

# Matthew S Dodd

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9322057/publications.pdf>

Version: 2024-02-01

25  
papers

1,228  
citations

623734

14  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1397  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Evidence for early life in Earth's oldest hydrothermal vent precipitates. <i>Nature</i> , 2017, 543, 60-64.  | 27.8 | 522       |
| 2  | Multiple sulfur isotopes from Paleoproterozoic Huronian interglacial sediments and the rise of atmospheric oxygen. <i>Earth and Planetary Science Letters</i> , 2007, 255, 188-212.  | 4.4  | 127       |
| 3  | Biological carbon precursor to diagenetic siderite with spherical structures in iron formations. <i>Nature Communications</i> , 2013, 4, 1741.   | 12.8 | 85        |
| 4  | Terminal Proterozoic cyanobacterial blooms and phosphogenesis documented by the Doushantuo granular phosphorites I: In situ micro-analysis of textures and composition. <i>Precambrian Research</i> , 2013, 235, 20-35.  | 2.7  | 61        |
| 5  | Ancient graphite in the Eoarchean quartz-pyroxene rocks from Akilia in southern West Greenland I: Petrographic and spectroscopic characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5862-5883.   | 3.9  | 55        |
| 6  | Ancient graphite in the Eoarchean quartz-pyroxene rocks from Akilia in southern West Greenland II: Isotopic and chemical compositions and comparison with Paleoproterozoic banded iron formations. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5884-5905. | 3.9  | 47        |
| 7  | Terminal Proterozoic cyanobacterial blooms and phosphogenesis documented by the Doushantuo granular phosphorites II: Microbial diversity and C isotopes. <i>Precambrian Research</i> , 2014, 251, 62-79.   | 2.7  | 39        |
| 8  | High-precision analysis of multiple sulfur isotopes using NanoSIMS. <i>Chemical Geology</i> , 2016, 420, 148-161.  | 3.3  | 35        |
| 9  | The catalytic role of planktonic aerobic heterotrophic bacteria in protodolomite formation: Results from Lake Jibuhulangtu Nuur, Inner Mongolia, China. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 263, 31-49.   | 3.9  | 35        |
| 10 | Widespread occurrences of variably crystalline <sup>13</sup> C-depleted graphitic carbon in banded iron formations. <i>Earth and Planetary Science Letters</i> , 2019, 512, 163-174.   | 4.4  | 28        |
| 11 | Chemically-oscillating reactions during the diagenetic oxidation of organic matter and in the formation of granules in late Palaeoproterozoic chert from Lake Superior. <i>Chemical Geology</i> , 2017, 470, 33-54.  | 3.3  | 27        |
| 12 | Metabolically diverse primordial microbial communities in Earth's oldest seafloor-hydrothermal jasper. <i>Science Advances</i> , 2022, 8, eabm2296.  | 10.3 | 24        |
| 13 | Development of carbonate-associated phosphate (CAP) as a proxy for reconstructing ancient ocean phosphate levels. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 301, 48-69.   | 3.9  | 22        |
| 14 | Organic remains in late Palaeoproterozoic granular iron formations and implications for the origin of granules. <i>Precambrian Research</i> , 2018, 310, 133-152.  | 2.7  | 20        |
| 15 | Chemically oscillating reactions in the formation of botryoidal malachite. <i>American Mineralogist</i> , 2020, 105, 447-454.  | 1.9  | 14        |
| 16 | Extensive primary production promoted the recovery of the Ediacaran Shuram excursion. <i>Nature Communications</i> , 2022, 13, 148.  | 12.8 | 14        |
| 17 | Abiotic anoxic iron oxidation, formation of Archean banded iron formations, and the oxidation of early Earth. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117469.  | 4.4  | 14        |
| 18 | Minimal biomass deposition in banded iron formations inferred from organic matter and clay relationships. <i>Nature Communications</i> , 2019, 10, 5022.   | 12.8 | 11        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Glacial origin of the Cryogenian Nantuo Formation in eastern Shennongjia area (South China): Implications for macroalgal survival. <i>Precambrian Research</i> , 2020, 351, 105969.                                   | 2.7 | 10        |
| 20 | Chemically Oscillating Reactions during the Diagenetic Formation of Ediacaran Siliceous and Carbonate Botryoids. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1060.   | 2.0 | 9         |
| 21 | Biosignatures Associated with Organic Matter in Late Paleoproterozoic Stromatolitic Dolomite and Implications for Martian Carbonates. <i>Astrobiology</i> , 2022, 22, 49-74.  | 3.0 | 7         |
| 22 | Dynamic carbon and sulfur cycling in the aftermath of the Lomagundi-Jatuli Event: Evidence from the Paleoproterozoic Hutuo Supergroup, North China Craton. <i>Precambrian Research</i> , 2020, 337, 105549.           | 2.7 | 6         |
| 23 | Organic diagenesis in stromatolitic dolomite and chert from the late Palaeoproterozoic McLeary Formation. <i>Precambrian Research</i> , 2021, 354, 106052.  | 2.7 | 6         |
| 24 | Fossil biomass preserved as graphitic carbon in a late Paleoproterozoic banded iron formation metamorphosed at more than 550°C. <i>Journal of the Geological Society</i> , 2019, 176, 651-668.                        | 2.1 | 5         |
| 25 | Barite in the Ediacaran Doushantuo Formation and its implications for marine carbon cycling during the largest negative carbon isotope excursion in Earth's history. <i>Precambrian Research</i> , 2022, 368, 106485. | 2.7 | 5         |