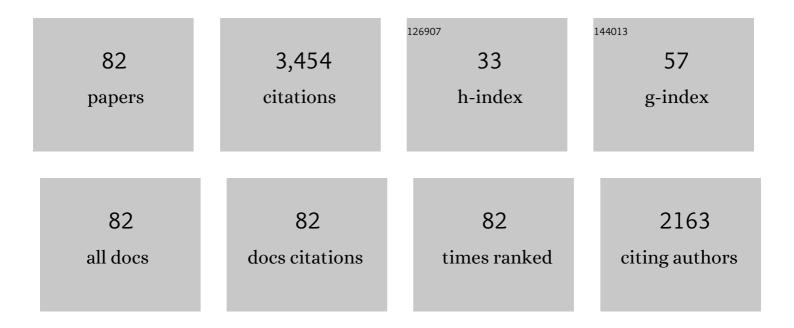
Andrew G Tomkins

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Windows of metamorphic sulfur liberation in the crust: Implications for gold deposit genesis. Geochimica Et Cosmochimica Acta, 2010, 74, 3246-3259. | 3.9 | 293 |
| 2 | PARTIAL MELTING OF SULFIDE ORE DEPOSITS DURING MEDIUM- AND HIGH-GRADE METAMORPHISM. Canadian Mineralogist, 2002, 40, 1-18. | 1.0 | 183 |
| 3 | Bimodal Distribution of Gold in Pyrite and Arsenopyrite: Examples from the Archean Boorara and Bardoc Shear Systems, Yilgarn Craton, Western Australia. Economic Geology, 2008, 103, 599-614. | 3.8 | 163 |
| 4 | Gold remobilisation and formation of high grade ore shoots driven by dissolution-reprecipitation replacement and Ni substitution into auriferous arsenopyrite. Geochimica Et Cosmochimica Acta, 2016, 178, 143-159. | 3.9 | 146 |
| 5 | On the source of orogenic gold. Geology, 2013, 41, 1255-1256. | 4.4 | 143 |
| 6 | The Hemlo Gold Deposit, Ontario: An Example of Melting and Mobilization of a Precious Metal-Sulfosalt Assemblage during Amphibolite Facies Metamorphism and Deformation. Economic Geology, 2004, 99, 1063-1084. | 3.8 | 130 |
| 7 | On the Initiation of Metamorphic Sulfide Anatexis. Journal of Petrology, 2006, 48, 511-535. | 2.8 | 122 |
| 8 | The relationship between subduction zone redox budget and arc magma fertility. Earth and Planetary Science Letters, 2011, 308, 401-409. | 4.4 | 102 |
| 9 | Fate of gold and base metals during metamorphic devolatilization of a pelite. Geochimica Et Cosmochimica Acta, 2015, 171, 338-352. | 3.9 | 97 |
| 10 | Upper Temperature Limits of Orogenic Gold Deposit Formation: Constraints from the Granulite-Hosted Griffin's Find Deposit, Yilgarn Craton. Economic Geology, 2009, 104, 669-685. | 3.8 | 89 |
| 11 | Magmatic Sulfide Formation by Reduction of Oxidized Arc Basalt. Journal of Petrology, 2012, 53, 1537-1567. | 2.8 | 89 |
| 12 | Separate zones of sulfate and sulfide release from subducted mafic oceanic crust. Earth and Planetary Science Letters, 2015, 428, 73-83. | 4.4 | 86 |
| 13 | Arsenic evolution as a tool for understanding formation of pyritic gold ores. Geology, 2019, 47, 335-338. | 4.4 | 83 |
| 14 | Mobilization of Gold as a Polymetallic Melt during Pelite Anatexis at the Challenger Deposit, South Australia: A Metamorphosed Archean Gold Deposit. Economic Geology, 2002, 97, 1249-1271. | 3.8 | 82 |
| 15 | Insights into subduction zone sulfur recycling from isotopic analysis of eclogite-hosted sulfides. Chemical Geology, 2014, 365, 1-19. | 3.3 | 73 |
| 16 | Gold in the oceans through time. Earth and Planetary Science Letters, 2015, 428, 139-150. | 4.4 | 72 |
| 17 | Implications of pyrite geochemistry for gold mineralisation and remobilisation in the Jiaodong gold district, northeast China. Ore Geology Reviews, 2015, 71, 150-168. | 2.7 | 68 |
| 18 | Multiple crust–mantle interactions for the destruction of the North China Craton: Geochemical and Sr–Nd–Pb–Hf isotopic evidence from the Longbaoshan alkaline complex. Lithos, 2011, 122, 87-106. | 1.4 | 64 |

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|----|--|------|-----------|
| 19 | Insights into the Liquid Bismuth Collector Model Through Analysis of the Bi-Au Stormont Skarn Prospect, Northwest Tasmania. Economic Geology, 2012, 107, 667-682. | 3.8 | 61 |
| 20 | Redistribution of Gold within Arsenopyrite and Lollingite during Pro- and Retrograde Metamorphism: Application to Timing of Mineralization. Economic Geology, 2001, 96, 525-534. | 3.8 | 60 |
| 21 | What metalâ€ŧroilite textures can tell us about postâ€impact metamorphism in chondrite meteorites. Meteoritics and Planetary Science, 2009, 44, 1133-1149. | 1.6 | 60 |
| 22 | A Biogeochemical Influence on the Secular Distribution of Orogenic Gold. Economic Geology, 2013, 108, 193-197. | 3.8 | 54 |
| 23 | REE-Y, Ti, and P Remobilization in Magmatic Rocks by Hydrothermal Alteration during Cu-Au Deposit Formation. Economic Geology, 2010, 105, 763-776. | 3.8 | 53 |
| 24 | Pyrite-Pyrrhotite Stability in a Metamorphic Aureole: Implications for Orogenic Gold Genesis. Economic Geology, 2017, 112, 661-674. | 3.8 | 49 |
| 25 | ARSENOPYRITE MELTING DURING METAMORPHISM OF SULFIDE ORE DEPOSITS. Canadian Mineralogist, 2006, 44, 1045-1062. | 1.0 | 48 |
| 26 | The role of fluorine in hydrothermal mobilization and transportation of Fe, U and REE and the formation of IOCG deposits. Chemical Geology, 2019, 504, 158-176. | 3.3 | 46 |
| 27 | Ancient micrometeorites suggestive of an oxygen-rich Archaean upper atmosphere. Nature, 2016, 533, 235-238. | 27.8 | 45 |
| 28 | Disequilibrium melting and melt migration driven by impacts: Implications for rapid planetesimal core formation. Geochimica Et Cosmochimica Acta, 2013, 100, 41-59. | 3.9 | 41 |
| 29 | Three mechanisms of ore re-mobilisation during amphibolite facies metamorphism at the Montauban Zn–Pb–Au–Ag deposit. Mineralium Deposita, 2007, 42, 627-637. | 4.1 | 40 |
| 30 | Generation of metal-rich felsic magmas during crustal anatexis. Geology, 2003, 31, 765. | 4.4 | 39 |
| 31 | Aseismic Refinement of Orogenic Gold Systems. Economic Geology, 2020, 115, 33-50. | 3.8 | 38 |
| 32 | Recycling of Proterozoic crust in Pleistocene juvenile magma and rapid formation of the Ok Tedi porphyry Cu–Au deposit, Papua New Guinea. Lithos, 2010, 114, 282-292. | 1.4 | 37 |
| 33 | Mobilization of Gold as a Polymetallic Melt during PeliteAnatexis at the Challenger Deposit, South Australia: A MetamorphosedArchean Gold Deposit. Economic Geology, 2002, 97, 1249-1271. | 3.8 | 36 |
| 34 | The mineralogy and petrology of I-type cosmic spherules: Implications for their sources, origins and identification in sedimentary rocks. Geochimica Et Cosmochimica Acta, 2017, 218, 167-200. | 3.9 | 36 |
| 35 | Wetting facilitates late-stage segregation of precious metal–enriched sulfosalt melt in magmatic sulfide systems. Geology, 2010, 38, 951-954. | 4.4 | 35 |
| 36 | Investigation of the H7 ordinary chondrite, Watson 012: Implications for recognition and classification of Type 7 meteorites. Geochimica Et Cosmochimica Acta, 2014, 134, 175-196. | 3.9 | 34 |

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| 37 | Geochronological constraints on the polymetamorphic evolution of the granulite-hosted Challenger gold deposit: implications for assembly of the northwest Gawler Craton*. Australian Journal of Earth Sciences, 2004, 51, 1-14. | 1.0 | 32 |
| 38 | Restriction of parent body heating by metalâ€troilite melting: Thermal models for the ordinary chondrites. Meteoritics and Planetary Science, 2014, 49, 636-651. | 1.6 | 30 |
| 39 | Sulfur isotope and PGE systematics of metasomatised mantle wedge. Earth and Planetary Science Letters, 2018, 497, 181-192. | 4.4 | 30 |
| 40 | Sulfur isotope evolution in sulfide ores from Western Alps: Assessing the influence of subduction-related metamorphism. Geochemistry, Geophysics, Geosystems, 2014, 15, 3808-3829. | 2.5 | 28 |
| 41 | Recognizing hydrothermal alteration through a granulite facies metamorphic overprint at the challenger Au deposit, South Australia. Chemical Geology, 2007, 243, 64-89. | 3.3 | 27 |
| 42 | Anomalously silver-rich vein-hosted mineralisation in disseminated-style gold deposits, Jiaodong gold district, China. Ore Geology Reviews, 2015, 68, 127-141. | 2.7 | 26 |
| 43 | Mobility of iron and nickel at low temperatures: Implications for 60Fe–60Ni systematics of chondrules from unequilibrated ordinary chondrites. Geochimica Et Cosmochimica Acta, 2016, 178, 87-105. | 3.9 | 25 |
| 44 | Release of uranium from highly radiogenic zircon through metamictization: The source of orogenic uranium ores. Geology, 2016, 44, 15-18. | 4.4 | 24 |
| 45 | Cobalt concentration in a sulfidic sea and mobilization during orogenesis: Implications for targeting epigenetic sediment-hosted Cu-Co deposits. Geochimica Et Cosmochimica Acta, 2021, 305, 1-18. | 3.9 | 24 |
| 46 | Fluorine and chlorine behaviour during progressive dehydration melting: Consequences for granite geochemistry and metallogeny. Journal of Metamorphic Geology, 2017, 35, 739-757. | 3.4 | 22 |
| 47 | Microbial Populations of Stony Meteorites: Substrate Controls on First Colonizers. Frontiers in Microbiology, 2017, 8, 1227. | 3.5 | 22 |
| 48 | Evaporite-bearing orogenic belts produce ligand-rich and diverse metamorphic fluids. Geochimica Et Cosmochimica Acta, 2020, 275, 163-187. | 3.9 | 22 |
| 49 | Trace element catalyses mineral replacement reactions and facilitates ore formation. Nature Communications, 2021, 12, 1388. | 12.8 | 19 |
| 50 | New insights into the size and timing of the Lawn Hill impact structure: relationship to the Century Zn–ÅPb deposit. Australian Journal of Earth Sciences, 2008, 55, 587-603. | 1.0 | 17 |
| 51 | Preferential magma extraction from K- and metal-enriched source regions in the crust. Mineralium Deposita, 2009, 44, 171-181. | 4.1 | 17 |
| 52 | A review of the chondrite–achondrite transition, and a metamorphic facies series for equilibrated primitive stony meteorites. Meteoritics and Planetary Science, 2020, 55, 857-885. | 1.6 | 16 |
| 53 | Fe-carbide and Fe-sulfide liquid immiscibility in IAB meteorite, Campo del Cielo: Implications for iron meteorite chemistry and planetesimal core compositions. Geochimica Et Cosmochimica Acta, 2013, 117, 80-98. | 3.9 | 14 |
| 54 | The Lawn Hill annulus: An Ordovician meteorite impact into waterâ€saturated dolomite. Meteoritics and Planetary Science, 2016, 51, 2416-2440. | 1.6 | 14 |

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| 55 | Garnet peridotites reveal spatial and temporal changes in the oxidation potential of subduction. Scientific Reports, 2018, 8, 16411. | 3.3 | 14 |
| 56 | Smoking gun for thallium geochemistry in volcanic arcs: Nataliyamalikite, TlI, a new thallium mineral from an active fumarole at Avacha Volcano, Kamchatka Peninsula, Russia. American Mineralogist, 2017, 102, 1736-1746. | 1.9 | 13 |
| 57 | Tiny particles building huge ore deposits – Particle-based crystallisation in banded iron formation-hosted iron ore deposits (Hamersley Province, Australia). Ore Geology Reviews, 2019, 104, 160-174. | 2.7 | 13 |
| 58 | Extreme Silver Isotope Variation in Orogenic Gold Systems Implies Multistaged Metal Remobilization During Ore Genesis. Economic Geology, 2019, 114, 233-242. | 3.8 | 12 |
| 59 | Insights into salty metamorphic fluid evolution from scapolite in the Trans-North China Orogen: Implication for ore genesis. Geochimica Et Cosmochimica Acta, 2021, 293, 256-276. | 3.9 | 12 |
| 60 | Evaluation of meteorites as habitats for terrestrial microorganisms: Results from the Nullarbor Plain, Australia, a Mars analogue site. Geochimica Et Cosmochimica Acta, 2017, 215, 1-16. | 3.9 | 10 |
| 61 | High Survivability of Micrometeorites on Mars: Sites With Enhanced Availability of Limiting Nutrients. Journal of Geophysical Research E: Planets, 2019, 124, 1802-1818. | 3.6 | 10 |
| 62 | The variability of ruthenium in chromite from chassignite and olivineâ€phyric shergottite meteorites: New insights into the behavior of <scp>PGE</scp> and sulfur in Martian magmatic systems. Meteoritics and Planetary Science, 2017, 52, 333-350. | 1.6 | 7 |
| 63 | Atmospheric entry heating of micrometeorites at Earth and Mars: Implications for the survival of organics. Meteoritics and Planetary Science, 2019, 54, 1-19. | 1.6 | 7 |
| 64 | Analysis of a Telescoped Orogenic Gold System: Insights from the Fosterville Deposit. Economic Geology, 2020, 115, 1645-1664. | 3.8 | 7 |
| 65 | Deformation-induced silica redistribution in banded iron formation, Hamersley Province, Australia. Lithos, 2016, 266-267, 87-97. | 1.4 | 6 |
| 66 | Bi/Te control on gold mineralizing processes in the North China Craton: Insights from the Wulong gold deposit. Mineralium Deposita, 2023, 58, 263-286. | 4.1 | 6 |
| 67 | CRADE DISTRIBUTION OF THE GIANT OK TEDI Cu-Au DEPOSIT, PAPUA NEW GUINEA. Economic Geology, 2013, 108, 1773-1781. | 3.8 | 4 |
| 68 | Displacement of the Proterozoic Century Ore Deposit at the Edge of an Ordovician Meteorite Impact Crater, Queensland. Economic Geology, 2019, 114, 427-440. | 3.8 | 4 |
| 69 | A model for evolving crust on 4 Vesta through combined compositional and thermal modelling. Earth and Planetary Science Letters, 2021, 571, 117105. | 4.4 | 4 |
| 70 | Ore shoots in folded and fractured rocks – Insights from 3D modelling of the Fosterville gold deposit (Victoria, Australia). Ore Geology Reviews, 2020, 118, 103272. | 2.7 | 3 |
| 71 | Deformation Mechanisms in Orogenic Gold Systems During Aseismic Periods: Microstructural Evidence from the Central Victorian Gold Deposits, Southeast Australia. Economic Geology, 2021, 116, 1849-1864. | 3.8 | 3 |
| 72 | Release of uranium from highly radiogenic zircon through metamictization: The source of orogenic uranium ores: REPLY. Geology, 2016, 44, e404-e404. | 4.4 | 2 |

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| 73 | On the source of diogenites and olivine diogenites: Compositional diversity from variable fO2. Geochimica Et Cosmochimica Acta, 2019, 258, 37-49. | 3.9 | 2 |
| 74 | A small S-MIF signal in Martian regolith pyrite: Implications for the atmosphere. Geochimica Et Cosmochimica Acta, 2020, 290, 59-75. | 3.9 | 2 |
| 75 | CHOS gas/fluidâ€induced reduction in ureilites. Meteoritics and Planetary Science, 2021, 56, 2062. | 1.6 | 2 |
| 76 | Preservation of Terrestrial Microorganisms and Organics Within Alteration Products of Chondritic Meteorites from the Nullarbor Plain, Australia. Astrobiology, 2022, 22, 399-415. | 3.0 | 2 |
| 77 | Century Zn deposit–the world's largest meteorite impacted orebody. ASEG Extended Abstracts, 2019, 2019, 1-6. | 0.1 | 1 |
| 78 | Arsenic evolution as a tool for understanding formation of pyritic gold ores: REPLY. Geology, 2019, 47, e492-e492. | 4.4 | 1 |
| 79 | Eukaryotic Colonization of Micrometer-Scale Cracks in Rocks: A "Microfluidics―Experiment Using Naturally Weathered Meteorites from the Nullarbor Plain, Australia. Astrobiology, 2020, 20, 364-374. | 3.0 | 1 |
| 80 | GRADE DISTRIBUTION OF THE GIANT OK TEDI Cu-Au DEPOSIT, PAPUA NEW GUINEAA REPLY. Economic Geology, 2014, 109, 1493-1494. | 3.8 | 0 |
| 81 | Sulfide Minerals. Encyclopedia of Earth Sciences Series, 2017, , 1-3. | 0.1 | 0 |
| 82 | Sulfide Minerals. Encyclopedia of Earth Sciences Series, 2018, , 1394-1396. | 0.1 | 0 |