

Reto Trappitsch

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,118
citations

331670

21
h-index

395702

33
g-index

44
all docs

44
docs citations

44
times ranked

1236
citing authors

#	ARTICLE	IF	CITATIONS
1	NUGRID STELLAR DATA SET. I. STELLAR YIELDS FROM H TO BI FOR STARS WITH METALLICITIES $Z = 0.02$ and $Z = 0.01$. <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 24.	7.7	172
2	CHILI – the Chicago Instrument for Laser Ionization – a new tool for isotope measurements in cosmochemistry. <i>International Journal of Mass Spectrometry</i> , 2016, 407, 1-15.	1.5	68
3	APPLICATION OF A THEORY AND SIMULATION-BASED CONVECTIVE BOUNDARY MIXING MODEL FOR AGB STAR EVOLUTION AND NUCLEOSYNTHESIS. <i>Astrophysical Journal</i> , 2016, 827, 30.	4.5	62
4	CARBON-RICH PRESOLAR GRAINS FROM MASSIVE STARS: SUBSOLAR $^{12}\text{C}/^{13}\text{C}$ AND $^{14}\text{N}/^{15}\text{N}$ RATIOS AND THE MYSTERY OF ^{15}N . <i>Astrophysical Journal Letters</i> , 2015, 808, L43.	8.3	61
5	Lifetimes of interstellar dust from cosmic ray exposure ages of presolar silicon carbide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1884-1889.	7.1	57
6	NuGrid stellar data set – III. Updated low-mass AGB models and s-process nucleosynthesis with metallicities $Z=0.01$, $Z=0.02$, and $Z=0.03$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 1082-1098.	4.4	46
7	MESA and NuGrid simulations of classical novae: CO and ONe nova nucleosynthesis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2058-2074.	4.4	45
8	New Constraints on the Abundance of ^{60}Fe in the Early Solar System. <i>Astrophysical Journal Letters</i> , 2018, 857, L15.	8.3	40
9	Chronology of martian breccia NWA 7034 and the formation of the martian crustal dichotomy. <i>Science Advances</i> , 2018, 4, eaap8306.	10.3	38
10	Noble gases in 18 Martian meteorites and angrite Northwest Africa 7812 – Exposure ages, trapped gases, and a re-evaluation of the evidence for solar cosmic ray-produced neon in shergottites and other achondrites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 407-428.	1.6	36
11	Potassic, high-silica Hadean crust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6353-6356.	7.1	33
12	Strontium and barium isotopes in presolar silicon carbide grains measured with CHILI – two types of X grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 109-126.	3.9	31
13	The production rate of cosmogenic deuterium at the Moon's surface. <i>Earth and Planetary Science Letters</i> , 2017, 474, 76-82.	4.4	30
14	SILICON CARBIDE GRAINS OF TYPE C PROVIDE EVIDENCE FOR THE PRODUCTION OF THE UNSTABLE ISOTOPE ^{32}Si IN SUPERNOVAE. <i>Astrophysical Journal Letters</i> , 2013, 771, L7.	8.3	29
15	New Constraints on the Major Neutron Source in Low-mass AGB Stars. <i>Astrophysical Journal</i> , 2018, 865, 112.	4.5	29
16	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 87-108.	3.9	27
17	Molybdenum Isotopes in Presolar Silicon Carbide Grains: Details of s-process Nucleosynthesis in Parent Stars and Implications for r- and p-processes. <i>Astrophysical Journal</i> , 2019, 877, 101.	4.5	27
18	Cosmogenic production rates and recoil loss effects in micrometeorites and interplanetary dust particles. <i>Meteoritics and Planetary Science</i> , 2013, 48, 195-210.	1.6	26

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19	J-type Carbon Stars: A Dominant Source of ^{14}N -rich Presolar SiC Grains of Type AB. <i>Astrophysical Journal Letters</i> , 2017, 844, L12.	8.3	25
20	Effects of Plume Hydrodynamics and Oxidation on the Composition of a Condensing Laser-Induced Plasma. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1584-1591.	2.5	25
21	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins. <i>Astrophysical Journal</i> , 2019, 881, 28.	4.5	23
22	High Useful Yield and Isotopic Analysis of Uranium by Resonance Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 6224-6231.	6.5	22
23	^{60}Fe in core-collapse supernovae and prospects for X-ray and gamma-ray detection in supernova remnants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4287-4310.	4.4	22
24	Origin of Large Meteoritic SiC Stardust Grains in Metal-rich AGB Stars. <i>Astrophysical Journal</i> , 2020, 898, 96.	4.5	21
25	The neutron capture process in the He shell in core-collapse supernovae: Presolar silicon carbide grains as a diagnostic tool for nuclear astrophysics. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 37-46.	3.9	18
26	Common Occurrence of Explosive Hydrogen Burning in Type II Supernovae. <i>Astrophysical Journal</i> , 2018, 855, 144.	4.5	15
27	He and Ne in individual chromite grains from the regolith breccia Ghubara (L5): Exploring the history of the L chondrite parent body regolith. <i>Meteoritics and Planetary Science</i> , 2014, 49, 576-594.	1.6	11
28	New Resonance Ionization Mass Spectrometry Scheme for Improved Uranium Analysis. <i>Analytical Chemistry</i> , 2018, 90, 10551-10558.	6.5	11
29	Simultaneous Isotopic Analysis of U, Pu, and Am in Spent Nuclear Fuel by Resonance Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 9505-9512.	6.5	11
30	Iron and nickel isotope compositions of presolar silicon carbide grains from supernovae. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 127-144.	3.9	11
31	Cosmic ray effects on the isotope composition of hydrogen and noble gases in lunar samples: Insights from Apollo 12. <i>Earth and Planetary Science Letters</i> , 2020, 550, 116550.	4.4	10
32	Electronic excitation of uranium atoms sputtered from uranium metal and oxides. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 214-221.	2.9	8
33	PRODUCTION AND RECOIL LOSS OF COSMOGENIC NUCLIDES IN PRESOLAR GRAINS. <i>Astrophysical Journal</i> , 2016, 823, 12.	4.5	7
34	Neon produced by solar cosmic rays in ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1155-1172.	1.6	6
35	Resonance ionization of titanium: high useful yield and new autoionizing states. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1962-1969.	3.0	6
36	SOLAR COSMIC-RAY INTERACTION WITH PROTOPLANETARY DISKS: PRODUCTION OF SHORT-LIVED RADIONUCLIDES AND AMORPHIZATION OF CRYSTALLINE MATERIAL. <i>Astrophysical Journal</i> , 2015, 805, 5.	4.5	5

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37	The fall, recovery, classification, and initial characterization of the Hamburg, Michigan H4 chondrite. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2341-2359.	1.6	4
38	CHILL, a Nanobeam Secondary Neutral Mass Spectrometer with Extraordinary Spatial Resolution, Sensitivity, and Selectivity: First Results. <i>Microscopy and Microanalysis</i> , 2015, 21, 1143-1144.	0.4	0
39	Corrigendum to "Diffusion of helium in SiC and implications for retention of cosmogenic He" [Geochim. Cosmochim. acta 192 (2016) 248-257]. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 196, 403.	3.9	0
40	Mixed messages from a nova outburst. <i>Nature Astronomy</i> , 2019, 3, 583-584.	10.1	0