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A DISSERTATION SUBMITTED TO

THE GRADUATE SCHOOL OF

ENGINEERING AND NATURAL SCIENCES

OF ISTANBUL MEDIPOL UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR

THE DEGREE OF

DOCTOR OF PHILOSOPHY

IN

ELECTRICAL, ELECTRONICS ENGINEERING AND CYBER SYSTEMS

By

Name Last name

Month, Year of defense

TITLE OF THE THESIS

By Name Surname

12 December 2020

We certify that we have read this dissertation and that in our opinion it is fully adequate, in scope and in quality, as a dissertation for the degree of Doctor of Philosophy.

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I hereby declare that all information in this document has been obtained and presented in accordance with the academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

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ACKNOWLEDGEMENT

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Name Surname

November, 2020

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LIST OF SYMBOLS

**w** :Angular Momentum

**Ω** :Resistance

**λ** :Wavelength

ABBREVIATIONS

**CAS** :Chemical Abstracts Service

**EtOH** :Ethanol

TÜRKÇE BAŞLIK

ÖZET

İsim Soyisim

Elektrik-Elektronik Mühendisliği, Doktora

Tez Danışmanı: Prof. Dr. X

Eş Danışman: Prof. Dr. Y (Varsa)

Aralık, 2020

Türkçe özet 3 sayfayı geçmeyecek, en az 300 sözcük olacak şekilde sunulmalıdır. Türkçe özet 3 sayfayı geçmeyecek şekilde sunulmalıdır. Türkçe özet 3 sayfayı geçmeyecek şekilde sunulmalıdır.

Anahtar sözcükler: Anahtar Sözlerim.

TITLE OF THE THESIS

ABSTRACT

Name Lastname

Ph.D. in Electrical, Electronics Engineering and Cyber Systems

Advisor: Prof. Dr. X

Co-Advisor: Prof. Dr. Y (If exists)

December, 2020

A good abstract should contain balanced material from each and every chapter of the thesis. Use the following as a checklist for your abstract:

Motivation:

Why do we care about the problem and the results? Avoid unnecessary words like “In this thesis”.

Problem statement:

What problem are you trying to solve? What is the scope of your work (a generalized approach, or for a speciﬁc situation)? In some cases it is appropriate to put the problem statement before the motivation, but usually this only works if most readers already understand why the problem is important.

Approach:

How did you go about solving or making progress on the problem? Did you use simulation, analytic models, prototype construction, or analysis of ﬁeld data for an actual product? What was the extent of your work? Put the result there, in numbers. Avoid words such as ”very”, ”small”, or ”signiﬁcant.”

Conclusions:

What are the implications of your answer? Are your results general, potentially generalizable, or speciﬁc to a particular case?

Keywords: Key one, key two.

CHAPTER 1

# INTRODUCTION

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CHAPTER 2

# THEORETICAL PART

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CHAPTER 3

# EXPERIMENTAL PART

## Title Title 2

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CHAPTER 4

# RESULTS AND DISCUSSION

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CHAPTER 5

# ADDITIONAL CHAPTER (NOT COMPULSORY)

CHAPTER 6

# CONCLUSIONS AND FUTURE WORK

BIBLIOGRAPHY

[1] E. Demirel, E. Karaca, and Y. Yuksel Durmaz, “Effective PEGylation method to improve biocompatibility of graphene derivatives,” *Eur. Polym. J*., vol. 124, no. January, p. 109504, Feb. 2020, doi: 10.1016/j.eurpolymj.2020.109504.

[2] M. Brittberg and A. Lindahl, “Tissue engineering of cartilage,” in *Tissue Engineering*, vol. 4, no. 1, Elsevier, 2008, pp. 533–557.

[3] M. Zhang, R. R. Naik, L. Dai, M. Zhang, R. R. Naik, and L. Dai, *Carbon Nanomaterials for Biomedical Applications*, vol. 5. Springer, 2016.

[4] T. Worlikar *et al.*, “Non-invasive liver cancer ablation using histotripsy in an in vivo murine hepatocellular carcinoma (HCC) model,” in *2017 IEEE International Ultrasonics Symposium (IUS)*, Sep. 2017, pp. 1–1, doi: 10.1109/ULTSYM.2017.8092951.

[5] S. Park et al., “Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets,” *Chem. Mater.,* vol. 20, no. 21, pp. 6592–6594, 2008, doi: 10.1021/cm801932u.

[6] J. M. Hamamreh, “Advanced Cross-Layer Secure Communication Designs for Future Wireless Systems,” Ph.D. dissertation, Dept. Elect., Electron. Eng. And Cyber Syst., Istanbul Medipol University, Istanbul, Turkey, 2018.

APPENDIX A

Appendix A1

CURRICULUM VITAE

Photo

Name Surname :

Place and Date of Birth :

E-Mail :

**EDUCATION:**

B.Sc. : Graduation year, University, Faculty, Department

M.Sc. (If exists) : Graduation year, University, Faculty, Department

**PROFESSIONAL EXPERIENCE AND REWARDS:**

• 2015, Best Oral Presentation at Important Conference, Istanbul

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**PUBLICATIONS, PRESENTATIONS, AND PATENTS ON THE THESIS:**

• M. Brittberg and A. Lindahl, “Tissue engineering of cartilage,” in *Tissue Engineering*, vol. 4, no. 1, Elsevier, 2008, pp. 533–557.

• D. Caratelli, M. C. Viganó, G. Toso, and P. Angeletti, “Analytical placement technique for sparse arrays,” presented at the 32nd ESA Antenna Workshop, Noordwijk, The Netherlands, Oct. 5–8, 2010.

**OTHER PUBLICATIONS, PRESENTATIONS, AND PATENTS:**