

# Rosario Brunetto

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,763  
citations

331670

21  
h-index

345221

36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1304  
citing authors

#	ARTICLE	IF	CITATIONS
1	The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. <i>Science</i> , 2019, 364, 272-275.	12.6	262
2	Ion irradiation of carbonaceous chondrites: A new view of space weathering on primitive asteroids. <i>Icarus</i> , 2017, 285, 43-57.	2.5	136
3	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
4	Elastic collisions in ion irradiation experiments: A mechanism for space weathering of silicates. <i>Icarus</i> , 2005, 179, 265-273.	2.5	106
5	Modeling asteroid surfaces from observations and irradiation experiments: The case of 832 Karin. <i>Icarus</i> , 2006, 184, 327-337.	2.5	92
6	Space weathering of near-Earth and main belt silicate-rich asteroids: observations and ion irradiation experiments. <i>Astronomy and Astrophysics</i> , 2005, 443, 769-775.	5.1	85
7	INTERPLANETARY DUST PARTICLES AS SAMPLES OF ICY ASTEROIDS. <i>Astrophysical Journal</i> , 2015, 806, 204.	4.5	85
8	Space Weathering in the Main Asteroid Belt: The Big Picture. <i>Astrophysical Journal</i> , 2006, 647, L179-L182.	4.5	80
9	Paucity of Tagish Lake-like parent bodies in the Asteroid Belt and among Jupiter Trojans. <i>Icarus</i> , 2013, 225, 517-525.	2.5	74
10	First compositional analysis of Ryugu samples by the MicrOmega hyperspectral microscope. <i>Nature Astronomy</i> , 2022, 6, 221-225.	10.1	65
11	Asteroid colors: a novel tool for magnetic field detection? The case of Vesta. <i>Astronomy and Astrophysics</i> , 2006, 451, L43-L46.	5.1	62
12	Ion irradiation of Allende meteorite probed by visible, IR, and Raman spectroscopies. <i>Icarus</i> , 2014, 237, 278-292.	2.5	60
13	Ion irradiation of the Murchison meteorite: Visible to mid-infrared spectroscopic results. <i>Astronomy and Astrophysics</i> , 2015, 577, A41.	5.1	59
14	Comparison of the Raman spectra of ion irradiated soot and collected extraterrestrial carbon. <i>Icarus</i> , 2009, 200, 323-337.	2.5	55
15	DIFFERENT ORIGINS OR DIFFERENT EVOLUTIONS? DECODING THE SPECTRAL DIVERSITY AMONG C-TYPE ASTEROIDS. <i>Astronomical Journal</i> , 2017, 153, 72.	4.7	55
16	Mid-IR, Far-IR, Raman micro-spectroscopy, and FESEM-EDX study of IDP L2021C5: Clues to its origin. <i>Icarus</i> , 2011, 212, 896-910.	2.5	53
17	Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250.	10.1	47
18	Optical characterization of laser ablated silicates. <i>Icarus</i> , 2007, 191, 381-393.	2.5	31

#	ARTICLE	IF	CITATIONS
19	Space weathering of Vesta and V-type asteroids: new irradiation experiments on HED meteorites. <i>Astronomy and Astrophysics</i> , 2012, 537, L11.	5.1	30
20	Visible-IR and Raman microspectroscopic investigation of three Itokawa particles collected by Hayabusa: Mineralogy and degree of space weathering based on nondestructive analyses. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1562-1576.	1.6	24
21	Spectrally blue hydrated parent body of asteroid (162173) Ryugu. <i>Nature Communications</i> , 2021, 12, 5837.	12.8	23
22	Characterizing irradiated surfaces using IR spectroscopy. <i>Icarus</i> , 2020, 345, 113722.	2.5	22
23	Organic and mineralogic heterogeneity of the Paris meteorite followed by FTIR hyperspectral imaging. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2608-2623.	1.6	18
24	Testing space weathering models on A-type asteroid (1951) Lick. <i>Astronomy and Astrophysics</i> , 2007, 472, 653-656.	5.1	14
25	Hyperspectral FTIR imaging of irradiated carbonaceous meteorites. <i>Planetary and Space Science</i> , 2018, 158, 38-45.	1.7	12
26	Comparison of space weathering spectral changes induced by solar wind and micrometeoroid impacts using ion- and femtosecond-laser-irradiated olivine and pyroxene. <i>Astronomy and Astrophysics</i> , 2021, 654, A143.	5.1	11
27	Space Weathering Affects the Remote Near-IR Identification of Phyllosilicates. <i>Planetary Science Journal</i> , 2020, 1, 61.	3.6	11
28	A Mineralogical Context for the Organic Matter in the Paris Meteorite Determined by A Multi-Technique Analysis. <i>Life</i> , 2019, 9, 44.	2.4	10
29	Near-infrared Methanol Bands Probe Energetic Processing of Icy Outer Solar System Objects. <i>Astrophysical Journal Letters</i> , 2020, 894, L3.	8.3	8
30	Performance comparison of aperture-less and confocal infrared microscopes. <i>Journal of Spectral Imaging</i> , 0, , .	0.0	8
31	NORTHWEST AFRICA (NWA) 12563 and ungrouped C2 chondrites: Alteration styles and relationships to asteroids. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 311, 238-273.	3.9	7
32	Calibration and performances of the MicrOmega instrument for the characterization of asteroid Ryugu returned samples. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	5
33	Vis-NIR Reflectance Microspectroscopy of IDPs. <i>Planetary Science Journal</i> , 2020, 1, 62.	3.6	4
34	Multiscale correlated analysis of the Aguas Zarcas CM chondrite. <i>Meteoritics and Planetary Science</i> , 2022, 57, 965-988.	1.6	4
35	Spectrophotometric Properties of 162173 Ryugu's Surface from the NIRS3 Opposition Observations. <i>Planetary Science Journal</i> , 2021, 2, 178.	3.6	3
36	Geometry induced bias in the remote near-IR identification of phyllosilicates on space weathered bodies. <i>Icarus</i> , 2022, 376, 114887.	2.5	3

#	ARTICLE	IF	CITATIONS
37	Polyaromatic Units Set the Albedo of Dark Extraterrestrial Materials. Planetary Science Journal, 2022, 3, 10.	3.6	1