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### Kişisel Bilgiler

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### Makaleler (YOKSIS)

- 1 A Novel Method of Analyzing a Reaction Using the Data from Particle and Gamma-ray Detectors**  
ÇELİK İLKER CAN  
European Journal of Science and Technology,<http://dx.doi.org/10.31590/ejosat.997947>
- 2 Analysis of ionizing charged-particle shielding and range: compilation for space exploration, medical physics, and nuclear safety**  
ÇELİK İLKER CAN  
The European Physical Journal Plus,[10.1140/epjp/s13360-025-06345-6](https://doi.org/10.1140/epjp/s13360-025-06345-6)
- 3 Assessment of Environmental Radioactivity and Health Hazard in Soil, Water, and Stone Samples in Siverek Town of Sanliurfa Province in Southeastern Turkey**  
ÇELİK İLKER CAN, KOŞAL MEHMET  
Procedia Computer Science  
(Elsevier),<https://www.sciencedirect.com/science/article/pii/S1877050919311937?via3Dihub>
- 4 Case Study of 137Cs: Optimizing Counting Conditions with Different Background Region Width Selection**  
ÇELİK İLKER CAN, Dağlı Kadir  
European Journal of Science and Technology,<https://dergipark.org.tr/en/download/article-file/2391692>
- 5 Case study of Er- and Dy-doped Boron-Aluminosilicate Glasses on Radiation Shielding Performance in the Energy Range 0.015-10 MeV with MCNP6.2**  
ÇELİK İLKER CAN,KAMIŞLIOĞLU MİRAC, YORULMAZ NURİ, YAŞAR MEHMET MURAT, DURGUN MUSTAFA  
Radiation Physics and  
Chemistry,<https://www.sciencedirect.com/science/article/pii/S0969806X24000434?dgcid=author>
- 6 Determination of Gamma-Ray Abundance in Photopeaks with Analytic and Numeric Approaches via CERN's ROOT Analysis Framework**  
ÇELİK İLKER CAN  
European Journal of Science and Technology,<https://dergipark.org.tr/en/download/article-file/2391730>

- 7 Enhanced gamma-ray attenuation and interfacial chemical bonding in cerium oxide-coated textiles**  
ÇELİK İLKER CAN, GÖZÜBENLİ NUMAN  
Radiation Effects and Defects in Solids, <https://doi.org/10.1080/10420150.2026.2636834>
- 8 Experimental study of high-lying states in Mg28 using the resonant elastic scattering of alpha particles**  
Joseph Walshe, martin freer, Wheldon C., Soylu A., Achouri N.L., Ashwood N.I., Catford W.N., ÇELİK İLKER CAN, Curtis N., Delaunay F., Fernandez-Dominguez B., Grassi L., Kokalova Tz., Marques F.M., Orr N.A., Prepolec L., Scuderi V., Soic N., Tokic V.  
Physical Review C, <https://link.aps.org/doi/10.1103/PhysRevC.94.054304>
- 9 Gamma-ray angular distribution analysis of transfer reaction data for excited states of 26Na**  
ÇELİK İLKER CAN  
AIP Conference Proceedings, <https://doi.org/10.1063/1.5135453>
- 10 Investigating Single-Particle Structure in 26Na Using the New SHARC Array**  
Wilson G. L., Watford W. N., Diget C. Aa., Orr N.A., Matta Adrien, Hackman G., Williams S.J., Simpson E.C., ÇELİK İLKER CAN, Achouri N.L., Adsley p., Al-Falou h., Ashley R., Austin R.A.E., Ball G.C., Blackmon J.C., Boston A.J., Boston H.C., Brown S.M., Cross D.S., Djongolov M., Drake T.E., Hager U., Fox S.P., Fulton B.R., Galinski N., Garnsworthy A.B., Jamieson D., Kanungo R., Leach K., Orce J.N., Pearson C.J., Porter-Peden M., Sarazin F., Sjue S., Smalley D., Sumithrarachchi C., Triambak S., Unsworth C., Wadsworth R.  
JPS Conference Proceedings, <https://journals.jps.jp/doi/10.7566/JPSCP.6.020004>
- 11 Shell evolution approaching the N = 20 island of inversion: Structure of 26 Na**  
Wilson G.L., Catford Wilton, Orr Nigel, Matta Adrien, ÇELİK İLKER CAN, Hackman G., Williams S.J., Achouri N.L., Al Falou H., Ashley R., Austin R.A.E., Ball G.C., Blackmon J.C., Boston A.J., Brown S.M., Cross D.S., Djongolov M., Drake T.E., Hager U., Fox S.P., Fulton B.R., Galinski N., Garnsworthy A.B., Jamieson D., Kanungo R., Diget C. Aa., Leach K.G., Orce J.N., Pearson C.J., Porter-Peden M., Sarazin F., Simpson E.C., Sjue S., Smalley D., Sumithrarachchi C., Triambak S., Unsworth C., Unsworth R.  
Physics Letters B, <http://linkinghub.elsevier.com/retrieve/pii/S0370269316302489>
- 12 Signal processing in gamma-ray spectroscopy**  
ÇELİK İLKER CAN  
AIP conference proceedings, <https://pubs.aip.org/aip/acp/article-abstract/2872/1/060014/2913567/Signal-processing-in-gamma-ray-spectroscopy?redirectedFrom=fulltext>
- 13 Structure of 26Na via a Novel Technique Using (d,p gamma ) with a Radioactive 25Na Beam**  
Catford WN, ÇELİK İLKER CAN, Wilson GL, Adrien Matta, Orr NA, Diget C.Aa., Adsley P., Al-Falou H., Ashley R., Austin R.A.E., Ball G.C., Blackmon J.C., Boston A.J., Boston H.C., Brown S.M., Cross D.S., Djongolov M., Drake T.E., Hager U., Fox S.P., Fulton B.R., Galinski N., Garnsworthy A.B., Hackman G., Jamieson D., Kanungo R., Leach K., Martin J-P., Orce J.N., Pearson C.J., Porter-Peden M., Sarazin F., Sjue S., Sumithrarachchi C., Svensson C.E., Triambak S., Unsworth C., Wadsworth R., Williams S.J.  
Acta Physica Polonica B, <http://www.actaphys.uj.edu.pl/vol46/abs/v46p0527>
- 14 The extended energy regime of 26Na via transfer reaction in inverse kinematics**  
ÇELİK İLKER CAN, Watford W. N., Matta Adrien, Wilson G.L.  
AIP conference proceedings, <https://pubs.aip.org/aip/acp/article-abstract/2178/1/030054/772990/The-extended-energy-regime-of-26Na-via-transfer?redirectedFrom=fulltext>
- 15 The thick target inverse kinematics technique with a large acceptance silicon detector array**

- 15 ÇELİK İLKER CAN,Walshe J.,Freer M.,Wheldon C.,Achouri L.N.,Ashwood N.I.,Catford W.N.,Curtis N.,Delaunay F.,Fernandez-Dominguez B.,Grassi L,Kokalova TZ.,Marques M.,Orr N.A.,Prepolec L.,Scuderi V.,Soic N.,Tokic V.  
Journal of Physics: Conference Series,<https://iopscience.iop.org/article/10.1088/1742-6596/569/1/012052>
- 16 **The Usage of ROOT in Analyzing Gamma-rays with Covell and Total Peak Area Methods**  
ÇELİK İLKER CAN  
European Journal of Science and Technology,<http://dx.doi.org/10.31590/ejosat.997976>

## **Bildiriler (YOKSIS)**

- 1 **Determination of Natural Radioactivity for Agricultural Products in The Karaali Region of Sanliurfa Province**  
YORULMAZ NURİ,YAŞAR MEHMET MURAT,KOŞAL MEHMET,ÇELİK İLKER CAN  
1. Harran Uluslararası Multidisipliner Çalışmalar Kongresi ,
- 2 **Spectroscopic Studies of the N=16/N=20/N=28 Shell Gaps via (d,p) Transfer**  
ÇELİK İLKER CAN  
Heavy Ion Accelerator Symposium for Fundamental and Applied Research, 14th – 18th September 2015 , [https://inis.iaea.org/search/search.aspx?orig\\_q=RN:51060743](https://inis.iaea.org/search/search.aspx?orig_q=RN:51060743)