KOCA A.

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28. **PANI-BASED HYDROGEL FOR GLUCOSE SENSING**

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29. **Electrode modifacitons, characterizations and electrochemical applications of metallophthalocyanines**

KOCA A., akyüz d., ALEMDAR N., KARACA ALBAYRAK F.

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30. **Electropolymerization of Metallophthalocyanines Carrying Redox Active Metal Centers: Electrochemical Pesticide Sensing application**

ÖZKAYA A. R., AKYÜZ D., Keleş T., BIYIKLIOĞLU Z., Albayrak F. K., KOCA A.

68th Annual Meeting of the International Society of Electrochemistry, Providence, United States Of America, 27 August - 01 September 2017, (Summary Text)

31. **Electrochemical Pesticide Sensors Based on Electropolymerized Metallophthalocyanines**

KOCA A., AKYÜZ D., Keleş T., BIYIKLIOĞLU Z., Albayrak F. K., ÖZKAYA A. R.

68th Annual Meeting of the International Society of Electrochemistry, 27 August - 01 September 2017, (Summary Text)

32. **Electrochemical, Spectroelectrochemical, Electrocolorimetric, and Electrocatalytic Properties of Metal Phthalocyanine Compounds**

ÖZKAYA A. R., ORMAN E. B., ODABAŞ Z., KOCA A.

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33. **Solid State Electropolymerization of Manganese Phthalocyanine coated with Langmuir-Blodgett and Click Electrochemistry**

KOCA A., AKYÜZ ÇUBUKÇU D., KARACA ALBAYRAK F., ÖZKAYA A. R.

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34. **Solid State Electropolmerization of Manganese Phthalocyanine coated with Langmuir-Blodgett and Click Electrochemistry**

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35. **Rgo-cdzns-pt As Active Photocatalyst For Hydrogen Evolution From Water Under Solar Energy**

AKYÜZ D., KOCA A.

The 7 Th World Hydrogen Technology Convention Together With Czech Hydrogen Days 2017, 9 - 12 July 2017, (Summary Text)

36. **RGO-Cd(1-x)ZnxS-Pt as Active Photocatalyst for Hydrogen Evolution from Water Under Solar Energy**

AKYÜZ ÇUBUKÇU D., KOCA A.

The 7th World Hydrogen Technology Convention Together With Czech Hydrogen Days 2017, 9 - 12 June 2017

37. **Gram Negatif Bakterilerdeki Sinyal Moleküllerini Saptamaya Yönelik Elektrokimyasal Biyosensör**

ÖZCAN Ş. M., AKYÜZ D., KOCA A., SESAL N. C.

IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017, (Summary Text)

38. **Synthesis and Electrochemical Characterization of 1,3-Bis(5-methyl-2-thiazolylimino)isoindolinatopalladium(II) Complex Containing Electropolymerizable Substituent**

ŞENER M. K., GÖKTUĞ Ö., AKYÜZ D., KOCA A.

JCF-Frühjahrssymposium, Mainz, Germany, 29 March - 01 April 2017, (Summary Text)

39. **Oxygen Production on Asymmetric Terminal Alkynyl Zinc Phthalocyanines and Modified Electrodes Using Click Electrochemical Technique**

AKYÜZ ÇUBUKÇU D., KOCA A.

2nd International Hydrogen Technologies Congress, 15 - 18 March 2017

40. **Oxygen Production On Asymmetric Terminal Alkynyl Zinc Phthalocyanines And Modified Electrodes Using Click Electrochemical Tecnique**

AKYÜZ D., KOCA A.

2nd International Hydrogen Technologies Congress, 15 - 18 March 2017, (Summary Text)

41. **Açıl Homoserin Laktonların Elektrokimyasal Metot ile Algılanması**

ÖZCAN Ş. M., SESAL N. C., KOCA A.

2nd IVEK International Convention of Pharmaceuticals and Pharmacies, 27 - 29 November 2016

42. **Electrochemical Detection of N Acyl Homoserine Lactone with TEMPO Zinc Phthalocyanine Modified Electrode**

ÖZCAN Ş. M., KOCA A., ŞENER M. K., SESAL N. C.

4th International BAU Drug Design Congress, 13 - 15 October 2016

43. **Electropolymerized film of 1 3 Bis 2 pyridylimino isoindolato palladium complex Biosensor Application**

AK M., YAZICI T., KOCA A., ŞENER M. K.

3rd international congress on biosensors, 5 - 07 October 2016

44. **Electrochemical Detection of N Acyl Homoserine Lactone with Non peripheral Manganese Phthalocyanine Modified Electrode**

ÖZCAN Ş. M., KOCA A., SESAL N. C.

8th International Conference on Image Processing, Wavelet and Applications, 22 - 24 September 2016

45. **Spectroelectrochemistry of Metallophthalocyanines Having Redox Active Metal Centers**

SARIÇAYIR H., TÜYSÜZ C., KOCA A.

67th Annual Meeting of the International Society of Electrochemistry, 21 - 26 August 2016

46. **Electrochromism of metallophthalocyanines immobilized with click electrochemistry**

AKYÜZ D., DİNÇER H., KOCA A.

67th Annual Meeting of the International Society of Electrochemistry, 21 - 26 August 2016

47. **Electropolymerization of Metallophthalocyanines and their Application as Pesticide Sensors**

ÖZEN Ü. E., KELEŞ T., BIYIKLIOĞLU Z., ÖZKAYA A. R., KOCA A.

The 67th Annual Meeting of the International Society of Electrochemistry, 21 - 26 August 2016

48. **Metallophthalocyanine Based Conducting Electroactive Electropolymers and Their Applications As Electrochemical Pesticide Sensors**

ERGİN Ü., BIYIKLIOĞLU Z., ÖZKAYA A. R., KOCA A.

229th ECS Meeting, 29 May - 02 June 2016

49. **Electrocatalytic Hydrogen Production**

AKYÜZ D., ÖZKAYA A. R., KOCA A.

229th ECS Meeting, 29 May - 02 June 2016

50. **Synthesis and electropolymerization properties of cobalt manganese and titanium phthalocyanines bearing 4 2 morpholin 4 ylethoxy benzyl oxy groups**

ÖZEN Ü. E., KELEŞ T., BIYIKLIOĞLU Z., KOCA A.

2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016

51. **Synthesis and electrochemical properties of electropolymerizable metallophthalocyanines bearing 2 4 1E 4 morpholin 4 ylphenyl methylene amino phenyl ethoxy groups**

KELEŞ T., ÖZEN Ü. E., KOCA A., BIYIKLIOĞLU Z.

2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016

52. **Peripheral tetra substituted metallophthalocyanines carrying redox active cobalt II manganese III titanium IV center and their electropolymerization properties**

KELEŞ T., ÖZEN Ü. E., BIYIKLIOĞLU Z., KOCA A.

2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016

53. **Synthesis of EDOT Functionalized 1 3 Bis 2 pyridylimino isoindolines and Their Metal Complexes**

ŞENER M. K., YAZICI T., KOCA A.

18th JCF-Frühjahrssymposium, 16 - 19 March 2016

54. **Synthesis And Characterization Of Novel Metallophthalocyanines**

KAKI E. H., Gögsu N., SALİH B., Bekaroğlu Ö.

1st International Turkic World Conference on Chemical Sciences and Technologies, Sarajevo, Bosnia And

Herzegovina, 27 October - 01 November 2015

55. **Electrocatalytic and Photocatalytic Hydrogen Production**

Burag A., Aydemir M., Akyüz D., ŞENER M. K., KOCA A.

The 66th Annual Meeting of the International Society of Electrochemistry, 4 - 09 October 2015, (Summary Text)

56. **Selective Fluoride sensor Electrode Based on Electropolymerized Titanyl Phthalocyanine Complex**
ÖZKAYA A. R., KOCA A.

21st International Symposium on Fluorine Chemistry, 23 - 28 August 2015

57. **Hydrogen Evolution reaction on an electrode modified with click electrochemistry**

AKYÜZ D., ÖZKAYA A. R., KOCA A.

11th ECHEMS - Electrochemistry in renewable energy based on molecular mechanisms, 15 - 18 June 2015

58. **Oxygen Sensing Properties of Titanyl Phthalocyanines**

KOBAC R. Z., Akyüz D., KOCA A.

11th ECHEMS - Electrochemistry in renewable energy based on molecular mechanisms, 15 - 18 June 2015

59. **PHOTOCATALYTIC ELECTROCATALYTIC DUAL HYDROGEN PRODUCTION SYSTEM**

Aydemir M., Akyüz D., Burak A., KOCA A.

The International Conference on Hydrogen Production (ICH2P-15), 3 - 06 May 2015, (Summary Text)

60. **Synthesis of TEMPOStable Free Radical Appended Zinc Phthalocyanine**

ŞENER M. K., EKEN KORKUT S., KOCA A.

17. JFC-Fruehjanrsymposium, 25 - 28 March 2015

61. **Synthesis of Anthraquinone Substituted Cobalt Pthalocyanine**

Sibel EKEN K., ŞENER M. K., KOCA A.

ALL IN ONE CONFERENCES, International Conference on New Trends in Chemistry, 24 - 28 March 2015

62. **Electrochromism of Electropolymerized Metallophthalocyanines**

SARIÇAYIR H., KOCA A.

65th Annual meeting of the International Society of Electrochemistry, 13 - 16 August 2014

Academic and Administrative Experience

2016 - Continues	Head of Department	Marmara University, Faculty of Engineering, Chemical Engineering
2015 - Continues	Head of Department	Marmara University, Faculty of Engineering, Chemical Engineering

Supervised Theses

Koca A., CHALCOGENIDES IN PHOTOELECTROCHEMICAL HYDROGEN PRODUCTION APPLICATION AND CHARACTERIZATION, Postgraduate, R.MUHAMMAD(Student), 2019

Koca A., ÖZKAYA A. R., GRAFEN-HETEROATOM TEMELLİ KATALİZÖRLERİN SENTEZİ, KARAKTERİZASYONU VE HİDROJEN ÜRETİMİNDE KULLANIMI, Doctorate, D.AKYÜZ(Student), 2019

Koca A., DESIGN AND CHARACTERIZATION OF ACTIVE PHOTOCATALYSTS BASED ON TRANSITION METAL CHALCOGENIDES, Postgraduate, İ.TANIŞIK(Student), 2019

Koca A., KERKEZ KUYUMCU Ö., Synthesis and characterization of magnetic photocatalysts for hydrogen generation, Postgraduate, S.YILMAZ(Student), 2019

Koca A., Özkaya A. R., Metalliflotosiyenin temelli iletken redoks aktif polimerlerin geliştirilmesi ve elektrokimyasal pestisit sensörleri olarak kullanımları, Postgraduate, Ü.ERGİN(Student), 2018

KOCA A., SESAL N. C., Açıl homoserin lakton moleküllerinin elektrokimyasal metod ile algılanması, Postgraduate, Ş.MARAL(Student), 2017

KOCA A., Investigation of semiconductive sulfur based catalysts for hydrogen production, Postgraduate, B.AGOPCAN(Student), 2017

KOCA A., Development of electrochemical sensors for pesticide detection, Doctorate, Y.İPEK(Student), 2015

KOCA A., ÖZKAYA A. R., Elektrokatalitik hidrojen üretimi, Postgraduate, D.AKYÜZ(Student), 2015
KOCA A., Electrode modification based on metallophthalocyanines and their electrochemical applications, Postgraduate, M.AYDEMİR(Student), 2014
KOCA A., Electrochromic devices based on sandwich metallophthalocyanines, Postgraduate, C.BOZOĞLU(Student), 2013
KOCA A., Electrochemical and spectroelectrochemical characterization of phthalocyanines and determination of their electrochemical application fields, Postgraduate, F.DEMİR(Student), 2013
KOCA A., Investigation of the electrochromic properties of monophthalocyanine complexes bearing electrochromic substituents, Postgraduate, D.ARİCAN(Student), 2013
KOCA A., Modification, characterization and biosensor application of composite electrodes, Postgraduate, A.BERNA(Student), 2012
KOCA A., Denizcilik eğitimi veren okullarda çevre eğitim programının geliştirilmesi, Postgraduate, Y.ÖZTÜRK(Student), 2010
KOCA A., Investigation of electrocatalytic activity of various macromolecular complexes for hydrogen production from water, Postgraduate, Ö.AYKUT(Student), 2008
KOCA A., İlköğretim öğrencilerinin sürdürülebilir enerji farkındalıklarının belirlenmesi ve geliştirilmesi, Postgraduate, E.TEMOÇİN(Student), 2007

Metrics

Publication: 320
Citation (WoS): 4367
Citation (Scopus): 4548
H-Index (WoS): 34
H-Index (Scopus): 36

Research Areas

Chemical Technologies, Electrochemical Processes, Electrochemistry, Conductive Polymers, nanocomposites, Polymeric Films, Fuel Cells, Catalysis, Organometallic Chemistry

Non Academic Experience

MİLLÎ EĞİTİM BAKANLIĞI , Öğretmen