

## Assoc. Prof. CEREN KAÇAR SELVİ



### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2010 - 2016

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2008 - 2010

Associate Degree, Anadolu University, Open Education Faculty, Department Of Foreign Trade, Turkey 2005 - 2009

Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 2004 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, L-lizin Tayini için Karbon Nanomalzemelere Dayalı Amperometrik Enzim Elektrotlar Hazırlanması, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2016

Postgraduate, Trazodon'un elektrokimyasal davranışı ve adsorptif sıyırma yöntemleriyle tayini, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2010

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues

Research Assistant PhD, Ankara University, Fen Fakültesi, Kimya Bölümü, 2016 - 2020

Research Assistant, Ankara University, Fen Fakültesi, Kimya Bölümü, 2010 - 2016

## Courses

Environmental Chemistry I , Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Temel Kimya, Undergraduate, 2022 - 2023, 2021 - 2022  
Radyoaktivite ve Radyokimyasal Analiz Yöntemleri, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Analytical Chemistry Laboratory II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Özel Konu (AJ), Undergraduate, 2022 - 2023, 2021 - 2022  
SPECIAL SUBJECT, Undergraduate, 2023 - 2024  
Analitik Kimya Laboratuvarı II , Undergraduate, 2022 - 2023, 2021 - 2022  
Analytical Chemistry Laboratory I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
KİM 257 Analitik Kimya Laboratuvarı I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
METROLOGY AND QUALITY IN CHEMICAL MEASUREMENTS, Undergraduate, 2023 - 2024  
Environmental Chemistry II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Analytical Chemistry, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Temel Kimya, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Analitik Kimya Laboratuvarı, Undergraduate, 2020 - 2021

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

- I. **Development of an electrochemical sensor based on platinum nanoparticles/iron-based metal-organic framework composite for efficient determination of butylated hydroxyanisole**  
Aldoori B., KAÇAR SELVİ C., Nuri Kursunlu A., Esra Erden P., Kucukkolbasi S., Kılıç E.  
Microchemical Journal, vol.205, 2024 (SCI-Expanded)
- II. **Electrochemical xanthine biosensor based on carbon nanofiber and ferrocene carboxylic acid for the assessment of fish freshness**  
Can E., Kaçar Selvi C., Canel E., Erden P. E., Kılıç E.  
Ionics, vol.30, no.7, pp.4215-4226, 2024 (SCI-Expanded)
- III. **Disposable biosensor based on nanodiamond particles, ionic liquid and poly-L-lysine for determination of phenolic compounds**  
Şener D., Erden P. E., KAÇAR SELVİ C.  
Analytical Biochemistry, vol.688, 2024 (SCI-Expanded)
- IV. **Disposable glutamate biosensor based on platinum nanoparticles, carbon quantum dots and poly-L-aspartic acid**  
KAÇAR SELVİ C., Şenceol B., Erden P. E.  
Preparative Biochemistry and Biotechnology, 2024 (SCI-Expanded)
- V. **Electrochemical (bio)sensors based on carbon quantum dots, ionic liquid and gold nanoparticles for bisphenol A**  
Örenli D., KAÇAR SELVİ C., Öztürk F., Erden P. E., Kılıç E.  
Analytical Biochemistry, vol.662, 2023 (SCI-Expanded)
- VI. **A novel tyramine biosensor based on carbon nanofibers, 1-butyl-3-methylimidazolium tetrafluoroborate and gold nanoparticles**  
Erden P. E., KAÇAR SELVİ C., Kılıç E.  
MICROCHEMICAL JOURNAL, vol.170, 2021 (SCI-Expanded)
- VII. **Disposable biosensors based on platinum nanoparticle-modified screen-printed carbon electrodes for the determination of biogenic amines**  
Dalkiran B., KAÇAR SELVİ C., Can E., Erden P. E., Kılıç E.  
Monatshefte fur Chemie, vol.151, no.12, pp.1773-1783, 2020 (SCI-Expanded)
- VIII. **Disposable Bienzymatic Choline Biosensor Based on MnO(2) Nanoparticles Decorated Carbon Nanofibers and Poly(methylene green) Modified Screen Printed Carbon Electrode**

KAÇAR SELVİ C.

ELECTROANALYSIS, vol.32, no.10, pp.2118-2127, 2020 (SCI-Expanded)

- IX. **An amperometric biosensor based on poly(L-aspartic acid), nanodiamond particles, carbon nanofiber, and ascorbate oxidase-modified glassy carbon electrode for the determination of ascorbic acid**  
KAÇAR SELVİ C., Erden P. E.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.412, no.22, pp.5315-5327, 2020 (SCI-Expanded)
- X. **Amperometric biogenic amine biosensors based on Prussian blue, indium tin oxide nanoparticles and diamine oxidase- or monoamine oxidase-modified electrodes**  
KAÇAR SELVİ C., Erden P. E., Dalkiran B., İNAL E. K., Kilic E.  
Analytical and Bioanalytical Chemistry, vol.412, no.8, pp.1933-1946, 2020 (SCI-Expanded)
- XI. **Disposable Amperometric Biosensor Based on Poly-L-lysine and Fe<sub>3</sub>O<sub>4</sub> NPs-chitosan Composite for the Detection of Tyramine in Cheese**  
Dalkiran B., Erden P. E., KAÇAR SELVİ C., Kilic E.  
Electroanalysis, vol.31, no.7, pp.1324-1333, 2019 (SCI-Expanded)
- XII. **Effect of hexammineruthenium chloride and/or horseradish peroxidase on the performance of hydrogen peroxide (bio)sensors: a comparative study**  
Ozdemir D. S., KAÇAR SELVİ C., Dalkiran B., KÜÇÜKKOLBAŞI S., Erden P. E., Kilic E.  
Journal of Materials Science, vol.54, no.7, pp.5381-5398, 2019 (SCI-Expanded)
- XIII. **Amperometric L-lysine biosensor based on carboxylated multiwalled carbon nanotubes-SnO<sub>2</sub> nanoparticles-graphene composite**  
KAÇAR SELVİ C., Erden P. E., Kilic E.  
APPLIED SURFACE SCIENCE, vol.419, pp.916-923, 2017 (SCI-Expanded)
- XIV. **Graphene/Poly(vinylferrocene) Composite Based Amperometric Biosensor for L-lysine Determination**  
KAÇAR SELVİ C., Erden P. E., Kilic E.  
ELECTROANALYSIS, vol.29, no.9, pp.2114-2124, 2017 (SCI-Expanded)
- XV. **Amperometric L-lysine enzyme electrodes based on carbon nanotube/redox polymer and graphene/carbon nanotube/redox polymer composites**  
KAÇAR SELVİ C., Erden P. E., Kilic E.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.409, no.11, pp.2873-2883, 2017 (SCI-Expanded)
- XVI. **Amperometric Lactate Biosensor Based on Carbon Paste Electrode Modified with Benzo[c]cinnoline and Multiwalled Carbon Nanotubes**  
Celik A. C., ÖZTÜRK F., Erden P. E., KAÇAR SELVİ C., Kilic E.  
ELECTROANALYSIS, vol.27, no.12, pp.2820-2828, 2015 (SCI-Expanded)
- XVII. **Amperometric magnetoimmunoassay for the determination of lipoprotein(a)**  
KAÇAR SELVİ C., Torrente-Rodriguez R. M., Pedrero M., Campuzano S., Kilic E., Pingarron J. M.  
MICROCHIMICA ACTA, vol.182, no.7-8, pp.1457-1464, 2015 (SCI-Expanded)
- XVIII. **Amperometric uric acid biosensor based on poly(vinylferrocene)-gelatin-carboxylated multiwalled carbon nanotube modified glassy carbon electrode**  
Erden P. E., KAÇAR SELVİ C., ÖZTÜRK F., Kilic E.  
TALANTA, vol.134, pp.488-495, 2015 (SCI-Expanded)
- XIX. **An amperometric hydrogen peroxide biosensor based on Co<sub>3</sub>O<sub>4</sub> nanoparticles and multiwalled carbon nanotube modified glassy carbon electrode**  
KAÇAR SELVİ C., Dalkiran B., Erden P. E., Kilic E.  
Applied Surface Science, vol.311, pp.139-146, 2014 (SCI-Expanded)
- XX. **Electrochemical Studies of Olmesartan Medoxomil and its Detection in Pharmaceutical Dosage Forms and Biological Fluids by Cathodic Adsorptive Stripping Voltammetric Method**  
ÖZTÜRK F., KÜÇÜKKOLBAŞI S., KAÇAR SELVİ C., Kilic E.  
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, vol.25, no.5, pp.920-927, 2014 (SCI-Expanded)
- XXI. **Simultaneous Determination of Valsartan and Amlodipine Besylate in Human Serum and**

### **Pharmaceutical Dosage Forms by Voltammetry**

Erden P. E., TAŞDEMİR İ. H., KAÇAR SELVİ C., Kiliç E.

INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.9, no.5, pp.2208-2220, 2014 (SCI-Expanded)

XXII. **Amperometric biosensor for xanthine determination based on Fe 3O<sub>4</sub> nanoparticles**

Öztürk F. Ö., Erden P. E., KAÇAR SELVİ C., Kiliç E.

Acta Chimica Slovenica, vol.61, no.1, pp.19-26, 2014 (SCI-Expanded)

XXIII. **Amperometric xanthine biosensors based on chitosan-Co<sub>3</sub>O<sub>4</sub>-multiwall carbon nanotube modified glassy carbon electrode**

Dalkiran B., KAÇAR SELVİ C., Erden P. E., Kiliç E.

Sensors and Actuators, B: Chemical, vol.200, pp.83-91, 2014 (SCI-Expanded)

XXIV. **Electrochemical behavior of trazodone at mercury and glassy carbon electrodes and voltammetric methods for its determination**

KAÇAR SELVİ C., Durmus Z., Kiliç E.

Asian Journal of Chemistry, vol.26, no.7, pp.1931-1937, 2014 (SCI-Expanded)

XXV. **An Fe<sub>3</sub>O<sub>4</sub>-nanoparticles-based amperometric biosensor for creatine determination**

KAÇAR SELVİ C., Erden P. E., Pekyardimci S., Kiliç E.

ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.41, no.1, pp.2-7, 2013 (SCI-Expanded)

### **Articles Published in Other Journals**

I. **Amin Fonksiyonlu Karbon Nanotüp, Kalay Oksit Nanopartikül ve Diamin Oksidaz Temelli Triptamin Biyosensörü**

KAÇAR SELVİ C., DALKIRAN B.

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, pp.631-641, 2020 (Peer-Reviewed Journal)

II. **Ksantin Biyosensörlerin Performansına Çeşitli Çok Duvarlı Karbon Nanotüplerin Etkisi**

KAÇAR C., DALKIRAN B., ERDEN P. E., KILIÇ E.

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.2, pp.832-839, 2018 (Peer-Reviewed Journal)

III. **Electrochemical xanthine biosensor based on zinc oxide nanoparticles– multiwalled carbon nanotubes–1,4-benzoquinone composite**

Dalkiran B., KAÇAR SELVİ C., Erden P. E., Kiliç E.

Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, no.1, pp.317-332, 2018 (Scopus)

IV. **Magnetite Nanoparticles and Prussian Blue Modified Amperometric Biosensor for Lactic Acid Determination**

KAÇAR C., ÖZTÜRK F., Erden P. E., KILIÇ E.

Selçuk Üniversitesi Fen Fakültesi Fen Dergisi, vol.42, no.1, pp.17-29, 2016 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

I. **Development of a Novel Glucose Biosensor Based on Nanodiamond Particles and Poly-L-Aspartic Acid**

ERDEN P. E., KAÇAR SELVİ C., KILIÇ E.

2nd International Congress on Analytical and Bioanalytical Chemistry (2nd ICABC 2020), 11 - 14 March 2020

II. **Nickel oxide nanoparticles decorated poly (L-Cysteine) on screen-printed electrodes by one-step electrodeposition for amperometric detection of glucose**

KAÇAR SELVİ C.

2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 - 29 June 2019

III. **Amperometric Detection of Cadaverine with c-MWCNTs-Co<sub>3</sub>O<sub>4</sub> Modified Screen-Printed Electrode**

KAÇAR C.

4th International Conference on New Trends in Chemistry, 11 - 13 May 2018

- IV. **Fabrication of amperometric xanthine biosensor based on ZnO nanoparticles-multiwalled carbon nanotubes-1,4-benzoquinone composite**  
DALKIRAN B., KAÇAR C., ERDEN P. E., KILIÇ E.  
10th International Conference on Instrumental Methods of Analysis: Modern Trends and Applications (IMA 2017), Heraklion, Greece, 17 - 21 September 2017
- V. **The Effect of Various Multiwalled Carbon Nanotubes on the Performance of Xanthine Biosensors**  
KAÇAR C., DALKIRAN B., ERDEN P. E., KILIÇ E.  
10th International Conference on Instrumental Methods of Analysis: Modern Trends and Applications (IMA 2017), 17 - 21 September 2017
- VI. **Graphene MWCNTs Poly vinylferrocene Composite Based Amperometric Biosensor for Determination of L lysine in Pharmaceuticals and Cheese**  
KAÇAR C., Dalkıran B., Erden P. E., KILIÇ E.  
67th Annual Meeting of the International Society of Electrochemistry, 21 - 26 August 2016
- VII. **L-lysine Biosensor Based on Graphene C MWCNTs SnO<sub>2</sub> Composite Film Modified Glassy Carbon Electrode**  
KAÇAR C., Erden P. E., KILIÇ E.  
28. Ulusal Kimya Kongresi (Uluslararası Katılımlı), Turkey, 15 - 21 August 2016
- VIII. **Amperometric hydrogen peroxide biosensor based on TiO<sub>2</sub> carboxylated multiwalled carbon nanotube graphene oxide modified glassy carbon electrode**  
SÖĞÜT D., KAÇAR SELVİ C., DALKIRAN B., KÜÇÜKKOLBAŞI S., ERDEN P. E., KILIÇ E.  
Biosensors 2016, 25 - 27 May 2016
- IX. **Amperometric Magnetoimmunoassay for the determination of Lipoprotein (a)**  
Pedrero M., KAÇAR C., Torrente Rodriguez R. M., Campuzano S., Pingarron J. M.  
XVIII Euroanalys (the European Conference on Analytical Chemistry, Challenges in Modern Analytical Chemistry), 6 - 10 September 2015
- X. **MWCNT Jelatin Poli Vinilferrosen Lizin Oksidaz Nanokompozit Filme Dayalı L lizin Biyosensörü**  
KAÇAR C., ERDEN P. E., KILIÇ E.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XI. **Xanthine Biosensor Based on Cobalt Oxide Graphene Chitosan Nanocomposite Film Modified Glassy Carbon Electrode**  
Dalkıran B., KAÇAR C., Erden P. E., KILIÇ E.  
XXIII International Symposium on Bioelectrochemistry and Bioenergetics, Malmö, Sweden, 14 - 18 June 2015
- XII. **Construction of Graphene Poly vinylferrocene Lysine Oxidase Modified Glassy Carbon Electrode for L lysine Determination**  
KAÇAR C., DALKIRAN B., ERDEN P. E., KILIÇ E.  
XXIII International Symposium on Bioelectrochemistry and Bioenergetics, Malmö, Sweden, 14 - 18 June 2015
- XIII. **Comparison of Graphene Graphene Oxide and MWCNT Modified Biosensors for L lysine Determination**  
KAÇAR C., ERDEN P. E., KILIÇ E.  
2nd International Congress on Biosensors, İzmir, Turkey, 10 - 12 June 2015
- XIV. **Ürik Asit Tayini İçin PVF ve Karbon Nanotüp Modifiye Amperometrik Biyosensör**  
ERDEN P. E., KAÇAR C., ÖZTÜRK F., KILIÇ E.  
I. Ulusal Biyosensör Kongresi, Tekirdağ, Turkey, 22 - 26 June 2014
- XV. **Laktik Asit Tayini için Benzo c sinnolin ve Karbon Nanotüp Temelli Enzim Elektrot Geliştirilmesi**  
ÇELİK A. C., ÖZTÜRK F., ERDEN P. E., KAÇAR C., KILIÇ E.  
I. Ulusal Biyosensör Kongresi, Tekirdağ, Turkey, 22 - 26 June 2014
- XVI. **Galactose Biosensor Based On Chitosan Co<sub>3</sub>O<sub>4</sub> Nanoparticle Multiwalled Carbon Nanotube Modified Glassy Carbon Electrode**  
Dalkıran B., KAÇAR C., Erden P. E., KILIÇ E.

Biosensors, Melbourne, Australia, 27 - 30 May 2014

- XVII. **A new amperometric carbon paste enzyme electrode for lactic acid determination**  
KAÇAR C., ÖZTÜRK F., ERDEN P. E., KILIÇ E.  
17th International Conference on Instrumental Methods of Analysis: Modern Trends and Applications (IMA 2013),  
15 - 19 September 2013
- XVIII. **Construction and Characterization of Co<sub>3</sub>O<sub>4</sub> Nanoparticles Multiwall Carbon Nanotubes in Gelatin Matrix for the Development of Horseradish Peroxidase Based H<sub>2</sub>O<sub>2</sub> Biosensor**  
KAÇAR SELVİ C., DALKIRAN B., ERDEN P. E., KILIÇ E.  
XVII Euroanalysis (the European Conference on Analytical Chemistry, Challenges in Modern Analytical Chemistry),  
25 - 29 August 2013
- XIX. **Amperometric Xanthine Biosensor Based on Xanthine Oxidase Immobilized on Chitosan Co<sub>3</sub>O<sub>4</sub> Nanoparticles Multiwalled Carbon Nanotubes Modified Glassy Carbon Electrode**  
DALKIRAN B., KAÇAR SELVİ C., ERDEN P. E., KILIÇ E.  
XVII Euroanalysis (the European Conference on Analytical Chemistry, Challenges in Modern Analytical Chemistry),  
25 - 29 August 2013
- XX. **Simultaneous Determination Of Uric Acid And Ascorbic Acid At Fe<sub>2</sub>O<sub>3</sub> Nanoparticles Modified Carbon Paste Electrode**  
ERDEN P. E., KAÇAR SELVİ C., ÖZTÜRK F., KILIÇ E.  
XVII Euroanalysis (the European Conference on Analytical Chemistry, Challenges in Modern Analytical Chemistry),  
25 - 29 August 2013
- XXI. **Biyoyakıt Hücreleri için Co<sub>3</sub>O<sub>4</sub> Nanopartikülle Modifiye Edilmiş Horseradish peroksidaz Enzim Elektrot Hazırlanması**  
DEMİREL ÖZEL A., KAÇAR C., KORMALI ERTÜRÜN H., KILIÇ E.  
VI. Ulusal Analitik Kimya Kongresi, Turkey, 12 - 15 September 2012, pp.43
- XXII. **Ksantin Tayini için Fe<sub>3</sub>O<sub>4</sub> Nanopartikül Temelli Amperometrik Karbon Pasta Enzim Elektrot Geliştirilmesi**  
ÖZTÜRK F., ERDEN P. E., KAÇAR SELVİ C., KILIÇ E.  
6. Ulusal Analitik Kimya Kongresi, Turkey, 3 - 07 September 2012
- XXIII. **Fe<sub>3</sub>O<sub>4</sub> Nanopartikül Temelli Laktik Asit Enzim Elektrot**  
KAÇAR SELVİ C., ÖZTÜRK F., ERDEN P. E., KILIÇ E.  
6. Ulusal Analitik Kimya Kongresi, Turkey, 3 - 07 September 2012
- XXIV. **Electrochemical Behavior of Trazodone and Voltammetric Methods for its Direct Determination**  
KAÇAR SELVİ C., TAŞDEMİR İ. H., YAZAN Z., KILIÇ E.  
9th International Electrochemistry Meeting in Turkey, 25 - 29 September 2011
- XXV. **Adsorptive Stripping Method to Assay of Olmesartan in Pharmaceutical Formulations and Biological Medium**  
ÖZTÜRK F., KÜÇÜKKOLBAŞI S., KAÇAR SELVİ C., ERK N., KILIÇ E.  
9th International Electrochemistry Meeting in Turkey, 25 - 29 September 2011
- XXVI. **PREPARATION OF HYDROGEN ION SELECTIVE ELECTRODE BASED ON ZOFENOPRIL CALCIUM**  
KORMALI ERTÜRÜN H., KAÇAR C., DEMİREL ÖZEL A., TAŞDEMİR İ. H., KILIÇ E.  
9th INTERNATIONAL ELECTROCHEMISTRY MEETING IN TURKEY, İzmir, Turkey, 27 September 2011, pp.266
- XXVII. **Square Wave Voltammetric Method for Simultaneous Assay of Amlodipine and Valsartan**  
ERDEN P. E., TAŞDEMİR İ. H., KAÇAR SELVİ C., ERK N., KILIÇ E.  
XVI Euroanalysis (the European Conference on Analytical Chemistry, Challenges in Modern Analytical Chemistry),  
11 - 15 September 2011
- XXVIII. **Fe<sub>3</sub>O<sub>4</sub> Nanoparticles Modified Carbon Paste Enzyme Electrodes for Amperometric Determination of Creatinine and Creatine**  
ERDEN P. E., KAÇAR SELVİ C., PEKYARDIMCI Ş., KILIÇ E.  
XVI Euroanalysis (the European Conference on Analytical Chemistry, Challenges in Modern Analytical Chemistry),  
11 - 15 September 2011
- XXIX. **Kreatin Tayini için Fe<sub>3</sub>O<sub>4</sub> Nanopartikül Temelli Amperometrik Karbon Pasta Enzim Elektrot**

### **Geliştirilmesi**

KAÇAR SELVİ C., ERDEN P. E., PEKYARDIMCI Ş., KILIÇ E.

Uluslararası katılımlı 25. Ulusal Kimya Kongresi, Turkey, 27 June - 02 July 2011

### **XXX. Voltammetric Stripping Methods to Assay of Trazodone HCl in Pharmaceutical Formulations and Biological Medium**

KAÇAR SELVİ C., YAZAN Z., KILIÇ E.

7th Aegean Analytical Chemistry Days-AACD2010, 29 September - 03 October 2010

### **Scientific Refereeing**

Selçuk Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, National Scientific Refreed Journal, April 2022

### **Metrics**

Publication: 73

Citation (WoS): 353

Citation (Scopus): 400

H-Index (WoS): 10

H-Index (Scopus): 11