

ATIF KOCA

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International Researcher IDs

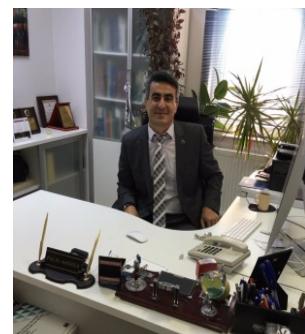
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Biography

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.

Learning Knowledge

Doctorate	Marmara University, Institute for Graduate Studies in Pure and Applied Sciences,
1998 - 2002	Fizikokimya (Dr), Turkey

Postgraduate	Marmara University, Institute for Graduate Studies in Pure and Applied Sciences,
1996 - 1998	Fizikokimya (YI) (Tezli), Turkey

Undergraduate	Marmara University, Ataturk Faculty of Education, Mathematics and Science
1990 - 1995	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 (YI) (Tezli), 1998

Academic Titles / Tasks

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

Supported Projects

1. Koca A., Project Supported by Higher Education Institutions, Titanil ftalosiyanyanın 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., Sarıoğlu 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 Sübstütuentler İçeren Ftalosiyanyanın İletkenlik Gaz Sensör ve Elektrokatalitik Özellikleri, 2015 - 2017
11. Koca A., EU Supported Other Project, Metalliftalosiyanyanın temelli İletken 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 ftalosiyanyanın Elektrokromik özellikleri, 2014 - 2015
16. Koca A., TUBITAK Project, Ftalosiyanyanın Elektrokimyasal ve Spektrokimyasal Özelliklerinin Araştırılması, 2014 - 2015
17. Koca A., Project Supported by Higher Education Institutions, Fonksiyonel Ftalosiyanyanın temelli modifiye elektrotların hazırlanması karakterizasyonu ve teknolojideki 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 Ftalosiyinan Komplekslerinin Polielektrokromik Özelliklerinin İncelenmesi Ve Elektrokromik Görüntüleme Cihazlarında Uygulamaları, 2011 - 2013
 21. Koca A., Kandaz M., TUBITAK Project, Floresans Fonksiyonel Gruplar İçeren Ftalosiyinanların Sentezi Sol jel Polimerik Matriks İnce Filmlerinin Hazırlanması ve Sensör Olarak Kullanılması, 2008 - 2010
 22. Koca A., TUBITAK Project, Hidrojen Üretiminde Ftalosiyinan Komplekslerinin Elektrokatalitik Aktivitelerinin İncelenmesi, 2006 - 2009
 23. Koca A., TUBITAK Project, Ftalosiyinan ve Porfirazin gibi Makrosiklik Komplekslerin Elektrokimyasal Spektroelektrokimyasal 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

Published journal articles indexed by SCI, SSCI, and AHCI

1. **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)
2. **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)
3. **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)
4. **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)
5. **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)
6. **Electrochemistry and in-situ spectroelectrochemistry properties of N-, S-substituted-1,4-naphthoquinone compounds (NQ's)**
Ozyıldız Z., Erkan C., DENİZ N. G., GÖKMEN Z., Neli Ö. U., KOCA A.
Journal of Electroanalytical Chemistry, vol.950, 2023 (SCI-Expanded)
7. **Investigation of electrochemical and spectroelectrochemical properties of some amino-substituted naphthoquinones (NQs)**
Ozyıldız Z., Gezer D., DENİZ N. G., GÖKMEN Z., Neli Ö. U., KOCA A.
Journal of Electroanalytical Chemistry, vol.946, 2023 (SCI-Expanded)
8. **Chloromanganese and oxo-Titanium (IV) phthalocyanines: Synthesis, electrochemistry and Spectroelectrochemistry**
DİLBER G., NAS A., BUDAK Ö., KOCA A.
Polyhedron, vol.242, 2023 (SCI-Expanded)
9. **Influence of 2-naphthoic acid anchoring groups to the photovoltaic performance of zinc phthalocyanine-based photosensitizers in dye-sensitized solar cell**
Köse G. G., Karaoglan G. K., Maden Y., KOCA A.
Journal of Electroanalytical Chemistry, vol.945, 2023 (SCI-Expanded)
10. **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)
11. Effects of anchoring and spacer groups of asymmetric zinc phthalocyanines on the photovoltaic performance of dye-sensitized solar cells
Köse G. G., Karaoğlan G. K., Maden Y., KOCA A.
New Journal of Chemistry, vol.47, no.28, pp.13497-13507, 2023 (SCI-Expanded)
12. Structural, physicochemical and anticancer study of Zn complexes with pyridyl-based thiazolyl-hydrazone
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)
13. 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)
14. 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)
15. 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)
16. Electrochemical and spectroelectrochemical characterizations of phthalocyanines bearing peripherally tetra-4-carboxyethoxyphenoxy anchoring groups and usage as photosensitizers of dye-sensitized solar cell
Maden Y., Köse G. G., Karaoğlan G. K., KOCA A.
Journal of Electroanalytical Chemistry, vol.929, 2023 (SCI-Expanded)
17. A detailed experimental and computational study of Cd complexes with pyridyl-based thiazolyl-hydrazone
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)
18. 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)
19. Utilization of pyrazole-perimidine hybrids bearing different substituents as corrosion inhibitors for 304 stainless steel in acidic media
Ugus Ö., GÜMÜŞ M., SERT Y., KOCA İ., KOCA A.
Journal of Molecular Structure, vol.1262, 2022 (SCI-Expanded)
20. 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)
21. 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)
22. 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)
23. **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)
24. **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)
25. **Enhanced photoelectrochemical activity of magnetically modified TiO₂ prepared by a simple ex-situ route**
Yilmaz S., KERKEZ KUYUMCU Ö., BAYAZIT 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)
26. **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)
27. **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)
28. **New asymmetric bisthiocarbohydrazones 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)
29. **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)
30. **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)
31. **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)
32. **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)
33. **Solar-hydrogen production with reduced graphene oxide supported Cd_xZn_{1-x}S photocatalysts**
Tanişik İ., UĞUZ Ö., Akyüz D., Zunain Ayaz R. M., SARİOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
International Journal of Hydrogen Energy, vol.45, no.60, pp.34845-34856, 2020 (SCI-Expanded)
34. **Photoelectrochemical performance of thermally sulfurized Cd_xZn_{1-x}S photoanode: Enhancement with reduced graphene oxide support**
Zunain Ayaz R., Akyüz D., UĞUZ Ö., Tanişik İ., SARİOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
RENEWABLE ENERGY, vol.162, pp.182-195, 2020 (SCI-Expanded)

35. 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)
36. 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)
37. 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)
38. 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.
MONATSHEFTE FÜR CHEMIE, vol.151, no.9, pp.1337-1348, 2020 (SCI-Expanded)
39. 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)
40. 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)
41. The Synthesis, Characterization, Electrochemical and Spectroelectrochemical Properties of Novel Unsymmetrical Phthalocyanines Containing Naphthoic Acid and Di-tert-butylphenoxy Groups
GÜMRÜKÜ KÖSE G., KESER KARAOĞLAN G., Isik S. N., Akyuz D., KOCA A.
SYNTHETIC METALS, vol.264, 2020 (SCI-Expanded)
42. New square-planar nickel(II)-triphenylphosphine complexes containing ONS donor ligands: Synthesis, characterization, electrochemical and antioxidant properties
Kaya Y., Erçag A., Koca A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1206, 2020 (SCI-Expanded)
43. 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)
44. 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)
45. 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)
46. 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)
47. Synthesis, electrochemistry and in situ spectroelectrochemistry of novel tetra- and octa-substituted metallophthalocyanines bearing peripherally 4-(trifluoromethoxy)phenoxy groups
Farajzadeh N., Akyüz D., Koca A., Koçak M. B.
POLYHEDRON, vol.177, 2020 (SCI-Expanded)

48. 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)
49. Thiosemicarbazide-based iron(III) and manganese(III) complexes. Structural, electrochemical characterization and antioxidant activity
Kaya B., Kaya K., Koca A., Ulkuseven B.
POLYHEDRON, vol.173, 2019 (SCI-Expanded)
50. Enhanced hydrogen production with photo-induced phase transformation and cocatalyst loading
Akyüz D., Özkaya A. R., Koca A.
International Journal of Energy Research, vol.43, no.14, pp.8299-8313, 2019 (SCI-Expanded)
51. Unsymmetrically pyrazole-3-carboxylic acid substituted phthalocyanine-based photoanodes for use in water splitting photoelectrochemical and dye-sensitized solar cells
YILDIZ B., Guzel E., Akyuz D., Arslan B. S., KOCA A., ŞENER M. K.
SOLAR ENERGY, vol.191, pp.654-662, 2019 (SCI-Expanded)
52. Non-peripherally tetra substituted phthalocyanines bearing benzodioxane moieties: Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties
Demirbaş Ü., Akyuz D., Akcay H. T., Koca A., Kantekin H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1189, pp.234-239, 2019 (SCI-Expanded)
53. Metal chalcogenide based photocatalysts decorated with heteroatom doped reduced graphene oxide for photocatalytic and photoelectrochemical hydrogen production
Akyüz D., Zunain Ayaz R. M., Yılmaz S., UĞUZ Ö., SARIOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.34, pp.18836-18847, 2019 (SCI-Expanded)
54. An electrochemical sensor for the detection of pesticides based on the hybrid of manganese phthalocyanine and polyaniline
Akyuz D., KOCA A.
SENSORS AND ACTUATORS B-CHEMICAL, vol.283, pp.848-856, 2019 (SCI-Expanded)
55. Highly selective and ultra-sensitive electrochemical sensor behavior of 3D SWCNT-BODIPY hybrid material for eserine detection
ŞENOCAK A., Koksoy B., Akyuz D., KOCA A., Klyamer D., Basova T., DEMİRBAŞ E., DURMUŞ M.
BIOSENSORS & BIOELECTRONICS, vol.128, pp.144-150, 2019 (SCI-Expanded)
56. Photo-Induced Phase Transition of CdZnS Based Nanocomposite at Room Temperature Under Solar Irradiation
Akyuz D., KOCA A.
CATALYSIS LETTERS, vol.149, no.3, pp.876-881, 2019 (SCI-Expanded)
57. Non-peripherally tetra substituted lead(II), nickel(II) and copper(II) phthalocyanines bearing [1,2,3] triazole moieties: Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties
DEMİRBAŞ Ü., Akyuz D., Akcay H. T., KOCA A., KANTEKİN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1176, pp.695-702, 2019 (SCI-Expanded)
58. Metallo-phthalocyanines containing thiazole moieties: Synthesis, characterization, electrochemical and spectroelectrochemical properties and sensor applications
Demir F., Yenilmez H. Y., KOCA A., Bayr Z.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.832, pp.254-265, 2019 (SCI-Expanded)
59. Sensing alcohol vapours with novel unsymmetrically substituted metallophthalocyanines
Polat M. P., Akyüz D., Yasemin Yenilmez H., Koca A., Altindal A., Bayr Z. A.
Dalton Transactions, vol.48, pp.9194-9204, 2019 (SCI-Expanded)
60. Novel 1,2,4-triazole substituted metallo-phthalocyanines: Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties
DEMİRBAŞ Ü., Akyuz D., AKÇAY H. T., KOCA A., MENTEŞE E., KANTEKİN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1173, pp.205-212, 2018 (SCI-Expanded)

61. **Synthesis and investigation of spectroelectrochemical properties of peripherally tetra-substituted phthalocyanine bearing 3-(4-[3-(trifluoromethyl)benzyl]oxy)phenyl)propan-1-ol and its metallo compounds**
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1. **Photoelectrochemical Performance of Cd_{0.8}Zn_{0.2}S_xSe_{1-x} Photoelectrodes Fabricated by Electrodeposition Method**
Budak Ö., Uğuz Neli Ö., Koca A.
6 th International Hydrogen Technologies Congress (IHTEC-2022), Çanakkale, Turkey, 23 - 26 January 2022
2. **Fabrication of Azide-Functionalized Reduced Graphene Oxide Bearing and ZnPc Decorated Cd_{0.6}Zn_{0.2}Ni_{0.2}S_{0.2}Se_{0.8} Photoelectrode and Its Photoelectrochemical Properties /**
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3. **Studies on the Photoelectrochemical Performance of Mo, Ni and Cu Decorated RGO-CdS_{0.2}Se_{0.8} Photoelectrodes Fabricated by Electrodeposition Method**
Uğuz Neli Ö., Budak Ö., Başey A. N., Koca A.
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4. **Photoelectrochemical Performance of RGO-CdS_{0.2}Se_{0.8} Photoelectrodes Prepared by One-step Electrodeposition Method**
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5. **Analyzing various parameters on supercapacitor performance**
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6. **Triazol Grubu İçeren Periferal Tetra CoII, CuII, MnIIICl ve TiIVOFtalosiyanyanın Bileşiklerinin Spektroskopik ve Elektrokimyasal Özelliklerinin İncelenmesi**
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32. Ulusal Kimya Kongresi, Turkey, 17 - 19 September 2020
7. **ESERİN TESPİTİ İÇİN MODİFİYE KARBON PASTA ELEKTROT GELİŞTİRİLMESİ**
İPEK Y., KOCA A.
MUNZUR 1. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, 24 - 26 May 2019
8. **A comparison photocatalytic and photoelectrochemical hydrogen performances of heteroatoms (Mo, Ni and Cu) decorated RGO-Cd(1-x)ZnxS synthesized with solvothermal and sulphurization methods**
AKYÜZ ÇUBUKÇU D., ÖZKAYA A. R., KOCA A.
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9. **Enhanced Photoelectrochemical activity of Reduced Graphene Oxide decorated CdxZn1-xS photocatalyst for Hydrogen Production**
AYAZ R. M. Z., AKYÜZ ÇUBUKÇU D., UĞUZ Ö., TANIŞIK İ., SARIOĞLU C., KARACA ALBAYRAK F., ÖZKAYA A. R., KOCA A.
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10. **Synthesis of Magnetically Separable Visible Light Driven Photocatalysts for H₂ Generation**
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11. **Photoelectrochemical-Photocatalytic Dual Hydrogen Production of RGO-Cd1-xZnxS**
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12. **Photoelectrochemical-Photocatalytic Dual Hydrogen Production System**
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13. **Photo(electro)catalytic Activity of Magnetically Modified TiO₂ Nanoparticles**
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14. **The Effect of Photo-induced Phase Transformation on RGO-Cd(1-x)ZnxS Photoelectrodes**
AKYÜZ ÇUBUKÇU D., KOCA A.
The 2nd International Conference on Applications in Chemistry and Chemical Eng. (ICACCHE), 10 - 14 October 2018
15. **Synthesis, Characterizations and Photocatalytic Hydrogen Production Applications**
AKYÜZ ÇUBUKÇU D., KOCA A.
The 2nd International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE) (, 10 - 14 October 2018
16. **Electrochemical Sensing Applications of Metallophthalocyanines (MPCs)**
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69th Annual ISE Meeting, 2 - 07 September 2018
17. **Photocatalytic Hydrogen Production with The Heteroatom Doped RGO-Cd(1-x)ZnxS Nanocomposites**
AKYÜZ ÇUBUKÇU D., KOCA A.
Xiii Hydrogen - Power Theoretical and Engineering Solutions International Symposium, 24 - 27 July 2018
18. **Role of Alternative Co-catalysts on The Activity of RGO-Cd(1-x)ZnxS Photocatalyst for the Photocatalytic Hydrogen Production**
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19. **Non-peripheral metallo-phthalocyanines containing thiazole moieties: Synthesis, electrochemical, and spectroelectrochemical properties**
YENİLMEZ H. Y., Zengin Uzunmehmetoğlu H., KOCA A., BAYIR Z.
20. Frühjahrssymposium JungChemikerForum, 21 - 24 March 2018
20. **Hydrogen Production from Water as Photoelectrochemical by using Solar Light Irradiation**
AYAZ R. M. Z., AKYÜZ D., UĞUZ Ö., TANIŞIK İ., SARIOĞLU C., KARACA ALBAYRAK F., ÖZKAYA A. R., KOCA A.
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21. **The Effect of Co-Catalyst and Novel Heterogeneous Active Photocatalysts for Hydrogen Evolution Under Solar Energy**
AKYÜZ D., UĞUZ Ö., TANIŞIK İ., AYAZ R. M. Z., SARIOĞLU C., KARACA ALBAYRAK F., ÖZKAYA A. R., KOCA A.
3rd International Hydrogen Technologies Congress, 15 - 18 March 2018
22. **Active Photocatalysts Designed by Sulphurization Method for Hydrogen Production**
TANIŞIK İ., AKYÜZ D., AYAZ R. M. Z., UĞUZ Ö., SARIOĞLU C., KARACA ALBAYRAK F., ÖZKAYA A. R., KOCA A.
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23. **Photoelectrochemical Hydrogen Production Using Cd(1-x)ZnxS and Its Modifications with Graphene Derivatives**
UĞUZ Ö., AKYÜZ D., AYAZ R. M. Z., TANIŞIK İ., SARIOĞLU C., KARACA ALBAYRAK F., ÖZKAYA A. R., KOCA A.
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24. **Photocatalytic Hydrogen Production From Water Under Sun Light**
AKYÜZ D., ALEMDER N., KARACA ALBAYRAK F., KOCA A.
The 2nd International Conference On Applications In Chemistry And Chemical Engineering (icacche), 11 - 15 October 2017
25. **Electrode Modifications, Characterizations And Electrochemical Applications Of Metallophthalocyanines**
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26. **PANI-BASED HYDROGEL FOR GLUCOSE SENSING**
ALEMDAR N., AYCAN D., KOCA A., ULUTÜRK C., AKYÜZ D.
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27. **Elecrode modifacaitons, characterizations and electrochemical applications of metallophthalocyanines**
KOCA A., akyüz d., ALEMDAR N., KARACA ALBAYRAK F.
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28. **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
29. **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
30. **Electrochemical, Spectroelectrochemical, Electrocolorimetric, and Electrocatalytic Properties of Metal Phthalocyanine Compounds**
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31. **Solid State Electropolymerization of Manganese Phthalocyanine coated with Langmuir-Blodgett and Click Electrochemistry**
KOCA A., AKYÜZ ÇUBUKÇU D., KARACA ALBAYRAK F., ÖZKAYA A. R.

- 68th Annual Meeting of the International Society of Electrochemistry, 27 August - 01 September 2017
32. **Solid State Electropolmerization of Manganese Phthalocyanine coated with Langmuir-Blodgett and Click Electrochemistry**
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68th Annual Meeting of the International Society of Electrochemistry, Providence, United States Of America, 27 August - 01 September 2017
33. **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
34. **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
35. **Gram Negatif Bakterilerdeki Sinyal Moleküllerini Saptamaya Yönelik Elektrokimyasal Biyosensör**
ÖZCAN Ş. M., AKYÜZ D., KOCA A., SESAL N. C.
IVEK 3rd International Convention ofPharmaceuticals and Pharmacies, 26 - 29 April 2017
36. **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
37. **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
38. **Oxygen Production On Asymmetric Terminal Alkynyl Zinc Phthalocyanines And Modified Electrodes Using Click Electrochemical Tecniqe**
AKYÜZ D., KOCA A.
2 Nd International Hydrogen Technologies Congress, 15 - 18 March 2017
39. **Açılı 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
40. **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
41. **Electropolimerized film of 1 3 Bis 2 pyridylimino isoindolato palladium complex Biosensor Application**
AK M., YAZICI T., KOCA A., ŞENER M. K.
3 rd international congress on biosensors, 5 - 07 October 2016
42. **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
43. **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
44. **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
45. **Electropolymerization of Metallophthalocyanines and theirApplication as Pesticide Sensors**
ÖZEN Ü. E., KELEŞ T., BIYIKLIOĞLU Z., ÖZKAYA A. R., KOCA A.
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46. **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
47. **Electrocatalytic Hydrogen Production**
AKYÜZ D., ÖZKAYA A. R., KOCA A.
229th ECS Meeting, 29 May - 02 June 2016
48. **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
49. **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
50. **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
51. **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
52. **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
53. **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
54. **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
55. **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
56. **Oxygen Sensing Properties of Titanyl Phthalocyanines**
KOBAK R. Z., Akyüz D., KOCA A.
11th ECHEMS - Electrochemistry in renewable energy based on molecular mechanisms, 15 - 18 June 2015
57. **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
58. **Synthesis of TEMPOStable Free Radical Appended Zinc Phthalocyanine**
ŞENER M. K., EKEN KORKUT S., KOCA A.
17. JFC-Fruehjanrssymposium, 25 - 28 March 2015
59. **Synthesis of Anthraquinone Substituted Cobalt Phthalocyanine**
Sibel EKEN K., ŞENER M. K., KOCA A.
ALL IN ONE CONFERENCES, International Conference on New Trends in Chemistry, 24 - 28 March 2015
60. **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

Advising Theses

- Koca A., CHALCOGENIDES IN PHOTOLELECTROCHEMICAL 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., Metalliftalosiyanın temelli iletken redoks aktif polimerlerin geliştirilmesi ve elektrokimyasal pestisit sensörü olarak kullanımları, Postgraduate, Ü.ERGİN(Student), 2018
- KOCA A., SESAL N. C., Açıł 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.BAGOPCAN(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.ARICAN(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.TEMOCİN(Student), 2007

Metrics

- Publication: 302
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- H-Index (Scopus): 34

Research Areas

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

Non Academic Experience

MİLLİ EĞİTİM BAKANLIĞI