**DİPLOMA PROJESİ-2021 PROJE LİSTESİ**

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| **No** | **Öğretim Üyesi** | **Proje Başlığı\*** | **Öğrenci Ad-Soyad** | | **Teorik Çalışma** | **Lab. Uygulamalı Çalışma** |
| **1** | Prof. Dr. LEVENT BALLİCE | Batch Hydrothermal Co-liquefaction of lignocellulosic Biomass with Polyalcohol | BUSE | YAĞIZ |  | **X** |
| **2** | Prof. Dr. LEVENT BALLİCE | Hydrothermal Decomposition of Lignocellulosic Biomass Materials | İBRAHİM MERT | BABACAN |  | **X** |
| MÜNİRE BUSE | ÖÇAL |  |
| **3** | Prof. Dr. LEVENT BALLİCE | Non-isothermal Kinetics of Biomass Pyrolysis | İsmail Eray | AKGÜN | **X** |  |
| **4** | Prof. Dr. LEVENT BALLİCE | Platform Chemicals from lignocellulosic biomass materials | BARIŞ CAN | ERDEMİR | **X** |  |
| **5** | Prof. Dr. NALAN KABAY | Recent Progress in the Development of Blue Energy Production by Reverse Electrodialysis (RED) | CAN | DOĞRU | **X** |  |
| **6** | Prof. Dr. NALAN KABAY | Integrated Management of Geothermal Water | İREM | ARI |  | **X** |
| **7** | Prof. Dr. NALAN KABAY | Outperforming functionality: composite/mixed matrix porous materials in membrane-based processes | BORA | ERYILDIRIM |  | **X** |
| **8** | Prof. Dr. NALAN KABAY | Effects of operating conditions on the performance of Reverse Electrodialysis (RED) for Blue Energy Production | AHMET CAN | ÇİÇEK | **X** |  |
| **9** | Prof. Dr. NALAN KABAY | Recovery of Lithium from Saline Water by BMED | EGE | KARAPINAR |  | **X** |
| **10** | Prof. Dr. NALAN KABAY | Utilization of solar desalination system for treatment of geothermal water | ECE | TURHANOĞLU |  | **X** |
| **11** | Prof. Dr. NALAN KABAY | BÜŞRA | ÖZDEMİR |  |
| **12** | Prof. Dr. NALAN KABAY | Utilization of solar desalination system for treatment of geothermal water | ZEYNEP | KIRIŞTI | **X** |  |
| **13** | Prof. Dr. NALAN KABAY | Recovery of Lithium from Saline Water by BMED | MELİH | İNCE |  | **X** |

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| **14** | Prof. Dr. ŞERİFE ŞEREF HELVACI | Usage of Sodium Silicate synthesized from Agricultural Wastes in the production of Hydrophobic Silica Sols | SADİ ATIL | TÜRKYILMAZ |  | **X** |
| **15** | Prof. Dr. SAADET YAPAR | Antibacterial Formulations Used in Dental Applications | KEMAL | DERİCİ | **X** |  |
| CAN ARDA | KURAL |  |
| EMRE BERKE | MARÇALI |  |
| **16** | Prof. Dr. GÜNSELİ ÖZDEMİR | Effect of Surfactants on Different Types of Bacteria | SÜMEYRA | İŞLER | **X** |  |
| **17** | Prof. Dr. GÜNSELİ ÖZDEMİR | Effect of Surfactants on Different Types of Bacteria | ARYFJAN | HUDAYBERDYYEV | **X** |  |
| **18** | Prof. Dr. YAVUZ ÖZÇELİK | The Calculation of Physical Properties of Pure Hydrocarbons and Hydrocarbon Mixtures Using the MATLAB Tools | BERKE | DEMİR | **X** |  |
| BARAN CAN | ERER |  |
| **19** | Doç. Dr. FATMA ZEHRA ÖZÇELİK | Digital Twinning of a Cement Manufacturing Process | SEVİM | SAĞTEKİN | **X** |  |
| EZGİ | YALÇIN |  |
| **20** | Doç. Dr. FATMA ZEHRA ÖZÇELİK | Thermo-economic Analysis of District Heating System | YAĞMUR | OLGUN | **X** |  |
| **21** | Doç. Dr. İDİL YILMAZ İPEK | Preparation, modification and characterization of biosorbents from mussel shell waste for sustainable boron removal from geothermal water | IŞIL | ALTINDAŞ |  | **X** |
| **22** | Doç. Dr. İDİL YILMAZ İPEK | Slow pyrolysis and modification of olive purning wastes as  biosorbents for boron removal from aqueous solutions | ZEYNEP | TÜRKER |  | **X** |
| **23** | Doç. Dr. İDİL YILMAZ İPEK | Sustainable boron remediation from aqueous solutions using olive pruning wastes as a potential biosorbent: equilibrium and kinetic tests | ÖZGE | ÖZDEN |  | **X** |

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| **24** | Doç. Dr. İDİL YILMAZ İPEK | Application of mussel shell waste as a sustainable source for boron removal from geothermal water | ALEYNA | BAŞAR |  | **X** |
| **25** | Doç. Dr. İDİL YILMAZ İPEK | Predicting and modelling of the dynamics and performance of recycled mussel shell wastes in a fixed bed system for boron removal from geothermal water | OĞUZHAN | BUDAK |  | **X** |
| **26** | Doç. Dr. İDİL YILMAZ İPEK | Conversion and characterization of wallnut shell waste into a novel biosorbent for boron removal from aqueous solutions | BİLGE | ACAR |  | **X** |
| **27** | Doç. Dr. İDİL YILMAZ İPEK | Investigation on the potential usage of walnut shell waste as a biosorbent for boron removal from aqueous solutions | BARIŞ | GEZGİN |  | **X** |
| **28** | Doç. Dr. İDİL YILMAZ İPEK | Morphological and structural properties of biosorbents derived from corn stalks for boron removal from aqueous solutions: slow pyrolysis temperature effetcs | SERCAN | KORKUT |  | **X** |
| **29** | Doç. Dr. İDİL YILMAZ İPEK | Sustainable way of boron removal from aqueous solutions by corn stalks based biosorbents | ÇAĞATAY | BAŞEYMEZ |  | **X** |
| **30** | Doç. Dr. GÜLİN ERSÖZ | Literature Survey on Synthesis and Use of Supramolecular Catalysts in Advanced Oxidation Processes | NAZLIM | AKTAY | **X** |  |
| ÖZGÜ | KAYA |  |
| **31** | Doç. Dr. GÜLİN ERSÖZ | Investigation of the Adsorption and Catalytic Properties of the Layered Double Hydroxides in Environmentally Friendly Treatment Process | HÜLYA | YILDIZ | **X** |  |
| **32** | Doç. Dr. GÜLİN ERSÖZ | Comparison of Advanced Oxidation Processes form Environmental and Economic Point of View Based on Life Cycle Analysis Approaches | BERİL PINAR | ÖZLER | **X** |  |
| **33** | Doç. Dr. SEVİM YOLCULAR KARAOĞLU | Hydrogen Generation with Graphene Catalysts | GÜL ZEYNEP | KIZMAZ | **X** |  |
| **34** | Doç. Dr. SEVİM YOLCULAR KARAOĞLU | Renewable and Sustainable Hydrogen Production Processes | ZEYNEP DOĞA | CEYLAN | **X** |  |

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| **35** | Doç. Dr. SEVİM YOLCULAR KARAOĞLU | Hydrogen Production from Renewables | SEDA | ARSLAN | **X** |  |
| **36** | Doç. Dr. SEVİM YOLCULAR KARAOĞLU | Sustainable Hydrogen Generation Methods | BUSE | ŞAHİN | **X** |  |
| **37** | Doç. Dr. SEVİM YOLCULAR KARAOĞLU | Hydrogen Generation from Hydrolysis of Borohydride with Hydrogels | İLAYDA İLKAY | GÜNDAY | **X** |  |
| **38** | Doç. Dr. SEVİM YOLCULAR KARAOĞLU | Hydrogen Production with Aerogel Catalysts | GÜLHAN | ÖLÇAY | **X** |  |
| **39** | Doç. Dr. EMİNE SERT | Synthesis of glycerol carbonate catalyzed by hydrochars obtained from spent coffee beans | DİLAN | AKARSU | **X** |  |
| **40** | Doç. Dr. EMİNE SERT | Chemical reduction of nitrophenol catalyzed by copper loaded metal organic frameworks | ASUDE | KINDAN | **X** |  |
| **41** | Doç. Dr. EMİNE SERT | Chemical reduction of nitroaniline catalyzed by silver loaded metal organic frameworks | İREM | DİLMEN | **X** |  |
| **42** | Doç. Dr. MERAL DÜKKANCI | Characterization and Photocatalytic Mechanism of MOF based Photocatalysts | GİZEM | ÇAKICI | **X** |  |
| BETÜL | ÖZÇELİK | **X** |  |
| **43** | Doç. Dr. CANAN URAZ | An exemplary chemical process application in Tüpraş with HAZOP Method | ITRİ YAĞIZ | ADADAĞ | **X** |  |
| İLKER HAMDİ | DUMAN |  |
| **44** | Doç. Dr. CANAN URAZ | Alternative process instead of palladium for surface activation in electroless Nickel and Copper Plating processes on ABS plastic | DİDEM | BEYTAŞ |  | **X** |
| Alternative process instead of palladium for surface activation in electroless Nickel and Copper Plating processes on ABS plastic | ŞEVVAL | BİLKETAY |  |

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| **45** | Doç. Dr. CANAN URAZ | Risk analysis with Fine Kinney method in ozone disinfection processes | ELİF | KARACA | **X** |  |
| NEŞE | ÇIKRIKÇI |  |
| **46** | Doç. Dr. CANAN URAZ | Chromium-free pretreatment process for electroless Nickel and Copper Plating on ABS plastic | DENİZ | GÜMÜŞ | **X** |  |
| İREM | YILDIZ |  |
| ELİF | BAKUMDİ |  |
| **47** | Doç. Dr. CANAN URAZ | Risk analysis of chemicals containing chlorine with the HAZOP method | GAYE | GENÇ | **X** |  |
| **48** | Dr. Öğretim Üyesi NİLAY GİZLİ | Morphological Modelıng of Wrinkle Coatings (TUBİTAK 2209/B) | AYSEL EKİN | EYÜBOĞLU |  | **X** |
| ALPER | AKGÜN |  |
| **49** | Dr. Öğretim Üyesi NİLAY GİZLİ | CO2 Capture by Silica Aerogels | SELİN | ALŞAN | **X** |  |
| HASAN CAN | YANIK |  |
| BURAK | EKELİK |  |
| **50** | Dr. Öğretim Üyesi NİLAY GİZLİ | Aerogels, Cryogels, Xerogels Applications in Environmental Remediation | ECEM | KENAR | **X** |  |
| ELİF | TEKİN |  |
| **51** | Dr. Öğretim Üyesi NİLAY GİZLİ | Sol-gel conversion coatings for protective applications | KAZIMCAN | ÇALIŞKAN | **X** |  |
| BERKAY | YÜKSEL |  |
| DURSUN | AYDIN |  |

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| **52** | Dr. Öğretim Üyesi NİLAY GİZLİ | Controlled/Living Redical Polymerization | CEREN | KURT | **X** |  |
| **53** | Dr. Öğretim Üyesi NİHAL CENGİZ | Separation and recovery of levulinic acid by various extractive solvents and improvement of the extraction efficiency | ÖZLEM | ÜNVER | **X** |  |
| Dr. Öğretim Üyesi NİHAL CENGİZ | DUYGU SEZEN | TÜLÜMEN |  |
| **54** | Dr. Öğretim Üyesi NİHAL CENGİZ | Hydrothermal co-liquefaction of lignocellulosic biomass with polyalcohols in the presence of catalyst | TANER | ÇORBACI | **X** |  |
| **55** | Dr. Öğretim Üyesi NİHAL CENGİZ | Design of the levulinic acid purification process from biomass and investigation of the various parameters | Müge | ÇELİKYILMAZ | **X** |  |
| Dr. Öğretim Üyesi NİHAL CENGİZ | Ayşe | YÖRÜK |  |