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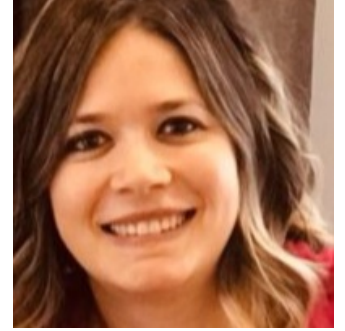
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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-8014-2020

Yoksis Researcher ID: 102602

Education Information

Doctorate, Istanbul University, Fen Fakültesi / Fen Bilimleri Enstitüsü / Fizik, Nükleer Fizik

Anabilim Dalı, Turkey 2010 - 2015

Postgraduate, Istanbul University, Fen Fakültesi / Fen Bilimleri Enstitüsü / Fizik, Nükleer

Fizik Anabilim Dalı, Turkey 2007 - 2010

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 2003 - 2007

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Foreign Language, ICHO-A (Introductory) Japanese Language Program for Researchers, Osaka Üniversitesi, 2014

Foreign Language, Threshold 2, Wall - Street Enstitüsü, 2008

Dissertations

Doctorate, VANADYUM İZOTOPLARINDA GAMOW-TELLER GEÇİŞ GÜÇLERİNİN GELİŞİMİ, Istanbul University, Faculty of Science, Department of Physics, 2015

Postgraduate, YÜKSEK REZOLÜSYONLU (3He,t) REAKSİYONU ile ELDE EDİLEN +3/2 İZOSPİNLİ 45Sc ÇEKİRDEĞİNİN GAMOW-TELLER GEÇİŞLERİNİN İNCELENMESİ, Istanbul University, Faculty of Science, Fizik Bölümü Nükleer Fizik Anabilim Dalı, 2010

Research Areas

Physics, Nuclear physics, General Nuclear Reactions, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2018 - Continues
Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2017 - 2018
Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2010 - 2017
Other, Osaka University, Seyahat, Turizm Ve Eğlence Hizmetleri, Department of Physics, 2014 - 2015

Academic and Administrative Experience

İstanbul Üniversitesi, Fizik, Nükleer Fizik, 2017 - 2018

Courses

Çekirdek Fiziği 1, Undergraduate, 2018 - 2019, 2017 - 2018
İleri Fizik Uygulamaları I, Undergraduate, 2018 - 2019
Çekirdek Fiziği II, Undergraduate, 2017 - 2018
Fizik Lab 1, Undergraduate, 2017 - 2018
İleri Fizik Uygulamaları II, Undergraduate, 2017 - 2018
Çekirdek Fiziği I Uyg., Undergraduate, 2015 - 2016
Çekirdek Fiziği II Uyg., Undergraduate, 2015 - 2016
Çekirdek Fiziği I (İÖ) - Uyg., Undergraduate, 2015 - 2016
Fizik Lab II, Undergraduate, 2013 - 2014, 2012 - 2013, 2010 - 2011
Fizik II Uygulama, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
Fizik I Uygulama, Undergraduate, 2013 - 2014, 2012 - 2013, 2010 - 2011
Fizik Lab I, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
Fizik Lab III, Undergraduate, 2012 - 2013, 2010 - 2011
Atom ve Molekül Fiziği Lab., Undergraduate, 2010 - 2011

Advising Theses

Süsoy Doğan G., INVESTIGATION OF GAMMA AND NEUTRON ATTENUATION PROPERTIES OF DIFFERENT AMORPHOUS STRUCTURES WITH BIOACTIVE PROPERTIES BY MONTE CARLO METHOD, Postgraduate, H.Aydın(Student), 2019

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, July, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, July, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021
Post Graduate, Post Graduate, İstanbul Üniversitesi, December, 2019
Post Graduate, Post Graduate, İstanbul Üniversitesi, December, 2019
Post Graduate, Post Graduate, Üsküdar Üniversitesi, April, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

1. **An extensive benchmark analysis of advanced ceramic-concretes towards strategic material selection for nuclear applications and waste management**
AlMisned G., Süsoy G., Sen Baykal D., KILIÇ G., Tekin H.

Ceramics International, vol.50, no.10, pp.17075-17085, 2024 (SCI-Expanded)

- II. **Neutron transmission analysis in borated polyethylene, boron carbide, and polyethylene: Insights from MCNP6 simulations**
Almisned G., Susoy G., Tekin H.
Radiation Physics and Chemistry, vol.218, 2024 (SCI-Expanded)
- III. **A closer-look on W and Pb alloys: In-depth evaluation in elastic modulus, gamma-ray, and neutron attenuation for critical applications**
ALMisned G., Susoy G., Sen Baykal D., Alkarrani H., Güler Ö., Tekin H.
Nuclear Engineering and Design, vol.420, 2024 (SCI-Expanded)
- IV. **Enhancing mechanical, physical, radiation attenuation properties in aluminobarium-titanium-calcium-lithium glasses for nuclear applications: The pivotal role of TiO₂ additives**
Sen Baykal D., Afaneh F., Susoy G., Al-Omari S., ALMisned G., KILIÇ G., Khattari Z., Issa B., Tekin H.
Radiation Physics and Chemistry, vol.217, 2024 (SCI-Expanded)
- V. **Tailoring a correlation between fracture resistance improvement, elastic moduli, mechanical and nuclear radiation shielding properties for sodium-borate glasses through Gallium(III) oxide incorporation**
Almisned G., Khattari Z., Sen Baykal D., Susoy G., KILIÇ G., Ene A., Tekin H.
Journal of Materials Research and Technology, vol.27, pp.7582-7592, 2023 (SCI-Expanded)
- VI. **Comparative analysis on application conditions of indium (III) oxide-reinforced glasses in nuclear waste management and source transportation: A Monte Carlo simulation study**
ALMisned G., Baykal D. S., KILIÇ G., İLİK E., Rabaa E., Susoy G., Zakaly H. M., Ene A., Tekin H.
Heliyon, vol.9, no.3, 2023 (SCI-Expanded)
- VII. **The role of Ag₂O incorporation in nuclear radiation shielding behaviors of the Li₂O-Pb₃O₄-SiO₂ glass system: A multi-step characterization study**
Almisned G., Susoy G., Zakaly H. M. H., Rabaa E., KILIÇ G., İLİK E., Sen Baykal D., Ene A., Tekin H. O.
Open Chemistry, vol.21, no.1, 2023 (SCI-Expanded)
- VIII. **The significant role of W₂O₃ on high-dense BaO-P₂O₃ glasses: transmission factors and a comparative investigation using commercial and other types of shields**
Tekin H. O., ALMisned G., Rammah Y. S., Susoy G., Ali F. T., Sen Baykal D., Elshami W., Zakaly H. M. H., Issa S. A. M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.6, 2022 (SCI-Expanded)
- IX. **Heavy metal oxide (HMO) glasses as an effective member of glass shield family: A comprehensive characterization on gamma ray shielding properties of various structures**
Tekin H., Susoy G., Issa S. A., Ene A., ALMisned G., Rammah Y., Ali F. T., Algethami M., Zakaly H. M.
Journal of Materials Research and Technology, vol.18, pp.231-244, 2022 (SCI-Expanded)
- X. **Mechanical properties, elastic moduli, transmission factors, and gamma-ray-shielding performances of Bi₂O₃-P₂O₅-B₂O₃-V₂O₅ quaternary glass system**
Tekin H. O., ALMisned G., Rammah Y. S., Susoy G., Ali F. T., Sen Baykal D., Zakaly H. M. H., Issa S. A. M., Ene A.
OPEN CHEMISTRY, vol.20, no.1, pp.314-329, 2022 (SCI-Expanded)
- XI. **Multiple Assessments on the Gamma-Ray Protection Properties of Niobium-Doped Borotellurite Glasses: A Wide Range Investigation Using Monte Carlo Simulations**
Tekin H. O., Ali F. T., ALMisned G., Susoy G., Issa S. A. M., Ene A., Elshami W., Zakaly H. M. H.
SCIENCE AND TECHNOLOGY OF NUCLEAR INSTALLATIONS, vol.2022, 2022 (SCI-Expanded)
- XII. **Transmission Factor (TF) Behavior of Bi₂O₃-TeO₂-Na₂O-TiO₂-ZnO Glass System: A Monte Carlo Simulation Study**
Tekin H. O., ALMisned G., Susoy G., Ali F. T., Baykal D. S., Ene A., Issa S. A. M., Rammah Y. S., Zakaly H. M. H.
SUSTAINABILITY, vol.14, no.5, 2022 (SCI-Expanded)
- XIII. **Determination of gamma-ray transmission factors of W₂O₃-TeO₂-B₂O₃ glasses using MCNPX Monte Carlo code for shielding and protection purposes**
ALMisned G., Baykal D. S., SÜSOY DOĞAN G., KILIÇ G., Zakaly H. M. H., Ene A., Tekin H. O.
APPLIED RHEOLOGY, vol.32, no.1, pp.166-177, 2022 (SCI-Expanded)
- XIV. **Assessment of the usability conditions of Sb₂O₃-PbO-B₂O₃ glasses for shielding purposes in some**

medical radioisotope and a wide gamma-ray energy spectrum

ALMisned G., Sen Baykal D., KILIÇ G., SÜSOY DOĞAN G., Zakaly H. M. H., Ene A., Tekin H. O.
APPLIED RHEOLOGY, vol.32, no.1, pp.178-189, 2022 (SCI-Expanded)

- XV. **A detailed investigation on highly dense CuZr bulk metallic glasses for shielding purposes**
Tekin H. O., Almisned G., Susoy G., Zakaly H. M. H., Issa S. A. M., KILIÇ G., Rammah Y. S., Lakshminarayana G., Ene A.
Open Chemistry, vol.20, no.1, pp.69-80, 2022 (SCI-Expanded)
- XVI. **Enhancement of gamma-ray shielding properties in cobalt-doped heavy metal borate glasses: The role of lanthanum oxide reinforcement**
Almisned G., Elshami W., Issa S. A. M., Susoy G., Zakaly H. M. H., Algethami M., Rammah Y., Ene A., Al-Ghamdi S., Ibraheem A. A., et al.
Materials, vol.14, no.24, 2021 (SCI-Expanded)
- XVII. **Exploring the FTIR, Optical and Nuclear Radiation Shielding Properties of Samarium-Borate Glass: A Characterization through Experimental and Simulation Methods**
Issa S. A. M., Zakaly H. M. H., Tekin H. O., Saudi H. A., Badawi A., Pyshkina M., Susoy G., Elazaka A., Ene A.
NANOMATERIALS, vol.11, no.7, 2021 (SCI-Expanded)
- XVIII. **The impact of samarium (III) oxide on structural, optical and radiation shielding properties of thallium-borate glasses: Experimental and numerical investigation**
Saudi H. A., Tekin H. O., Zakaly H. M. H., Issa S. A. M., Susoy G., Zhukovsky M.
OPTICAL MATERIALS, vol.114, 2021 (SCI-Expanded)
- XIX. **Nuclear radiation shielding competences of barium-reinforced borosilicate glasses**
Tekin H. O., Issa S. A. M., Mahmoud K. A., El-Agawany F. I., Rammah Y. S., Susoy G., Al-Buriahi M. S., Abuzaid M. M., AKKURT İ.
EMERGING MATERIALS RESEARCH, vol.9, no.4, pp.1131-1144, 2020 (SCI-Expanded)
- XX. **Sodium dodecatungstophosphate hydrate-filled polymer composites for nuclear radiation shielding**
Tekin H., Kaçal M., Issa S. A., Polat H., SÜSOY DOĞAN G., Akman F., Kilicoglu O., Gillette V.
Materials Chemistry and Physics, vol.256, 2020 (SCI-Expanded)
- XXI. **Iron (III) oxide doped lithium borate glasses: structural and charged particles/photon shielding properties**
KARA Ü., Susoy G., Issa S. A., Elshami W., Yıldız Yorgun N., Abuzaid M., KAVAZ E., Tekin H.
Journal of Non-Crystalline Solids, vol.546, 2020 (SCI-Expanded)
- XXII. **Newly developed Zinc-Tellurite glass system: An experimental investigation on impact of Ta₂O₅ on nuclear radiation shielding ability**
KAVAZ E., Tekin H., Kilic G., Susoy G.
Journal of Non-Crystalline Solids, vol.544, 2020 (SCI-Expanded)
- XXIII. **Physical and nuclear shielding properties of newly synthesized magnesium oxide and zinc oxide nanoparticles**
Rashad M., Tekin H., Zakaly H. M., Pyshkina M., Issa S. A., Susoy G.
Nuclear Engineering and Technology, vol.52, pp.2078-2084, 2020 (SCI-Expanded)
- XXIV. **SnO-reinforced silicate glasses and utilization in gamma-radiation-shielding applications**
Rammah Y. S., Kumar A., Mahmoud K. A., El-Mallawany R., El-Agawany F. I., Susoy G., Tekin H. O.
EMERGING MATERIALS RESEARCH, vol.9, no.3, pp.1000-1008, 2020 (SCI-Expanded)
- XXV. **Fabrication, optical characteristic, and nuclear radiation shielding properties of newly synthesised PbO-GeO₂ glasses**
Issa S. A. M., Kassab L., SÜSOY DOĞAN G., Nishimura M., da Silva Mattos G., Bordon C., Tekin H.
Applied Physics A: Materials Science and Processing, vol.126, no.9, 2020 (SCI-Expanded)
- XXVI. **Mechanical, physical and gamma ray shielding properties of xPbO-(50-x) MoO₃-50V(2)O(5) (25 ≤ x ≤ 45 mol %) glass system**
Issa S. A. M., Ali A. M., Susoy G., Tekin H. O., Saddeek Y. B., Elsaman R., Smailly H. H., Algarni H.
CERAMICS INTERNATIONAL, vol.46, no.12, pp.20251-20263, 2020 (SCI-Expanded)
- XXVII. **Mechanical and nuclear radiation shielding properties of different boro-tellurite glasses: A comprehensive investigation on large Bi₂O₃ concentration**

Gaballah M., Issa S. A., Issa S. A., Saddeek Y. B., Saddeek Y. B., Elsaman R., Susoy G., Erguzel T., Alharbi T., Tekin H.
Physica Scripta, vol.95, no.8, 2020 (SCI-Expanded)

XXVIII. **Alkaline phosphate glasses and synergistic impact of germanium oxide (GeO₂) additive: Mechanical and nuclear radiation shielding behaviors**

Saddeek Y. B., Issa S. A. M., Guclu E. E. A., Kilicoglu O., Susoy G., Tekin H. O.
CERAMICS INTERNATIONAL, vol.46, no.10, pp.16781-16797, 2020 (SCI-Expanded)

XXIX. **Relationship between melting-conditions and gamma shielding performance of fluoro-sulfo-phosphate (FPS) glass systems: A comparative investigation**

Abuzaid M. M., Susoy G., Issa S. A. M., Elshami W., Kilicoglu O., Tekin H. O.
CERAMICS INTERNATIONAL, vol.46, no.10, pp.15255-15269, 2020 (SCI-Expanded)

XXX. **(59.5-x) P2O5-30Na(2)O-10Al(2)O(3)-0.5CoO-xNd(2)O(3)glassy system: an experimental investigation on structural and gamma-ray shielding properties**

Elsaman R., Issa S. A. M., Tekin H. O., Susoy G., Showahy A. A., Elokri M. M., Erguzel T. T., Saddeek Y. B.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.7, 2020 (SCI-Expanded)

XXXI. **Enhancement of nuclear radiation shielding and mechanical properties of YBiB₃O₃ glasses using La₂O₃**

Issa S. A. M., Ali A. M., Tekin H. O., Saddeek Y. B., Al-Hajry A., Algarni H., Susoy G.
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.52, no.6, pp.1297-1303, 2020 (SCI-Expanded)

XXXII. **Scanning electron microscopy (SEM), energy-dispersive X-ray (EDX) spectroscopy and nuclear radiation shielding properties of [alpha-Fe₃+O(OH)]-doped lithium borate glasses**

KARA Ü., Susoy G., Issa S. A. M., Elshami W., Yıldız Yorgun N., Abuzaid M. M., KAVAZ E., Tekin H. O.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.7, 2020 (SCI-Expanded)

XXXIII. **Optical, structural and nuclear radiation shielding properties of Li₂B₄O₇ glasses: effect of boron mineral additive**

KARA Ü., KAVAZ E., Issa S. A. M., Rashad M., Susoy G., Mostafa A. M. A., Yorgun N. Y., Tekin H. O.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.4, 2020 (SCI-Expanded)

XXXIV. **Synergistic effect of serpentine mineral on Li₂B₄O₇ glasses: optical, structural and nuclear radiation shielding properties**

KARA Ü., Issa S. A. M., Susoy G., Rashad M., KAVAZ E., Yorgun N. Y., Tekin H. O.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.3, 2020 (SCI-Expanded)

XXXV. **The impact of Cr₂O₃ additive on nuclear radiation shielding properties of LiF-SrO-B₂O₃ glass system**

Susoy G., Guclu E. E. A., Kilicoglu O., Kamislioglu M., Al-Buriahi M. S., Abuzaid M. M., Tekin H. O.
MATERIALS CHEMISTRY AND PHYSICS, vol.242, 2020 (SCI-Expanded)

XXXVI. **Effect of TeO₂ additions on nuclear radiation shielding behavior of Li₂O-B₂O₃-P₂O₅-TeO₂ glass-system**

Susoy G.
CERAMICS INTERNATIONAL, vol.46, no.3, pp.3844-3854, 2020 (SCI-Expanded)

XXXVII. **The effective role of La₂O₃ contribution on zinc borate glasses: radiation shielding and mechanical properties**

Issa S. A. M., Susoy G., Ali A. M., Tekin H. O., Saddeek Y. B., Al-Hajry A., Algarni H., Anjana P. S., Agar O.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.125, no.12, 2019 (SCI-Expanded)

XXXVIII. **Experimental study of Gamow-Teller transitions via the high-energy-resolution O-18(He-3, t)F-18 reaction: Identification of the low-energy "super" -Gamow-Teller state**

Fujita H., Fujita Y., Utsuno Y., Yoshida K., Adachi T., Algara A., Csatos M., Deaven J. M., Estevez-Aguado E., Guess C. J., et al.

PHYSICAL REVIEW C, vol.100, no.3, 2019 (SCI-Expanded)

XXXIX. **The effective contribution of PbO on nuclear shielding properties of xPbO-(100-x)P₂O₅ glass system: a broad range investigation**

Issa S. A. M., Tekin H. O., Erguzel T. T., Susoy G.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.125, no.9, 2019 (SCI-Expanded)

- XL. **High-resolution study of the Gamow-Teller (GT₋) strength in the Zn-64(He-3, t) Ga-64 reaction**
DIEL F., Fujita Y., Fujita H., CAPPUZZELLO F., Ganioglu E., GREWE E., Hashimoto T., Hatanaka K., Honma M., Itoh T., et al.
PHYSICAL REVIEW C, vol.99, no.5, 2019 (SCI-Expanded)
- XLI. **Investigating neutron-proton pairing in sd-shell nuclei via (p, He-3) and (He-3, p) transfer reactions**
Ayyad Y., Lee J., Tamii A., Lay J. A., MACCHIAVELLI A. O., Aoi N., Brown B. A., Fujita H., Fujita Y., Ganioglu E., et al.
PHYSICAL REVIEW C, vol.96, no.2, 2017 (SCI-Expanded)
- XLII. **Half-life determination of T-z = -1 and T-z = -1/2 proton-rich nuclei and the beta decay of Zn-58**
Kucuk L., ORRIGO S. E. A., MONTANER-PIZA A., Rubio B., Fujita Y., Gelletly W., Blank B., Oktem Y., Adachi T., Algora A., et al.
EUROPEAN PHYSICAL JOURNAL A, vol.53, no.6, 2017 (SCI-Expanded)
- XLIII. **Observation of the 2(+) isomer in Co-52**
ORRIGO S. E. A., Rubio B., Gelletly W., Blank B., Fujita Y., Giovinnazzo J., Agramunt J., Algora A., Ascher P., Bilgier B., et al.
PHYSICAL REVIEW C, vol.94, no.4, 2016 (SCI-Expanded)
- XLIV. **High-resolution study of Gamow-Teller transitions in the Ti-48(He-3,t)V-48 reaction**
Ganioglu E., Fujita H., Rubio B., Fujita Y., Adachi T., Algora A., CSATLOS M., Deaven J. M., ESTEVEZ-AGUADO E., Guess C. J., et al.
PHYSICAL REVIEW C, vol.93, no.6, 2016 (SCI-Expanded)
- XLV. **Change of nuclear configurations in the neutrinoless double-beta decay of Te-130 -> Xe-130 and Xe-136 -> Ba-136**
Entwisle J. P., Kay B. P., Tamii A., Adachi S., Aoi N., Clark J. A., Freeman S. J., Fujita H., Fujita Y., Furuno T., et al.
PHYSICAL REVIEW C, vol.93, no.6, 2016 (SCI-Expanded)
- XLVI. **beta decay of the exotic T-z = -2 nuclei Fe-48, Ni-52, and Zn-56**
ORRIGO S. E. A., Rubio B., Fujita Y., Gelletly W., Agramunt J., Algora A., Ascher P., Bilgier B., Blank B., Caceres L., et al.
PHYSICAL REVIEW C, vol.93, no.4, 2016 (SCI-Expanded)
- XLVII. **Dipole polarizability of Sn-120 and nuclear energy density functionals**
Hashimoto T., KRUMBHOLZ A. M., REINHARD P. -, Tamii A., VON NEUMANN-COSEL P., Adachi T., Aoi N., BERTULANI C. A., Fujita H., Fujita Y., et al.
PHYSICAL REVIEW C, vol.92, no.3, 2015 (SCI-Expanded)
- XLVIII. **High-resolution study of Gamow-Teller excitations in the Ca-42(He-3,t)Sc-42 reaction and the observation of a "low-energy super-Gamow-Teller state"**
Fujita Y., Fujita H., Adachi T., Susoy G., Algora A., Bai C. L., Colo G., Csatos M., Deaven J. M., Estevez-Aguado E., et al.
PHYSICAL REVIEW C, vol.91, no.6, 2015 (SCI-Expanded)
- XLIX. **Low-energy electric dipole response in Sn-120**
KRUMBHOLZ M., VON NEUMANN-COSEL P., Hashimoto T., Tamii A., Adachi T., BERTULANI C. A., Fujita H., Fujita Y., Ganioglu E., Hatanaka K., et al.
PHYSICS LETTERS B, vol.744, pp.7-12, 2015 (SCI-Expanded)
- L. **beta-DELAYED gamma-PROTON DECAY IN Zn-56: ANALYSIS OF THE CHARGED-PARTICLE SPECTRUM**
ORRIGO S. E. A., Rubio B., Fujita Y., Blank B., Gelletly W., Agramunt J., Algora A., Ascher P., Bilgier B., Caceres L., et al.
ACTA PHYSICA POLONICA B, vol.46, no.3, pp.709-712, 2015 (SCI-Expanded)
- LI. **Gamow-Teller transitions in the A=40 isoquintet of relevance for neutrino captures in Ar-40**
KARAKOÇ M., Zegers R. G. T., Brown B. A., Fujita Y., Adachi T., BOZTOSUN İ., Fujita H., Csatos M., Deaven J. M., Guess C. J., et al.
PHYSICAL REVIEW C, vol.89, no.6, 2014 (SCI-Expanded)
- LII. **Observation of the beta-Delayed gamma-Proton Decay of Zn-56 and its Impact on the Gamow-Teller Strength Evaluation**
Orrigo S. E. A., Rubio B., Fujita Y., Blank B., Gelletly W., Agramunt J., Algora A., Ascher P., Bilgier B., Caceres L., et al.
PHYSICAL REVIEW LETTERS, vol.112, no.22, 2014 (SCI-Expanded)
- LIII. **Beta Decay Study of the T-z = -2 Zn-56 Nucleus and the Determination of the Half-Lives of a Few fp-shell Nuclei**

- Rubio B., ORRIGO S. E. A., Kucuk L., MONTANER-PIZA A., Fujita Y., Fujita H., Blank B., Gelletly W., Adachi T., AGRAMUNT J., et al.
NUCLEAR DATA SHEETS, vol.120, pp.37-40, 2014 (SCI-Expanded)
- LIV. **Observation of Low- and High-Energy Gamow-Teller Phonon Excitations in Nuclei**
Fujita Y., Fujita H., Adachi T., BAI C. L., Algora A., Berg G. P. A., VON BRENTANO P., COLO G., CSATLOS M., Deaven J. M., et al.
PHYSICAL REVIEW LETTERS, vol.112, no.11, 2014 (SCI-Expanded)
- LV. **BETA DECAY OF THE EXOTIC T-z = -2, Zn-56 NUCLEUS AND HALF-LIFE OF VARIOUS PROTON-RICH T-z = -1 NUCLEI**
Orriago S. E. A., Rubio B., Agramunt J., Algora A., Molina F., Fujita Y., Blank B., Ascher P., Gerbaux M., Giovinazzo J., et al.
ACTA PHYSICA POLONICA B, vol.45, no.2, pp.355-362, 2014 (SCI-Expanded)
- LVI. **High-resolution study of Tz = +2 → +1 Gamow-Teller transitions in the 44Ca(3He,t)44Sc reaction**
Fujita Y., Adachi T., Fujita H., Algora A., Blank B., Csatlos M., Deaven J. M., Estevez-Aguado E., Ganioglu E., Guess C. J., et al.
Physical Review C - Nuclear Physics, vol.88, no.1, 2013 (SCI-Expanded)
- LVII. **High-resolution study of Gamow-Teller transitions in the 47Ti(3He,t)47V reaction**
Ganioglu E., Fujita H., Fujita Y., Adachi T., Algora A., Csatlos M., Deaven J. M., Estevez-Aguado E., Guess C. J., Gulyas J., et al.
Physical Review C - Nuclear Physics, vol.87, no.1, 2013 (SCI-Expanded)
- LVIII. **High resolution (He-3,t) experiment on the double-beta decaying nuclei Te-128 and Te-130**
Puppe P., Lennarz A., Adachi T., Akimune H., Ejiri H., Frekers D., Fujita H., Fujita Y., Fujiwara M., Ganioglu E., et al.
PHYSICAL REVIEW C, vol.86, no.4, 2012 (SCI-Expanded)
- LIX. **Separation of Pygmy Dipole and M1 Resonances in Zr-90 by a High-Resolution Inelastic Proton Scattering Near 0 degrees**
Iwamoto C., Utsunomiya H., Tamii A., Akimune H., Nakada H., Shima T., Yamagata T., Kawabata T., Fujita Y., Matsubara H., et al.
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- LX. **The 71Ga(3He,t) reaction and the low-energy neutrino response**
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- LXI. **The Nd-150(He-3,t) and Sm-150(t,He-3) reactions with applications to beta beta decay of Nd-150**
Guess C. J., Adachi T., Akimune H., Algora A., Austin S. M., Bazin D., Brown B. A., Caesar C., Deaven J. M., Ejiri H., et al.
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- LXII. **HIGH RESOLUTION STUDY OF THE RELATIVE DIPOLE STRENGTH DISTRIBUTION IN Sc ISOTOPES**
Stuhl L., Krasznahorkay A., Csatlos M., Adachi T., Algora A., Deaven J., Estevez E., Fujita H., Fujita Y., Guess C., et al.
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- LXIII. **NUCLEAR WEAK RESPONSE FROM THE COMBINED STUDY OF beta-DECAY AND CHARGE-EXCHANGE REACTION**
Fujita Y., Rubio B., Gelletly W., Blank B., Adachi T., Algora A., Ascher P., Cakirli R. B., De France G., Giovinazzo J., et al.
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Articles Published in Other Journals

- I. **Lithium-boro-tellurite glasses with ZnO additive: Exposure Buildup Factors (EBF) and Nuclear Shielding Properties**
Süsoy Doğan G.

II. Effect of P2O5 Additive on Nuclear Radiation Shielding Behaviors of Lithium Aluminum Silicate (LAS) Glass System

Süsoy Doğan G.

Avrupa Bilim ve Teknoloji Dergisi, vol.17, pp.530-538, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Beta Decay Studies of Proton Rich Nuclei, an Important Ingredient for rp-Process Calculations**
Rubio B., Tamii A., Algora A., Rogers A. M., Blank B., Bilgier B., Stodel C., Nishimura D., Ganioglu E., Molina F., et al.
14th International Symposium on Nuclei in the Cosmos (NIC2016), Niigata, Japan, 19 - 24 June 2016, vol.14, no.10510
- II. Competition of beta-delayed protons and beta-delayed gamma rays in Zn-56 and the exotic beta-delayed gamma-proton decay**
Orrigo S., Rubio B., Fujita Y., Blank B., Gelletly W., Agramunt J., Algora A., Ascher P., Bilgier B., Cáceres L., et al.
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- III. Competition between β -delayed proton and β -delayed γ decay of the exotic Tz = -2 nucleus ^{56}Zn and fragmentation of the IAS**
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- IV. Low-Energy Super Gamow-Teller State**
Fujita Y., Fujita H., Tamii A., Krasznahorkay A., Algora A., Negret A., Rubio B., Fransen C., Scholl C., Guess C. J., et al.
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- V. Investigating Neutron-Proton Pairing in sd-Shell Nuclei via (p,3He) and (3He,p) Transfer Reactions**
Ayyad Y., Lee J., Tamii A., Aoi N., Fujita H., Fujita Y., GANIÖĞLU E., Hatanaka K., HASHIMOTO T., Ito T., et al.
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- VI. Beta decay of exotic T-Z = -1, -2 nuclei: the interesting case of Zn-56**
ORRIGO S. E. A., Rubio B., Fujita Y., Blank B., Gelletly W., Agramunt J., Algora A., Ascher P., Bilgier B., Cáceres L., et al.
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- VII. Pygmy Dipole Resonance and Dipole Polarizability in Zr-90**
Iwamoto C., Tamii A., Utsunomiya H., Akimune H., Nakada H., Shima T., Hashimoto T., Yamagata T., Kawabata T., Fujita Y., et al.
12th International Symposium on Origin of Matter and Evolution of Galaxies (OMEG), Tsukuba, Japan, 18 - 21 November 2013, vol.1594, pp.426-431
- VIII. Beta Decay Of Exotic T-Z = -1 And T-Z = -2 Nuclei**
ORRIGO S. E. A., Rubio B., Fujita Y., Blank B., Gelletly W., Agramunt J., Algora A., Ascher P., Bilgier B., Cáceres L., et al.
2nd International Conference on Nuclear Structure and Dynamics, Opatija, Croatia, 9 - 13 July 2012, vol.1491, pp.81-84
- IX. Soft spin-dipole resonances in ^{40}Ca**
Stuhl L., Krasznahorkay A., Csátos M., Markert T., Litvinova E., Adachi T., Algora A., Daeven J., Estevez E., Fujita H., et al.
Rutherford Centennial Conference on Nuclear Physics, Manchester, United Kingdom, 8 - 12 August 2011, vol.381
- X. Gamow-Teller transitions starting from Tz = +3/2 nucleus ^{47}Ti**
Ganioglu E., Fujita H., Fujita Y., Adachi T., Algora A., Csátos M., Deaven J., Estevez E., Guess C., Gulyas J., et al.
3rd International Conference on Frontiers in Nuclear Structure, Astrophysics, and Reactions, FINUSTAR 3, Rhodes, Greece, 23 - 27 August 2010, vol.1377, pp.126-130
- XI. GAMOW-TELLER TRANSITIONS IN PROTON RICH NUCLEI DEDUCED FROM THE COMBINED STUDY OF**

β-DECAY AND CHARGE-EXCHANGE REACTIONS

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Nuclear Structure Problems, Proceedings of the French-Japanese Symposium, Riken, Japan, 5 - 08 January 2011,
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XII. Precise branching ratio of ^{24}Mg beta decay

Matsuta K., Nishimura D., Fukuda M., Fujita Y., Mihara M., Ganioglu E., Susoy G., Ichikawa Y., Momota S., Kitagawa A.,
et al.

International Nuclear Physics Conference 2010, INPC2010, Vancouver, Canada, 4 - 09 July 2010, vol.312

XIII. Gamow-Teller Transitions Starting from $T_z=+3/2$ Nucleus ^{45}Sc

Susoy G., Fujita H., Fujita Y., Adachi T., Algora A., Csatlos M., Deaven J., Estevez E., Ganioglu E., Guess C., et al.

3rd International Conference on Frontiers in Nuclear Structure, Astrophysics and Reactions (FINUSTAR), Rhodes,
Greece, 23 - 27 August 2010, vol.1377, pp.435-437

XIV. High-resolution study of $^{56}\text{Fe} \rightarrow ^{56}\text{Mn}$ Gamow-Teller transition by the combined analysis of $^{56}\text{Fe}(\text{He-3,t})^{56}\text{Co}$ and $^{56}\text{Fe}(p,p')^{56}\text{Fe}$ reactions

Nagashima M., Shimbara Y., Fujita H., Fujita Y., Adachi T., Botha N. T., Ganioglu E., Hatanaka K., Hirota K., Khai N. T.,
et al.

10th International Symposium on Origin of Matter and Evolution of Galaxies (OMEG10), Osaka, Japan, 8 - 10 March
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XV. Investigation of the $N=127$ nucleus ^{217}Th

Chevrier R., Heinz A., Qian J., Ahn T., Casperson R., Ilie G., Terry J., Winkler R., Williams E., McCarthy D., et al.

3rd Joint Meeting of the APS Division of Nuclear Physics and the Physical Society of Japan, Hawaii, United States Of
America, 13 - 17 October 2009, pp.1

XVI. $T_z = \pm 1/2$ Mirror Gamow-Teller Transitions in pf-shell Nuclei

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ENAM08, The Fifth International Conference on Exotic Nuclei and Atomic Masses, Poland, 1 - 04 August 2008, pp.1

XVII. Nuclear Weak Response from the Combined Study of beta decay and Charge-Exchange Reaction

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Japanese French Symposium New paradigms in Nuclear Physics, France, 1 - 04 August 2008, pp.1

Other Publications

I. Effect of P2O5 Additive on Nuclear Radiation Shielding Behaviors of Lithium Aluminum Silicate (LAS) Glass System

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II. Gamow-Teller transitions starting from $T_z = +3/2$ nuclei ^{45}Sc and ^{47}Ti , Chapter In book: Osaka University Laboratory of Nuclear Studies, Annual Report 2009, Publisher: Osaka University Laboratory of Nuclear Studies

SÜSOY DOĞAN G., Ganioglu E., Fujita H., Adachi T., Fujita Y., Algora A., Csatlos M., Deaven J. M., Estevez-Aguado E.,
Guess C. J., et al.

Technical Report, pp.1-2, 2009

Supported Projects

Tekin H. O., Issa B. A., Elshami W., Almisned G., Kılıç G., İlik E., Süsoy Doğan G., Universities of Other Countries Supported
Project, A critical evaluation on nuclear safety properties of novel heavy metal oxide glass containers for transportation
and waste management in Nuclear Medicine hot labs and nuclear power plants, 2023 - 2024

SÜSOY DOĞAN G., AKKUŞ B., ÖKTEM Y., FUJİTA Y., Project Supported by Higher Education Institutions, pf-kabuk
çekirdeklerinde Gamow-Teller Geçiş Gücü Dağılımlarının İncelenmesi, 2016 - 2019

ÇAKIRLI MUTLU R. B., ŞAHİN YALÇIN L., SÜSOY DOĞAN G., ÖZTÜRK F. Ç., ÖKTEM Y., AKKUŞ B., Project Supported by Higher Education Institutions, Deforme çekirdeklerde Zgamma değerleri ve ^{152}Nd çekirdeği, 2015 - 2018
SÜSOY DOĞAN G., Project Supported by Higher Education Institutions, Observation of Low- and High-Energy Gamow-Teller Phonon Excitations in Nuclei, 2015 - 2016
SÜSOY DOĞAN G., Project Supported by Higher Education Institutions, High Resolution study of $T_z=3/2$ Gamow Teller transitions in the $^{50}\text{Ti}(^3\text{He},t)^{50}\text{V}$ reaction, 2015 - 2015
Yavaş Ö., Akkuş B., Özkorucuklu S., Öktem Y., Şahin Yalçın L., Demir B., Ganioglu Nutku E., Çakırlı Mutlu R. B., Susam L., Küçer R., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezinin Teknik Tasarımı ve Test Laboratuvarlarının Kurulması, 2011 - 2015
Yavaş Ö., Akkuş B., Öktem Y., Ganioglu Nutku E., Çavdar İ., Akıncı F. Ç., Süsoy Doğan G., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezi Teknik Tasarımı ve Test Laboratuvarları, 2005 - 2015

Memberships / Tasks in Scientific Organizations

Turkish Physical Society, Member, 2008 - Continues, Turkey

Scientific Refereeing

CERAMICS INTERNATIONAL, SCI Journal, August 2020
OPTICAL MATERIALS EXPRESS, SCI Journal, August 2020
CERAMICS INTERNATIONAL, SCI Journal, August 2020
SÜLEYMAN DEMİREL ÜNİVERSİTESİ SAĞLIK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, June 2020
JOURNAL OF NON-CRYSTALLINE SOLIDS, SCI Journal, May 2020
JOURNAL OF NON-CRYSTALLINE SOLIDS, SCI Journal, March 2020
CERAMICS INTERNATIONAL, SCI Journal, March 2020
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, SCI Journal, February 2020
RADIATION PHYSICS AND CHEMISTRY, SCI Journal, January 2020
CERAMICS INTERNATIONAL, SCI Journal, January 2020
JOURNAL OF NON-CRYSTALLINE SOLIDS, SCI Journal, December 2019
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, SCI Journal, December 2019
AVRUPA BİLİM VE TEKNOLOJİ DERGİSİ, National Scientific Refreed Journal, November 2019
CERAMICS INTERNATIONAL, SCI Journal, November 2019

Scientific Consultations

GES TEKNOLOJİ İTH. İHRC. TİC. LTD.ŞTİ, Project Consultancy, Istanbul University, Faculty Of Science, Department Of Physics, Turkey, 2018 - Continues

Metrics

Publication: 84
Citation (WoS): 1446
Citation (Scopus): 1513
H-Index (WoS): 23
H-Index (Scopus): 23

Congress and Symposium Activities

- Turkish Physics Society 34th International Physics Congress - Organizasyon Komitesi üyesi olarak, Attendee, Muğla, Turkey, 2018
- Turkish Physics Society 33rd International Physics Congress - Organizasyon Komitesi Başkanı olarak, Attendee, Muğla, Turkey, 2017
- Turkish Physics Society 32th International Physics Congress, Attendee, Muğla, Turkey, 2016
- 6th Internationally Participated Congress on Particle Accelerators and Its Applications - Organizasyon Komitesi Üyesi Olarak, Attendee, Muğla, Turkey, 2016
- Turkish Physical Society 11st Internationally Participated Summer School on Particle Accelerators and Detectors - Organizasyon Komitesi Üyesi Olarak, Attendee, Muğla, Turkey, 2016
- 9th International Balkan School on Nuclear Physics, Attendee, Constanta, Romania, 2016
- EuNPC2015 - European Nuclear Physics Conference - Sözlü Bildiri ile, Attendee, Groningen, Netherlands, 2015
- Neutrino Nuclear Responses for Neutrino Studies in Nuclei (NNR14) - Katılımcı olarak, Attendee, Osaka, Japan, 2014
- Nuclear structure relevant to $0^+_{2\beta}$ decay: Studies of the (d, ^3He) reaction on isotopes of Te, Xe, and Ba - Adli deneye katılmak üzere., Attendee, Osaka, Japan, 2014
- International School on real-time systems in Osaka - Katılımcı olarak, Attendee, Osaka, Japan, 2014
- Yüksek rezolüsyonlu Grand Raiden spektrometresini kullanarak 0° spektrometre açısında “($^3\text{He}, ^3\text{He}'$) Reaction at 175 MeV/nucleon for the precise study of E1 response of nuclei” adlı deneye katılmak üzere, Attendee, Osaka, Japan, 2011
- II. THM Proton Hızlandırıcısı Alt Çalıştay’ına “Türk Hızlandırıcı Merkezi Proton Hızlandırıcısı Tesisinde Oluşturulması Planlanan 3 MeV’lik Test Stand için Vakum Gereksinimi” adlı sunum ile katılmak üzere, Attendee, Eskişehir, Turkey, 2011
- Neutron deficient exotic nuclei and the Physics of the "proton rich side" of the nuclear chart” adlı konferansa katılmak ve bilimsel araştırma yapmak üzere, Attendee, Valensiya, Spain, 2011
- ($^3\text{He}, ^3\text{He}'$) Reaction at 175 MeV/nucleon- for the precise study of E1 response of nuclei” adlı deneye katılmak üzere, Attendee, Osaka, Japan, 2010
- Combined Analysis of Isospin Mirror Transitions for the Study of Proton-Rich Exotic Nuclei” adlı deneye katılmak üzere, Attendee, Caen, France, 2010
- Turkish Physical Society 27th International Physics Congress - Sözlü Bildiri ile, Attendee, İstanbul, Turkey, 2010
- FINUSTAR3 (Frontiers in Nuclear Structure, Astrophysics and Reactions) adlı konferansa “High resolution study of Gamow-Teller transitions in ^{45}Sc nucleus” adlı poster bildirisi ile katılmak üzere, Attendee, Rodos, Greece, 2010
- Bilimsel araştırma yapmak üzere, Attendee, Tokyo, Turkey, 2010
- E315 “Investigation of M1 States and Assignment of Isospin for Fe and Ni Isotopes by Combining (p, p') and ($^3\text{He}, t$) Reactions”, E-322 “Measurement of ^{130}Te $\beta\beta$ -decay matrix element using high resolution ($^3\text{He}, t$) reaction” ve E-326 “Pigmy E1 and giant M1 resonances in N=50 isotones, ^{88}Sr , ^{90}Zr and ^{92}Mo ” adlı deneylere katılmak üzere, Attendee, Osaka, Turkey, 2009
- 7th International Student Conference of The Balkan Physical Union-Sözlü Bildiri ile, Attendee, Bodrum, Turkey, 2009
- ECT, “Strong, Weak and Electromagnetic Interactions to Probe Spin-Isospin Excitations”, adlı workshop' a dinleyici olarak, Attendee, Trento, Italy, 2009
- PAW (Physics Analysis Workstation) analiz programını öğrenmek üzere, Attendee, Osaka, Japan, 2009
- Bilimsel araştırma yapmak üzere, Attendee, New Haven, United States Of America, 2009
- E-302 “High Resolution Study of the $^{150}\text{Nd}(^3\text{He}, t)$ Reaction at 140 MeV/nucleon” ve E-307 “High-Resolution ($^3\text{He}, t$) Studies of Gamow-Teller Transitions From ^{44}Ca , ^{40}Ca and ^{50}Ti nuclei” adlı deneylere katılmak üzere, Attendee, Osaka, Japan, 2008
- E-556 “Combined Analysis of Isospin Mirror Transitions for the Study of Proton-Rich Exotic Nuclei” adlı deney e katılmak üzere, Attendee, Caen, France, 2008
- 6th International Student Conference of The Balkan Physical Union - Sözlü bildiri ile, Attendee, Bodrum, Turkey, 2008
- Summer School IV on Nuclear Collective Dynamics, Attendee, İstanbul, Turkey, 2008

Scholarships

2013 Yılı - 2214-A - Yurt Dışı Doktora Sırası Araştırma Burs Programı, TÜBİTAK, 2014 - 2015

Awards

SÜSOY DOĞAN G., Prof.Dr. Şevket Erk Genç Bilim İnsanı Ödülü, Türk Fizik Derneği, September 2016

SÜSOY DOĞAN G., En İyi Deneysel Poster Ödülü, FINUSTAR 3 (3rd International Conference on Frontiers in Nuclear Structure, Astrophysics and Reactions) adlı konferans, July 2010

Non Academic Experience

Osaka Üniversitesi - RCNP Araştırma Merkezi