

Andrew G Tomkins

List of Publications by Year in descending order

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docs citations

82
times ranked

2163
citing authors

#	ARTICLE	IF	CITATIONS
1	Bi/Te control on gold mineralizing processes in the North China Craton: Insights from the Wulong gold deposit. <i>Mineralium Deposita</i> , 2023, 58, 263-286.	4.1	6
2	Preservation of Terrestrial Microorganisms and Organics Within Alteration Products of Chondritic Meteorites from the Nullarbor Plain, Australia. <i>Astrobiology</i> , 2022, 22, 399-415.	3.0	2
3	Insights into salty metamorphic fluid evolution from scapolite in the Trans-North China Orogen: Implication for ore genesis. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 256-276.	3.9	12
4	Trace element catalyses mineral replacement reactions and facilitates ore formation. <i>Nature Communications</i> , 2021, 12, 1388.	12.8	19
5	Cobalt concentration in a sulfidic sea and mobilization during orogenesis: Implications for targeting epigenetic sediment-hosted Cu-Co deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 305, 1-18.	3.9	24
6	A model for evolving crust on 4 Vesta through combined compositional and thermal modelling. <i>Earth and Planetary Science Letters</i> , 2021, 571, 117105.	4.4	4
7	Deformation Mechanisms in Orogenic Gold Systems During Aseismic Periods: Microstructural Evidence from the Central Victorian Gold Deposits, Southeast Australia. <i>Economic Geology</i> , 2021, 116, 1849-1864.	3.8	3
8	CHOS gas/fluid-induced reduction in ureilites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 2062.	1.6	2
9	Eukaryotic Colonization of Micrometer-Scale Cracks in Rocks: A "Microfluidics" Experiment Using Naturally Weathered Meteorites from the Nullarbor Plain, Australia. <i>Astrobiology</i> , 2020, 20, 364-374.	3.0	1
10	Aseismic Refinement of Orogenic Gold Systems. <i>Economic Geology</i> , 2020, 115, 33-50.	3.8	38
11	Ore shoots in folded and fractured rocks " Insights from 3D modelling of the Fosterville gold deposit (Victoria, Australia). <i>Ore Geology Reviews</i> , 2020, 118, 103272.	2.7	3
12	A small S-MIF signal in Martian regolith pyrite: Implications for the atmosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 59-75.	3.9	2
13	Analysis of a Telescoped Orogenic Gold System: Insights from the Fosterville Deposit. <i>Economic Geology</i> , 2020, 115, 1645-1664.	3.8	7
14	Evaporite-bearing orogenic belts produce ligand-rich and diverse metamorphic fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 275, 163-187.	3.9	22
15	A review of the chondrite"achondrite transition, and a metamorphic facies series for equilibrated primitive stony meteorites. <i>Meteoritics and Planetary Science</i> , 2020, 55, 857-885.	1.6	16
16	Atmospheric entry heating of micrometeorites at Earth and Mars: Implications for the survival of organics. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1-19.	1.6	7
17	High Survivability of Micrometeorites on Mars: Sites With Enhanced Availability of Limiting Nutrients. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1802-1818.	3.6	10
18	Extreme Silver Isotope Variation in Orogenic Gold Systems Implies Multistaged Metal Remobilization During Ore Genesis. <i>Economic Geology</i> , 2019, 114, 233-242.	3.8	12

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19	On the source of diogenites and olivine diogenites: Compositional diversity from variable fO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 37-49.	3.9	2
20	Displacement of the Proterozoic Century Ore Deposit at the Edge of an Ordovician Meteorite Impact Crater, Queensland. <i>Economic Geology</i> , 2019, 114, 427-440.	3.8	4
21	Arsenic evolution as a tool for understanding formation of pyritic gold ores. <i>Geology</i> , 2019, 47, 335-338.	4.4	83
22	Century Zn deposit – the world’s largest meteorite impacted orebody. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-6.	0.1	1
23	Arsenic evolution as a tool for understanding formation of pyritic gold ores: REPLY. <i>Geology</i> , 2019, 47, e492-e492.	4.4	1
24	The role of fluorine in hydrothermal mobilization and transportation of Fe, U and REE and the formation of IOCG deposits. <i>Chemical Geology</i> , 2019, 504, 158-176.	3.3	46
25	Tiny particles building huge ore deposits – Particle-based crystallisation in banded iron formation-hosted iron ore deposits (Hamersley Province, Australia). <i>Ore Geology Reviews</i> , 2019, 104, 160-174.	2.7	13
26	Garnet peridotites reveal spatial and temporal changes in the oxidation potential of subduction. <i>Scientific Reports</i> , 2018, 8, 16411.	3.3	14
27	Sulfur isotope and PGE systematics of metasomatised mantle wedge. <i>Earth and Planetary Science Letters</i> , 2018, 497, 181-192.	4.4	30
28	Sulfide Minerals. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 1394-1396.	0.1	0
29	Pyrite-Pyrrhotite Stability in a Metamorphic Aureole: Implications for Orogenic Gold Genesis. <i>Economic Geology</i> , 2017, 112, 661-674.	3.8	49
30	Fluorine and chlorine behaviour during progressive dehydration melting: Consequences for granite geochemistry and metallogeny. <i>Journal of Metamorphic Geology</i> , 2017, 35, 739-757.	3.4	22
31	The variability of ruthenium in chromite from chassignite and olivine-phyric shergottite meteorites: New insights into the behavior of PGE and sulfur in Martian magmatic systems. <i>Meteoritics and Planetary Science</i> , 2017, 52, 333-350.	1.6	7
32	The mineralogy and petrology of I-type cosmic spherules: Implications for their sources, origins and identification in sedimentary rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 218, 167-200.	3.9	36
33	Smoking gun for thallium geochemistry in volcanic arcs: Nataliyamalikite, TII, a new thallium mineral from an active fumarole at Avacha Volcano, Kamchatka Peninsula, Russia. <i>American Mineralogist</i> , 2017, 102, 1736-1746.	1.9	13
34	Evaluation of meteorites as habitats for terrestrial microorganisms: Results from the Nullarbor Plain, Australia, a Mars analogue site. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 215, 1-16.	3.9	10
35	Microbial Populations of Stony Meteorites: Substrate Controls on First Colonizers. <i>Frontiers in Microbiology</i> , 2017, 8, 1227.	3.5	22
36	Sulfide Minerals. <i>Encyclopedia of Earth Sciences Series</i> , 2017, , 1-3.	0.1	0

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37	Release of uranium from highly radiogenic zircon through metamictization: The source of orogenic uranium ores: REPLY. <i>Geology</i> , 2016, 44, e404-e404.	4.4	2
38	The Lawn Hill annulus: An Ordovician meteorite impact into water-saturated dolomite. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2416-2440.	1.6	14
39	Mobility of iron and nickel at low temperatures: Implications for ^{60}Fe - ^{60}Ni systematics of chondrules from unequilibrated ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 87-105.	3.9	25
40	Ancient micrometeorites suggestive of an oxygen-rich Archaean upper atmosphere. <i>Nature</i> , 2016, 533, 235-238.	27.8	45
41	Deformation-induced silica redistribution in banded iron formation, Hamersley Province, Australia. <i>Lithos</i> , 2016, 266-267, 87-97.	1.4	6
42	Release of uranium from highly radiogenic zircon through metamictization: The source of orogenic uranium ores. <i>Geology</i> , 2016, 44, 15-18.	4.4	24
43	Gold remobilisation and formation of high grade ore shoots driven by dissolution-reprecipitation replacement and Ni substitution into auriferous arsenopyrite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 143-159.	3.9	146
44	Fate of gold and base metals during metamorphic devolatilization of a pelite. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 171, 338-352.	3.9	97
45	Implications of pyrite geochemistry for gold mineralisation and remobilisation in the Jiaodong gold district, northeast China. <i>Ore Geology Reviews</i> , 2015, 71, 150-168.	2.7	68
46	Separate zones of sulfate and sulfide release from subducted mafic oceanic crust. <i>Earth and Planetary Science Letters</i> , 2015, 428, 73-83.	4.4	86
47	Anomalously silver-rich vein-hosted mineralisation in disseminated-style gold deposits, Jiaodong gold district, China. <i>Ore Geology Reviews</i> , 2015, 68, 127-141.	2.7	26
48	Gold in the oceans through time. <i>Earth and Planetary Science Letters</i> , 2015, 428, 139-150.	4.4	72
49	Investigation of the H7 ordinary chondrite, Watson 012: Implications for recognition and classification of Type 7 meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 134, 175-196.	3.9	34
50	Insights into subduction zone sulfur recycling from isotopic analysis of eclogite-hosted sulfides. <i>Chemical Geology</i> , 2014, 365, 1-19.	3.3	73
51	GRADE DISTRIBUTION OF THE GIANT OK TEDI Cu-Au DEPOSIT, PAPUA NEW GUINEA--A REPLY. <i>Economic Geology</i> , 2014, 109, 1493-1494.	3.8	0
52	Restriction of parent body heating by metal-iron troilite melting: Thermal models for the ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2014, 49, 636-651.	1.6	30
53	Sulfur isotope evolution in sulfide ores from Western Alps: Assessing the influence of subduction-related metamorphism. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3808-3829.	2.5	28
54	On the source of orogenic gold. <i>Geology</i> , 2013, 41, 1255-1256.	4.4	143

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55	A Biogeochemical Influence on the Secular Distribution of Orogenic Gold. <i>Economic Geology</i> , 2013, 108, 193-197.	3.8	54
56	Disequilibrium melting and melt migration driven by impacts: Implications for rapid planetesimal core formation. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 100, 41-59.	3.9	41
57	Fe-carbide and Fe-sulfide liquid immiscibility in IAB meteorite, Campo del Cielo: Implications for iron meteorite chemistry and planetesimal core compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 117, 80-98.	3.9	14
58	GRADE DISTRIBUTION OF THE GIANT OK TEDI Cu-Au DEPOSIT, PAPUA NEW GUINEA. <i>Economic Geology</i> , 2013, 108, 1773-1781.	3.8	4
59	Magmatic Sulfide Formation by Reduction of Oxidized Arc Basalt. <i>Journal of Petrology</i> , 2012, 53, 1537-1567.	2.8	89
60	Insights into the Liquid Bismuth Collector Model Through Analysis of the Bi-Au Stormont Skarn Prospect, Northwest Tasmania. <i>Economic Geology</i> , 2012, 107, 667-682.	3.8	61
61	The relationship between subduction zone redox budget and arc magma fertility. <i>Earth and Planetary Science Letters</i> , 2011, 308, 401-409.	4.4	102
62	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. <i>Lithos</i> , 2011, 122, 87-106.	1.4	64
63	Recycling of Proterozoic crust in Pleistocene juvenile magma and rapid formation of the Ok Tedi porphyry Cu-Au deposit, Papua New Guinea. <i>Lithos</i> , 2010, 114, 282-292.	1.4	37
64	REE-Y, Ti, and P Remobilization in Magmatic Rocks by Hydrothermal Alteration during Cu-Au Deposit Formation. <i>Economic Geology</i> , 2010, 105, 763-776.	3.8	53
65	Wetting facilitates late-stage segregation of precious metal-enriched sulfosalt melt in magmatic sulfide systems. <i>Geology</i> , 2010, 38, 951-954.	4.4	35
66	Windows of metamorphic sulfur liberation in the crust: Implications for gold deposit genesis. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3246-3259.	3.9	293
67	Preferential magma extraction from K- and metal-enriched source regions in the crust. <i>Mineralium Deposita</i> , 2009, 44, 171-181.	4.1	17
68	What metal-troilite textures can tell us about post-impact metamorphism in chondrite meteorites. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1133-1149.	1.6	60
69	Upper Temperature Limits of Orogenic Gold Deposit Formation: Constraints from the Granulite-Hosted Griffin's Find Deposit, Yilgarn Craton. <i>Economic Geology</i> , 2009, 104, 669-685.	3.8	89
70	Bimodal Distribution of Gold in Pyrite and Arsenopyrite: Examples from the Archean Boorara and Bardoc Shear Systems, Yilgarn Craton, Western Australia. <i>Economic Geology</i> , 2008, 103, 599-614.	3.8	163
71	New insights into the size and timing of the Lawn Hill impact structure: relationship to the Century Zn-Pb deposit. <i>Australian Journal of Earth Sciences</i> , 2008, 55, 587-603.	1.0	17
72	Recognizing hydrothermal alteration through a granulite facies metamorphic overprint at the challenger Au deposit, South Australia. <i>Chemical Geology</i> , 2007, 243, 64-89.	3.3	27

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73	Three mechanisms of ore re-mobilisation during amphibolite facies metamorphism at the Montauban Zn-Pb-Au-Ag deposit. <i>Mineralium Deposita</i> , 2007, 42, 627-637.	4.1	40
74	On the Initiation of Metamorphic Sulfide Anatexis. <i>Journal of Petrology</i> , 2006, 48, 511-535.	2.8	122
75	ARSENOPYRITE MELTING DURING METAMORPHISM OF SULFIDE ORE DEPOSITS. <i>Canadian Mineralogist</i> , 2006, 44, 1045-1062.	1.0	48
76	The Hemlo Gold Deposit, Ontario: An Example of Melting and Mobilization of a Precious Metal-Sulfosalt Assemblage during Amphibolite Facies Metamorphism and Deformation. <i>Economic Geology</i> , 2004, 99, 1063-1084.	3.8	130
77	Geochronological constraints on the polymetamorphic evolution of the granulite-hosted Challenger gold deposit: implications for assembly of the northwest Gawler Craton*. <i>Australian Journal of Earth Sciences</i> , 2004, 51, 1-14.	1.0	32
78	Generation of metal-rich felsic magmas during crustal anatexis. <i>Geology</i> , 2003, 31, 765.	4.4	39
79	Mobilization of Gold as a Polymetallic Melt during Pelite Anatexis at the Challenger Deposit, South Australia: A Metamorphosed Archean Gold Deposit. <i>Economic Geology</i> , 2002, 97, 1249-1271.	3.8	36
80	PARTIAL MELTING OF SULFIDE ORE DEPOSITS DURING MEDIUM- AND HIGH-GRADE METAMORPHISM. <i>Canadian Mineralogist</i> , 2002, 40, 1-18.	1.0	183
81	Mobilization of Gold as a Polymetallic Melt during Pelite Anatexis at the Challenger Deposit, South Australia: A Metamorphosed Archean Gold Deposit. <i>Economic Geology</i> , 2002, 97, 1249-1271.	3.8	82
82	Redistribution of Gold within Arsenopyrite and Lollingite during Pro- and Retrograde Metamorphism: Application to Timing of Mineralization. <i>Economic Geology</i> , 2001, 96, 525-534.	3.8	60