

Thomas J Zega

List of Publications by Year in descending order

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43
papers

1,926
citations

471509

17
h-index

361022

35
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43
all docs

43
docs citations

43
times ranked

1609
citing authors

#	ARTICLE	IF	CITATIONS
1	A nanometric window on fullerene formation in the interstellar medium: insights from molecular dynamics studies. <i>Journal of Chemical Physics</i> , 2022, 156, 154704.	3.0	2
2	Earliest evidence of nebular shock waves recorded in a calcium-aluminum-rich Inclusion. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 332, 369-388.	3.9	3
3	Destructive Processing of Silicon Carbide Grains: Experimental Insights into the Formation of Interstellar Fullerenes and Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2022, 126, 5761-5767.	2.5	4
4	Density Functional Theory Driven Analysis of the Interplay among Structure, Composition, and Oxidation State of Titanium in Hibonite, Spinel, and Perovskite. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 544-552.	2.7	3
5	Atomic-scale Evidence for Open-system Thermodynamics in the Early Solar Nebula. <i>Planetary Science Journal</i> , 2021, 2, 115.	3.6	5
6	The Fe/S ratio of pyrrhotite group sulfides in chondrites: An indicator of oxidation and implications for return samples from asteroids Ryugu and Bennu. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 303, 66-91.	3.9	24
7	An inÂsitu investigation on the origins and processing of circumstellar oxide and silicate grains in carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1207-1227.	1.6	7
8	The effects of secondary processing in the unique carbonaceous chondrite Miller Range 07687. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1228-1256.	1.6	8
9	Formation of Interstellar C₆₀ from Silicon Carbide Circumstellar Grains. <i>Astrophysical Journal Letters</i> , 2019, 883, L43.	8.3	25
10	Petrographic and compositional indicators of formation and alteration conditions from LL chondrite sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 264, 165-179.	3.9	12
11	Calculation of Chemical Shift for Ti via EELS White-Line-Ratio Method. <i>Microscopy and Microanalysis</i> , 2019, 25, 662-663.	0.4	2
12	In situ Ion Irradiation and Heating Experiments in the Transmission Electron Microscope: Simulations of Dust Processing in Circumstellar Environments. <i>Microscopy and Microanalysis</i> , 2019, 25, 2454-2455.	0.4	0
13	Coordinated Analyses of a Supernova Polycrystalline Olivine Aggregate in the CO Chondrite Dominion Range 08006. <i>Microscopy and Microanalysis</i> , 2019, 25, 2490-2491.	0.4	1
14	Laboratory evidence for co-condensed oxygen- and carbon-rich meteoritic stardust from nova outbursts. <i>Nature Astronomy</i> , 2019, 3, 626-630.	10.1	6
15	Presolar silicates in the matrix and fine-grained rims around chondrules in primitive CO3.0 chondrites: Evidence for pre-accretionary aqueous alteration of the rims in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 379-405.	3.9	44
16	Mass-Thickness Measurements in the TEM via EDS: A New Approach to Quantitative Chemical Analysis of Planetary Materials?. <i>Microscopy and Microanalysis</i> , 2018, 24, 2084-2085.	0.4	1
17	Aberration-corrected STEM/TEM Chemical Analysis and Imaging of Meteoritic Refractory Oxide Assemblages. <i>Microscopy and Microanalysis</i> , 2018, 24, 2090-2091.	0.4	0
18	Nanoscale Investigation of Thermal Alteration of Chondritic Meteorites via Simultaneous Secondary and Transmitted Electron Imaging during In Situ Heating up to 1000 oC. <i>Microscopy and Microanalysis</i> , 2018, 24, 2102-2103.	0.4	1

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19	Toward Quantification of Ti-Oxidation States in Planetary Materials via Application of the EELS White-Line Ratio Technique. <i>Microscopy and Microanalysis</i> , 2018, 24, 2086-2087.	0.4	1
20	Low-Voltage Energy-Dispersive X-ray Spectroscopy and Electron Energy-Loss Spectroscopy Analysis of Presolar Graphite Spherules. <i>Microscopy and Microanalysis</i> , 2018, 24, 2110-2111.	0.4	0
21	Investigation of the Nature of Capping Layer Materials for FIB-SEM Preparation: Implications for the Study of Carbonaceous Material in Extraterrestrial Samples. <i>Microscopy and Microanalysis</i> , 2017, 23, 1820-1821.	0.4	0
22	Collection Efficiency of the Twin EDS Detectors for Quantitative X-ray Analysis on A New Probe-Corrected TEM/STEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 520-521.	0.4	2
23	The Structure and Electronic States of Self-Assembled C60 Crystals. <i>Microscopy and Microanalysis</i> , 2017, 23, 1818-1819.	0.4	0
24	Atomic-Resolution Analysis of Perovskite from the Early Solar System. <i>Microscopy and Microanalysis</i> , 2016, 22, 1778-1779.	0.4	0
25	Microstructural analysis of Warköfer rims in the Allende and Axtell CV3 chondrites: Implications for high-temperature nebular processes. <i>Meteoritics and Planetary Science</i> , 2016, 51, 743-756.	1.6	17
26	The First Solar System Solids as Revealed Through Slice-and-View Imaging. <i>Microscopy and Microanalysis</i> , 2015, 21, 2105-2106.	0.4	1
27	CIRCUMSTELLAR MAGNETITE FROM THE LAP 031117 CO3.0 CHONDRITE. <i>Astrophysical Journal</i> , 2015, 808, 55.	4.5	17
28	The formation and alteration of the Renazzo-like carbonaceous chondrites: Toward understanding the genesis of ferromagnesian chondrules. <i>Meteoritics and Planetary Science</i> , 2015, 50, 15-50.	1.6	64
29	Testing variations within the Tagish Lake meteorite: Mineralogy and petrology of pristine samples. <i>Meteoritics and Planetary Science</i> , 2014, 49, 473-502.	1.6	45
30	A transmission electron microscopy study of presolar spinel. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 124, 152-169.	3.9	29
31	Assessment of alteration processes on circumstellar and interstellar grains in Queen Alexandra Range 97416. <i>Earth and Planetary Science Letters</i> , 2014, 399, 128-138.	4.4	14
32	Isotopic and chemical variation of organic nanoglobules in primitive meteorites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 904-928.	1.6	78
33	Brearleyite, Ca ₁₂ Al ₁₄ O ₃₂ Cl ₂ , a new alteration mineral from the NWA 1934 meteorite. <i>American Mineralogist</i> , 2011, 96, 1199-1206.	1.9	39
34	Evidence for aqueous activity on comet 81P/Wild 2 from sulfide mineral assemblages in Stardust samples and CI chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3501-3513.	3.9	87
35	A TRANSMISSION ELECTRON MICROSCOPY STUDY OF PRESOLAR HIBONITE. <i>Astrophysical Journal</i> , 2011, 730, 83.	4.5	23
36	Isotopic anomalies in organic nanoglobules from Comet 81P/Wild 2: Comparison to Murchison nanoglobules and isotopic anomalies induced in terrestrial organics by electron irradiation. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4454-4470.	3.9	100

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37	Mineral associations and character of isotopically anomalous organic material in the Tagish Lake carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5966-5983.	3.9	40
38	Ultra-primitive interplanetary dust particles from the comet 26P/Grigg-Skjellerup dust stream collection. <i>Earth and Planetary Science Letters</i> , 2009, 288, 44-57.	4.4	187
39	A TEM study of thermally modified comet 81P/Wild 2 dust particles by interactions with the aerogel matrix during the Stardust capture process. <i>Meteoritics and Planetary Science</i> , 2008, 43, 97-120.	1.6	73
40	Coordinated isotopic and mineralogic analyses of planetary materials enabled by in situ lift-out with a focused ion beam scanning electron microscope. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1373-1386.	1.6	74
41	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
42	Polyhedral serpentine grains in CM chondrites. <i>Meteoritics and Planetary Science</i> , 2006, 41, 681-688.	1.6	36
43	Coordinated chemical and microstructural analyses of presolar silicate grains from AGB/RGB stars and supernovae in the CO3.0 chondrite Dominion Range 08006. <i>Meteoritics and Planetary Science</i> , 0, , .	1.6	3