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Publication List

Peer-Reviewed Journal Articles

Publications are listed in reverse chronological order. The applicant's name is shown in bold. Total: **6 peer-reviewed journal articles**.

1. **A. Desai** et al. (2026). "Circumstellar interaction in the extreme white dwarf merger remnant ZTF J1901+1458: A new class of white dwarf merger remnants with X-ray emission." *Astronomy & Astrophysics*. Published online 7 July 2026.
[doi:10.1051/0004-6361/202557035](https://doi.org/10.1051/0004-6361/202557035)
First author.
2. A. Torralba et al., including **A. Desai** (2026). "A Black Hole Star at Cosmic Noon: Extreme Balmer Break, Photospheric Continuum, and Broad Absorption by Thick Winds in a Little Red Dot at $z = 1.7$." *The Astrophysical Journal Letters*, **1005**(2), L37.
[doi:10.3847/2041-8213/ae7bfd](https://doi.org/10.3847/2041-8213/ae7bfd)
Seventh author of 15.
3. B. R. B. Liagre, **A. Desai**, L. Einramhof, and L. Bugnet (2026). "Near-degeneracy effects in quadrupolar mixed modes." *Astronomy & Astrophysics*, **707**, A321.
[doi:10.1051/0004-6361/202558023](https://doi.org/10.1051/0004-6361/202558023)
Second author of four.
4. A. A. Cristea et al., including **A. Desai** (2026). "A half ring of ionized circumstellar material trapped in the magnetosphere of a white dwarf merger remnant." *Astronomy & Astrophysics*, **706**, A188.
[doi:10.1051/0004-6361/202556432](https://doi.org/10.1051/0004-6361/202556432)
Seventh author.
5. M. Zu, **A. Desai**, and C. P. Goodrich (2025). "Fully Independent Response in Disordered Solids." *Physical Review Letters*, **134**(23), 238201.
[doi:10.1103/PhysRevLett.134.238201](https://doi.org/10.1103/PhysRevLett.134.238201)
Second author of three.
6. S. Chatterji et al., including **A. Desai** (2020). "A Highschooler's Guide to GeV-Range Electromagnetism." *The Physics Educator*, **2**(3), 2050013.
[doi:10.1142/S2661339520500134](https://doi.org/10.1142/S2661339520500134)
Second author.