

[Sign in](#)

You are currently on the new version of our website. Access the old version [here](#).



[Home](#) > [News & Conferences](#) > [Atoms | Highly Cited Papers in 2024–2025](#)



atoms

Highly Cited Papers in 2024–2025

an Open Access Journal by MDPI



Atoms | Highly Cited Papers in 2024–2025

29 September 2026



1. “A Critical Look at Density Functional Theory in Chemistry: Untangling Its Strengths and Weaknesses”

by Konstantinos P. Zois and Demeter Tzeli

Atoms **2024**, *12*(12), 65; <https://doi.org/10.3390/atoms12120065>

Available online: <https://www.mdpi.com/2218-2004/12/12/65>

2. “Energy Shift of the Atomic Emission Lines of He-like Ions Subject to Outside

[Sign in](#)

Atoms **2024**, *12*(1), 4; <https://doi.org/10.3390/atoms12010004>

Available online: <https://www.mdpi.com/2218-2004/12/1/4>

3. “Efficient Time-Dependent Method for Strong-Field Ionization of Atoms with Smoothly Varying Radial Steps”

by Nicolas Douguet, Mikhail Guchkov, Klaus Bartschat and Samantha Fonseca dos Santos

Atoms **2024**, *12*(7), 34; <https://doi.org/10.3390/atoms12070034>

Available online: <https://www.mdpi.com/2218-2004/12/7/34>

4. “Triaxial Shapes in Even–Even Nuclei: A Theoretical Overview”

by Dennis Bonatsos, Andriana Martinou, Spyridon K. Peroulis, Dimitrios Petrellis, Polytimos Vasileiou, Theodoros J. Mertzimekis and Nikolay Minkov

Atoms **2025**, *13*(6), 47; <https://doi.org/10.3390/atoms13060047>

Available online: <https://www.mdpi.com/2218-2004/13/6/47>

5. “UK APAP R-Matrix Electron-Impact Excitation Cross-Sections for Modelling Laboratory and Astrophysical Plasma”

by Giulio Del Zanna, Guiyun Liang, Junjie Mao and Nigel R. Badnell

Atoms **2025**, *13*(5), 44; <https://doi.org/10.3390/atoms13050044>

Available online: <https://www.mdpi.com/2218-2004/13/5/44>

6. “Enhancement of the NORAD-Atomic-Data Database in Plasma”

by Sultana N. Nahar and Guillermo Hinojosa-Aguirre

Atoms **2024**, *12*(4), 22; <https://doi.org/10.3390/atoms12040022>

Available online: <https://www.mdpi.com/2218-2004/12/4/22>

7. “Theoretical Spectra of Lanthanides for Kilonovae Events: Ho I–III, Er I–IV, Tm I–V, Yb I–VI, Lu I–VII”

by Sultana N. Nahar

Atoms **2024**, *12*(4), 24; <https://doi.org/10.3390/atoms12040024>

Available online: <https://www.mdpi.com/2218-2004/12/4/24>

8. “Atomic Models of Dense Plasmas, Applications, and Current Challenges”

[Sign in](#)

Available online: <https://www.mdpi.com/2218-2004/12/4/26>

9. “Relativistic Atomic Structure Calculations for the Study of Electron Dynamics of Sr⁺ Ion Confined Inside Fullerene”

by Biplab Goswami, Mobassir Ahmad, Jobin Jose and Raghavan K. Easwaran

Atoms **2025**, *13*(4), 36; <https://doi.org/10.3390/atoms13040036>

Available online: <https://www.mdpi.com/2218-2004/13/4/36>

10. “Experimental Cross Sections for Electron-Impact Single, Double, and Triple Ionization of La⁺”

by B. Michel Döhring, Alexander Borovik, Florian Gocht, Kurt Huber and Stefan Schippers

Atoms **2025**, *13*(2), 14; <https://doi.org/10.3390/atoms13020014>

Available online: <https://www.mdpi.com/2218-2004/13/2/14>

Tu Youyou Award—Final Call for Nominations

[← Previous](#)

MDPI INSIGHTS: The CEO’s Letter #39 - Peer Review Week, Chief Publishing Officer, Tu Youyou Award, OASPA & AI

[Next →](#)

Discover

[Articles](#)

[Journals](#)

[Research Awards](#)

[Open Access Policy](#)

Services

[Author Services](#)

[Conferences](#)

[Societies](#)

[Products & Solutions](#)

[Books](#)



Sign in



For Authors

For Reviewers

For Editors

For Librarians

About Us

Careers

Press Office

Blog

Support

Pay an Invoice

Processing Charges

Discount Policy

Contact Us



© 2026 MDPI (Basel, Switzerland) unless otherwise stated.

[Accessibility](#)
[Terms and Conditions](#)
[Terms of Use](#)
[Legal Notice](#)
[Privacy Policy](#)

[Privacy Settings](#)
[Disclaimer](#)