Thomas J Zega

List of Publications by Year in descending order

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471509 361022 1,926 43 17 35 citations h-index g-index papers 43 43 43 1609 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716. | 12.6 | 848 |
| 2 | Ultra-primitive interplanetary dust particles from the comet 26P/Grigg–Skjellerup dust stream collection. Earth and Planetary Science Letters, 2009, 288, 44-57. | 4.4 | 187 |
| 3 | Isotopic anomalies in organic nanoglobules from Comet 81P/Wild 2: Comparison to Murchison nanoglobules and isotopic anomalies induced in terrestrial organics by electron irradiation. Geochimica Et Cosmochimica Acta, 2010, 74, 4454-4470. | 3.9 | 100 |
| 4 | Evidence for aqueous activity on comet 81P/Wild 2 from sulfide mineral assemblages in Stardust samples and CI chondrites. Geochimica Et Cosmochimica Acta, 2011, 75, 3501-3513. | 3.9 | 87 |
| 5 | Isotopic and chemical variation of organic nanoglobules in primitive meteorites. Meteoritics and Planetary Science, 2013, 48, 904-928. | 1.6 | 78 |
| 6 | Coordinated isotopic and mineralogic analyses of planetary materials enabled by in situ liftâ€out with a focused ion beam scanning electron microscope. Meteoritics and Planetary Science, 2007, 42, 1373-1386. | 1.6 | 74 |
| 7 | A TEM study of thermally modified comet 81P/Wild 2 dust particles by interactions with the aerogel matrix during the Stardust capture process. Meteoritics and Planetary Science, 2008, 43, 97-120. | 1.6 | 73 |
| 8 | The formation and alteration of the Renazzoâ€like carbonaceous chondrites <scp>III</scp> : Toward understanding the genesis of ferromagnesian chondrules. Meteoritics and Planetary Science, 2015, 50, 15-50. | 1.6 | 64 |
| 9 | Testing variations within the Tagish Lake meteoriteâ€"l: Mineralogy and petrology of pristine samples. Meteoritics and Planetary Science, 2014, 49, 473-502. | 1.6 | 45 |
| 10 | 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. Geochimica Et Cosmochimica Acta, 2018, 221, 379-405. | 3.9 | 44 |
| 11 | Mineral associations and character of isotopically anomalous organic material in the Tagish Lake carbonaceous chondrite. Geochimica Et Cosmochimica Acta, 2010, 74, 5966-5983. | 3.9 | 40 |
| 12 | Brearleyite, Ca12Al14O32Cl2, a new alteration mineral from the NWA 1934 meteorite. American Mineralogist, 2011, 96, 1199-1206. | 1.9 | 39 |
| 13 | Polyhedral serpentine grains in CM chondrites. Meteoritics and Planetary Science, 2006, 41, 681-688. | 1.6 | 36 |
| 14 | A transmission electron microscopy study of presolar spinel. Geochimica Et Cosmochimica Acta, 2014, 124, 152-169. | 3.9 | 29 |
| 15 | Formation of Interstellar C ₆₀ from Silicon Carbide Circumstellar Grains. Astrophysical Journal Letters, 2019, 883, L43. | 8.3 | 25 |
| 16 | The Fe/S ratio of pyrrhotite group sulfides in chondrites: An indicator of oxidation and implications for return samples from asteroids Ryugu and Bennu. Geochimica Et Cosmochimica Acta, 2021, 303, 66-91. | 3.9 | 24 |
| 17 | A TRANSMISSION ELECTRON MICROSCOPY STUDY OF PRESOLAR HIBONITE. Astrophysical Journal, 2011, 730, 83. | 4.5 | 23 |
| 18 | CIRCUMSTELLAR MAGNETITE FROM THE LAP 031117 CO3.0 CHONDRITE. Astrophysical Journal, 2015, 808, 55. | 4.5 | 17 |

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|----|---|------|-----------|
| 19 | Microstructural analysis of Wark‣overing rims in the Allende and Axtell <scp>CV</scp> 3 chondrites: Implications for highâ€temperature nebular processes. Meteoritics and Planetary Science, 2016, 51, 743-756. | 1.6 | 17 |
| 20 | Assessment of alteration processes on circumstellar and interstellar grains in Queen Alexandra Range 97416. Earth and Planetary Science Letters, 2014, 399, 128-138. | 4.4 | 14 |
| 21 | Petrographic and compositional indicators of formation and alteration conditions from LL chondrite sulfides. Geochimica Et Cosmochimica Acta, 2019, 264, 165-179. | 3.9 | 12 |
| 22 | The effects of secondary processing in the unique carbonaceous chondrite Miller Range 07687. Meteoritics and Planetary Science, 2020, 55, 1228-1256. | 1.6 | 8 |
| 23 | An inÂsitu investigation on the origins and processing of circumstellar oxide and silicate grains in carbonaceous chondrites. Meteoritics and Planetary Science, 2020, 55, 1207-1227. | 1.6 | 7 |
| 24 | Laboratory evidence for co-condensed oxygen- and carbon-rich meteoritic stardust from nova outbursts. Nature Astronomy, 2019, 3, 626-630. | 10.1 | 6 |
| 25 | Atomic-scale Evidence for Open-system Thermodynamics in the Early Solar Nebula. Planetary Science Journal, 2021, 2, 115. | 3.6 | 5 |
| 26 | Destructive Processing of Silicon Carbide Grains: Experimental Insights into the Formation of Interstellar Fullerenes and Carbon Nanotubes. Journal of Physical Chemistry A, 2022, 126, 5761-5767. | 2.5 | 4 |
| 27 | Density Functional Theory Driven Analysis of the Interplay among Structure, Composition, and Oxidation State of Titanium in Hibonite, Spinel, and Perovskite. ACS Earth and Space Chemistry, 2021, 5, 544-552. | 2.7 | 3 |
| 28 | Coordinated chemical and microstructural analyses of presolar silicate grains from AGB/RGB stars and supernovae in the CO3.0 chondrite Dominion Range 08006. Meteoritics and Planetary Science, 0, , . | 1.6 | 3 |
| 29 | Earliest evidence of nebular shock waves recorded in a calcium-aluminum-rich Inclusion. Geochimica Et Cosmochimica Acta, 2022, 332, 369-388. | 3.9 | 3 |
| 30 | Collection Efficiency of the Twin EDS Detectors for Quantitative X-ray Analysis on A New Probe-Corrected TEM/STEM. Microscopy and Microanalysis, 2017, 23, 520-521. | 0.4 | 2 |
| 31 | Calculation of Chemical Shift for Ti via EELS White-Line-Ratio Method. Microscopy and Microanalysis, 2019, 25, 662-663. | 0.4 | 2 |
| 32 | A nanometric window on fullerene formation in the interstellar medium: insights from molecular dynamics studies . Journal of Chemical Physics, 2022, 156, 154704. | 3.0 | 2 |
| 33 | The First Solar System Solids as Revealed Through Slice-and-View Imaging. Microscopy and Microanalysis, 2015, 21, 2105-2106. | 0.4 | 1 |
| 34 | Mass-Thickness Measurements in the TEM via EDS: A New Approach to Quantitative Chemical Analysis of Planetary Materials?. Microscopy and Microanalysis, 2018, 24, 2084-2085. | 0.4 | 1 |
| 35 | Nanoscale Investigation of Thermal Alteration of Chondritic Meteorites via Simultaneous Secondary and Transmitted Electron Imaging during In Situ Heating up to 1000 oC. Microscopy and Microanalysis, 2018, 24, 2102-2103. | 0.4 | 1 |
| 36 | Toward Quantification of Ti-Oxidation States in Planetary Materials via Application of the EELS White-Line Ratio Technique. Microscopy and Microanalysis, 2018, 24, 2086-2087. | 0.4 | 1 |

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|----|---|-----|-----------|
| 37 | Coordinated Analyses of a Supernova Polycrystalline Olivine Aggregate in the CO Chondrite Dominion Range 08006. Microscopy and Microanalysis, 2019, 25, 2490-2491. | 0.4 | 1 |
| 38 | Atomic-Resolution Analysis of Perovskite from the Early Solar System. Microscopy and Microanalysis, 2016, 22, 1778-1779. | 0.4 | 0 |
| 39 | Investigation of the Nature of Capping Layer Materials for FIB-SEM Preparation: Implications for the Study of Carbonaceous Material in Extraterrestrial Samples. Microscopy and Microanalysis, 2017, 23, 1820-1821. | 0.4 | 0 |
| 40 | The Structure and Electronic States of Self-Assembled C60 Crystals. Microscopy and Microanalysis, 2017, 23, 1818-1819. | 0.4 | 0 |
| 41 | Aberration-corrected STEM/TEM Chemical Analysis and Imaging of Meteoritic Refractory Oxide Assemblages. Microscopy and Microanalysis, 2018, 24, 2090-2091. | 0.4 | O |
| 42 | Low-Voltage Energy-Dispersive X-ray Spectroscopy and Electron Energy-Loss Spectroscopy Analysis of Presolar Graphite Spherules. Microscopy and Microanalysis, 2018, 24, 2110-2111. | 0.4 | 0 |
| 43 | In situ Ion Irradiation and Heating Experiments in the Transmission Electron Microscope: Simulations of Dust Processing in Circumstellar Environments. Microscopy and Microanalysis, 2019, 25, 2454-2455. | 0.4 | 0 |