# Javier Ruiz

List of Publications by Year
in descending order

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| 67 | 1,360 | 304743 | 361022 |
|---|---|---|---|
| papers | citations | 22 h-index | 35 g-index |

| 67 | 67 | 67 | 1172 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The stability of a liquid-water body below the south polar cap of Mars. Icarus, 2022, 383, 115073. | 2.5 | 3 |
| 2 | Giant dikes and dike-induced seismicity in a weak crust underneath Cerberus Fossae, Mars. Earth and Planetary Science Letters, 2022, 594, 117692. | 4.4 | 7 |
| 3 | The thermal structure and mechanical behavior of the martian lithosphere. Icarus, 2021, 353, 113635. | 2.5 | 3 |
| 4 | Subsurface Geometry and Emplacement Conditions of a Giant Dike System in Elysium Fossae, Mars. Journal of Geophysical Research E: Planets, 2021, 126, . | 3.6 | 7 |
| 5 | Regional heat flow and subsurface temperature patterns at Elysium Planitia and Oxia Planum areas, Mars. Icarus, 2021, 353, 113379. | 2.5 | 7 |
| 6 | From hot to cold? â€“ Hydrothermal activities as a source for icy-debris flows on Dryas Mons, Terra Sirenum, Mars. Icarus, 2021, 372, 114698. | 2.5 | 0 |
| 7 | Fast-running theropods tracks from the Early Cretaceous of La Rioja, Spain. Scientific Reports, 2021, 11, 23095. | 3.3 | 6 |
| 8 | 3D modeling of planetary lobate scarps: The case of Ogygis Rupes, Mars. Earth and Planetary Science Letters, 2020, 532, 116004. | 4.4 | 10 |
| 9 | Lithospheric Contraction on Mars: A 3D Model of the Amenthes Thrust Fault System. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006201. | 3.6 | 5 |
| 10 | Evidence of thrust faulting and widespread contraction of Ceres. Nature Astronomy, 2019, 3, 916-921. | 10.1 | 5 |
| 11 | Comments on â€œUsing the viscoelastic relaxation of large impact craters to study the thermal history of Marsâ€•(Karimi etÂal., 2016, Icarus 272, 102â€“113) and â€œStudying lower crustal flow beneath mead basin: Implications for the thermal history and rheology of Venusâ€•(Karimi and Dombard, 2017, Icarus 282,) Tj ETQq1 1 0.784314 rgBT /Ov | 2.5 | 4 |
| 12 | Structural modeling of lobate scarps in the NW margin of Argyre impact basin, Mars. Icarus, 2019, 319, 367-380. | 2.5 | 8 |
| 13 | Heat flow in Triton: Implications for heat sources powering recent geologic activity. Planetary and Space Science, 2018, 160, 19-25. | 1.7 | 5 |
| 14 | Comments on â€œA tyrannosaur trackway at Glenrock, Lance Formation (Maastrichtian), Wyomingâ€• (Smith etÂal., Cretaceous Research, v. 61, pp. 1â€“4, 2016). Cretaceous Research, 2018, 82, 81-82. | 1.4 | 2 |
| 15 | Thrust fault modeling and Late-Noachian lithospheric structure of the circum-Hellas region, Mars. Icarus, 2017, 288, 53-68. | 2.5 | 18 |
| 16 | Heat flow evolution of the Earth from paleomantle temperatures: Evidence for increasing heat loss since â¼2.5 Ga. Physics of the Earth and Planetary Interiors, 2017, 269, 165-171. | 1.9 | 4 |
| 17 | Present-day heat flow model of Mars. Scientific Reports, 2017, 7, 45629. | 3.3 | 50 |
| 18 | On the calculation of occlusal bite pressures for fossil hominins. Journal of Human Evolution, 2017, 102, 67-71. | 2.6 | 1 |

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|---|---|---|---|
| 19 | Modeling of Landslides in Valles Marineris, Mars, and Implications for Initiation Mechanism. Earth, Moon and Planets, 2016, 118, 15-26. | 0.6 | 3 |
| 20 | Timing of chaotic terrain formation in Argadnel Regio, Europa, and implications for geological history. Planetary and Space Science, 2016, 130, 24-29. | 1.7 | 4 |
| 21 | Lithospheric structure of Venus from gravity and topography. Icarus, 2015, 260, 215-231. | 2.5 | 36 |
| 22 | Evidence for two stages of compressive deformation in a buried basin of Mercury. Icarus, 2015, 254, 18-23. | 2.5 | 1 |
| 23 | Spatial variations of effective elastic thickness of the lithosphere in Central America and surrounding regions. Earth and Planetary Science Letters, 2014, 391, 55-66. | 4.4 | 29 |
| 24 | Neptune and Triton: Essential pieces of the Solar System puzzle. Planetary and Space Science, 2014, 104, 108-121. | 1.7 | 34 |
| 25 | Influence of an insulating megaregolith on heat flow and crustal temperature structure of Mercury. Icarus, 2014, 232, 220-225. | 2.5 | 6 |
| 26 | The early heat loss evolution of Mars and their implications for internal and environmental history. Scientific Reports, 2014, 4, 4338. | 3.3 | 23 |
| 27 | Paleo-heat flows, radioactive heat generation, and the cooling and deformation history of Mercury. Icarus, 2013, 225, 86-92. | 2.5 | 2 |
| 28 | Is Earth-based scaling a valid procedure for calculating heat flows for Mars?. Icarus, 2013, 226, 536-540. | 2.5 | 0 |
| 29 | Humans Running at Stadiums and Beaches and the Accuracy of Speed Estimations from Fossil Trackways. Ichnos, 2013, 20, 31-35. | 0.5 | 21 |
| 30 | Heat Flow and Thermal State of the Crust of the Icy Galilean Satellites. Earth, Moon and Planets, 2012, 109, 117-125. | 0.6 | 1 |
| 31 | The South Pole-Aitken basin region, Moon: GIS-based geologic investigation using Kaguya elemental information. Advances in Space Research, 2012, 50, 1629-1637. | 2.6 | 4 |
| 32 | The thermal state and strength of the lithosphere in the Spanish Central System and Tajo Basin from crustal heat production and thermal isostasy. Journal of Geodynamics, 2012, 58, 29-37. | 1.6 | 22 |
| 33 | Structural control of scarps in the Rembrandt region of Mercury. Icarus, 2012, 219, 511-514. | 2.5 | 13 |
| 34 | Depth of faulting and ancient heat flows in the Kuiper region of Mercury from lobate scarp topography. Planetary and Space Science, 2012, 60, 193-198. | 1.7 | 25 |
| 35 | Insolation driven variations of Mercury's lithospheric strength. Journal of Geophysical Research, 2011, 116, . | 3.3 | 27 |
| 36 | The hand structure of Carnotaurus sastrei (Theropoda, Abelisauridae): implications for hand diversity and evolution in abelisaurids. Palaeontology, 2011, 54, 1271-1277. | 2.2 | 11 |

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|---|---|---|---|
| 37 | The thermal evolution of Mars as constrained by paleo-heat flows. Icarus, 2011, 215, 508-517. | 2.5 | 69 |
| 38 | Giant impacts and the initiation of plate tectonics on terrestrial planets. Planetary and Space Science, 2011, 59, 749-753. | 1.7 | 33 |
| 39 | Strong Calcite-Like Spectra Cathodoluminescence Emission from Allende Meteorite Cai Phases. Spectroscopy Letters, 2011, 44, 516-520. | 1.0 | 2 |
| 40 | Equilibrium Convection on a Tidally Heated and Stressed Icy Shell of Europa for a Composite Water Ice Rheology. Earth, Moon and Planets, 2010, 107, 157-167. | 0.6 | 8 |
| 41 | Structural evolution of Lavinia Planitia, Venus: Implications for the tectonics of the lowland plains. Icarus, 2010, 206, 210-228. | 2.5 | 14 |
| 42 | The present-day thermal state of Mars. Icarus, 2010, 207, 631-637. | 2.5 | 19 |
| 43 | New evidence for a magmatic influence on the origin of Valles Marineris, Mars. Journal of Volcanology and Geothermal Research, 2009, 185, 12-27. | 2.1 | 31 |
| 44 | Claritas rise, Mars: Pre-Tharsis magmatism?. Journal of Volcanology and Geothermal Research, 2009, 185, 139-156. | 2.1 | 66 |
| 45 | The very early thermal state of Terra Cimmeria: Implications for magnetic carriers in the crust of Mars. Icarus, 2009, 203, 454-459. | 2.5 | 4 |
| 46 | GRS evidence and the possibility of paleooceans on Mars. Planetary and Space Science, 2009, 57, 664-684. | 1.7 | 107 |
| 47 | Ancient heat flow, crustal thickness, and lithospheric mantle rheology in the Amenthes region, Mars. Earth and Planetary Science Letters, 2008, 270, 1-12. | 4.4 | 41 |
| 48 | Heat flow and thickness of a convective ice shell on Europa for grain size-dependent rheologies. Icarus, 2007, 190, 145-154. | 2.5 | 10 |
| 49 | The heat flow during the formation of ribbon terrains on Venus. Planetary and Space Science, 2007, 55, 2063-2070. | 1.7 | 24 |
| 50 | Thermal Diapirism and the Habitability of the Icy Shellof Europa. Origins of Life and Evolution of Biospheres, 2007, 37, 287-295. | 1.9 | 17 |
| 51 | The early thermal and magnetic state of the cratered highlands of Mars. Earth and Planetary Science Letters, 2006, 241, 2-10. | 4.4 | 27 |
| 52 | Effective elastic thicknesses of the lithosphere in the Central Iberian Peninsula from heat flow: Implications for the rheology of the continental lithospheric mantle. Journal of Geodynamics, 2006, 41, 500-509. | 1.6 | 15 |
| 53 | Evidence for a differentiated crust in Solis Planum, Mars, from lithospheric strength and heat flow. Icarus, 2006, 180, 308-313. | 2.5 | 20 |
| 54 | Seas under ice: Stability of liquid-water oceans within icy worlds. Earth, Moon and Planets, 2006, 97, 79-90. | 0.6 | 4 |

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|---|---|---|---|
| 55 | The heat flow of Europa. Icarus, 2005, 177, 438-446. | 2.5 | 28 |
| 56 | Estimating the effective elastic thickness of the lithosphere of the Iberian peninsula based on multitaper spectral analysis. Geophysical Journal International, 2005, 160, 729-735. | 2.4 | 15 |
| 57 | Thermal isostasy and deformation of possible paleoshorelines on Mars. Planetary and Space Science, 2004, 52, 1297-1301. | 1.7 | 22 |
| 58 | Possibility of Convection for Diffusion (Newtonian) Viscosity in the Ice Shell of Europa?. Earth, Moon and Planets, 2003, 93, 281-287. | 0.6 | 4 |
| 59 | Heat flow, lenticulae spacing, and possibility of convection in the ice shell of europa. Icarus, 2003, 162, 362-373. | 2.5 | 30 |
| 60 | Episodic flood inundations of the northern plains of Mars. Icarus, 2003, 165, 53-67. | 2.5 | 167 |
| 61 | Heat flow and depth to a possible internal ocean on Triton. Icarus, 2003, 166, 436-439. | 2.5 | 25 |
| 62 | Amplitude of heat flow variations on Mars from possible shoreline topography. Journal of Geophysical Research, 2003, 108, . | 3.3 | 5 |
| 63 | Thermal and mechanical structure of the central Iberian Peninsula lithosphere. Tectonophysics, 2002, 350, 49-62. | 2.2 | 34 |
| 64 | Tharsis dome, Mars: New evidence for Noachian-Hesperian thick-skin and Amazonian thin-skin tectonics. Journal of Geophysical Research, 2001, 106, 7577-7589. | 3.3 | 39 |
| 65 | The stability against freezing of an internal liquid-water ocean in Callisto. Nature, 2001, 412, 409-411. | 27.8 | 41 |
| 66 | Heat flows through the ice lithosphere of Europa. Journal of Geophysical Research, 2000, 105, 29283-29289. | 3.3 | 28 |
| 67 | Onset of Convection, Heat Flow and Thickness of the Europaâ€˜s ice Shell. Earth, Moon and Planets, 1997, 77, 99-104. | 0.6 | 4 |