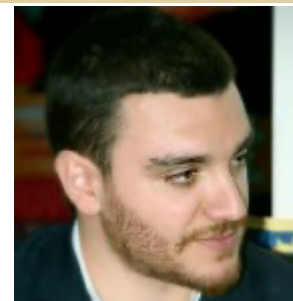




# Emre CEVIK

Associate Professor



## PERSONAL DATA

Nationality | Turkish

Date of Birth | December 18, 1986

Faculty | Institute for Research and Medical Consultations -Current

Email | [cevik1emre@gmail.com](mailto:cevik1emre@gmail.com), [ecevik@iau.edu.sa](mailto:ecevik@iau.edu.sa)

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## LANGUAGE PROFICIENCY

| Language | Read   | Write  | Speak  |
|----------|--------|--------|--------|
| English  | Fluent | Fluent | Fluent |
| Turkish  | Native | Native | Native |

## ACADEMIC QUALIFICATIONS

| Date | Academic Degree                     | Place of Issue      | Address          |
|------|-------------------------------------|---------------------|------------------|
| 2016 | Ph.D. (Biotechnology)               | Istanbul University | Istanbul, Turkey |
| 2012 | M.Sc. (Genetics and Bioengineering) | Fatih University    | Istanbul, Turkey |
| 2009 | B.Sc. (Chemistry)                   | Fatih University    | Istanbul, Turkey |

## PHD, MASTER OR FELLOWSHIP RESEARCH TITLE: (ACADEMIC HONORS OR DISTINCTIONS)

|     |   |
|-----|---|
| PhD | <u>Thesis Title:</u> Designing and Comparison of Electrochemical Biosensors for Detection of Prostate Cancer  |
| MSc | <u>Thesis Title:</u> An Amperometric Biosensor Based on Modified Nanoparticles with an Electron Transfer Mediator for the Determination of Phenol Derivatives |



### PROFESSIONAL RECORD: (BEGINNING WITH THE MOST RECENT)

| Job Rank        | Place and Address of Work                          |                 | Date         |
|-----------------|--|-----------------|--------------|
| Assoc. Prof.    | Imam Abdulrahman Bin Faisal University             | Dammam/KS A     | 2021 - Today |
| Assist. Prof.   | Imam Abdulrahman Bin Faisal University             | Dammam/KS A     | 2017 - 2021  |
| General Manager | EMC Technology, Medical, Chemical & Consulting LTD | Istanbul/Turkey | 2016 - 2017  |
| Researcher      | Lund University                                    | Lund/Sweden     | 2013-2014    |
| Res. Assist.    | Istanbul University (Formerly: Fatih University)   | Istanbul/Turkey | 2010 - 2016  |

### SELECTED AWARDS

| Date | Agency  | Title   | Place of Issue   |
|------|---|---|------------------|
| 2016 | Newton Fund – Royal Accademy of Engineering           | Leaders in Innovation Fellowship  | United Kingdom   |
| 2015 | Turkey's Ministry of Science, Industry and Technology | The Development of Screen Printed Electrodes for Electrochemical Applications | Istanbul, Turkey |

### AREA OF INTEREST

|   |                                      |
|---|--------------------------------------|
| 1 | Electrochemistry                     |
| 2 | Batteries                            |
| 3 | Energy storage                       |
| 4 | Supercapacitors                      |
| 5 | Bio-photovoltaic fuel cells          |
| 6 | Electrode designing and construction |
| 7 | Biosensors                           |
| 8 | Bioelectronics                       |
| 9 |                                      |



## RESEARCH PROJECTS ONGOING AND COMPLETED

| #  | Research Title   | Role                      | Budget        | Funding Agency  | Date                  |
|----|--|---------------------------|---------------|---|-----------------------|
| 1  | Rechargeable Hydrogen Gas Batteries for Grid Storage   | Co-Principle Investigator | 7.500.000 SAR | Ministry of Education – (RDO)                         | 2019 – 2022 completed |
| 2  | Construction of Novel Photo-Bioelectrochemical fuel Cells for Electricity Production by Harvesting Light Energy  | Co-Investigator           | 300.000 SAR   | King Fahad University of Minerals and Petroleum       | 2020 – 2022 completed |
| 3  | Direct electricity production by harvesting solar energy; Fabrication of novel high efficiency photo-anodes assembled photo-bioelectrochemical fuel cells                        | Principle Investigator    | 200.000 SAR   | DSR   | 2020 – 2022 completed |
| 4  | The production of novel Hydrophobic/hydrophilic redox-active sulfonated solid/gel polymers as cost-effective electrolytes for flexible supercapacitor and lithium-sulfur battery | Co-Investigator           | 200.000 SAR   | DSR   | 2020 – 2022 completed |
| 5  | Design and Construction of Novel Photo-Bioelectrochemical fuel Cells: Conversion of Light Energy in to Electricity   | Co-Investigator           | 200.000 SAR   | DSR   | 2019 – 2021 completed |
| 6  | Laboratory Scale In-Situ Petroleum Hydrocarbon Bioremediation by using Geotextile filter, Bacteria and Nutrients   | Researcher                | 200.000 SAR   | DSR-IAU   | 2019 – 2021 completed |
| 7  | Identification of MLO genes related with powdery-mildew disease and development of disease resistant barley by using CRISPR-Cas9 system  | Researcher                | 199.000 SAR   | DSR-IAU   | 2019 – 2021 completed |
| 8  | Development of an Electrochemical Glucose Biosensor for Diabetes Patients: Fast and Reliable Detection From Saliva   | Principle Investigator    | 115.500 SAR   | DSR-IAU   | 2018 – 2020 completed |
| 9  | Development of Biosensor Systems For Early Detection Of Cancer Biomarkers” project supported by Deanship of scientific research  | Co-Investigator           | 200.000 SAR   | DSR-IAU   | 2018 – 2020 completed |
| 10 | The Development of Screen-Printed Electrodes for Electrochemical Applications  | Principle Investigator    | 50.000 USD    | Turkey’s Ministry of Science, Industry and Technology | 2015 – 2016 completed |



## SCIENTIFIC ACHIEVEMENTS

### Patents and Applications

(In Chronological Order Beginning with the Most Recent)

| #  | Name of Investigator(s)  | Title   | Publisher                               |
|----|--|---|---|
| 1  | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | method for charging polymer-reinforced capacitor                              | United States Patent<br>#20230290581    |
| 2  | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | supercapacitor having flexible electrode unit                                 | United States Patent<br>#20230268138    |
| 3  | Asiri, Sarah Mousa Maadi (Dammam, SA)<br>Cevik, Emre (Dammam, SA)<br>Bozkurt, Ayhan (Dammam, SA) | molybdenum doped carbon nanotube and graphene nanocomposite electrodes        | United States Patent<br>#20230268137    |
| 4  | Cevik, Emre (Dammam, SA)<br>Bozkurt, Ayhan (Dammam, SA)  | method for making a nanocomposite electrode and supercapacitor                | United States Patent<br>#20230253166    |
| 5  | Cevik, Emre (Dammam, SA)<br>Bozkurt, Ayhan (Dammam, SA)  | nanocomposite electrodes and method of preparation thereof                    | United States Patent<br>#11682531       |
| 6  | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | flexible energy storage device with redox-active polymer hydrogel electrolyte | United States Patent<br>#11664174       |
| 7  | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | method for storing energy in a hydrogel supercapacitor                        | United States Patent<br>#11749468       |
| 8  | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | method for storing energy in a hydrogel supercapacitor                        | United States Patent<br>#20230061053    |
| 9  | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | flexible energy storage device with redox-active polymer hydrogel electrolyte | United States Patent<br>#20230021238    |
| 10 | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | gel electrolyte capacitor   | United States Patent<br>#11551880       |
| 11 | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)<br>Anil, Seyda Tugba Gunday (Dammam, SA) | flexible energy storage device based on glycerol gel electrolyte              | United States Patent<br>#20220328257    |
| 12 | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA)  | gel electrolyte capacitor   | United States Patent,<br>#20220223355A1 |



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|----|---|---|-----------------------------------|
| 13 | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA) | redox-mediated poly (vinylphosphonic acid) useful in capacitors               | United States Patent #11328877    |
| 14 | Bozkurt, Ayhan (Dammam, SA)<br>Cevik, Emre (Dammam, SA) | supercapacitor based on polymer electrolyte containing mo (iv) doped hydrogel | United States Patent #20210119254 |

**Number of total patent applications ongoing: 7**

### Published Refereed Scientific Research

(In Chronological Order Beginning with the Most Recent)

| #   | Name of Investigator(s)  | Research Title  | Publisher and Date of Publication /DOI           |
|-----|--|---|--|
| 102 | Xin Xiao, Zewen Zhang, Yecun Wu, Jinwei Xu, Xin Gao, Rong Xu, Wenxiao Huang, Yusheng Ye, Solomon T Oyakhire, Pu Zhang, Baoliang Chen, <b>Emre Cevik</b> , Sarah M Asiri, Ayhan Bozkurt, Khalil Amine, Yi Cui | Ultrahigh-loading Manganese-based Electrode for Aqueous Battery via Polymorph Tuning  | Advanced Materials 2023, 35, 2211555             |
| 101 | <b>Emre Cevik</b> , Talal F. Qahtan, Sarah M. Asiri, and Ayhan Bozkurt   | Synthesis of Zn Intercalated Zn-V@Mo-V Nanorods-based Cathodes for Prolonged Cyclic Stability of Rechargeable Aqueous Zinc-Ion Batteries                        | ACS Applied Nano Materials 2023, 6, 9, 7745–7753 |
| 100 | Fatimah Alahmari, Seyda T. Gunday, Arfa Iqbal, Sarah M. Asiri, Ayhan Bozkurt, Talal F. Qahtan, <b>Emre Cevik</b>   | Synthesis of Zn doped CrV spinel oxide nanostructures for flexible supercapacitor and hydrogen evolution reaction   | Int. J. Hydrogen Energy 2023, 06, 199            |
| 99  | Syed Shaheen Shah, Md. Abdul Aziz, <b>Emre Cevik</b> , Muhammad Ali, Seyda T. Gunday, Ayhan Bozkurt, Zain H. Yamani  | Sulfur nano-confinement in hierarchically porous jute derived activated carbon towards high-performance supercapacitor: Experimental and theoretical insights   | Journal of Energy storage 2023, 105944           |
| 98  | Seyda T. Gunday, <b>Emre Cevik</b> , Sarah Asiri, Arfa Iqbal, Atheel Almofleh, Ameerah N. Alqarni, Ismail Anil, Omar Alagha, Ayhan Bozkurt   | Synthesis of Boron-Doped Non-Flammable Anhydrous Electrolytes for Flexible Quasi-Solid-State Supercapacitor Applications  | ACS Energy & Fuels 2023,                         |
| 97  | Arfa Iqbal, <b>Emre Cevik</b> , Ayhan Bozkurt, Ayyaz Mustafa, Sarah Asiri, Omar Alagha, Talal F Qahtan   | Tailored multifunctional molybdenum-iron nanosheets for enhanced membrane filtration and excellent electrocatalytic performance for hydrogen evolution reaction | Journal of Cleaner Production 421, 2023, 138486  |
| 96  | Afzal Husain Khan, Hamidi Abdul Aziz, Pugeseshwary Palaniandy, Mu Naushad, <b>Emre Cevik</b> , Sasan Zahmatkesh  | Pharmaceutical residues in the ecosystem: Antibiotic resistance, health impacts, and removal techniques   | Chemosphere 2023, 339, 139647                    |



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|----|--|--|--|
| 95 | <b>Emre Cevik</b> , M.A. Gondal, Noha Qahtani, M. Hassan   | Quantum dots decorated photoanodes in bioelectrochemical fuel cells: Enhanced electricity generation using green algae   | Biotechnology and Bioengineering<br>2023, 120, 2242–2252                       |
| 94 | <b>Emre Cevik</b> , Ayhan Bozkurt, Seyda Tugba Gunday, Talal F. Qahtan, Qasim A. Drmash, Khaled A. Elsayed, Sultan Akhtar, Ayyaz Mustafa                                       | Synthesis of NiO/Fe <sub>2</sub> VO <sub>4</sub> nano-hybrid structures via sonication induced approach for electrochemical energy storage in non-aqueous medium | Journal of Energy Storage<br>2023, 107873                                      |
| 93 | Abdullah A Manda, Khaled A Elsayed, Shamsuddeen A Haladu, <b>Emre Cevik</b> , Mansur B Ibrahim, QA Drmash  | Catalytic activity of cellulose acetate butyrate/TiO <sub>2</sub> -Au nanocomposite film prepared by laser ablation for 2-nitrophenol reduction                  | Journal of Polymers and the Environment<br>2023, pages 1-12                    |
| 92 | Abbad Al Baroot, Khaled A Elsayed, Firdos Alam Khan, Shamsuddeen A Haladu, Filiz Ercan, <b>Emre Cevik</b> , QA Drmash, MA Almessiere   | Anticancer activity of Au/CNT nanocomposite fabricated by nanosecond pulsed laser ablation method on colon and cervical cancer                                   | Micromachines<br>2023, 14, 1455  |
| 91 | Muidh Alheshibri, Khaled A Elsayed, Firdos Alam Khan, Shamsuddeen A Haladu, Filiz Ercan, <b>Emre Cevik</b> , QA Drmash, TS Kayed, MA Almessiere                                | Tuning the morphology of Au/ZnO nanocomposite using pulsed laser ablation for anticancer applications  | Arabian Journal for Science and Engineering<br>2023, Pages 1-12                |
| 90 | Tahani M. Alfareed, Atheel Almofleh, Sarah M. Asiri, Jwahr M. AlGhamdi, <b>Emre Cevik</b>  | Molybdenum-cobalt micro-nano interface assisted ultrasensitive and selective non-enzymatic glucose biosensor   | Microchemical Journal<br>Volume 191, 2023, 108923                              |
| 89 | Ameerah N. Alqarni, <b>Emre Cevik</b>  | Fabrication of Bismuth-doped Co–Ni spinel ferrite electrodes for enhanced cyclic performance in asymmetric supercapacitors                                       | Journal of Physics and Chemistry of Solids<br>Volume 177, 2023, 111288         |
| 88 | Abbad Al Baroot, Khaled A Elsayed, Abdullah A Manda, Shamsuddeen A Haladu, Saminu Musa Magami, <b>Emre Cevik</b> , QA Drmash   | Efficient catalytic reduction of 2-nitrophenol using cellulose acetate butyrate/CuO nanocomposite prepared by laser ablation technique                           | Journal of Polymers and the Environment<br>2023, Pages 1-12                    |
| 87 | Khaled A Elsayed, KH Mahmoud, Shamsuddeen A Haladu, Saminu Musa Magami, Abdullah A Manda, TS Kayed, AbbadAl Baroot, Mohd Yusuf Khan, <b>Emre Cevik</b> , QA Drmash, A Elhassan | Thermal, dielectric and optical studies on cellulose acetate butyrate-gold nanocomposite films prepared by laser ablation  | Journal of Materials Research and Technology<br>2023, Volume 23, Pages 419-437 |
| 86 | Khaled A Elsayed, KH Mahmoud, Shamsuddeen A Haladu, Saminu Musa Magami, Abdullah A Manda, TS Kayed, AbbadAl Baroot, Mohd Yusuf Khan, <b>Emre Cevik</b> , QA Drmash, A Elhassan | One-pot synthesis of SnO <sub>2</sub> nanoparticles decorated multi-walled carbon nanotubes using pulsed laser ablation for photocatalytic applications          | Optics and Laser Technology<br>Volume 157, January 2023, 108734                |
| 85 | <b>Emre Cevik</b> , Seyda Tugba Gunday, Ayhan Bozkurt, Arfa  | Scalable, Quasi-Solid-State Bio-polymer Hydrogel Electrolytes for High-Performance Supercapacitor  | ACS Sustainable Chem. Eng. 2022, 10, 33, 10839–                                |



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|----|--|---|--|
|    | Iqbal, Sarah M. Asiri, Ameerah N. Alqarni, Atheel Almofleh   | Applications  | 10848  |
| 84 | Arfa Iqbal, Muhammad Irfan Jalees, Muhammad Umar Farooq, <b>Emre Cevik</b> , Ayhan Bozkurt   | Superfast adsorption and high-performance tailored membrane filtration by engineered Fe-Ni-Co nanocomposite for simultaneous removal of surface water pollutants  | Colloids and Surfaces A: Physicochemical and Engineering Aspects<br><a href="#">Volume 652</a> , 5 November 2022, 129751               |
| 83 | M. Alheshibri, K. Elsayed, S. Haladu, S. M. Magami, A. Al Baroot, İ. Ercan, F. Ercan, A. A. Manda, <b>E. Cevik</b> , T.S. Kayed, A. A. Alsaneab, A. M. Alotaibi, A.L.Al-Otaibibi | Synthesis of Ag nanoparticles-decorated on CNTs/TiO <sub>2</sub> nanocomposite as efficient photocatalysts via nanosecond pulsed laser ablation   | Optics and Laser Technology<br><a href="https://doi.org/10.1016/j.optlastec.2022.108.443">doi.org/10.1016/j.optlastec.2022.108.443</a> |
| 82 | Muhammad Hassan, Mohammed A. Gondal, <b>Emre Cevik</b> , and Ayhan Bozkurt   | Synthesis of a Molybdate-Chelated Biodegradable Gel Electrolyte for High Energy Density Supercapacitors   | ACS Appl. Energy Mater.<br>2022, 5, 6, 6833–6846   |
| 81 | Arfa Iqbal, <b>E Cevik</b> , Ayhan Bozkurt, Sarah M. Asiri, Omar Alagha, Talal F. Qahtan, Muhammad Irfan Jalees, Muhammad Umar Farooq  | Ultrahigh adsorption by regenerable iron-cobalt core-shell nanospheres and their synergetic effect on nanohybrid membranes for removal of malachite green dye   | Journal of Environmental Chemical Engineering<br>Volume 10, Issue 3, June 2022, 107968   |
| 80 | A Iqbal, <b>E Cevik</b> , O Alagha, A Bozkurt  | Highly robust multilayer nanosheets with ultra-efficient batch adsorption and gravity-driven filtration capability for dye removal  | Journal of Industrial and Engineering Chemistry 109, 287-295   |
| 79 | <b>E Cevik</b> , SM MAsiri, TF Qahtan, Ayhan Bozkurt   | Fabrication of high mechanical stability electrodes and bio-electrolytes for high-performance supercapacitor application  | Journal of Alloys and Compounds,<br><a href="https://doi.org/10.1016/j.jallcom.2022.165230">doi.org/10.1016/j.jallcom.2022.165230</a>  |
| 78 | Ameerah N. Alqarni, <b>E. Cevik</b> , M.A. Gondal, M.A. Almessiere, A. Baykal, A. Bozkurt, Y.Slimani, M.Hassan, A. Iqbal, Sarah A. Alotaibi                                      | Synthesis and design of vanadium intercalated spinal ferrite (Co <sub>0.5</sub> Ni <sub>0.5</sub> V <sub>x</sub> Fe <sub>1.6-x</sub> O <sub>4</sub> ) electrodes for high current supercapacitor applications | Journal of Energy Storage<br>Volume 51, July 2022, 104357  |
| 77 | M. S. Manzar, T. Ahmad, N. Ullah, P. V. Chellam, J. John, M. Zubair, R. J. Brandão, L. Meili, O. Alagha, <b>E. Cevik</b>   | Comparative Adsorption of Eriochrome black T onto recyclable steel dust: Isotherm, Kinetics and Thermodynamic Studies   | Colloids and Surfaces A: Physicochemical and Engineering Aspects<br>Volume 645, 20 July 2022, 128828                                   |
| 76 | M. S. Manzar, T. Ahmad, N. Ullah, P. V. Chellam, J. John, M. Zubair, R. J. Brandão, L. Meili, O. Alagha, <b>E. Cevik</b>   | Comparative adsorption of Eriochrome Black T and Tetracycline by NaOH-modified steel dust: Kinetic and process modeling   | Separation and Purification Technology<br>287, 15 April 2022, 120559   |
| 75 | C Yaman, I Anil, O Alagha, NI Blaisi, AB Yaman, A Qureshi, <b>E Cevik</b>  | Toluene Bioremediation by Using Geotextile-Layered Permeable Reactive Barriers (PRBs)   | Processes 9, 906   |
| 74 | <b>E Cevik</b> , B Karaman, ST Gunday, AyhanBozkurt  | Graft copolymer electrolytes for electrochemical double layer electrochemical capacitor applications  | Synthetic Metals 278, 116814   |



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|----|--|---|--|
| 73 | <b>E Cevik</b> , ST Gunday, A Iqbal, S Akhtar, A Bozkurt   | Synthesis of hierarchical multilayer N-doped Mo <sub>2</sub> C@MoO <sub>3</sub> nanostructure for high-performance supercapacitor application   | journal of energy storage<br>2022, 46, 103824                                    |
| 72 | A Almofleh, <b>E Cevik</b> , A Bozkurt   | The development of novel cost-effective bio-electrolyte with glycerol host for carbon based flexible supercapacitor applications  | International journal of energy storage,<br>2022; 46(4): 5189-5199               |
| 71 | Seyda Tugba Gunday, Talal Qahtan, <b>Emre Cevik</b> , Ismail Anil, Omar Alagha, Ayhan Bozkurt                        | Highly Flexible and Tailorable Cobalt-Doped Cross-Linked Polyacrylamide-Based Electrolytes for Use in High-Performance Supercapacitors  | Chemistry–An Asian Journal<br>2021, 16, 1438                                     |
| 70 | M. Abdullah Almessiere, Y.A. Slimani, M. Hassan, M. A. Gondal, <b>E. Cevik</b> , Abdulhadi Baykal                    | Investigation of Hard/Soft CoFe <sub>2</sub> O <sub>4</sub> /NiSc <sub>0.03</sub> Fe <sub>1.97</sub> O <sub>4</sub> Nanocomposite for Energy Storage Applications                     | International Journal of Energy Research<br>2021; 45(11): 16691–16708            |
| 69 | M. Hassan, M.A. Gondal, <b>E. Cevik</b> , M.A. Dastageer, R.A. Moqbel, T.F. Qahtan, A. Bozkurt, U. Baig, N. Al Abass | Laser Assisted Anchoring of Cadmium Sulfide Nanospheres into Tungsten Oxide Nanosheets for Enhanced Photocatalytic and Electrochemical Energy Storage Applications                    | Colloids and Surfaces A: Physicochemical and Engineering Aspects                 |
| 68 | TF Qahtan, <b>E Cevik</b> , MA Gondal, A Bozkurt   | Synthesis of manganese (IV) oxide at activated carbon on reduced graphene oxide sheets via laser irradiation technique for organic binder-free electrodes in flexible supercapacitors | Ceramics International<br>2020, 47, 7416-7424                                    |
| 67 | SS Shar, <b>E Cevik</b> , A Bozkurt, C Yaman, Z Almutari, TS Kayed   | Molybdate incorporated poly(acrylic acid) electrolytes for use in quasi-solid state carbon based supercapacitors: Redox-active polychelates   | Electrochimica Acta<br>2020, 354, 136770   |
| 66 | M Hassan, MA Gondal, <b>E Cevik</b> , TF Qahtan, A Bozkurt, MA Dastageer   | High Performance Pliable Supercapacitor Fabricated Using Activated Carbon Nanospheres Intercalated into Boron Nitride Nanoplates by Pulsed Laser Ablation technique                   | Arabian Journal of Chemistry<br>Volume 13, Issue 8, August 2020, Pages 6696-6707 |
| 65 | S Khan, H Tombuloglu, S E Hassanein, S Rehman, A Bozkurt, <b>E Cevik</b> , S Abdel-Ghany, G Nabi, A Ali, H Sabit     | Coronavirus diseases 2019: Current biological situation and potential therapeutic perspective   | European Journal of Pharmacology<br>Volume 886, 5 November 2020, 173447          |
| 64 | ST Gunday, <b>E Cevik</b> , I Anil, O Alagha, H Sabit, A Bozkurt   | Symmetric Supercapacitor Application of Anhydrous Gel Electrolytes Comprising Doped Tetrazole Terminated Flexible Spacers   | Macromolecular Research<br>volume 28, pages1074–1081(2020)                       |
| 63 | <b>E Cevik</b> , A Bozkurt   | Redox active polymer metal chelates for use in flexible symmetrical supercapacitors: Cobalt-containing poly(acrylic acid) polymer electrolytes  | Journal of Energy Chemistry<br>Volume 55, April 2021, Pages 145-153              |





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|----|---|---|--|
| 62 | SA Ghany, S Raslan, H Tombuloglu, A Shamseddin, <b>E Cevik</b> , OA Said et al;   | Vorinostat-loaded titanium oxide nanoparticles (anatase) induce G2/M cell cycle arrest in breast cancer cells via PALB2 upregulation                | 3 Biotech<br>Volume 10, Article number: 407 (2020)   |
| 61 | M Tekin, <b>E Cevik</b> , S Sayin, HB Yildiz  | Photocurrent and Hydrogen Production By Overall Water Splitting Based on Polymeric Composite Calix[n]arene/Cyanin Dye/IrO <sub>2</sub> Nanoparticle | International Journal of Hydrogen Energy<br>Volume 45, Issue 38, 31 July 2020, Pages 19869-19879 |
| 60 | <b>Emre Cevik</b> , Huseyin Tombuloglu, Ismail Anil, Mehmet Senel, Hussein Sabit, Sayed AbdulAzeez, J Francis Borgio, Mohammad Barghouthi | Direct electricity production from Microalgae Choricystis sp. and investigation of the boron to enhance the electrogenic activity                   | International Journal of Hydrogen Energy<br>Volume 45, Issue 19, 3 April 2020, Pages 11330-11340 |
| 59 | <b>E Cevik</b> , A Bozkurt  | Design of high performance flexible symmetric supercapacitors energized by redox mediated hydrogels including metal doped acidic polyelectrolyte    | International Journal of Energy Research<br>DOI:10.1002/er.5199                                  |
| 58 | <b>E Cevik</b> , ST Gunday, I Anil, O Alagha, A Bozkurt   | Construction of symmetric supercapacitors using anhydrous electrolytes containing heterocyclic oligomeric structures                                | International Journal of Energy Research<br>DOI:10.1002/er.5097                                  |
| 57 | ST Gunday, <b>E Cevik</b> , I Anil, O Alagha, A Bozkurt   | High-temperature symmetric supercapacitor applications of anhydrous gel electrolytes including doped triazole terminated flexible spacers           | Journal of Molecular Liquids<br>Volume 301, 1 March 2020, 112400                                 |
| 56 | S Abdel-Ghany, M Mahfouz, N Ashraf, H Sabit, <b>E Cevik</b> , M ElZawahri   | Gold nanoparticles induce G2/M cell cycle arrest and enhance the expression of E-cadherin in breast cancer cells                                    | Inorganic And Nano-Metal Chemistry<br>DOI:10.1080/24701556.2020.1728553                          |
| 55 | MA Abd-Elhakeem, OM Abdel-Haseb, SE Abdel-Ghany, <b>E Cevik</b> , H Sabit   | Doxorubicin loaded on chitosan-protamine nanoparticles triggers apoptosis via downregulating Bcl-2 in breast cancer cells                           | Journal of Drug Delivery Science and Technology<br>Volume 55, February 2020, 101423              |
| 54 | <b>E Cevik</b> , A Bozkurt, M Dirican, X Zhang  | High performance flexible supercapacitors including redox active molybdate incorporated Poly(vinylphosphonic acid) hydrogels                        | International Journal of Hydrogen Energy<br>Volume 45, Issue 3, 13 January 2020, Pages 2186-2194 |



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|----|---|---|--|
| 53 | Yusuf O Ibrahim, MA Gondal, A Alaswad, RA Moqbel, M Hassan, <b>E Cevik</b> , TF Qahtan, MA Dastageer, A Bozkurt | Laser-induced anchoring of WO <sub>3</sub> nanoparticles on reduced graphene oxide sheets for photocatalytic water decontamination and energy storage       | Ceramics International<br>Volume 46, Issue 1,<br>January 2020, Pages 444-451                     |
| 52 | H Sabit, <b>E Cevik</b> , H Tombuloglu  | Colorectal cancer: The epigenetic role of microbiome  | World J Clin Cases.<br>2019 Nov 26; 7(22):<br>3683–3697  |
| 51 | S Asiri, <b>E Cevik</b> , H Sabit, A Bozkurt  | Alginate-Guided Size and Morphology Controlled Synthesis of MnO <sub>2</sub> Nanoflakes   | Soft Materials<br>DOI:10.1080/1539445X.2019.1672192  |
| 50 | ST Gunday, <b>E Cevik</b> , A Yusuf, A Bozkurt  | Synthesis, characterization and supercapacitor application of ionic liquid incorporated nanocomposites based on SPSU/Silicon dioxide                        | Journal of Physics and Chemistry of Solids<br>Volume 137, February 2020,<br>109209               |
| 49 | <b>E Cevik</b> , ST Gunday, S Akhtar, ZH Yamani, A Bozkurt  | Sulfonated hollow silica spheres as electrolyte store/release agent: High performance supercapacitor application  | Energy Technology<br>DOI:10.1002/ente.201900511  |
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| 9  | F Yalçın, <b>E Çevik</b> , M Şenel, A Baykal        | Development of an amperometric hydrogen peroxide biosensor based on the immobilization of horseradish peroxidase onto nickel ferrite nanoparticle-chitosan composite   | Nano-Micro Letters<br>Volume 3 (2), 91-98, 2011                         |
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| 7  | M Şenel, <b>E Çevik</b> , MF Abasıyanık, A Bozkurt  | Entrapment of urease in poly (1-vinyl imidazole)/poly (2-acrylamido-2-methyl-1-propanesulfonic acid) network   | Journal of Applied Polymer Science 119<br>Volume (4), 1931-1939, 2011   |
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| 3 | K Uzun, <b>E Çevik</b> , M Şenel, H Sözeri, A Baykal, MF Abasiyanik, MS Toprak | Covalent immobilization of invertase on PAMAM-dendrimer modified superparamagnetic iron oxide nanoparticles                                    | Journal of nanoparticle research<br>Volume 12 (8), 3057-3067, 2010  |
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### Book / Book Chapters

| No | Title of Book   | Authorss                                      | Chapter Title   | ISSN / DOI  | Publisher                              |
|----|---|---|---|---|--|
| 1  | Industrial Applications of Nanomaterials                      | Bekir Yildiz, Emre Cevik, Buket Bezgin Carbas | Chapter 3 - Nanotechnology for biological photovoltaics; industrial applications of nanomaterials | <a href="https://doi.org/10.1016/B978-0-12-815749-7.00003-7">https://doi.org/10.1016/B978-0-12-815749-7.00003-7</a> | Elsevier / 2020                        |
| 2  | Nanomaterials Based Biosensors: Amperometric Phenol Detection | E Çevik, M Senel, MF Abasiyanik               |   | 978-3-659-26596-9   | LAP LAMBERT Academic Publishing / 2012 |
| 3  | Nanotechnology  | Emre Cevik And Mehmet Senel                   | Amperometric Biosensors Based on Metal Nanoparticles  | 1-62699-010-7   | Studium Press LLC, U.S.A. / 2013       |

### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

| # | Name of Investigator(s)                                | Research Title  | Conference and Publication Date   |
|---|--|---|---|
| 1 | Mustafa Buyukharman, E. Cevik and Huseyin Bekir Yildiz | Construction of Efficient Bio-Electrochemical Devices; An Improved Electricity Production from Cyanobacterium ( <i>Leptolyngbia</i> sp.) Based on $\pi$ -Conjugated Conducting Polymers/Gold Nanoparticles Composite Interfaces | Electrochemical Conference on Energy and the Environment (ECEE 2019): Bioelectrochemistry and Energy Storage (July 21-26, 2019) |





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| 2 | Çevik, E.; Şenel, M.; Baykal, A.; Abasıyanık, M.F.   | An amperometric biosensor based on modified nanoparticles with an electron transfer mediator for the determination of phenol derivatives.                         | Current Opinion in Biotechnology, 2011, 22, Supplement 1, Pages S64   |
| 3 | <u>Çevik, E.; Şenel, M.; Abasıyanık, M.F</u>   | Preparation and amperometric glucose detection of asymmetric Ferrocene-PAMAM dendrimers incorporated modified enzyme electrodes, ,                                | 5. International Bioengineering Congress , İzmir/Türkiye, Jun. 2010,  |
| 4 | Uzun, K.; Çevik, E.; Şenel, M.; Sözeri, H.; M. Abasıyanık, M.F.; Baykal, A.; Toprtak, M.S. | Covalent Immobilization of Invertase on PAMAM-Dendrimer Modified Superparamagnetic Iron Oxide Nanoparticles   | 6.Nanoscience and Nanotechnology Congress, İzmir/Turkey, Jun. 2010,   |
| 5 | Şenel, M.; Çevik, E.; Abasıyanık, M.F.   | A novel amperometric glucose biosensor based on copolymer of pyrrole-PAMAM dendritic wedges,  | 5. International Bioengineering Congress, İzmir/Turkey, Jun. 2010, 5.   |
| 6 | Çevik, E.; Şenel, M.; Abasıyanık, M.F.; Bozkurt, A.  | Entrapment of Urease in Poly(1-vinyl imidazole)/Poly(2-acrylamido-2-methyl-1-propanesulfonic acid) Network,   | 3. National Polymer Science and Technology Congress, Kocaeli/Turkey, May. 2010  |
| 7 | Şenel, M.; Çevik, E.; Abasıyanık, M.F  | Preparation of ferrocene-modified polypyrrole derivative and its application in glucose biosensor, ,  | 6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Antalya/Turkey, Mar. 2010  |
| 8 | Şenel, M.; Çevik, E.; Abasıyanık, M.F  | Amperometric hydrogen peroxide biosensor based on covalent immobilization of horseradish peroxidase on copolymer poly(glycidyl methacrylate-co-vinylferrocene), , | 6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Antalya/ Turkey, Mar. 2010 |
| 9 | Şenel, M.; Çevik, E.; Abasıyanık, M.F.   | A novel amperometric urea biosensor based on copolymer of pyrrole-PAMAM dendritic wedges,   | 6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Antalya/ Turkey, Mar. 2010 |



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| 10 | Çevik, E.; Şenel, M.;<br>Abasıyanık, M.F                              | Construction of a novel<br>amperometric biosensor for<br>determination of urea with<br>polymeric electron transfer<br>mediator, | National XVI. Biotechnology<br>Congress,<br>Antalya/Turkey, Dec.<br>2009 |
| 11 | Coşkun A.; Çevik, E.;<br>Şenel, M.;<br>Abasıyanık, M.F.;<br>Bozkurt A | Immobilization of urease in<br>poly(1-vinyl<br>imidazole)/poly(acrylic acid)<br>network,  | National XVI. Biotechnology<br>Congress, Antalya/Turkey, Dec.<br>2009    |



## TEACHING ACTIVITIES

### Undergraduate

| # | Course/Rotation Title              | No./Code | Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics) | Year      |
|---|------------------------------------|----------|--|-----------|
| 1 | Engineering Drawing                | ENGR 104 | 1 Lecture / 1 Lab  | 2015-2016 |
| 2 | Microbiology Laboratory            | GBE 204  | 1 Lecture Lab  | 2014-2016 |
| 3 | Analytical Biochemistry Laboratory | GBE 205  | 1 Lecture Lab  | 2010-2016 |

### Postgraduate





| # | Course/Rotation Title            | No./Code | Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics) | Year |
|---|----------------------------------|----------|--|------|
| 1 | Smart Materials (Energy Storage) | MSNE 832 | Lecture  | 2023 |
| 2 | Smart Materials (Energy Storage) | MSNE 832 | Laboratory   | 2022 |
| 3 | Smart Materials (Energy Storage) | MSNE 832 | Laboratory   | 2021 |
| 4 | Smart Materials (Energy Storage) | MSNE 832 | Laboratory   | 2020 |



## Certificates

| # | Name   | Date | Organization-City                    |
|---|--|------|--------------------------------------|
| 1 | Certificate of Summer Program                            | 2022 | IRMC - IAU                           |
| 2 | Journal Citation Report                                  | 2020 | Clarivate Analytics/IAU - Dammam     |
| 3 | Reaxys: Shortest path from chemistry questions to answer | 2018 | Elsevier/IAU - Dammam                |
| 4 | Elsevier Publishing Campus                               | 2017 | Elsevier/IAU - Dammam                |
| 5 | Leaders in Innovation                                    | 2016 | Royal Academy of Engineering, London |
| 6 | Good Manufacturing Process (GMP)                         | 2014 | Chemists Association, Istanbul       |

## Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

|   |  |
|---|--|
| 1   | <i>Computer &amp; IT</i><br>Solid works 3D drawing, Corel Draw, Origin, Chem Office, AutoCAD, Microsoft Office   |
| 2   | <i>Technical</i> <ul style="list-style-type: none"> <li>• Battery - Supercapacitor fabrication</li> <li>• Electrochemical fuel cell fabrication</li> <li>• Potentiostat / Galvanostat</li> <li>• Scanning Electron Microscopy</li> <li>• Electrochemical Battery Analyzer (Neware BS4000)</li> <li>• Solar simulator</li> <li>• Thermal Physical Evaporator</li> </ul> |
|  | <a href="https://publons.com/researcher/3340135/emre-cevik">https://publons.com/researcher/3340135/emre-cevik</a>  |
|  | <a href="https://orcid.org/0000-0003-2075-7361">https://orcid.org/0000-0003-2075-7361</a>  |
|  | <a href="https://www.scopus.com/authid/detail.uri?authorId=33367506300">https://www.scopus.com/authid/detail.uri?authorId=33367506300</a>  |
|  | <a href="https://scholar.google.com.tr/citations?user=zdlv8dsAAAAJ&amp;hl=tr">https://scholar.google.com.tr/citations?user=zdlv8dsAAAAJ&amp;hl=tr</a>  |
| ResearcherID  | AAI-2221-2020  |