

Tomographic inversion of gravity gradient field for a synthetic Itokawa model

Sorsa, L.-I., Takala, M., Bambach, P., Deller, J., Vilenius, E., Agarwal, J., Carroll, K. A., Karatekin, Ö. & Pursiainen, S., 3 Sep 2019, In : *Icarus*. 336, 113425.

Research output: Contribution to journal > Article > Scientific > peer-review

The shape of (7) Iris as evidence of an ancient large impact?

Hanuš, J., Marsset, M., Vernazza, P., Viikinkoski, M., Drouard, A., Broa, M., Carry, B., Fetick, R., Marchis, F., Jorda, L., Fusco, T., Birlan, M., Santana-Ros, T., Podlewska-Gaca, E., Jehin, E., Ferrais, M., Grice, J., Bartczak, P., Berthier, J., Castillo-Rogez, J., Cipriani, F., Colas, F., Dudziński, G., Dumas, C., Āž Urech, J., Kaasalainen, M., Kryszyńska, A., Lamy, P., Le Coroller, H., Marciniak, A., Michalowski, T., Michel, P., Pajuelo, M., Tanga, P., Vachier, F., Vigan, A., Witasse, O. & Yang, B., 1 Apr 2019, In : *Astronomy and Astrophysics*. 624, A121.

Research output: Contribution to journal > Article > Scientific > peer-review

Closing the gap between Earth-based and interplanetary mission observations: Vesta seen by VLT/SPHERE

Fétick, R. J. L., Jorda, L., Vernazza, P., Marsset, M., Drouard, A., Fusco, T., Carry, B., Marchis, F., Hanuš, J., Viikinkoski, M., Birlan, M., Bartczak, P., Berthier, J., Castillo-Rogez, J., Cipriani, F., Colas, F., Dudziński, G., Dumas, C., Ferrais, M., Jehin, E., Kaasalainen, M., Kryszyńska, A., Lamy, P., Le Coroller, H., Marciniak, A., Michalowski, T., Michel, P., Mugnier, L. M., Neichel, B., Pajuelo, M., Podlewska-Gaca, E., Santana-Ros, T., Tanga, P., Vachier, F., Vigan, A., Witasse, O. & Yang, B., 1 Mar 2019, In : *Astronomy and Astrophysics*. 623, A6.

Research output: Contribution to journal > Article > Scientific > peer-review

Homogeneous internal structure of CM-like asteroid (41) Daphne

Carry, B., Vachier, F., Berthier, J., Marsset, M., Vernazza, P., Grice, J., Merline, W. J., Lagadec, E., Fienga, A., Conrad, A., Podlewska-Gaca, E., Santana-Ros, T., Viikinkoski, M., Hanuš, J., Dumas, C., Drummond, J. D., Tamblyn, P. M., Chapman, C. R., Behrend, R., Bernasconi, L., Bartczak, P., Benkhaldoun, Z., Birlan, M., Castillo-Rogez, J., Cipriani, F., Colas, F., Drouard, A., Durech, J., Enke, B. L., Fauvaud, S., Ferrais, M., Fetick, R., Fusco, T., Gillon, M., Jehin, E., Jorda, L., Kaasalainen, M., Keppler, M., Kryszyńska, A., Lamy, P., Marchis, F., Marciniak, A., Michalowski, T., Michel, P., Pajuelo, M., Tanga, P., Vigan, A., Warner, B., Witasse, O., Yang, B. & Zurlo, A., 1 Mar 2019, In : *Astronomy and Astrophysics*. 623, A132.

Research output: Contribution to journal > Article > Scientific > peer-review

DISCUS – The Deep Interior Scanning CubeSat mission to a rubble pile near-Earth asteroid

Bambach, P., Deller, J., Vilenius, E., Pursiainen, S., Takala, M., Braun, H. M., Lentz, H. & Wittig, M., Dec 2018, In : *Advances in Space Research*. 62, 12, p. 3357-3368

Research output: Contribution to journal > Article > Scientific > peer-review

(16) Psyche: A mesosiderite-like asteroid?

Viikinkoski, M., Vernazza, P., Hanuš, J., Le Coroller, H., Tazhenova, K., Carry, B., Marsset, M., Drouard, A., Marchis, F., Fetick, R., Fusco, T., Ādurech, J., Birlan, M., Berthier, J., Bartczak, P., Dumas, C., Castillo-Rogez, J., Cipriani, F., Colas, F., Ferrais, M., Grice, J., Jehin, E., Jorda, L., Kaasalainen, M., Kryszyńska, A., Lamy, P., Marciniak, A., Michalowski, T., Michel, P., Pajuelo, M., Podlewska-Gaca, E., Santana-Ros, T., Tanga, P., Vachier, F., Vigan, A., Warner, B., Witasse, O. & Yang, B., 1 Nov 2018, In : *Astronomy and Astrophysics*. 619, L3.

Research output: Contribution to journal > Article > Scientific > peer-review

The impact crater at the origin of the Julia family detected with VLT/SPHERE?

Vernazza, P., Broz, M., Drouard, A., Hanuš, J., Viikinkoski, M., Marsset, M., Jorda, L., Fetick, R., Carry, B., Marchis, F., Birlan, M., Fusco, T., Santana-Ros, T., Podlewska-Gaca, E., Jehin, E., Ferrais, M., Bartczak, P., Dudziński, G., Berthier, J., Castillo-Rogez, J., Cipriani, F., Colas, F., Dumas, C., Urech, J., Kaasalainen, M., Kryszyńska, A., Lamy, P., Le Coroller, H., Marciniak, A., Michalowski, T., Michel, P., Pajuelo, M., Tanga, P., Vachier, F., Vigan, A., Warner, B., Witasse, O., Yang, B., Asphaug, E., Richardson, D. C., Ševeček, P., Gillon, M. & Benkhaldoun, Z., 1 Oct 2018, In : *Astronomy and Astrophysics*. 618, 33477.

Research output: Contribution to journal > Article > Scientific > peer-review

Distribution of shape elongations of main belt asteroids derived from Pan-STARRS1 photometry

Cibulková, H., Nortunen, H., Ādurech, J., Kaasalainen, M., Vereš, P., Jedicke, R., Wainscoat, R. J., Mommert, M., Trilling, D. E., Schunová-Lilly, E., Magnier, E. A., Waters, C. & Flewelling, H., 1 Mar 2018, In : *Astronomy and Astrophysics*. 611, 10 p., A86.

Research output: Contribution to journal > Article > Scientific > peer-review

What's inside a rubble pile asteroid? DISCUS - A tomographic twin radar Cubesat to find out

Bambach, P., Deller, J., Martel, J., Vilenius, E., Goldberg, H., Sorsa, L.-I., Pursiainen, S., Takala, M., Wurster, A., Braun, H. M., Lentz, H., Jutzi, M., Wittig, M., Chitu, C. C., Ritter, B. & Karatekin, O., 2018, *69th International Astronautical Congress, IAC 2018*. (Proceedings of the International Astronautical Congress, IAC).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Adaptive optics and lightcurve data of asteroids: Twenty shape models and information content analysis

Viiikinkoski, M., Hanuš, J., Kaasalainen, M., Marchis, F. & Ďurech, J., 1 Nov 2017, In : *Astronomy and Astrophysics*. 607, A117.

Research output: Contribution to journal > Article > Scientific > peer-review

3D shape of asteroid (6) Hebe from VLT/SPHERE imaging: Implications for the origin of ordinary H chondrites

Marsset, M., Carry, B., Dumas, C., Hanuš, J., Viiikinkoski, M., Vernazza, P., Müller, T. G., Delbo, M., Jehin, E., Gillon, M., Grice, J., Yang, B., Fusco, T., Berthier, J., Sonnett, S., Kugel, F., Caron, J. & Behrend, R., 1 Aug 2017, In : *Astronomy and Astrophysics*. 604, A64.

Research output: Contribution to journal > Article > Scientific > peer-review

Dynamic, data-driven processing of multispectral video streams

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Research output: Contribution to journal > Article > Scientific > peer-review

Shape and spin distributions of asteroid populations from brightness variation estimates and large databases

Nortunen, H., Kaasalainen, M., Ďurech, J., Cibulková, H., Ali-Lagoa, V. & Hanuš, J., 1 May 2017, In : *Astronomy and Astrophysics*. 601, A139.

Research output: Contribution to journal > Article > Scientific > peer-review

Volumes and bulk densities of forty asteroids from ADAM shape modeling

Hanuš, J., Viiikinkoski, M., Marchis, F., Ďurech, J., Kaasalainen, M., Delbo, M., Herald, D., Frappa, E., Hayamizu, T., Kerr, S., Preston, S., Timerson, B., Dunham, D. & Talbot, J., 1 May 2017, In : *Astronomy and Astrophysics*. 601, A114.

Research output: Contribution to journal > Article > Scientific > peer-review

Shape model of asteroid (130) Elektra from optical photometry and disk-resolved images from VLT/SPHERE and Nirc2/Keck

Hanuš, J., Marchis, F., Viiikinkoski, M., Yang, B. & Kaasalainen, M., 1 Mar 2017, In : *Astronomy and Astrophysics*. 599, A36.

Research output: Contribution to journal > Article > Scientific > peer-review

Radar observations and shape model of asteroid 16 Psyche

Shepard, M. K., Richardson, J., Taylor, P. A., Rodriguez-Ford, L. A., Conrad, A., de Pater, I., Adamkovics, M., de Kleer, K., Males, J. R., Morzinski, K. M., Close, L. M., Kaasalainen, M., Viiikinkoski, M., Timerson, B., Reddy, V., Magri, C., Nolan, M. C., Howell, E. S., Benner, L. A. M., Giorgini, J. D., Warner, B. D. & Harris, A. W., 2016, In : *Icarus*. 281, p. 388-403 16 p.

Research output: Contribution to journal > Article > Scientific > peer-review

VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno

Viiikinkoski, M., Kaasalainen, M., Ďurech, J., Carry, B., Marsset, M., Fusco, T., Dumas, C., Merline, W. J., Yang, B., Berthier, J., Kervella, P. & Vernazza, P., 1 Sep 2015, In : *Astronomy and Astrophysics*. 581, 5 p., L3.

Research output: Contribution to journal > Article > Scientific > peer-review

ADAM: A general method for using various data types in asteroid reconstruction

Viiikinkoski, M., Kaasalainen, M. & Ďurech, J., 1 Apr 2015, In : *Astronomy and Astrophysics*. 576, 11 p., A8.

Research output: Contribution to journal > Article > Scientific > peer-review

Investigating dynamical complexity in the magnetosphere using various entropy measures

Balasis, G., Daglis, I. A., Papadimitriou, C., Kalimeri, M., Anastasiadis, A. & Eftaxias, K., 1 Jun 2009, In : *JOURNAL OF GEOPHYSICAL RESEARCH: SPACE PHYSICS*. 114, 6, A00D06.

Research output: Contribution to journal › Article › Scientific › peer-review