

# Rose-Marie Baland

## List of Publications by Year in descending order

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17  
papers

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759233

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653  
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| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The radioscience LaRa instrument onboard ExoMars 2020 to investigate the rotation and interior of mars. Planetary and Space Science, 2020, 180, 104776.                       | 1.7 | 18        |
| 2  | Detection of the Chandler Wobble of Mars From Orbiting Spacecraft. Geophysical Research Letters, 2020, 47, e2020GL090568.   | 4.0 | 37        |
| 3  | The precession and nutations of a rigid Mars. Celestial Mechanics and Dynamical Astronomy, 2020, 132, 1.  | 1.4 | 6         |
| 4  | The Librations, Tides, and Interior Structure of Io. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006473.  | 3.6 | 9         |
| 5  | Coupling between the spin precession and polar motion of a synchronously rotating satellite: application to Titan. Celestial Mechanics and Dynamical Astronomy, 2019, 131, 1. | 1.4 | 1         |
| 6  | Variations in rotation rate and polar motion of a non-hydrostatic Titan. Icarus, 2018, 307, 83-105.   | 2.5 | 3         |
| 7  | Obliquity of Mercury: Influence of the precession of the pericenter and of tides. Icarus, 2017, 291, 136-159.   | 2.5 | 18        |
| 8  | Enceladus's internal ocean and ice shell constrained from Cassini gravity, shape, and libration data. Geophysical Research Letters, 2016, 43, 5653-5660.                      | 4.0 | 141       |
| 9  | The diurnal libration and interior structure of Enceladus. Icarus, 2016, 277, 311-318.  | 2.5 | 41        |
| 10 | The obliquity of Enceladus. Icarus, 2016, 268, 12-31.   | 2.5 | 52        |
| 11 | Modeling the polar motion of Titan. Icarus, 2016, 265, 1-28.  | 2.5 | 7         |
| 12 | Titan's internal structure inferred from its gravity field, shape, and rotation state. Icarus, 2014, 237, 29-41.  | 2.5 | 69        |
| 13 | On the librations and tides of large icy satellites. Icarus, 2013, 226, 299-315.  | 2.5 | 54        |
| 14 | Obliquity of the Galilean satellites: The influence of a global internal liquid layer. Icarus, 2012, 220, 435-448.  | 2.5 | 33        |
| 15 | The effect of tides and an inner core on the forced longitudinal libration of Mercury. Earth and Planetary Science Letters, 2012, 333-334, 83-90.                             | 4.4 | 31        |
| 16 | Librations of the Galilean satellites: The influence of global internal liquid layers. Icarus, 2010, 209, 651-664.  | 2.5 | 28        |
| 17 | The effect of gravitational and pressure torques on Titan's length-of-day variations. Icarus, 2009, 200, 256-264.   | 2.5 | 44        |