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RESEARCH INTERESTS

Small bodies; Binary asteroids; Solar System dynamics; Collisional processes; High-performance computing

APPOINTMENTS

Postdoctoral Fellow IdEx UCA Excellence Fellowship Université Côte d’Azur, Observatoire de la Côte d’Azur, Nice, France Project: <i>The Formation of Small Satellites in the Solar System</i>	Oct. 2023 - Present
Postdoctoral Researcher Université Côte d’Azur, Observatoire de la Côte d’Azur, Nice, France Advisor: Dr. Patrick Michel	Mar. 2023 - Oct. 2023
Postdoctoral Researcher University of Maryland , College Park, MD	Sept. 2022 - Mar. 2023

EDUCATION

Ph.D. , Astronomy University of Maryland , College Park, MD Thesis: <i>The Dynamics of Binary Asteroids Applied to DART Mission Target (65803) Didymos</i> Advisor: Prof. Derek Richardson	2022
M.S. , Astronomy University of Maryland , College Park, MD	2019
B.A. , Physics, B.A. , Astrophysics University of California , Berkeley, CA	2017

FELLOWSHIPS AND AWARDS

NASA Lucy Mission Participating Scientist Selected as a participating scientist (co-I) on Lucy, with 5 years of CNES support.	2025
Université Côte d’Azur IdEx Young Researcher Award 2nd place, IdEx “Young Researcher Awards”, €5000	2025
Excellence Fellowships for Young Researchers Université Côte d’Azur Initiative d’Excellence (IdEx) Postdoctoral Fellowship Total award: 118k€ over 2 years.	2023
Bonus Qualité Recherche (BQR) Lagrange <i>The tidal disruption of Phobos</i> , Award: 1.5k€	2024
Asteroid 28888 (2000 KS60) named Agrusa Asteroids, Comets, Meteors meeting, link to JPL Small-Body Database	2023
Dean’s Fellow , University of Maryland College of Computer, Mathematical, and Natural Sciences, \$2500 award	2021
Outstanding Research Assistant Award , University of Maryland Graduate School Named among the top 2% of campus Graduate Assistants.	2020

Updated: June 9, 2025

John Chi-Lin Wang Award , Department of Astronomy, University of Maryland	2020
Awarded to the third-year graduate student with the best overall performance in course grades, second-year research project, and qualifying exam.	
Dean's Fellowship , University of Maryland Graduate School	2017
\$10,000 graduate recruitment fellowship	
Jacob K. Goldhaber Travel Award , University of Maryland	2022
Student Travel Award , AAS Division on Dynamical Astronomy	2022
Student Travel Award , Binary Asteroids 5 Workshop	2019
Student Poster Award , Lawrence Livermore National Laboratory	2019

SPACE MISSION INVOLVEMENT

- Participating Scientist, NASA Lucy Mission (Co-Investigator)
- Investigation Team Member, NASA Double Asteroid Redirection Test (DART) Mission
- Investigation Team Member, ESA Hera Mission
- Co-Investigator, JAXA Martian Moons eXploration (MMX) Mission
- Co-Investigator, JAXA Hayabusa2# Mission
- Science Team Member, ESA RAMSES (Rapid Apophis Mission for Space Safety) mission

SELECTED MEDIA COVERAGE

2025

The Guardian, [China opens recruitment for “planetary defence force” amid fears of asteroid hitting Earth](#)

2024

The Economist, [China plans to crash a spacecraft into a distant asteroid](#)

National Geographic, [Could a nuclear bomb's x-rays save Earth from a killer asteroid?](#)

Nature, [A spaceship punched an asteroid — we're about to learn what came next](#)

2023

New Scientist, [Asteroid hit by NASA spacecraft is behaving unexpectedly](#)

Space.com, [Here's what we've learned from NASA's DART asteroid-slamming mission so far](#)

Physics Today, [The rocky lives of cosmic rubble piles](#)

2022

Scientific American, [NASA's DART Spacecraft Successfully Smacks a Space Rock—Now What?](#)

Science, [‘Holy \\$@*%!’ Science captures behind-the-scenes reactions to asteroid-smashing mission](#)

The Wall Street Journal, [NASA's Asteroid-Smashing DART Mission Deemed a Success](#)

The Wall Street Journal, [NASA's DART Spacecraft Slams Into Asteroid in Effort to Alter Its Orbit](#)

WIRED Magazine, [Behold the Weird Physics of Double-Impact Asteroids](#)

KTVB, [Smashing success: NASA asteroid strike results in big nudge](#)

KTVB, [Eagle High grad helps with NASA Dart experiment](#)

2021

MIT Technology Review, [NASA is going to slam a spacecraft into an asteroid. Things might get chaotic.](#)

BBC World Service Newday, [NASA: Mission to smash into Dimorphos space rock launches](#) **CW39**

Houston/KIAH, [NASA's DART Mission kicks off with successful launch on its way to hit asteroid](#)

Federal News Network, [Redirecting an asteroid as practice ... just in case](#)

iHeartRadio 610 WIOD, [Live radio interview for launch of NASA's DART Mission](#)

Stories from a Space Journalist Podcast, [Interview from Episode 4](#)

2019

European Space Agency, [Will DART make its target asteroid go wobbly? Hera will see](#)

HPCwire Magazine, [With the Help of HPC, Astronomers Prepare to Deflect a Real Asteroid](#)

INVITED TALKS

SETI PATHS Seminar, Mountain View, CA	2025
Southwest Research Institute Colloquium, Boulder, CO	2024
AAS Division on Dynamical Astronomy Annual Meeting	2023
University of Maryland Aerospace Engineering Seminar	2022
University of Maryland Planetary Astronomy Seminar	2019

PROFESSIONAL SERVICE

Journal referee

Icarus (6 manuscripts), *Planetary Science Journal* (4), *Astronomy & Astrophysics* (3), *Planetary and Space Science* (1), *Acta Astronautica* (1)

Panel Reviews

Reviewer, NASA Participating Scientist Program

Executive Secretary, NASA Participating Scientist Program

Thesis Examinations

External Opponent, Ph.D. Thesis Nov. 2023
Alex Ho, University of Agder, Grimstad, Norway, Thesis Advisor: Prof. Margrethe Wold
Title: *Modeling asteroid binary systems with the full two-body problem using surface integrals*

External Examiner, Master's Thesis Dec. 2023
Irene Fernández, Politecnico di Milano, Milan, Italy Thesis Advisor: Prof. Fabio Ferrari
Title: *Post-impact dynamics of the Didymos system with a heterogeneous internal structure*

RESEARCH ADVISING

Camille Chatenet , Master's student (M2), Université de Nantes	Spring 2024
<i>Numerical modeling of the Didymos system after DART</i> , co-advised with Dr. Patrick Michel	
Alyssa Mazzone , undergraduate, University of Maryland	Spring 2022
<i>Binary asteroid formation via YORP spin-up</i> , co-advised with Prof. Derek Richardson	
Peter Santana , undergraduate, University of Puerto Rico at Mayagüez	Winter 2020
<i>Formation of binary asteroids through gravitational reaccumulation</i> , GRADMAP Workshop	
Meghna Sitaram , undergraduate, University of Maryland	Fall 2019 - Spring 2020
<i>Tidal dissipation in rubble-pile asteroids</i> , co-advised with Prof. Derek Richardson	

TEACHING EXPERIENCE

Teaching Assistantships:

ASTR 320: Theoretical Astrophysics, UMD	Spring, 2021
ASTR 101: Introduction to General Astronomy, UMD	Spring, 2020
ASTR 101: Introduction to General Astronomy, UMD	Spring, 2019
ASTR 415: Computational Astrophysics, UMD	Fall, 2018
ASTR 100/101: Introduction to General Astronomy, UMD	Fall, 2018
ASTR 220: Collisions in Space: The Threat of Asteroid Impacts, UMD	Spring, 2018
ASTR 100/101: Introduction to General Astronomy, UMD	Fall, 2017
Astro 12: The Planets, UC Berkeley	Spring, 2016
Astro 10: General Astronomy, UC Berkeley	Fall, 2016

Book Chapters

3. Eiblum, D., Lee, E. C., Forman, M., Mann, N., **Agrusa, H. F.**, Kaplan-Cohen, M., Miller, W., Vishnubhotla, R., and Zheng, D. **2022**. GED Ultimate Study Guide: for the Math-Phobic. Gaithersburg, MD: Superlative Press.
2. Eiblum, D., Lee, E. C., Forman, M., Mann, N., **Agrusa, H. F.**, Kaplan-Cohen, M., Miller, W., Vishnubhotla, R., and Zheng, D. **2021**. Praxis Core Math 5733: A Workbook for the Math Phobic. Gaithersburg, MD: Superlative Press.
1. Eiblum, D., Lee, E. C., Forman, M., Mann, N., **Agrusa, H. F.**, Kaplan-Cohen, M., Miller, W., Vishnubhotla, R., and Zheng, D. **2020**. Praxis Core Math 2020: A Complete Course. Gaithersburg, MD: Superlative Press.

OTHER

Skills

Proficient in Python, C, Matlab, Unix, L^AT_EX

Languages

English: native

French: beginner (A2)

REFEREED PUBLICATIONS

First Author

5. **Agrusa, H. F.**, Zhang, Y., Richardson, D. C., Pravec, P., Čuk, M., Michel, P., Ballouz, R.-L., Jacobson, S. A., Scheeres, D. J., Walsh, K., Barnouin, O., Daly, R. T., Palmer, E., Pajola, M., Lucchetti, A., Tusberty, F., DeMartini, J. V., Ferrari, F., Meyer, A. J., Raducan, S. D., and Sánchez, P. **2024**. “[Direct N-body Simulations of Satellite Formation around Small Asteroids: Insights from DART’s Encounter with the Didymos System](#).” *PSJ* 5.2, 54, p. 54. DOI: [10.3847/PSJ/ad206b](#).
4. **Agrusa, H. F.**, Ballouz, R., Meyer, A. J., Tasev, E., Noiset, G., Karatekin, Ö., Michel, P., Richardson, D. C., and Hirabayashi, M. **2022**. “[Rotation-induced granular motion on the secondary component of binary asteroids: Application to the DART impact on Dimorphos](#).” *A&A* 664, L3, p. L3. DOI: [10.1051/0004-6361/202244388](#).
3. **Agrusa, H. F.**, Ferrari, F., Zhang, Y., Richardson, D. C., and Michel, P. **2022**. “[Dynamical Evolution of the Didymos-Dimorphos Binary Asteroid as Rubble Piles following the DART Impact](#).” *PSJ* 3.7, 158, p. 158. DOI: [10.3847/PSJ/ac76c1](#).
2. **Agrusa, H. F.**, Gkolias, I., Tsiganis, K., Richardson, D. C., Meyer, A. J., Scheeres, D. J., Čuk, M., Jacobson, S. A., Michel, P., Karatekin, Ö., Cheng, A. F., Hirabayashi, M., Zhang, Y., Fahnestock, E. G., and Davis, A. B. **2021**. “[The excited spin state of Dimorphos resulting from the DART impact](#).” *Icarus* 370, 114624, p. 114624. DOI: [10.1016/j.icarus.2021.114624](#).
1. **Agrusa, H. F.**, Richardson, D. C., Davis, A. B., Fahnestock, E., Hirabayashi, M., Chabot, N. L., Cheng, A. F., Rivkin, A. S., Michel, P., and DART Dynamics Working Group. **2020**. “[A benchmarking and sensitivity study of the full two-body gravitational dynamics of the DART mission target, binary asteroid 65803 Didymos](#).” *Icarus* 349, 113849, p. 113849. DOI: [10.1016/j.icarus.2020.113849](#).

Second Author or Major Role

10. Ballouz, R. L., **Agrusa, H.**, Barnouin, O. S., Walsh, K. J., Zhang, Y., Binzel, R. P., Bray, V. J., DellaGiustina, D. N., Jawin, E. R., DeMartini, J. V., Marusiak, A., Michel, P., Murdoch, N., Richardson, D. C., Rivera-Valentín, E. G., Rivkin, A. S., and Tang, Y. **2024**. “[Shaking and Tumbling: Short- and Long-timescale Mechanisms for Resurfacing of Near-Earth Asteroid Surfaces from Planetary Tides and Predictions for the 2029 Earth Encounter by \(99942\) Apophis.](#)” *PSJ* 5.11, 251, p. 251. DOI: [10.3847/PSJ/ad84f2](#).
9. Barnouin, O., Ballouz, R.-L., Marchi, S., Vincent, J.-B., **Agrusa, H.**, Zhang, Y., Ernst, C. M., Pajola, M., Tusberty, F., Lucchetti, A., Daly, R. T., Palmer, E., Walsh, K. J., Michel, P., Sunshine, J. M., Rizos, J. L., Farnham, T. L., Richardson, D. C., Parro, L. M., Murdoch, N., et al. **2024**. “[The geology and evolution of the Near-Earth binary asteroid system \(65803\) Didymos.](#)” *Nature Communications* 15, 6202, p. 6202. DOI: [10.1038/s41467-024-50146-x](#).
8. Ćuk, M., **Agrusa, H.**, Cueva, R. H., Ferrari, F., Hirabayashi, M., Jacobson, S. A., McMahon, J., Michel, P., Sánchez, P., Scheeres, D. J., Schwartz, S., Walsh, K. J., and Zhang, Y. **2024**. “[BYORP and Dissipation in Binary Asteroids: Lessons from DART.](#)” *PSJ* 5.7, 166, p. 166. DOI: [10.3847/PSJ/ad5d5e](#).
7. Daly, R. T., Ernst, C. M., Barnouin, O. S., Gaskell, R. W., Nair, H., **Agrusa, H.**, Chabot, N. L., Cheng, A. F., Dotto, E., Mazzotta Epifani, E., Espiritu, R. C., Farnham, T. L., Palmer, E. E., Pravec, P., Rivkin, A. S., Waller, D. C., Zinzi, A., DART Team, and LICIACube Team. **2024**. “[An Updated Shape Model of Dimorphos from DART Data.](#)” *PSJ* 5.1, 24, p. 24. DOI: [10.3847/PSJ/ad0b07](#).
6. Richardson, D. C., **Agrusa, H. F.**, Barbee, B., Cueva, R. H., Ferrari, F., Jacobson, S. A., Makadia, R., Meyer, A. J., Michel, P., Nakano, R., Zhang, Y., Abell, P., Merrill, C. C., Campo Bagatin, A., Barnouin, O., Chabot, N. L., Cheng, A. F., Chesley, S. R., Daly, R. T., Eggl, S., et al. **2024**. “[The Dynamical State of the Didymos System before and after the DART Impact.](#)” *PSJ* 5.8, 182, p. 182. DOI: [10.3847/PSJ/ad62f5](#).
5. Cheng, A. F., **Agrusa, H. F.**, Barbee, B. W., Meyer, A. J., Farnham, T. L., Raducan, S. D., Richardson, D. C., Dotto, E., Zinzi, A., Della Corte, V., Statler, T. S., Chesley, S., Naidu, S. P., Hirabayashi, M., Li, J.-Y., Eggl, S., Barnouin, O. S., Chabot, N. L., Chocron, S., Collins, G. S., et al. **2023**. “[Momentum transfer from the DART mission kinetic impact on asteroid Dimorphos.](#)” *Nature* 616.7957, pp. 457–460. DOI: [10.1038/s41586-023-05878-z](#).
4. Daly, R. T., Ernst, C. M., Barnouin, O. S., Chabot, N. L., Rivkin, A. S., Cheng, A. F., Adams, E. Y., **Agrusa, H. F.**, Abel, E. D., Alford, A. L., Asphaug, E. I., Atchison, J. A., Badger, A. R., Baki, P., Ballouz, R.-L., Bekker, D. L., Bellerose, J., Bhaskaran, S., Buratti, B. J., Cambioni, S., et al. **2023**. “[Successful kinetic impact into an asteroid for planetary defence.](#)” *Nature* 616.7957, pp. 443–447. DOI: [10.1038/s41586-023-05810-5](#).
3. Meyer, A. J., **Agrusa, H. F.**, Richardson, D. C., Daly, R. T., Fuentes-Muñoz, O., Hirabayashi, M., Michel, P., Merrill, C. C., Nakano, R., Cheng, A. F., Barbee, B., Barnouin, O. S., Chesley, S. R., Ernst, C. M., Gkolias, I., Moskovitz, N. A., Naidu, S. P., Pravec, P., Scheirich, P., Thomas, C. A., Tsiganis, K., and Scheeres, D. J. **2023**. “[The Perturbed Full Two-body Problem: Application to Post-DART Didymos.](#)” *PSJ* 4.8, 141, p. 141. DOI: [10.3847/PSJ/acebc7](#).
2. Richardson, D. C., **Agrusa, H. F.**, Barbee, B., Bottke, W. F., Cheng, A. F., Eggl, S., Ferrari, F., Hirabayashi, M., Karatekin, Ö., McMahon, J., Schwartz, S. R., Ballouz, R.-L., Bagatin, A. C., Dotto, E., Fahnestock, E. G., Fuentes-Muñoz, O., Gkolias, I., Hamilton, D. P., Jacobson, S. A., Jutzi, M., Lyzhoft, J., Makadia, R., Meyer, A. J., Michel, P., Nakano, R., Noiset, G., Raducan, S. D., Rambaux, N., Rossi, A., Sánchez, P., Scheeres, D. J., Soldini, S., Stickle, A. M., Tanga, P., Tsiganis, K., and Zhang, Y. **2022**. “[Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact.](#)” *PSJ* 3.7, 157, p. 157. DOI: [10.3847/PSJ/ac76c9](#).
1. Marohnic, J. C., Richardson, D. C., McKinnon, W. B., **Agrusa, H. F.**, DeMartini, J. V., Cheng, A. F., Stern, S. A., Olkin, C. B., Weaver, H. A., Spencer, J. R., and New Horizons Science Team. **2021**. “[Constraining the final merger of contact binary \(486958\) Arrokoth with](#)

soft-sphere discrete element simulations.” *Icarus* 356, 113824, p. 113824. DOI: [10.1016/j.icarus.2020.113824](https://doi.org/10.1016/j.icarus.2020.113824).

Other Publications

19. Ferrari, F., Paniciucci, P., Merisio, G., Giordano, C., Pugliatti, M., Li, J.-Y., Fahnestock, E., Raducan, S., Jutzi, M., Soldini, S., Hirabayashi, M., Merrill, C., Michel, P., Moreno, F., Tancredi, G., Sunshine, J., Ormo, J., Herreros, I., **Agrusa, H.**, Karatekin, O., Zhang, Y., Chabot, N., Cheng, A., Richardson, D., Rivkin, A., Bagatin, A., Farnham, T., Ivanovski, S., Lucchetti, A., Pajola, M., Rossi, A., Scheeres, D., and Tusberty, F. **2025**. “Morphology of ejecta features from the impact on asteroid Dimorphos.” *Nature Communications* (in press).
18. Hirabayashi, M., Raducan, S., Sunshine, J., Farnham, T., Deshapriya, P., Li, J.-Y., Tancredi, G., Chesley, S., Daly, T., Ernst, C., Gai, I., Hasselmann, P., Naidu, S., Nair, H., Palmer, E., Waller, D., Zinzi, A., **Agrusa, H.**, Barbee, B., Syal, M., Collins, G., Davison, T., DeCoster, M., Jutzi, M., Kumamoto, K., and Moskovitz, N. **2025**. “Elliptical ejecta of asteroid Dimorphos is due to its surface curvature.” *Nature Communications* (in press).
17. Stickle, A. M., Kumamoto, K. M., Graninger, D. M., DeCoster, M. E., Caldwell, W. K., Pearl, J. M., Owen, J. M., Barnouin, O., Collins, G. S., Daly, R. T., Herreros, I., Ormö, J., Sunshine, J., Ernst, C. M., Hirabayashi, T., Marchi, S., Parro, L., **Agrusa, H.**, Bruck Syal, M., Chabot, N. L., Cheng, A. F., Davison, T. M., Dotto, E., Fahnestock, E. G., Ferrari, F., Jutzi, M., Lucchetti, A., Luther, R., Mitra, N., Pajola, M., Raducan, S., Ramesh, K., Rivkin, A. S., Rossi, A., Sánchez, P., Schwartz, S. R., Soldini, S., Steckloff, J. K., Tusberty, F., Wünnemann, K., and Zhang, Y. **2025**. “[Dimorphos’s Material Properties and Estimates of Crater Size from the DART Impact](#).” *PSJ* 6.2, 38, p. 38. DOI: [10.3847/PSJ/ad944d](https://doi.org/10.3847/PSJ/ad944d).
16. Athanasopoulos, D., Hanuš, J., Avdellidou, C., van Belle, G., Ferrero, A., Bonamico, R., Gazeas, K., Delbo, M., Rivet, J. P., Apostolovska, G., Todorović, N., Novakovic, B., Bebekovska, E. V., Romanyuk, Y., Bolin, B. T., Zhou, W., and **Agrusa, H.** **2024**. “[Spin states of X-complex asteroids in the inner main belt: I. Investigating Athor and Zita collisional families](#).” *A&A* 690, A215, A215. DOI: [10.1051/0004-6361/202451363](https://doi.org/10.1051/0004-6361/202451363).
15. Chabot, N. L., Rivkin, A. S., Cheng, A. F., Barnouin, O. S., Fahnestock, E. G., Richardson, D. C., Stickle, A. M., Thomas, C. A., Ernst, C. M., Terik Daly, R., Dotto, E., Zinzi, A., Chesley, S. R., Moskovitz, N. A., Barbee, B. W., Abell, P., **Agrusa, H. F.**, Bannister, M. T., Beccarelli, J., Bekker, D. L., et al. **2024**. “[Achievement of the Planetary Defense Investigations of the Double Asteroid Redirection Test \(DART\) Mission](#).” *PSJ* 5.2, 49, p. 49. DOI: [10.3847/PSJ/ad16e6](https://doi.org/10.3847/PSJ/ad16e6).
14. Nakano, R., Hirabayashi, M., Raducan, S. D., Pravec, P., Naidu, S. P., **Agrusa, H. F.**, Chesley, S., Ferrari, F., Jutzi, M., Merrill, C. C., Meyer, A. J., Michel, P., Richardson, D. C., Sánchez, P., Scheirich, P., Schwartz, S. R., Zhang, Y., Bagatin, A. C., Liu, P.-Y., and Cheng, A. F. **2024**. “[Dimorphos’s Orbit Period Change and Attitude Perturbation due to Its Reshaping after the DART Impact](#).” *PSJ* 5.6, 133, p. 133. DOI: [10.3847/PSJ/ad4350](https://doi.org/10.3847/PSJ/ad4350).
13. Pajola, M., Tusberty, F., Lucchetti, A., Barnouin, O., Cambioni, S., Ernst, C. M., Dotto, E., Daly, R. T., Poggiali, G., Hirabayashi, M., Nakano, R., Epifani, E. M., Chabot, N. L., Della Corte, V., Rivkin, A., **Agrusa, H.**, Zhang, Y., Penasa, L., Ballouz, R. L., Ivanovski, S., et al. **2024**. “[Evidence for multi-fragmentation and mass shedding of boulders on rubble-pile binary asteroid system \(65803\) Didymos](#).” *Nature Communications* 15, 6205, p. 6205. DOI: [10.1038/s41467-024-50148-9](https://doi.org/10.1038/s41467-024-50148-9).
12. Pravec, P., Meyer, A. J., Scheirich, P., Scheeres, D. J., Benson, C. J., and **Agrusa, H. F.** **2024**. “[Rotational lightcurves of Dimorphos and constraints on its post-DART impact spin state](#).” *Icarus* 418, 116138, p. 116138. DOI: [10.1016/j.icarus.2024.116138](https://doi.org/10.1016/j.icarus.2024.116138).
11. Raducan, S. D., Jutzi, M., Cheng, A. F., Zhang, Y., Barnouin, O., Collins, G. S., Daly, R. T., Davison, T. M., Ernst, C. M., Farnham, T. L., Ferrari, F., Hirabayashi, M., Kumamoto, K. M., Michel, P., Murdoch, N., Nakano, R., Pajola, M., Rossi, A., **Agrusa, H. F.**, Barbee, B. W., Syal, M. B., Chabot, N. L., Dotto, E., Fahnestock, E. G., Hasselmann, P. H., Herreros, I., Ivanovski, S., Li, J. Y., Lucchetti, A., Luther, R., Ormö, J., Owen, M., Pravec, P., Rivkin,

- A. S., Robin, C. Q., Sánchez, P., Tusberty, F., Wünnemann, K., Zinzi, A., Epifani, E. M., Manzonei, C., and May, B. H. **2024**. “[Physical properties of asteroid Dimorphos as derived from the DART impact.](#)” *Nature Astronomy* 8, pp. 445–455. DOI: [10.1038/s41550-024-02200-3](#).
10. Scheirich, P., Pravec, P., Meyer, A. J., **Agrusa, H. F.**, Richardson, D. C., Chesley, S. R., Naidu, S. P., Thomas, C., and Moskovitz, N. A. **2024**. “[Dimorphos Orbit Determination from Mutual Events Photometry.](#)” *PSJ* 5.1, 17, p. 17. DOI: [10.3847/PSJ/ad12cf](#).
 9. Zhou, W.-H., Vokrouhlický, D., Kanamaru, M., **Agrusa, H.**, Pravec, P., Delbo, M., and Michel, P. **2024**. “[The Yarkovsky Effect on the Long-term Evolution of Binary Asteroids.](#)” *ApJ* 968.1, L3, p. L3. DOI: [10.3847/2041-8213/ad4f7f](#).
 8. Meyer, A. J., Scheeres, D. J., **Agrusa, H. F.**, Noiset, G., McMahon, J., Karatekin, Ö., Hirabayashi, M., and Nakano, R. **2023**. “[Energy dissipation in synchronous binary asteroids.](#)” *Icarus* 391, 115323, p. 115323. DOI: [10.1016/j.icarus.2022.115323](#).
 7. Thomas, C. A., Naidu, S. P., Scheirich, P., Moskovitz, N. A., Pravec, P., Chesley, S. R., Rivkin, A. S., Osip, D. J., Lister, T. A., Benner, L. A. M., Brozović, M., Contreras, C., Morrell, N., Rožek, A., Kušnirák, P., Hornoch, K., Mages, D., Taylor, P. A., Seymour, A. D., Snodgrass, C., Jørgensen, U. G., Dominik, M., Skiff, B., Polakis, T., Knight, M. M., Farnham, T. L., Giorgini, J. D., Rush, B., Bellerose, J., Salas, P., Armentrout, W. P., Watts, G., Busch, M. W., Chatelain, J., Gomez, E., Greenstreet, S., Phillips, L., Bonavita, M., Burgdorf, M. J., Khalouei, E., Longa-Peña, P., Rabus, M., Sajadian, S., Chabot, N. L., Cheng, A. F., Ryan, W. H., Ryan, E. V., Holt, C. E., and **Agrusa, H. F.** **2023**. “[Orbital period change of Dimorphos due to the DART kinetic impact.](#)” *Nature* 616.7957, pp. 448–451. DOI: [10.1038/s41586-023-05805-2](#).
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 5. Nakano, R., Hirabayashi, M., **Agrusa, H. F.**, Ferrari, F., Meyer, A. J., Michel, P., Raducan, S. D., Sánchez, P., and Zhang, Y. **2022**. “[NASA’s Double Asteroid Redirection Test \(DART\): Mutual Orbital Period Change Due to Reshaping in the Near-Earth Binary Asteroid System \(65803\) Didymos.](#)” *PSJ* 3.7, 148, p. 148. DOI: [10.3847/PSJ/ac7566](#).
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