



Mehmet Keçeci

Degree:

Ph.D. Student in Physics (2018-2024, Completed the dissertation phase of the Ph.D. in Physics)

Master Science in Physics, MSc. (2001)

Physics, University of Kocaeli, BSc. (1998)

Physics & Science & Information Technologies Teacher (1999-2008)

Occupational Safety Specialist (2016)

Biophysics; Information Technologies & Health Information Systems & Bioinformatics Lecturer (2010 - 2014)

Certified Microsoft Innovative Educator, 2016-12.2024

MIE Master Trainer (2016-12.2024)

MIE Expert (2017 - 12.2024)

Editorial Board Member (15.10.2019 - 2023)

Author (2015 - ***), Blog Writer, 1999

Reviewer (2012 - ***, ~100 Articles, ~30 Journals)

Scientific Writer (29.08.1995 - ***)

(MIE, CK-12, Minecraft, Flipgrid, Nearpod, Adobe, Soundtrap, WeVideo, Newsela, Mote)

Certified Educator.

Elsevier Group Member

Marital Status: Single

Nationality: Türkiye Republic Government

Born: 1972

Birthplace: Türkiye

City: Istanbul

E-Mail: mkececi@yaani.com, mkececi@mehmetkececi.com

Orcid: <https://orcid.org/0000-0001-9937-9839>

Education

2018-2024 Gebze Technical University (GTU), Doctor of Philosophy (**Ph.D.**) in Physics, Graduate School, Türkiye (Thesis term, %30 English, 3.14/4)

Dissertation (Thesis) Subject: Investigation of Quantum Information Processing Technology Used in Topological Nanostructures Weyl and Majorana Fermions

1998-2001 Gebze Technical University (GTU), Master of Science (MSc.) in Physics, Faculty of Science, Türkiye

Thesis Subject: Conformal Spinor Field Theories

1993-1998 University of Kocaeli, Bachelor of Science in Physics (BSc.), Faculty of Arts and Sciences, Türkiye

Program Duration: 1 year of English preparation +4 years of education (30% of instruction in English)

1990-1993 University of İnönü Vocational School, Industrial Electronics, Türkiye

Career Level/Business Experience:

2023 - *** Voluntarily: **Editorial Board Member**, Open Science Articles (OSAs)

10.15.2019 - 2023 Voluntarily: **Editorial Board Member**, Nanotechnology and Nanomedicine Archives, USA

2015 - *** **Author** (Book)

2012 - *** Voluntarily: **Reviewer** (Academical)

1995 - *** **Freelancer Scientific Writer**

2015 - 2016 Course & Internship & Certificate of Occupational Safety Specialist

2013 - 13.06.2014 Lecturer: Bioinformatics, Information Technologies I-II, Istanbul Medipol University

Faculties (Nursing, Health Management, Law, Nutrition and Dietetics, Physical Therapy and Rehabilitation, Pharmacy)

Lecturer: Health Information Systems, Health Information System and Applications I-II, Istanbul Medipol University

Faculties (Medical Documentation and Secretarial Program)

Lecturer: Fundamental Information Technologies and Instrumentations, Istanbul Medipol University

Faculties (Medical Documentation and Secretarial Program, Justice Higher Vocational School)

Lecturer: Information and Communication Technologies, Istanbul Medipol University

Faculties (Operating Theatre Services, Dental Prosthesis Technology, Dialysis, Pharmacy Services, Audiometry, Optician, Medical Documentation and Secretarial, Medical Imaging Techniques, Medical Laboratory Techniques, Radiotherapy)

2012 - 2013 Lecturer: Information Technologies, Istanbul Medipol University

Law, Physical Therapy and Rehabilitation, Nursing, Pharmacy, Nutrition and Dietetics

2011 - 2012 Lecturer: Information Technologies, Istanbul Medipol University

Physical Therapy and Rehabilitation, Nursing, Health Management, Pharmacy

2010 - 2011 Lecturer: Information Technologies, Istanbul Medipol University

Faculties (Nursing, Health Management, Physiotherapy and Rehabilitation, Pharmacy)

2008 - 2011 General Manager (CEO) of Hiperteknoloji Inf. Edu. Const. Ind. and Foreign Trade Ltd. Co.

1999 - 2008 Private High School (Physics & Science & Information Technology) Teacher,
Programmer (C++)

International Scientific Paper, Journal Article & others (full list)

1. Keçeci, M. (2025). Keçeci Numbers and the Keçeci Prime Number. Authorea. June, 2025. <https://doi.org/10.22541/au.174890181.14730464/v1>
2. Keçeci, M. (2025). Çoklu İşlemci Mimarilerinde Kuantum Algoritma Simülasyonlarının Hızlandırılması: Cython, Numba ve Jax ile Optimizasyon Teknikleri. <https://doi.org/10.5281/zenodo.15580503>
3. Keçeci, M. (2025). Kuantum Hata Düzeltmede Metrik Seçimi ve Algoritmik Optimizasyonun Büyük Ölçekli Yüzey Kodları Üzerindeki Etkileri. <https://doi.org/10.5281/zenodo.15572201>
4. Keçeci, M. (2025). Kuantum Hata Düzeltme Algoritmalarında Özyineleme Optimizasyonu ve Aşırı Gürültü Toleransı: Kuantum Sıçraması Potansiyelinin Değerlendirilmesi. <https://doi.org/10.5281/zenodo.15570678>
5. Keçeci, M. (2025). Yüksek Kübit Sayılı Kuantum Hesaplama Ölçeklenebilirlik ve Hata Yönetimi: Yüzey Kodları, Topolojik Malzemeler ve Hibrit Algoritmik Yaklaşımlar. <https://doi.org/10.5281/zenodo.15558153>
6. Keçeci, M. (2025). Künneth Teoremi Bağlamında Özdevinimli ve Evrişimli Kuantum Algoritmalarında Yapay Zekâ Entegrasyonu ile Hata Minimizasyonu. <https://doi.org/10.5281/zenodo.15540875>
7. Keçeci, M. (2025). The Relationship Between Gravitational Wave Observations and Quantum Computing Technologies. <https://doi.org/10.5281/zenodo.15524251>
8. Keçeci, M. (2025). Kütleçekimsel Dalga Gözlemleri ile Kuantum Bilgisayar Teknolojileri Arasındaki Teknolojik ve Metodolojik Bağlantılar. <https://doi.org/10.5281/zenodo.15519591>
9. Keçeci, M. (2025). Accuracy, Noise, and Scalability in Quantum Computation: Strategies for the NISQ Era and Beyond. <https://doi.org/10.5281/zenodo.15515113>
10. Keçeci, M. (2025). Quantum Error Correction Codes and Their Impact on Scalable Quantum Computation: Current Approaches and Future Perspectives. <https://doi.org/10.5281/zenodo.15499657>
11. Keçeci, M. (2025). Nanoscale Quantum Computers Fundamentals, Technologies, and Future Perspectives. <https://doi.org/10.5281/zenodo.15493024>
12. Keçeci, M. (2025). Investigating Layered Structures Containing Weyl and Majorana Fermions via the Stratum Model. <https://doi.org/10.5281/zenodo.15489074>
13. Keçeci, M. (2025). Diversity of Keçeci Numbers and Their Application to Prešić-Type Fixed-Point Iterations: A Numerical Exploration. <https://doi.org/10.5281/zenodo.15481711>
14. Keçeci, M. (2025). Kuantum geometri, topolojik fazlar ve yeni matematiksel yapılar: Disiplinlerarası bir perspektif. Zenodo. <https://doi.org/10.5281/zenodo.15474957>
15. Keçeci, M. (2025). Understanding quantum mechanics through Hilbert spaces: Applications in quantum computing. Zenodo. <https://doi.org/10.5281/zenodo.15468754>
16. Keçeci, M. (2025). Nodal-line semimetals: A geometric advantage in quantum information. Zenodo. <https://doi.org/10.5281/zenodo.15455271>
17. Keçeci, M. (2025). Weyl semimetals: Discovery of exotic electronic states and topological phases. Zenodo. <https://doi.org/10.5281/zenodo.15447116>

18. Keçeci, M. (2025, May 15). The Keçeci binomial square: A reinterpretation of the standard binomial expansion and its potential applications. Zenodo. <https://doi.org/10.5281/zenodo.15425529>
19. Keçeci, M. (2025, May 14). Kececisquares. Zenodo. <https://doi.org/10.5281/zenodo.15411670>
20. Keçeci, M. (2025, May 13). Scalable complexity: Mathematical analysis and potential for physical applications of the Keçeci circle fractal. Zenodo. <https://doi.org/10.5281/zenodo.15392772>
21. Keçeci, M. (2025, May 13). Kececifractals. Zenodo. <https://doi.org/10.5281/zenodo.15392518>
22. Keçeci, M. (2025, May 11). Keçeci numbers and the Keçeci prime number: A potential number theoretic exploratory tool. Zenodo. <https://doi.org/10.5281/zenodo.15381697>
23. Keçeci, M. (2025, May 10). Kececinumbers. Zenodo. <https://doi.org/10.5281/zenodo.15377659>
24. Keçeci, M. (2025). From Majorana fermions to quantum devices: The role of nanomaterials in the second quantum era. Zenodo. <https://doi.org/10.5281/zenodo.15331067>
25. Keçeci, M. (2025, May 1). Keçeci Layout. Zenodo. <https://doi.org/10.5281/zenodo.15314328>
26. Keçeci, M. (2025, May 1). Kececilayout. Zenodo. <https://doi.org/10.5281/zenodo.15313946>
27. Keçeci, M. (2025, May 6). Grikod2. Zenodo. <https://doi.org/10.5281/zenodo.15352206>
28. Keçeci, M. (2025, May 6). Grikod. Zenodo. <https://doi.org/10.5281/zenodo.12731345>
29. Garrett, J., Luis, E., Peng, H.-H., Cera, T., Gobinathj, Borrow, J., Keçeci, M., Splines, Iyer, S., Liu, Y., cjw, & Gasanov, M. (2022–2023). garrettj403/SciencePlots (Versions 2.1.1, 2.1.0, 2.0.1) [Computer software]. Zenodo. <https://doi.org/10.5281/zenodo.10206719> (v2.1.1); <https://doi.org/10.5281/zenodo.7986336> (v2.1.0); <https://doi.org/10.5281/zenodo.7394724> (v2.0.1)
30. Keçeci, M. (2021). The Next Stop: Future Planet Walks. In SEDS Space Arts 2021, Global Art Competition, Sri Lanka. <https://doi.org/10.13140/RG.2.2.21394.12482>
31. Keçeci, M. (2020, October 25). Discourse on the second quantum revolution and nanotechnology applications in the midst of the COVID-19 pandemic of inequality. International Journal of Latest Research in Science and Technology, 9(5), 1–7. eISSN: 2278-5299. <https://doi.org/10.5281/zenodo.7483395>; <https://doi.org/jtnm>; https://www.mnkjournals.com/journal/ijlrst/Article.php?paper_id=11004
32. Keçeci, M. (2019). Quantum and Art. Presented at International Workshop on Quantum Frontiers of Technology, TÜBİTAK, TÜSSİDE, Gebze, Türkiye. <https://doi.org/10.13140/RG.2.2.27533.90089>
33. Keçeci, M. (2019, December 6). 2 Boyutlu Tek Katmanlı Yapıların Su Arıtımında Kullanımının Stratejik Önemi (Strategic Importance of Use of 2 Dimensional Monolayer Structures in Water Purification). 23. Sıvı Hâl Sempozyumu (23rd Liquid State Symposium), Piri Reis University, Türkiye. <https://doi.org/10.5281/zenodo.15567811>; <https://www.researchgate.net/publication/337812505>
34. Keçeci, M. (2017, July 19–21). Açık Dijital Rozetlerin Eğitim ve Kariyer Planlamasında Kullanımı (Use of open digital badges in education and career planning). ADIM Fizik Günleri VI, Balıkesir Üniversitesi (ADIM Physics Days VI, Balıkesir University), Türkiye. <https://doi.org/10.5281/zenodo.15567962>; <https://adimfizikvi.balikesir.edu.tr>; <https://www.researchgate.net/publication/318658786>
35. Keçeci, M. (2011). 2n-dimensional at Fujii model instanton-like solutions and coupling constant's role between instantons with higher derivatives. Turkish Journal of Physics, 35(2), 173–178. ISSN: 1300-0101, eISSN: 1303-6122. <https://doi.org/10.3906/fiz-1012-66>
36. Keçeci, M. (2005, September 13–16). 2n-boyutlu Fujii modelinde instanton çözümleri ve bağlantı sabitinin instantonlar arasındaki rolü. Presented at World Year of Physics 2005 Turkish Physical Society 23rd International Physics Congress, Muğla University, Türkiye. <https://dx.doi.org/10.13140/RG.2.1.1441.4887>

37. Keçeci, M. (2005, May). Konformal invariant Fujii modelinin instanton tipi tam çözümü. Presented at Geleneksel Erzurum Fizik Günleri-II, Atatürk University, Türkiye.
<https://dx.doi.org/10.13140/RG.2.1.3538.6408>
38. Keçeci, M. (2002, September 16–20). Exact instanton-like solution conformal invariant of Fujii model, construct for four-dimensional and subderivative. Presented at Working Group II, Turkish Nonlinear Science Working Group, Karaburun/Izmir, Türkiye.
<https://dx.doi.org/10.13140/RG.2.1.1638.0964>
39. Keçeci, M. (2001). Konformal Spinör Alan Teorileri (Yüksek Lisans Tezi). Gebze Teknik Üniversitesi, Fen Bilimleri Fakültesi, Fizik.

International Scientific Symposium, Announcements & Conference Proceedings

- Keçeci, M., Quantum and Art**, International Workshop on Quantum Frontiers of Technology, November 8 – 11 2019, TÜBİTAK, TÜSSİDE, TBAE, Gebze, Türkiye.
<http://dx.doi.org/10.13140/RG.2.2.27533.90089>
- Keçeci, M.** (2005, September 13–16). 2n-boyutlu Fujii modelinde instanton çözümleri ve bağlantı sabitinin instantonlar arasındaki rolü. Presented at World Year of Physics 2005 Turkish Physical Society 23rd International Physics Congress, Muğla University, Türkiye.
<https://dx.doi.org/10.13140/RG.2.1.1441.4887>

National Scientific Symposium, Announcements & Conference Proceedings

- Keçeci, M.** (2019, December 6). 2 Boyutlu Tek Katmanlı Yapıların Su Arıtımında Kullanımının Stratejik Önemi (Strategic Importance of Use of 2 Dimensional Monolayer Structures in Water Purification). 23. Sıvı Hâl Sempozyumu (23rd Liquid State Symposium), Pîrî Reis University, Türkiye. <https://doi.org/10.5281/zenodo.15567811>;
<https://www.researchgate.net/publication/337812505>
- Keçeci, M.** (2017, July 19–21). Açık Dijital Rozetlerin Eğitim ve Kariyer Planlamasında Kullanımı (Use of open digital badges in education and career planning). ADİM Fizik Günleri VI, Balıkesir Üniversitesi (ADİM Physics Days VI, Balıkesir University), Türkiye.
<https://doi.org/10.5281/zenodo.15567962>; <https://adimfizikvi.balikesir.edu.tr>;
<https://www.researchgate.net/publication/318658786>
- Keçeci, M.** (2002, September 16–20). Exact instanton-like solution conformal invariant of Fujii model, construct for four-dimensional and subderivative. Presented at Working Group II, Turkish Nonlinear Science Working Group, Karaburun/Izmir, Türkiye.
<https://dx.doi.org/10.13140/RG.2.1.1638.0964>

Affiliation Scientific Journals, Duty at International Scientific Publications

Reviewer (~30 International Scientific Journal, 2011 - ***, >100 English, Turkish articles)

International Scientific Programs: Member of Technical Program Committee (TPC)

The 2016 International Conference on Biological Information and Biomedical Engineering.

September 24-26, 2016, Qingdao, China

<http://www.icbibe.org/2016/Committee.aspx>

26th IEEE Signal Processing and Communications Applications Conference (SIU),

Conference Proceedings Committee Member (3 Articles): 2-5 May 2018, Çesme/Izmir, Türkiye

2nd International Conference and Exhibition on Nanotechnology, Nano San Diego 2018, Organizing Committee, November 19-21, 2018, USA

Nanotechnology and Nanomedicine Archives, Editorial Board, USA, 10.15.2019-2023

Internships, Courses, Certificates

1. Learning AI Through Visualization, Columbia+, 150372189, June 16, 2025, <https://badges.plus.columbia.edu/4e747f60-0ebc-423c-a7ac-ff8ab8da3f0d>
2. Quantum Computing & Programming, Diploma Number: QNickel20-50, CRS4, QWorld, QItaly, DLAB, April 2025
3. Quantitative Techniques, Columbia+, 139237802, April 6, 2025, <https://badges.plus.columbia.edu/18f4fbec-2b56-41b0-8460-f4a61a58d5ed>
4. Quantum Computing & Programming, Diploma Number: QBronze153-27, QWorld, Qiskit, CRS4, DLAB, February 2025, QItaly153
5. Destek AFAD Gönüllüsü Eğitimi, 25 saat, 10-14.02.2025, Katılım Belgesi, Belge No: 32184, Ümraniye AFAD, İstanbul, T.C. İstanbul Valiliği İl Afet ve Acil Durum Müdürlüğü, 14.02.2025
6. İşyerlerinde Yangın Risklerinin Yönetimi Eğitimi, 24 saat, Başarı Belgesi, İstanbul Sanayi Odası (Istanbul Chamber of Industry), İSO Akademi, Belgeyi Onaylayan: Murat Çalışır, Belge No: ISG-00224-379, 15.10.2024 – 14.01.2025
7. Elements of Quantum Computing and Programming, QCourse501-2-88, QWorld, September 2024- December 2024
8. Gradle Build Caching with Develocity, Gradle Inc.Gradle Inc., Diploma Number: d1a09899-d943-4235-b5a7-1fed0d3a2e11, 2024
9. Gönüllü Oryantasyon Semineri, Türk Kızılay Akademi, Diploma Number: sJacJt6FFB
10. Kızılay Uyum Eğitimi, Türk Kızılay Akademi, 31 Aralık 2024, Belge No: zs1Sl3NaVS
11. NASA-National Aeronautics and Space Administration, NASA Open Science
12. Basics of Quantum Information, IBM, 01.11.2024, Diploma Number: 6155bf93-65f9-4b1f-9640-5ca7380b4a87
13. Mendeley Advisor, 2024
14. Practical Introduction to Quantum-Safe Cryptography, IBM, 2024, Diploma Number: 57832e33-eb4b-4542-94a6-00f5650a9a92
15. Ingenii QML for Medical Imaging Course, 25.11.2024
16. Ingenii Quantum Machine Learning Fundamentals Course, 08.10.2024
17. Quantum with String Diagrams, Diploma Number: Quantum with String Diagrams1-16, Quantum Barsaat 2024, QWorld & QPakistan, August 2024
18. QCobalt, Quantum Annealing, Quantum Barsaat 2024, QWorld & QPakistan, Diploma Number: QCobalt6-18, July 2024
19. QBronze Using Qiskit, Quantum Computing & Programming, Quantum Barsaat 2024, QWorld & QPakistan & Qiskit, Diploma Number: QBronze137-25, July 2024
20. QPrep: Preparation for Quantum Computing & Programming, Quantum Barsaat 2024, QWorld & QPakistan, Diploma Number: QPrep14-32, July 2024
21. Quantum Annealing, QClass23/24, Diploma Number: QCobalt4-21, University of Latvia Faculty of Computing, QWorld, May 2024
22. Topological Quantum Computing, QClass23/24, Diploma Number: QTitanium1-28, University of Latvia Faculty of Computing, CQTech, QWorld, May 2024

23. Quantum Error Correction (QEC), QClass23/24, Diploma Number: QZinc2-27, University of Latvia Faculty of Computing, QWorld, May 2024
24. QHack 2024 Coding Challenge Completionist, ID: 45fd53e4-dc95-4849-add2-5ad26fb7b764, Xanadu, 2024.03.05
25. Elements of Quantum Computing and Programming. QCourse501-1 Certificate, QCourse501-1-107, QClass23/24, QWorld, Sept. 23-Jan. 2024
26. 11. Womanium Global Quantum Sensing Training Program, Womanium Global Quantum Program 2023, ID: 35199426, 08.11.2023
27. Quantum Computing Hardware Certificate, Global Quantum Program 2023, Womanium
28. Quantum Computing & Programming, Womanium Global Quantum Program 2023, QNickel Diploma, Womanium, QWorld, QNickel7-52
29. Introduction to Programming with Neutral Atoms Certificate, QuEra Computing Inc. & Womanium, July'23
30. Quantum Key Distribution (QKD), QMercury Diploma, Womanium Global Quantum Program 2023, Womanium, QWorld, 2023
31. Quantum Computing & Programming, Womanium Global Quantum Program 2023, QNickel Diploma, Womanium, QWorld
32. Quantum Error Correction (QEC), QZinc, Womanium Global Quantum Program, QWorld, 2023
33. Quantum Computing Software Certificate, Womanium Quantum Global Quantum Program, 2023
34. QHack 2023 Certificate (Advanced), Xanadu
<https://mcusercontent.com/725f07a1d1a4337416c3129fd/images/df50a12c-8605-99c3-4a6f-a6223364cd3c.png>
35. Quantum Computing Hardware Certificate, Global Quantum Computing & Entrepreneurship Program, Certificate Number: 35199426, Womanium, 2022,
<https://www.womanium.org/Quantum>
36. Quantum Computing & Programming, Womanium Global Quantum Computing & Entrepreneurship Program, Aug 2022, Diploma Number: QSilver14-50, QWorld
37. Monkeypox: Introductory course for African outbreak contexts, OpenWHO, WHO, 05.25.2022
38. Monkeypox: Epidemiology, preparedness and response for African outbreak contexts, OpenWHO, WHO, 05.25.2022
39. İşyerlerinde Acil Durum Yönetimi, ISG-2021-280952, İstanbul Sanayi Odası (Istanbul Chamber of Industry), İSO, İSOAkademi, 11.2021-12.2021
40. Quantum Computing & Programming, Diploma Number: QBronze72-27, QWorld, Qiskit, December 2021, QTurkey
41. Quantum Computing & Programming, Diploma Number: QBronze65-19, QWorld, Qiskit, September 2021, QLibya
42. Quantum Computing & Programming, QBronze (QBronze65-19, QLibya, 2021 & QBronze72-27, QTürkiye, 2021 & QBronze137-25, QPakistan, 2024 & QBronze153-27, QItaly, 2025), QSilver (QSilver4-8, QTürkiye & QSilver7, QPakistan & QSilver12, QLibya, QSilver14-50 (<Womanium Quantum>)), QWorld, 2021-22; Quantum Computing Hardware Certificate, Womanium Quantum 2022: Global Quantum Computing & Entrepreneurship Program
43. IEEE Quantum AI Sustainability Symposium, IEEE Quantum, September 01, 2021
44. Inclusion & Diversity in scientific publishing: why it's a requirement, not a choice, 26.08.2021, Elsevier
45. Introduction to Quantum Computing, 08.25.2021, by Yassin Marco, Udeemy

46. Microsoft Esports Leader, Microsoft Education, 24.08.2021
47. Quantum Engineering: Photonics in Quantum Computing and Quantum Networking, IEEE
48. Quantum, July 28, 2021
49. Mote Certified Educator, 27.07.2021
50. Create an E-book Cover Using Canva, 26.07.2021, Coursera, ID: FKT59GZXJQPS, <https://www.coursera.org/account/accomplishments/certificate/FKT59GZXJQPS>
51. Disaster Awareness Training (Afet Farkındalık Eğitimi), Kocaeli AFAD, 06.07.2021
52. Understanding Disaster Risks, 26.07.2021, Republic of Türkiye Ministry of Interior Disaster and Emergency Management (AFAD)
53. Certified, Kızılay (Red Crescent), 2021
54. Basic Training for ISO 45001:2018 Occupational Health & Safety Management Systems, Sigmacert, 09.05.202
55. Theme 1: Uniting Funders, Doers, and Custodians of Research to Strategically and Comprehensively Advance Quality Gender Research for SDGs, Elsevier, 2021
56. Sustainable Development Goals for Researchers, Elsevier, 2021
57. Social impact, Elsevier, 2021
58. Going through peer review, Elsevier, 2021
59. Becoming a peer reviewer, Elsevier, 2021
60. Certified Peer Reviewer Course, Elsevier, 2021
61. Fundamentals of peer review, Elsevier, 2021
62. Newsela Certified Educator Program, Newsela Learning, 18.01.2021
<https://verify.skilljar.com/c/p552dp5oqc5y>
63. WeVideo Expert Creator, 2021
64. Wakelet Community Leader, 2020
65. 0.504x: Sorting Truth from Fiction: Civic Online Reasoning, 16.11.2020, edX & MITx
<https://courses.edx.org/certificates/045b69cbc5ce45ba87f5736e2d3068cf>
66. ISO 9001:2015 Kalite Yönetim Sistemi Temel Eğitimi (Quality Management System Basic Training), Sigmacert, 05.11.2020
67. Certified Edjineer, 2020
68. Sountrap Certified Educator & Expert, 2020
69. Adobe Creative Educator (Trendsetter, 12 Certificates, 13 Badges), 2020
70. Julia for Data Science, JuliaAcademy, 2020 (Introduction to Julia, Getting Started with JuliaAcademy, Foundations of Machine Learning, Deep Learning with Flux.jl, Parallel Computing, The World of Machine Learning with Knet)
71. Learning Python, Sep 20, 2020, LinkedIn Learning, Certificate Id: Ad8kqQiVh5o8TYDezjyyeWaHuCpB,
<https://www.linkedin.com/learning/certificates/be80476d7cceb1ae0b14736dcdab70d163a6b339815af5ad73dbf0f44d9ad41e>
72. Time Management: Working from Home, Sep 15, 2020, LinkedIn Learning & Program: PMI® (Project Management Institute, Inc.) Registered Education Provider, Provider ID: #4101, Certificate No: AbgVkahYuljE01qnSVd6D-3XaeG7, PDUs/Contact Hours: 1.25, Activity #: 100020003926 & Field of Study: Personal Development, Program: National Association of State Boards of Accountancy (NASBA), Registry ID: #140940, Certificate No: AXFs33FrKhZ4w7OTBsSCuSGEz5JR, Continuing Professional Education Credit (CPE): 2.20,
<https://www.linkedin.com/learning/certificates/048fd7c6079df7c079fa6fa64648d2a9dfec1e4dcd7a5ed8e524ee7afa8e6fda>

73. BTK Academy (3 Participation Certificates, 4 Completed Courses), 2020 (Google Dijital Vatandaşlık ve Çevrim İçi Güvenlik, Bilgi Teknolojileri İletişim Kurumu, BTK Akademi, 10.09.2020)
74. Nearpod Certified Educator, 18.08.2020
75. Azure Quantum Developer Workshop, The Azure Quantum Team, 2020
76. Make your data accessible -It's Not FAIR! Improving Data Publishing Practices in Research, 2020
77. Elsevier, 2020
78. Building trust and engagement in peer review, Elsevier, 2020
79. How to prepare a proposal for a review article, Elsevier, 2020
80. Beginners' guide to writing a manuscript in LaTeX, Elsevier, 2020
81. Certificate of Excellence, Elsevier, 2020
82. How to design effective figures for review articles, Elsevier, 2020
83. Fundamentals of manuscript preparation, Elsevier, 2020
84. How to write an abstract and improve your article, Elsevier, 2020
85. Guide to reference managers: How to effectively manage your references, Elsevier, 2020
86. Systematic reviews 101, Technical Writing Skills, Elsevier, 2020
87. Using proper manuscript language, Writing Skills, Elsevier
88. How to turn your thesis into an article, Writing Skills, Elsevier
89. 10 tips for writing a truly terrible journal article, Writing Skills, Elsevier
90. Techniques for Publishing in Transformative Ground-Breaking Journals, Cell Press, Elsevier
91. Strengthening Research Capabilities Remotely, Cell Press, Elsevier
92. How to prepare your manuscript, Fundamentals of Manuscript Preparation, Elsevier
93. Structuring your article correctly, Fundamentals of Manuscript Preparation, Elsevier
94. How to review a manuscript, Becoming a Peer Reviewer, Elsevier
95. Efficient Literature Search (Physical Sciences), Elsevier Türkiye Webinar
96. Efficient Journal Selection (Physical Sciences), Elsevier Türkiye Webinar
97. Efficient Research Area Discovery (Physical Sciences), Elsevier Türkiye Webinar
98. Mendeley New Tools, Elsevier Türkiye Webinar
99. Scientific Literature Discovery for Undergraduate Student, Elsevier Türkiye Webinar
100. Scientific Literature Discovery for Undergraduate Students, Elsevier Türkiye Webinar
101. ORSAM Summer School on Middle Eastern Affairs, 21-24.09.2020
102. ePROTECT Respiratory Infections, May 8, 2020, OpenWHO, World Health Organization
103. Mechanical Ventilation for COVID-19, 16.04.2020, Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME®) to provide continuing medical education for physicians.
104. Personal Stress Management Program, 11.04.2020, Ministry of Interior, Disaster and Emergency Management Directorate (AFAD)
105. Crisis Management Program, 10.04.2020, Ministry of Interior, Disaster and Emergency Management Directorate (AFAD)
106. Leadership Program, 08.04.2020, Ministry of Interior, Disaster and Emergency Management Directorate (AFAD)
107. Directorate (AFAD)
108. COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response, March 29, 2020, OpenWHO, World Health Organization
109. How to learn a language, Kiron, 2020
110. Introduction to Psychology, Psychological First Aid (PFA), Kiron, 2020

111. Nodes Program Used in Search and Rescue Activities, 28.01.2020, Ministry of Interior, Disaster and Emergency Management Directorate (AFAD)
112. Disaster Awareness Training Program for Individuals and Families, 28.01.2020, Ministry of Interior, Disaster and Emergency Management Directorate (AFAD)
113. Flipgrid Certified Educator, 2019
114. Unleash creativity with MakeCode and Minecraft: Education Edition & My M. Journey, Code Builder, Example M. Lesson, Classroom Management, Multiplayer, World Setup, Microsoft, 2018
115. Physical computing for the non-computer science educator, Microsoft, 2018
116. Computational Thinking and its importance in education, Microsoft, 2018
117. How to Infuse Computational Thinking in your Teaching with Maker Challenges, Microsoft, 2018
118. Getting started with Azure for Education, Microsoft Education, 2018
119. OneNote Staff Notebook: Tools for staff collaboration, Microsoft, 2017
120. OneNote Class Notebook: A teacher's all-in-one notebook for students, Microsoft, 2017
121. Getting Started with OneNote, Microsoft, 2017
122. Streamline efficiency with Office 365 apps, Microsoft, 2017
123. Microsoft Forms: Creating Authentic Assessments, Microsoft, 2017
124. Teach Student-Led Computer Science Advocacy, Microsoft, 2017
125. Working with a visual learning tool (Sensavis). Microsoft, 2017
126. Microsoft Innovative Educator Expert 2017-2021
127. Microsoft Master Trainer, 2016-2021
128. Skype in the Classroom Expert. Microsoft, 2017
129. LEGO® MINDSTORMS® Education EV3. Microsoft, 2017
130. LEGO® MINDSTORMS® Education EV3 - In the Classroom. Microsoft, 2017
131. LEGO® MINDSTORMS® Education EV3 – Programming. Microsoft, 2017
132. LEGO® MINDSTORMS® Education EV3 - Getting Started. Microsoft, 2017
133. Create a world of tomorrow in your classroom with Windows 10, 2017
134. Game Development Crash Course w/Solar2D: Fast and EASY!, 02.23.2017, by J.A. Whye, Udemy
135. Build and Deploy Your First Decentralized App with Ethereum, 12.10.2017, by Gary Simon, Udemy
136. Best Online Excel Training | Best Shortcuts in 30 mins, 02.24.2017, by Yoda Learning, Udemy
137. Deploying Android Apps to Different App Stores - Correctly!, 02.26.2017, by Jason Low, Udemy
138. How to Create Your Udemy Course, 02.24.2017, by Udemy Instructor Team, Udemy
139. Adobe Presenter ile Powerpointlerden Elearning yapalım, 02.24.2017, by Ercan Altuğ Yılmaz, Udemy
140. Udemy LIVE 2016, 02.24.2017, by Udemy Instructor Team, Udemy
141. How to Self-Study English Online, 02.24.2017, by Nikki Joslin, Udemy
142. Lean In Presents: Centered Leadership, 03.06.2017, by Joanna Barsh, LeanIn Foundation, Udemy
143. El Islam: Una Religión de Paz, 03.06.2017, by Claudia Ruiz Arriola, Udemy
144. The biography of Prophet Muhammad part 1, 03.12.2017, by Islamic Guidance, Udemy
145. CK-12 Certified Educator. CK-12 Foundation, 2018-2022
146. Summer School 101 & 201. Microsoft, 2017
147. Windows 10 and Classroom Agility. Microsoft, 2017
148. Introduction to Microsoft Teams, Microsoft, 2017

149. The Student Teacher Education Program, Microsoft, 2017
150. Reimagine the writing process with Microsoft in Education, Microsoft, 2017
151. Creating a digitally inclusive learning community, Microsoft, 2017
152. Microsoft DevOps200.3: Continuous Integration and Continuous Deployment, 10.06.2017, Certification Number: 49bde4faf53f40abb6b0ac51961fc451
153. Training teachers to author accessible content. Microsoft, 2017
154. Problem-Based Learning. Microsoft, 2017
155. Online Marketing Basic Training. TOBB, İŞKUR, ÇSGB Ministry confirmed (Türkiye), Google Dijital Atölye (Digital Garage), 2017 (Dijital Pazarlamanın Temelleri, Google Dijital Atölye, Google EMEA, IAB Europe, Certificate No: LBB N26 W8Q)
156. Teaching Sustainable Development Goals. Microsoft, 2017
157. Introduction to Kodu. Microsoft, 2017
158. TweetMeet. Microsoft, 2017
159. Make What's Next Through Collaboration, Citizenship, and Creative Thinking. Microsoft, 2017
160. Design, Deploy & Transform Workshop. Microsoft, 2017
161. MIE Trainer. Microsoft, 2016
162. Teacher academy: Windows 10. Microsoft, 2016
163. Digital Inking with Surface. Microsoft, 2016 145. Digital Citizenship. Microsoft, 2016
164. Step up to Computer Science.
165. Occupational Safety Specialist, OSS-C, Ministry of Labour and Social Security of the
166. Republic of Türkiye, 2016
167. Certified Microsoft Innovative Educator. Microsoft, 2016
168. Teacher academy: Windows 10. Microsoft, 2016
169. Digital Inking with Surface. Microsoft, 2016
170. Digital Citizenship. Microsoft, 2016
171. Step up to Computer Science. Microsoft, 2016
172. Amplifying Student Voice. Microsoft, 2016 154. Microsoft Imagine Academy. Microsoft, 2016
173. Prepare to Teach Creative Coding Through Games and Apps. Microsoft, 2016
174. Teacher Academy: Office 365. Microsoft, 2016
175. Introduction to Microsoft Classroom. Microsoft, 2016
176. Hour of Code: Facilitation Training and Lots of Resources! Microsoft, 2016
177. Teacher Academy: OneNote, The Ultimate Collaboration Tool. Microsoft, 2016
178. Technology Enriched Instruction. Microsoft, 2016 161. Educator Community Contributor. Microsoft, 2016 162. Educator Community Influencer. Microsoft, 2016
179. 21st Century Learning Design. Microsoft, 2016
180. Microsoft in Education. Microsoft, 2016
181. Microsoft in the Classroom. Microsoft, 2016
182. MIE Trainer Academy Learning Path. Microsoft, 2016
183. Teaching with Technology 2016. Microsoft, 2016
184. Teaching with Technology Basics. Microsoft, 2016
185. Minecraft Certified Educator, Minecraft, 2016
186. Certified Web Solutions Provider: Web Çözümleri Sağlayıcısı Sertifikası, ResellerClub University, 2016
187. Occupational Safety and Health (OSH, Marmara University), 2015
188. 120 Hour English Course (Dilko), 2005
189. Master Computer Teacher Certificate from M.E.B. (National Education Ministry), 2000
190. Expert Computer Teacher Certificate from Governorship (Yalova & Istanbul), 2000

191. Pedagogical Formation (University of Kocaeli), 1998
192. Astronomy Course (University of Ege), 1997
193. 720 Hour English Course (University of Kocaeli), 1993-1994
194. Electric Counter Attention T.E.K. (Türkiye Electric Corporation) (Internship), 1993
195. Enamelled Wire Production, EMTEL (Internship), 1992
196. Arabic Language Certificate I., II. Level, Egypt, Arab Radio, 1991
197. ~1000 Badges & Certificates: 79 Elsevier, Pennylane (1 Certificate, 18 Badges) (<https://pennylane.ai/profile/mkececi>), B+C Microsoft Education 858 modules, 516 badges, 95 trophies, 1 reputation (<https://learn.microsoft.com/en-us/users/mkececi/>), 16 MVA, 30 Google, 3 ResellerClub, 3 Firefox, 1 WordPress, 3 Minecraft, 7 Fedora, 43 Spiceworks, 10 Edmodo, 27B+1C European Schoolnet, 30 Sociabble, 12 Udemy, 21 Brighttalk, 4 OpenWHO, Columbia+ (2C, 6B, <https://badges.plus.columbia.edu/profile/mehmetkececi404433/wallet>), LinkedIn Learning (7 C), etc.

Information Technology Competency

1. MS Office (Word, Excel, PowerPoint, Access, OneNote, Publisher, Sway) (97-***), Libre Office, Open Office
2. OSs: Linux (Ubuntu, Fedora etc. 1999-***), Windows 10-11 (1990-***)
3. Programming: Quantum Computing, Python, Julia, Lua, Fortran, C/C++/C++ Builder, Java,
4. C#, Perl, BioPerl, BioPython, R, RStudio, Statistica, PyCharm, IPython, Anaconda (Miniconda, Miniforge, nteract), Visual Studio Code, JupyterLab, Notebook Lab, Wing IDE, SciPy, Panda, etc.
5. Web Languages: Html, Asp, Asp.Net, PHP, Java Script, VBScript (1999-***)
6. Scientific Programs: Strong background in mathematics and ability to use software like MATLAB, Maple, Mathematica, and C++ to conduct mathematical, and numerical analysis. Physics, Astrophysics (Astropy), Mathematics, Bioinformatics, Statistics (Tableau, Power BI, SPSS, PSPP, Salstat), etc. (1994-***)
7. Virtualization (VirtualBox, VMware)
8. Web Server: IIS, WebMatrix, Web PI, XAMPP, cPanel, phpMyAdmin, etc.
9. Hardware, Internet, Network, Social Media, CMS (WordPress, Joomla), LMS (Articulate, Quizmaker, ClassMaker) etc.
10. Translations Tools: Virtaal, Poedit
11. Open Journal Systems (OJS), Open Monograph Press (OMP), Open Conference Systems (OCS), Open Harvester Systems (OHS)
12. Quantum Computing

Research Areas

Quantum Field Theory (QFT), Instanton, Conformal Field Theory (CFT), High Energy Physics (HEP), Particle Physics, High Magnetic Fields, Hydrocarbons Behaviour, Biophysics, Astrophysics, Cosmology, Cosmogony, Bioinformatics, Nanotechnology, Programming Languages, Web Servers, Information Technology (IT), Software, Operating Systems (OSs), History of Science and Technology, Philosophy of Science, Ethics, Science and Technology Management, Leadership, Morals and Religion, Interdisciplinary Relationship, Health Information System (HIS), Occupational

Safety, Data Bases, Big Data, Superconductivity, Medical Physics, Radioactivity, Internet of Things (IoTs), Mathematical Physics, Electronics, Intelligent Systems, Education, Physics Education, Philosophy of Physics, Book/e-Book Publish & Edit, CMS, SEO, E-Learning, LMS, L&D, Open Digital Badges, Blockchain, Topology of Fermions, Quantum Computing.

Authored scientific and general books in Turkish and English, published with ISBN

1. Türkçe Alıntılar: Turkish Proverbs, Turkish Ed., 03.2015, ISBN-13: 978-1507893340
2. Biyoenformatik I: Bioinformatics I, 23.03.2015, ISBN-13: 978-1511410755, Paperback/E-Kitap: E-Book/Kindle
3. Turkish Quotes I: Türkçe Alıntılar I, Turkish Ed., 07.04.2015, ISBN-13: 978-1511632331
4. Turkish Quotes II: Türkçe Alıntılar II, Turkish Ed., 09.04.2015, ISBN-13: 978-1511654913
5. Turkish Quotes III: Türkçe Alıntılar III, Turkish Ed., 09.04.2015, ISBN-13: 978-1511661447
6. Turkish Quotes IV: Türkçe Alıntılar IV, Turkish Ed., 11.04.2015, ISBN-13: 978-1511685740
7. Turkish Proverbs I: Türkçe Özlü Sözler I, ISBN: 978-1-71669-557-5
8. Biyoenformatik 1: Bioinformatics 1, Tam Renkli, 16.05.2015, ISBN-13: 978-1511760904
9. Bioinformatics I: Introduction to Bioinformatics, English Ed., ISBN-13: 978-1511789127, Paperback/E-Kitap: E-Book/Kindle
10. Bioinformatics 1: Introduction to Bioinformatics, English Ed., Full Color, 18.04.2015, ISBN-13: 978-1511789882, Paperback/E-Kitap: E-Book/Kindle
11. Student Bingo: Öğrenci Bingosu, ISBN-13: 978-1512034516
12. Student Buzzword: Öğrenci Buzzwordu, ISBN-13: 978-1512050837, Paperback/E-Kitap: E-Book/Kindle
13. Türkçe Alıntılar: Turkish Quotes, ISBN: 9781312916296, E-Kitap: E-Book
14. Turkish Quotes: Türkçe Alıntılar, ISBN: 9781312986565, E-Book
15. Türkçe Özlü Sözler, ISBN: 9781311398024, E-Kitap: E-Book/EPUB/Kindle
16. Simetri I: Symmetry I, ISBN-13: 978-1512392159
17. Kâf Dağı Operasyonu: Entropy Operasyonu, ISBN-13: 978-1514159194
18. Toplumsal Kanseri: Social Cancer, ISBN-13: 978-1514304594
19. Turkish Quotes V: Türkçe Alıntılar V, Turkish Ed., 21.07.2015, ISBN-13: 978-1515170617
20. Turkish Quotes VI: Türkçe Alıntılar VI, Turkish Ed., 19.09.2015, ISBN-13: 978-1517382520
21. Çocukların Meslek Seçimi: Ne olmak istiyorsunuz?, Turkish Ed., 16.09.2015, ISBN-13: 978-1517382643
22. Abstract Thought & Analytic Thinking Quotes, English Ed., 26.11.2015, ISBN: 978-1519559340, Paperback, E-Kitap: E-Book/Kindle
23. Beginning Bioinformatics: Presentation to Bioinformatics, English Ed., 26.01.2016, ISBN: 978-1530196067, Paperback/E-Kitap: E-Book/Kindle
24. Turkish Quotes VII: Türkçe Alıntılar VII, Turkish Ed., 14.05.2016, ISBN-13: 978-1533268440
25. Quotes of Mehmet Keçeci: Mehmet Keçeci'nin Sözleri, Turkish Ed., 11.08.2016, ISBN-13: 978-1537032986
26. Turkish Quotes VIII: Türkçe Alıntılar VIII, Turkish Ed., 11.08.2016, ISBN-13: 978-1537033044
27. Turkish Quotes IX: Türkçe Alıntılar IX, Turkish Ed., 20.10.2016, ISBN-13: 978-1539645337
28. Info & Data: Bilgi & Veri, English & Turkish Ed., 08.11.2016, ISBN-13: 978-1539999393, Paperback/E-Kitap: E-Book/Kindle
29. Words: Kelimeler, Turkish Ed., 08.11.2016, ISBN-13: 978-1539999478
30. Düşündüren Alıntılar: Thought Quotes, Turkish Ed., E-Kitap: E-Book, 15.11.2016, ISBN: 1230001428698

32. Turkish Quotes X: Türkçe Alıntılar X, Turkish Ed., 25.04.2018, ISBN-13: 978-1717427106
33. A Guide to Bioinformatics Tools, English Ed., 18.04.2019, ISBN-13: 978-1095163856
34. Bioinformatics Tools, English Ed., 25.04.2019, ISBN-13: 978-1095890714
35. Farkındalık: Awareness (Bilgeliğin İlk Adımı: First Step of Wisdom), ISBN: 9781715682897/Cream & ISBN: 9781034696032/White, Blurb
36. Çocukların Meslek Seçimi: Job Choice for Kids (Ne olmak istiyorsunuz?: What do you want to be?), ISBN: 9781715785901, Blurb
37. Türkçe Alıntılar I: Turkish Quotes I (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034080497, Blurb Books
38. Türkçe Alıntılar II: Turkish Quotes II (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034150886, Blurb
39. Türkçe Alıntılar III: Turkish Quotes III (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034153115, Blurb
40. Türkçe Alıntılar IV: Turkish Quotes IV (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034153986, Blurb
41. Türkçe Alıntılar V: Turkish Quotes V (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034155720, Blurb
42. Türkçe Alıntılar VI: Turkish Quotes VI (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034155805, Blurb
43. Türkçe Alıntılar VII: Turkish Quotes VII (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034156529, Blurb
44. Türkçe Alıntılar VIII: Turkish Quotes VIII (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034156543, Blurb
45. Türkçe Alıntılar IX: Turkish Quotes IX (Bilgeliğin Yapı Taşları: Building Blocks of Wisdom), ISBN: 9781034158806, Blurb
46. Aşkın Anatomisi: Anatomy of Love, ISBN: 9781034515982, Blurb
47. Küresel Gambit: The Global Gambit, ISBN: 9781006625435, Blurb
48. Keçeci, M. (2021). Öz Farkındalık: Mindfulness (Bilgeliğin Üçüncü Adımı: Third Step of Wisdom), ISBN: 9781034850311, Blurb
49. Digital Art Therapy I, 03.03.2023, ISBN: 9798211486119, Blurb

Certificate of Honor

1. Electric Power System Research. Certificate of Reviewing Awarded July 2015 (60 reviews) presented to Mehmet Keçeci in recognition of the review contributed to the journal. The Editors of Electric Power System Research. Elsevier Reviewer Recognition. 2025
2. Certificate of Appreciation, Kalem College, 2006
3. Certificate of Appreciation: T.C. Naval Forces Command, 08.09.2004
4. Certificate of Appreciation, Ümraniye National Education Directorate, 2004
5. Plaque of Appreciation, İrfan College, 2003-2004
6. Certificate of Appreciation, Ümraniye National Education Directorate, 2003

Book Links

1. <https://www.blurb.com/user/mkececi>
2. <https://www.amazon.com/stores/author/B00WH281P0>
3. <https://www.kobo.com/us/en/ebook/dusunduren-alntlar>
4. <https://www.lulu.com/spotlight/mkececi>
5. <https://www.overdrive.com/creators/937291/mehmet-kececi>

6. <https://books.apple.com/us/author/mehmet-ke%C3%A7eci/id1014080843>
7. <https://draft2digital.com/book/894352>
8. <https://draft2digital.com/book/2932509>
9. <https://www.smashwords.com/profile/view/mkececi>

Scientific Links

1. <https://orcid.org/0000-0001-9937-9839>
2. <https://www.researchgate.net/profile/Mehmet-Kececi>
3. <https://independent.academia.edu/MehmetKececi>
4. <https://dergipark.org.tr/tr/pub/@mkececi>
5. <https://www.webofscience.com/wos/author/record/H-7476-2014>
6. <https://inspirehep.net/authors/1361774>
7. <https://scholar.google.com/citations?user=PleXSXMAAAAJ>
8. <https://www.scopus.com/authid/detail.uri?authorId=39762289000>
9. Web of Science ResearcherID: H-7476-2014
10. ORCID: 0000-0001-9937-9839
11. Scopus Author ID: 39762289000
12. Loop profile: 905355
13. SciProfiles: 110585
14. Ciência ID: 411D- 32F4-237F

Reviewer List

1. Electric Power System Research. Certificate of Reviewing Awarded July 2015 (60 reviews) presented to Mehmet Keçeci in recognition of the review contributed to the journal. The Editors of Electric Power System Research. Elsevier Reviewer Recognition. 2025
2. Cyborg and Bionic Systems, SPJ (Science Partner Journals), AAAS (American Association for the Advancement of Science), 2023 (6 reviews)
3. Reviewer (30 International Scientific Journal, 2011 - ***, >100 English, Turkish articles)