

# Publications



## Institut de Planétologie et d'Astrophysique de Grenoble



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### Accepted papers:

- Strugarek, A.; Bolmont, E.; Mathis, S.; Brun, A. S.; Réville, V.; **Gallet, F.**; Charbonnel, C. The Fate of Close-in Planets: Tidal or Magnetic Migration? 2017, ApJ, 847, L16, [PDF](#)
- **Gallet, F.**, Bolmont, E., Mathis, S., Charbonnel, C., & Amard, L. Tidal dissipation in rotating low-mass stars and implications for the orbital evolution of close-in planets. I. From the PMS to the RGB at solar metallicity 2017, A&A, 604, A112, [PDF](#)
- Bolmont, E.; **Gallet, F.**; Mathis, S.; Charbonnel, C.; Amard, L.; Alibert, Y. Tidal dissipation in rotating low-mass stars and implications for the orbital evolution of close-in massive planets. II. Effect of stellar metallicity 2017, A&A, 604, A113, [PDF](#)
- Charbonnel, C.; Decressin, T.; Lagarde, N.; **Gallet, F.**; Aurière, M.; Konstantinova-Antova, R.; Anderson, R. The magnetic strip in the advanced phases of stellar evolution. 2017, A&A, 605, A102, [PDF](#)
- **Gallet, F.**; Charbonnel, C.; Amard, L.; Brun, S.; Palacios, A.; Mathis, S. Impacts of stellar evolution and dynamics on the habitable zone: The role of rotation and magnetic activity. 2017, A&A, 597, A14, [PDF](#)
- Mathis, S.; Auclair-Desrotour, P.; Guenel, M.; **Gallet, F.**; Le Poncin-Lafitte, C. The impact of rotation on turbulent tidal friction in stellar and planetary convective regions. 2016, A&A, 592, A33, [PDF](#)
- Amard, L.; Palacios, A.; Charbonnel, C.; **Gallet, F.**; Bouvier, J. Rotating models of young solar-type stars. Exploring braking laws and angular momentum transport processes. 2016, A&A, 587, A105, [PDF](#)
- **Gallet, F.**; Bouvier, J. Improved angular momentum evolution model for solar-like stars. II. Exploring the mass dependence. 2015, A&A, 576, A98, [PDF](#)
- **Gallet, F.**; Bouvier, J. Improved angular momentum evolution model for solar-like stars. 2013, A&A, 556, A36, [PDF](#)

### Submitted/In preparation

- Beck, P.G.; Mathis, S.; **Gallet, F.**; Charbonnel, C.; Benbakoura, M.; García, R. A.; do Nascimento, Jr J.-D. Testing tidal theory for evolved stars by using red-giant binaries observed by Kepler
- **Gallet, F.**; Bolmont, E.; Bouvier, J.; Mathis, S.; Charbonnel, C. Planetary tidal interactions and the rotational evolution of low-mass stars: The Pleiades' anomaly

