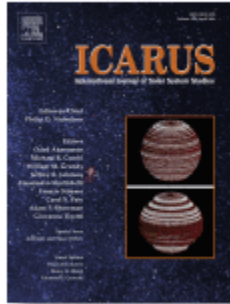


## *Icarus Journal—Asteroids and Space Debris*



*Icarus* publishes original work in the field of Solar System studies. The April 2018 issue (volume 304) contains 18 papers on cutting-edge research on asteroids. The special section is called "Asteroids and Space Debris" and is edited by Bojan Novaković (University of Belgrade, Serbia), Henry Hsieh (Planetary Science Institute, USA and Academia Sinica, Taiwan), and Giovanni Gronchi (Università di Pisa, Italy). Though a subscription, individual or institutional, is needed to access the articles online, the *Icarus Table of Contents and Abstracts* are available to everyone. Articles:

***"The observing campaign on the deep-space debris WT1190F as a test case for short-warning NEO impacts"*** by Micheli, M., Buzzoni,

A., Koschny, D., Drolshagen, G., Perozzi, E., Hainaut, O., Limmins, S., Altavilla, G., Foppiani, I., Nomen, J., Sánchez-Ortiz, N., Marinello, W., Pizzetti, G., Soffiantini, A., Fan, W., and Frueh, C., p. 4-8, doi: [10.1016/j.icarus.2017.10.006](https://doi.org/10.1016/j.icarus.2017.10.006).

***"Planetary chaos and the (In)stability of Hungaria asteroids"*** by Ćuk, M. and Nesvorný, D., p. 9-13, doi: [10.1016/j.icarus.2017.04.015](https://doi.org/10.1016/j.icarus.2017.04.015).

***"Reconstructing the size distribution of the primordial Main Belt"*** by Tsirvoulis, G., Morbidelli, I. A., Delbo, M., and Tsiganis, K., p. 14-23, doi: [10.1016/j.icarus.2017.05.026](https://doi.org/10.1016/j.icarus.2017.05.026).

***"Asteroids in three-body mean motion resonances with planets"*** by Smirnov, E. A., Dovgalev, I. S., and Popova, E. A., p. 24-30, doi: [10.1016/j.icarus.2017.09.032](https://doi.org/10.1016/j.icarus.2017.09.032).

***"New polarimetric and spectroscopic evidence of anomalous enrichment in spinel-bearing calcium-aluminium-rich inclusions among L-type asteroids"*** by Devogèle, M., Tanga, P., Cellino, A., Bendjoya, Ph., Rivet, J.-T., Surdej, J., Vernet, D., Sunshine, J. M., Bus, S. J., Abe, L., Bagnulo, S., Borisov, G., Campins, H., Carry, G., Licandro, J., Mclean, W., and Pinilla-Alonso, N., p. 31-57, doi: [10.1016/j.icarus.2017.12.026](https://doi.org/10.1016/j.icarus.2017.12.026).

***"Asteroid (16) Psyche: Evidence for a silicate regolith from spitzer space telescope spectroscopy"*** Landsman, Z. A., Emery, J. P., Campins, H., Hanuš, J., Lim, L. F., and Cruikshank, D. P., p. 58-73, doi: [10.1016/j.icarus.2017.11.035](https://doi.org/10.1016/j.icarus.2017.11.035).

***"Evidence for OH or H<sub>2</sub>O on the surface of 433 Eros and 1036 Ganymed"*** by Rivkin, A. S., Howell, E. S., Emery, J. P., and Sunshine, J., p. 74-82, doi: [10.1016/j.icarus.2017.04.006](https://doi.org/10.1016/j.icarus.2017.04.006).

***"New candidates for active asteroids: Main-belt (145) Adeona, (704) Interamnia, (779) Nina, (1474) Beira, and near-Earth (162,173) Ryugu"*** by Busarev, V. V., Makalkin, A. B., Vilas, F., Barabanov, S. I., and Scherbina, M. P., p. 83-94, doi: [10.1016/j.icarus.2017.06.032](https://doi.org/10.1016/j.icarus.2017.06.032).

***"Thermal infrared and optical photometry of Asteroidal Comet C/2002 CE<sub>10</sub>"*** by Sekiguchi, T., Miyasaka, S., Dermawan, B., Mueller, T., Takato, N., Watanabe, J., and Boehnhardt, H., p. 95-100, doi: [10.1016/j.icarus.2017.12.037](https://doi.org/10.1016/j.icarus.2017.12.037).

**"Shape models of asteroids based on lightcurve observations with BlueEye600 robotic observatory"** by Ďurech, J., Hanuš, J., Brož, M., Lehký, M., Behrend, R., Antonini, P., Charbonne, S., Crippa, R., Dubreuil, P., Farroni, G., Kober, G., Lopez, A., Manzini, F., Oey, J., Poncy, R., Rinner, C., and Roy, R., p. 101-109, doi: [10.1016/j.icarus.2017.07.005](https://doi.org/10.1016/j.icarus.2017.07.005).

**"Asteroid clusters similar to asteroid paris"** by Pravec, P., Fatka, P., Vokrouhlický, D., Scheeres, D. J., Kusnirak, P., Hornoch, K., Galád, A., Vraštil, J., Pray, D. P., Krugly, Tu. N., Gaftonyuk, N. M., Inasaridze, R. Ya., Ayvazian, V. R., Kvaratskhelia, O. I., Zhuzhunadze, V. T., Husárik, M., Cooney, W. R., Gross, J., Terrell, D., Világi, J., Kornoš, L., Gajdoš, S., Burkhonov, O., Ehgamberdiev, Sh. A., Donchev, Z., Borisov, G., Bonev, T., Rumyantsev, V. V., and Molotov, I. E., p. 110-126, doi: [10.1016/j.icarus.2017.08.008](https://doi.org/10.1016/j.icarus.2017.08.008).

**"Interpretations of family size distributions: The Datura example"** by Henych, T. and Holsapple, K. A., p. 127-134, doi: [10.1016/j.icarus.2017.05.018](https://doi.org/10.1016/j.icarus.2017.05.018).

**"On relative velocity in very young asteroid families"** by Rosaev, A. and Plávalová, E., p. 135-142, doi: [10.1016/j.icarus.2017.12.031](https://doi.org/10.1016/j.icarus.2017.12.031).

**"Impact simulation in the gravity regime: Exploring the effects of parent body size and internal structure"** by Benavidez, P. G., Durda, D. D., Enke, B., Campo Bagain, A., Richardson, D. C., Asphaug, E., and Bottke, W. F., p. 143-161, doi: [10.1016/j.icarus.2017.05.030](https://doi.org/10.1016/j.icarus.2017.05.030).

**"Resurfacing asteroids from YORP spin-up and failure"** by Graves, K. J., Minton, d. A., Hirabayashi, M., DeMeo, F. E., and Carry, B., p. 162-171, doi: [10.1016/j.icarus.2017.08.025](https://doi.org/10.1016/j.icarus.2017.08.025).

**"The origins of Asteroidal rock disaggregation: Interplay of thermal fatigue and microstructure"** by Hazeli, K., El Mir, C., Papanikolaou, S., Delbo, M., and Ramesh, K. T., p. 172-182, doi: [10.1016/j.icarus.2017.12.035](https://doi.org/10.1016/j.icarus.2017.12.035).

**"Disaggregation of small, cohesive rubble pile asteroids due to YORP"** by Scheeres, D. J., p. 183-191, doi: [10.1016/j.icarus.2017.05.029](https://doi.org/10.1016/j.icarus.2017.05.029).

**"Equatorial cavities on asteroids, an evidence of fission events"** by Tardivel, S., Sanchez, P., and Scheeres, D. J., p. 192-208, doi: [10.1016/j.icarus.2017.06.037](https://doi.org/10.1016/j.icarus.2017.06.037).

And two papers that were meant to be part of this special issue but were published in earlier volumes inadvertently:

**"The impact trajectory of asteroid 2008 TC<sub>3</sub>"** by Farnocchia, D., Jenniskens, P., Robertson, D. K., Chesley, S. R., Dimare, L., and Chodas, P. W., v. 294, p. 218-226, doi: [10.1016/j.icarus.2017.03.007](https://doi.org/10.1016/j.icarus.2017.03.007).

**"Spin states of asteroids in the Eos collisional family"** by Hanuš, J. and 36 others, v. 299, p. 84-96, doi: [10.1016/j.icarus.2017.07.007](https://doi.org/10.1016/j.icarus.2017.07.007).

Written by Linda M. V. Martel, Hawai'i Institute of Geophysics and Planetology, for [PSRD](#).



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April 2018

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