



## PROF. HAYDAR ALICI

### Kişisel Bilgiler

**Eposta:** haydara@harran.edu.tr

**Birimi :** Uygulamalı Matematik

**Dahili :** 3599

### Makaleler (YOKSIS)

- 1 Explicit general solution of the squared secant potential and some consequences**  
ALICI HAYDAR  
The Ramanujan Journal,<http://dx.doi.org/10.1007/s11139-023-00748-8>
- 2 General Solution of the Schrödinger Equation for Some Hyperbolic Potentials**  
ALICI HAYDAR, TANRIVERDİ TANFER  
Few-Body Systems,<http://dx.doi.org/10.1007/s00601-020-01575-z>
- 3 General solution of the Schrödinger equation for some trigonometric potentials**  
ALICI HAYDAR, TANRIVERDİ TANFER  
Journal of Mathematical Chemistry,<http://dx.doi.org/10.1007/s10910-020-01120-7>
- 4 Highly Accurate Pseudospectral Approximations of the Prolate Spheroidal Wave Equation for Any Bandwidth Parameter and Zonal Wavenumber**  
ALICI HAYDAR, Shen Jie  
Journal of Scientific Computing,<http://link.springer.com/10.1007/s10915-016-0321-7>
- 5 Highly Efficient and Accurate Spectral Approximation of the Angular Mathieu Equation for any Parameter Values  $q$**   
ALICI HAYDAR, Shen Jie  
Journal of Mathematical Study,[http://www.global-sci.org/intro/articles\\_list.html?journal=undefinedvolume\\_id=1445](http://www.global-sci.org/intro/articles_list.html?journal=undefinedvolume_id=1445)
- 6 On vibrational levels of the Deng-Fan molecular potential**  
ALICI HAYDAR, ULUSOY SEVAL  
Physica Scripta,<https://doi.org/10.1088/1402-4896/adc15f>
- 7 Pseudospectral methods for solving an equation of hypergeometric type with a perturbation**  
ALICI HAYDAR, TASELİ HASAN

- 7 Journal of Computational and Applied Mathematics,<http://linkinghub.elsevier.com/retrieve/pii/S0377042709003525>
- 8 **The Hermite pseudospectral method for the two dimensional Schrödinger equation with nonseparable potentials**  
ALICI HAYDAR  
Computers Mathematics with Applications,<http://linkinghub.elsevier.com/retrieve/pii/S0898122115000048>
- 9 **The Laguerre pseudospectral method for the radial Schrödinger equation**  
ALICI HAYDAR, TASELI HASAN  
Applied Numerical Mathematics,
- 10 **The Laguerre Pseudospectral Method for the Reflection Symmetric Hamiltonians on the Real Line**  
TASELI HASAN, ALICI HAYDAR  
Journal of Mathematical Chemistry,<http://link.springer.com/10.1007/s10910-006-9083-z>
- 11 **The Laguerre pseudospectral method for the two-dimensional Schrödinger equation with symmetric nonseparable potentials**  
ALICI HAYDAR  
Hacettepe Journal of Mathematics and Statistics,<http://dx.doi.org/10.15672/hujms.459593>
- 12 **The scaled Hermite Weber basis in the spectral and pseudospectral pictures**  
TASELI HASAN, ALICI HAYDAR  
Journal of Mathematical Chemistry,<http://link.springer.com/10.1007/s10910-005-5826-5>
- 13 **Unification of Stieltjes Calogero type relations for the zeros of classical orthogonal polynomials**  
ALICI HAYDAR, TASELI HASAN  
Mathematical Methods in the Applied Sciences,<http://onlinelibrary.wiley.com/doi/10.1002/mma.3285/epdf>

## **Bildiriler (YOKSIS)**

- 1 **Explicit Representations for a Class of Gauss Hypergeometric Functions**  
ALICI HAYDAR  
9th International Conference on Computational Mathematics and Engineering Sciences / 17 - 19 May. 2025, Diyarbakır – Türkiye ,
- 2 **Highly Accurate Pseudospectral Approximations of the Prolate Spheroidal Wave Equation for Any Bandwidth Parameter and Zonal Wavenumber.**  
ALICI HAYDAR, Shen Jie  
30. Ulusal Matematik Sempozyumu ,
- 3 **Pseudospectral methods for solving an equation of hypergeometric type with a perturbation**  
ALICI HAYDAR, TASELI HASAN  
13th International Congress on Computational and Applied Mathematics (Özet metni yayımlanmış uluslararası bildiri) ,
- 4 **Solutions of Two Exponential Type Potentials for Diatomic Molecules**  
ALICI HAYDAR

4 9th International Conference on Computational Mathematics and Engineering Sciences / 17 - 19 May. 2025, Diyarbakır – Türkiye ,

5 **The Laguerre Pseudospectral Method for the M Dimensional Radial Schrödinger Equation**

ALICI HAYDAR,TASELI HASAN

26. Ulusal Matematik Sempozyumu (Özet metni yayımlanmış ulusal bildiri) ,

6 **Unification of Stieltjes-Calogero type relations for the zeros of classical orthogonal polynomials**

ALICI HAYDAR,TASELI HASAN

24. Ulusal Matematik Sempozyumu (Özet metni yayımlanmış ulusal bildiri) ,