Javier Ruiz

List of Publications by Year in descending order

98 papers	2,348 citations	218677 26 h-index	243625 44 g-index
99 all docs	99 docs citations	99 times ranked	2233 citing authors

#	Article	IF	Citations
1	Microbial Contribution to Wine Aroma and Its Intended Use for Wine Quality Improvement. Molecules, 2017, 22, 189.	3.8	205
2	Episodic flood inundations of the northern plains of Mars. Icarus, 2003, 165, 53-67.	2.5	167
3	Effects on varietal aromas during wine making: a review of the impact of varietal aromas on the flavor of wine. Applied Microbiology and Biotechnology, 2019, 103, 7425-7450.	3.6	112
4	GRS evidence and the possibility of paleooceans on Mars. Planetary and Space Science, 2009, 57, 664-684.	1.7	107
5	Unraveling the Enzymatic Basis of Wine â€œFlavoromeâ€: A Phylo-Functional Study of Wine Related Yeast Species. Frontiers in Microbiology, 2016, 7, 12.	3.5	98
6	Influence of Torulaspora delbrueckii in varietal thiol (3-SH and 4-MSP) release in wine sequential fermentations. International Journal of Food Microbiology, 2017, 257, 183-191.	4.7	90
7	Selection and use of pectinolytic yeasts for improving clarification and phenolic extraction in winemaking. International Journal of Food Microbiology, 2016, 223, 1-8.	4.7	76
8	The thermal evolution of Mars as constrained by paleo-heat flows. Icarus, 2011, 215, 508-517.	2.5	69
9	The Biology of Pichia membranifaciens Killer Toxins. Toxins, 2017, 9, 112.	3.4	67
10	Claritas rise, Mars: Pre-Tharsis magmatism?. Journal of Volcanology and Geothermal Research, 2009, 185, 139-156.	2.1	66
11	Analytical impact of Metschnikowia pulcherrima in the volatile profile of Verdejo white wines. Applied Microbiology and Biotechnology, 2018, 102, 8501-8509.	3.6	58
12	Present-day heat flow model of Mars. Scientific Reports, 2017, 7, 45629.	3.3	50
13	Improvement of aromatic thiol release through the selection of yeasts with increased Î²-lyase activity. International Journal of Food Microbiology, 2016, 225, 1-8.	4.7	49
14	The stability against freezing of an internal liquid-water ocean in Callisto. Nature, 2001, 412, 409-411.	27.8	41
15	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
16	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
17	Lithospheric structure of Venus from gravity and topography. Icarus, 2015, 260, 215-231.	2.5	36
18	Thermal and mechanical structure of the central Iberian Peninsula lithosphere. Tectonophysics, 2002, 350, 49-62.	2.2	34

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19	Giant impacts and the initiation of plate tectonics on terrestrial planets. Planetary and Space Science, 2011, 59, 749-753.	1.7	33
20	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
21	Heat flow, lenticulae spacing, and possibility of convection in the ice shell of europa. Icarus, 2003, 162, 362-373.	2.5	30
22	Heterogeneous structure of the Northern Chile marine forearc and its implications for megathrust earthquakes. Geophysical Journal International, 2018, 215, 1080-1097.	2.4	30
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	Occurrence and enological properties of two new non-conventional yeasts (Nakazawaea ishiwadae) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2019, 305, 108255.	4.7	29
25	Heat flows through the ice lithosphere of Europa. Journal of Geophysical Research, 2000, 105, 29283-29289.	3.3	28
26	The heat flow of Europa. Icarus, 2005, 177, 438-446.	2.5	28
27	The early thermal and magnetic state of the cratered highlands of Mars. Earth and Planetary Science Letters, 2006, 241, 2-10.	4.4	27
28	Insolation driven variations of Mercury's lithospheric strength. Journal of Geophysical Research, 2011, 116, .	3.3	27
29	Heat flow and depth to a possible internal ocean on Triton. Icarus, 2003, 166, 436-439.	2.5	25
30	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
31	The heat flow during the formation of ribbon terrains on Venus. Planetary and Space Science, 2007, 55, 2063-2070.	1.7	24
32	Liquid sampling-atmospheric pressure glow discharge optical emission spectroscopy detection of laser ablation produced particles: A feasibility study. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 76, 190-196.	2.9	24
33	The early heat loss evolution of Mars and their implications for internal and environmental history. Scientific Reports, 2014, 4, 4338.	3.3	23
34	Thermal isostasy and deformation of possible paleoshorelines on Mars. Planetary and Space Science, 2004, 52, 1297-1301.	1.7	22
35	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
36	Humans Running at Stadiums and Beaches and the Accuracy of Speed Estimations from Fossil Trackways. Ichnos, 2013, 20, 31-35.	0.5	21

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37	Evidence for a differentiated crust in Solis Planum, Mars, from lithospheric strength and heat flow. Icarus, 2006, 180, 308-313.	2.5	20
38	Intraplate and interplate earthquakes in Chilean subduction zone: A theoretical and observational comparison. Physics of the Earth and Planetary Interiors, 2009, 175, 37-46.	1.9	20
39	The present-day thermal state of Mars. Icarus, 2010, 207, 631-637.	2.5	19
40	Accounting information systems in the blockchain era. International Journal of Intellectual Property Management, 2021, 11, 63.	0.3	19
41	Thrust fault modeling and Late-Noachian lithospheric structure of the circum-Hellas region, Mars. Icarus, 2017, 288, 53-68.	2.5	18
42	The ChiloÃ© Mw 7.6 earthquake of 2016 December 25 in Southern Chile and its relation to the Mw 9.5 1960 Valdivia earthquake. Geophysical Journal International, 2018, 213, 210-221.	2.4	18
43	Thermal Diapirism and the Habitability of the Icy Shellof Europa. Origins of Life and Evolution of Biospheres, 2007, 37, 287-295.	1.9	17
44	Risk aversion and monetary policy in a global context. Journal of Financial Stability, 2015, 20, 14-35.	5.2	17
45	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
46	Structural evolution of Lavinia Planitia, Venus: Implications for the tectonics of the lowland plains. Icarus, 2010, 206, 210-228.	2.5	14
47	On-Line Laser-Induced Breakdown Spectroscopy Determination of Magnesium Coating Thickness on Electrolytically Galvanized Steel in Motion. Applied Spectroscopy, 2010, 64, 1342-1349.	2.2	14
48	Wine yeasts identification by MALDI-TOF MS: Optimization of the preanalytical steps and development of an extensible open-source platform for processing and analysis of an in-house MS database. International Journal of Food Microbiology, 2017, 254, 1-10.	4.7	14
49	Structural control of scarps in the Rembrandt region of Mercury. Icarus, 2012, 219, 511-514.	2.5	13
50	Laser photodissociation of ketene at 230 nm. Chemical Physics, 1998, 232, 353-360.	1.9	12
51	Nanometric in-depth characterization of P diffusion and TiO2 anti-reflective coatings in solar cells by laser ionization time-of-flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2003, 18, 779.	3.0	12
52	The hand structure of Carnotaurus sastrei (Theropoda, Abelisauridae): implications for hand diversity and evolution in abelisaurids. Palaeontology, 2011, 54, 1271-1277.	2.2	11
53	Looking at the Origin: Some Insights into the General and Fermentative Microbiota of Vineyard Soils. Fermentation, 2019, 5, 78.	3.0	11
54	Unequal Î›-doublet spectral intensities in CH (A 2Î”â†'X 2Î) emission obtained in the ArF laser multiphoton dissociation of ketene. Chemical Physics Letters, 1993, 202, 179-182.	2.6	10

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55	Heat flow and thickness of a convective ice shell on Europa for grain size-dependent rheologies. Icarus, 2007, 190, 145-154.	2.5	10
56	3D modeling of planetary lobate scarps: The case of Ogygis Rupes, Mars. Earth and Planetary Science Letters, 2020, 532, 116004.	4.4	10
57	Rotationally Resolved Rate Constant Measurements for Removal of CH(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 67 0.5 9 by Ketene. Laser Chemistry, 1994, 14, 207-216.		
58	Response of Spanish stock market to ECB monetary policy during financial crisis. The Spanish Review of Financial Economics, 2015, 13, 41-47.	0.8	9
59	Structured emission induced by ArF laser excitation of ketene in a molecular beam. Chemical Physics Letters, 1994, 226, 300-304.	2.6	8
60	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
61	Structural modeling of lobate scarps in the NW margin of Argyre impact basin, Mars. Icarus, 2019, 319, 367-380.	2.5	8
62	Global distribution of <scp>IRC7</scp> alleles in <scp>Saccharomyces cerevisiae</scp> populations: a genomic and phenotypic survey within the wine clade. Environmental Microbiology, 2021, 23, 3182-3195.	3.8	8
63	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
64	Regional heat flow and subsurface temperature patterns at Elysium Planitia and Oxia Planum areas, Mars. Icarus, 2021, 353, 113379.	2.5	7
65	Ion extraction effects on the in-depth analysis of layered samples by time-of-flight mass spectrometry of laser-induced plasmas. Journal of Analytical Atomic Spectrometry, 2002, 17, 929-932.	3.0	6
66	Influence of an insulating megaregolith on heat flow and crustal temperature structure of Mercury. Icarus, 2014, 232, 220-225.	2.5	6
67	Stock market bubbles and monetary policy effectiveness. European Journal of Finance, 2021, 27, 963-975.	3.1	6
68	Fast-running theropods tracks from the Early Cretaceous of La Rioja, Spain. Scientific Reports, 2021, 11, 23095.	3.3	6
69	Amplitude of heat flow variations on Mars from possible shoreline topography. Journal of Geophysical Research, 2003, 108, .	3.3	5
70	Heat flow in Triton: Implications for heat sources powering recent geologic activity. Planetary and Space Science, 2018, 160, 19-25.	1.7	5
71	Evidence of thrust faulting and widespread contraction of Ceres. Nature Astronomy, 2019, 3, 916-921.	10.1	5
72	Onset of Convection, Heat Flow and Thickness of the Europaâ€˜s ice Shell. Earth, Moon and Planets, 1997, 77, 99-104.	0.6	4

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73	Rotational energy transfer in CD(A, v=0) in collisions with Ar. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 132, 19-24.	3.9	4
74	Possibility of Convection for Diffusion (Newtonian) Viscosity in the Ice Shell of Europa?. Earth, Moon and Planets, 2003, 93, 281-287.	0.6	4
75	Seas under ice: Stability of liquid-water oceans within icy worlds. Earth, Moon and Planets, 2006, 97, 79-90.	0.6	4
76	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
77	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
78	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
79	Heat flow evolution of the Earth from paleomantle temperatures: Evidence for increasing heat loss since â^¼2.5 Ga. Physics of the Earth and Planetary Interiors, 2017, 269, 165-171.	1.9	4
80	A spatially explicit analysis of Paysandisia archon attack on the endemic Mediterranean dwarf palm. Biological Invasions, 2018, 20, 1719-1734.	2.4	4
81	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
82	HCL(B1â^+) and HBr(B1â^+) Emission From the Ultraviolet Multiphoton Dissociation of Vinyl Chloride and Bromide. Laser Chemistry, 1996, 16, 207-218.	0.5	3
83	ArF laser dissociation of trisilane. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 101, 1-5.	3.9	3
84	Modeling of Landslides in Valles Marineris, Mars, and Implications for Initiation Mechanism. Earth, Moon and Planets, 2016, 118, 15-26.	0.6	3
85	The thermal structure and mechanical behavior of the martian lithosphere. Icarus, 2021, 353, 113635.	2.5	3
86	Application of Non-Saccharomyces Yeasts in Wine Production. , 2019, , 75-89.		3
87	Nephro-urological outcomes of a proactive management of children with spina bifida in their first 5ÂYears of life. Journal of Pediatric Urology, 2022, 18, 181.e1-181.e7.	1.1	3
88	Strong Calcite-Like Spectra Cathodoluminescence Emission from Allende Meteorite Cai Phases. Spectroscopy Letters, 2011, 44, 516-520.	1.0	2
89	Paleo-heat flows, radioactive heat generation, and the cooling and deformation history of Mercury. Icarus, 2013, 225, 86-92.	2.5	2
90	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

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91	Heat Flow and Thermal State of the Crust of the Icy Galilean Satellites. Earth, Moon and Planets, 2012, 109, 117-125.	0.6	1
92	Evidence for two stages of compressive deformation in a buried basin of Mercury. Icarus, 2015, 254, 18-23.	2.5	1
93	On the calculation of occlusal bite pressures for fossil hominins. Journal of Human Evolution, 2017, 102, 67-71.	2.6	1
94	â€œEpsteinâ€Barr virus associated smooth muscle tumour as an unusual cause of ureteric graft obstruction in a childâ€• Pediatric Transplantation, 2021, 25, e14109.	1.0	1
95	Is Earth-based scaling a valid procedure for calculating heat flows for Mars?. Icarus, 2013, 226, 536-540.	2.5	0
96	Directed metabolomic approaches for the characterization and development of new yeast strains. BIO Web of Conferences, 2015, 5, 02003.	0.2	0
97	Stock Market Bubbles and Monetary Policy Effectiveness. SSRN Electronic Journal, 2016, , .	0.4	0
98	Transmission of the European Central Bank Monetary Policy Across Regional Stocks Markets. SSRN Electronic Journal, 0, , .	0.4	0