# ANDREW K. SAYDJARI

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#### **PUBLICATIONS**

I am an author on 19+ papers that have 409+ citations (h-index=11). This includes:

**8+ papers** as **(co-)lead author** with 183+ citations

**5+ papers** with **significant contributions** with 187+ citations

Most of my papers can be found online on <u>ADS</u>, though citations outside astronomy are missing. My ORCID is 0000-0002-6561-9002.

# Publications as (Co-)Lead Author:

1. Saydjari, A. K.; Zucker, C.; Peek, J. E. G.; Finkbeiner, D. P.

2022, arXiv:2212.03879 (accepted ApJ)

Grad

Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra: Obtaining a Clean Catalog by Marginalizing over Stellar Types

2. **Saydjari, A. K.**; Schlafly, E. F.; Lang, D.; Meisner, A. M.; Green, G. M.; Zucker, C.; Zelko, I.; Speagle, J. S.; Daylan, T.; Lee, A.; Valdes, F.; Schlegel, D.; Finkbeiner, D. P.

2023, ApJS, 264, 2.

Grad

The Dark Energy Camera Plane Survey 2 (DECaPS2): More Sky, Less Bias, and Better Uncertainties

3. Saydjari, A. K.; Finkbeiner, D. P.

2022, ApJ, 933, 155.

Grad

Photometry on Structured Backgrounds: Local Pixel-wise Infilling by Regression

4. Saydjari, A. K.; Finkbeiner, D. P.

2023, TPAMI, 45, 2.

Grad

Equivariant Wavelets: Fast Rotation and Translation Invariant Wavelet Scattering Transforms

5. **Saydjari, A. K.**; Portillo, S. K. N.; Slepian, Z.; Kahraman, S.; Burkhart, B.; Finkbeiner, D. P. 2021, ApJ, 910, 122.

Classification of Magnetohydrodynamic Simulations using Wavelet Scattering Transforms

6. Saydjari, A. K. & Weis, P.; Wu, S.

2016, Adv. Energy Mat., 7, 1601622.

Undergrad

Spanning the Solar Spectrum: Azopolymer Solar Thermal Fuels for Simultaneous UV and Visible Light Storage

**Cover Article:** AEM

7. Saydjari, A. K.; Pietron, J. J.; Simpkins, B. S.

2015, Electroanalysis., 27, 1960-1967.

HS

Electrochemical Deposition and Spectroelectro-chemical Response of Bromophenol Blue Films on Gold

8. Saydjari, A. K.; Long, J.; Dressick, W.; Simpkins, B. S.

2014, Chem. Phys. Lett., 608, 328-333.

HS

Optical Interference Effect Corrections for Absorbance Spectra of Layer-by-Layer Thin Films Bearing Covalently Bound Dye

### **Publications with Significant Contributions:**

9. Lesser, O.; Saydjari, A. K.; Wesson M.; Yacoby, A.; Oreg, Y.

2021, PNAS, 118, 27.

Grad

Phase-induced topological superconductivity in a planar heterostructure

10. Alegria, L.D.; Bøttcher, C.G.; **Saydjari, A. K.;** Pierce, A.T.; Lee, S.H.; Harvey, S.P.; Vool, U.; Yacoby, A.;

2021, Nature Nanotechnology, 16, 404-408.

Grad

High-energy quasiparticle injection into mesoscopic superconductors

11. Charboneau, D.J.; Brudvig, G.W.; Hazari, N.; Lant, H.M.C; Saydjari, A. K.

2019, ACS Catal., 9, 3228-3241.

Undergrad

Development of an Improved System for the Carboxylation of Aryl Halides through Mechanistic Studies

12. McKee, A.; Solano, M.; Saydjari, A. K.; Bennett, C.J.; Hud, N.V.; Orlando, T.M.

2018, ChemBioChem, 19, 1-6.

Undergrad

A Possible Path to Prebiotic Peptides Involving Silica and Hydroxy Acid-Mediated Amide Bond Formation

Cover Article: <a href="mailto:ChemBioChem">ChemBioChem</a>

13. Wang, D.; Wagner, M.; Saydjari, A. K.; Wu, S.; Butt, H.

2017, Chem. Eur. J., 23, 2628-2634.

Undergrad

A Photoresponsive Orthogonal Supramolecular Complex Based on Host–Guest Interactions

### Publications as a Contributing Author:

14. Cantat-Gaudin, T. et al. [13 additional co-authors including Saydjari, A. K.]

2023, A&A, 669, A55.

Grad

An empirical model of the Gaia DR3 selection function

15. Sayres, C. et al. [12 additional co-authors including Saydjari, A. K.]

2022, Proceedings of the SPIE, 12184

Grad

SDSS-V robotic focal plane system: overview of coordinate systems and transforms

16. Speagle, J. S. & Zucker, C. [17 additional co-authors including Saydjari, A. K.]

2021, (accepted ApJ)

Grad

Mapping the Milky Way in 5-D with 170 Million Stars at High Galactic Latitudes

17. Speagle, J. S. & Zucker, C. [17 additional co-authors including Saydjari, A. K.]

2021, (submitted ApJ)

Grad

Deriving Stellar Properties, Distances, and Reddenings from Photometry and Astrometry with brutus.

18. Zasowski, G. [152 additional co-authors including Saydjari, A. K.]

2023, ApJS, 267, 44.

Grad

The Eighteenth Data Release of the Sloan Digital Sky Surveys: Targeting and First Spectra from SDSS-V

19. Edenhofer, G. [7 additional co-authors including Saydjari, A. K.]

2023, arXiv:2308.01295 (submitted A&A)

Grad

A Parsec-Scale Galactic 3D Dust Map out to 1.25 kpc from the Sun

# White Papers with Significant Contributions:

20. Han, J.J. et al. [208 additional co-authors including **Saydjari, A. K.**] 2023, arXiv:2306.11784.

Grad

NANCY: Next-generation All-sky Near-infrared Community surveY

21. Paladini, R. et al. [69 additional co-authors including **Saydjari, A. K.**] 2023, arXiv:2307.07642.

Grad

Roman Early-Definition Astrophysics Survey Opportunity: Galactic Roman Infrared Plane Survey (GRIPS)