

# Paul Guagliardo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

1,130  
citations

19  
h-index

30  
g-index

103  
ext. papers

1,599  
ext. citations

5.4  
avg. IF

4.64  
L-index

#	Paper	IF	Citations
94	Recognition of a widespread Paleoproterozoic hydrothermal system in the southern McArthur Basin, northern Australia, by in-situ analysis of fine-grained pyrite and spatially-associated solid bitumen in the Lamont Pass palaeohigh. <i>Ore Geology Reviews</i> , <b>2022</b> , 144, 104834	3.2	0
93	Heat stress reduces the contribution of diazotrophs to coral holobiont nitrogen cycling. <i>ISME Journal</i> , <b>2021</b> ,	11.9	3
92	Decoupling of Au and As during rapid pyrite crystallization. <i>Geology</i> , <b>2021</b> , 49, 827-831	5	11
91	NanoSIMS Imaging of Bioaccumulation and Subcellular Distribution of Manganese During Oyster Gametogenesis. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 8223-8235	10.3	2
90	Localised solution environments drive radionuclide fractionation in uraninite. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 412, 125192	12.8	1
89	The dynamic uptake of lead and its radionuclides by natural and synthetic aluminium-phosphate-sulfates. <i>Minerals Engineering</i> , <b>2021</b> , 160, 106659	4.9	5
88	High-resolution visualization and quantification of nucleic acid-based therapeutics in cells and tissues using Nanoscale secondary ion mass spectrometry (NanoSIMS). <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 1-14	20.1	6
87	Intra- and Intercellular Silver Nanoparticle Translocation and Transformation in Oyster Gill Filaments: Coupling Nanoscale Secondary Ion Mass Spectrometry and Dual Stable Isotope Tracing Study. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 433-446	10.3	11
86	Symbiont shuffling across environmental gradients aligns with changes in carbon uptake and translocation in the reef-building coral <i>Pocillopora acuta</i> . <i>Coral Reefs</i> , <b>2021</b> , 40, 595-607	4.2	5
85	Subcellular view of host-microbiome nutrient exchange in sponges: insights into the ecological success of an early metazoan-microbe symbiosis. <i>Microbiome</i> , <b>2021</b> , 9, 44	16.6	8
84	Heat stress destabilizes symbiotic nutrient cycling in corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	47
83	Peroxidase-mediated bromine enrichment of basement membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 15827-15836	11.5	8
82	Characterisation of iron oxide encrusted microbial fossils. <i>Scientific Reports</i> , <b>2020</b> , 10, 9889	4.9	5
81	Cultured macrophages transfer surplus cholesterol into adjacent cells in the absence of serum or high-density lipoproteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 10476-10483	11.5	9
80	Microbial weathering signatures in lateritic ferruginous duricrusts. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 538, 116209	5.3	8
79	Radionuclide distributions in Olympic Dam copper concentrates: The significance of minor hosts, incorporation mechanisms, and the role of mineral surfaces. <i>Minerals Engineering</i> , <b>2020</b> , 148, 106176	4.9	11
78	Implications of Reactions Between SO <sub>2</sub> and Basaltic Glasses for the Mineralogy of Planetary Crusts. <i>Journal of Geophysical Research E: Planets</i> , <b>2019</b> , 124, 2563-2582	4.1	4

77	Intermobility of barium, strontium, and lead in chloride and sulfate leach solutions. <i>Geochemical Transactions</i> , <b>2019</b> , 20, 4	3	2
76	Nano-porous pyrite and organic matter in 3.5-billion-year-old stromatolites record primordial life. <i>Geology</i> , <b>2019</b> , 47, 1039-1043	5	39
75	Radionuclide-bearing minerals in Olympic Dam copper concentrates. <i>Hydrometallurgy</i> , <b>2019</b> , 190, 105153	4	9
74	Investigating marine bio-calcification mechanisms in a changing ocean with in vivo and high-resolution ex vivo Raman spectroscopy. <i>Global Change Biology</i> , <b>2019</b> , 25, 1877-1888	11.4	9
73	Gold, arsenic, and copper zoning in pyrite: A record of fluid chemistry and growth kinetics. <i>Geology</i> , <b>2019</b> , 47, 641-644	5	46
72	Effect of reduced irradiance on C uptake, gene expression and protein activity of the seagrass <i>Zostera muelleri</i> . <i>Marine Environmental Research</i> , <b>2019</b> , 149, 80-89	3.3	1
71	Detection of Trace Elements/Isotopes in Olympic Dam Copper Concentrates by nanoSIMS. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 336	2.4	13
70	Zinc and Cadmium Mapping in the Apical Shoot and Hypocotyl Tissues of Radish by High-Resolution Secondary Ion Mass Spectrometry (NanoSIMS) after Short-Term Exposure to Metal Contamination. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	13
69	In situ spatial distribution mapping of radionuclides in minerals by nanoSIMS. <i>Geochemistry: Exploration, Environment, Analysis</i> , <b>2019</b> , 19, 245-254	1.8	9
68	The role of aluminium in the preservation of microbial biosignatures. <i>Geoscience Frontiers</i> , <b>2019</b> , 10, 1125-1138	13	
67	Critically testing olivine-hosted putative martian biosignatures in the Yamato 000593 meteorite-Geobiological implications. <i>Geobiology</i> , <b>2019</b> , 17, 691-707	4.3	2
66	Single-cell visualization indicates direct role of sponge host in uptake of dissolved organic matter. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20192153	4.4	17
65	REE-, Sr-, Ca-aluminum-phosphate-sulfate minerals of the alunite supergroup and their role as hosts for radionuclides. <i>American Mineralogist</i> , <b>2019</b> , 104, 1806-1819	2.9	11
64	High-resolution visualization of cosmetic active compounds in hair using nanoscale secondary ion mass spectrometry. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 174, 563-568	6	2
63	Zinc and cadmium mapping by NanoSIMS within the root apex after short-term exposure to metal contamination. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 171, 571-578	7	13
62	Metal remobilization and ore-fluid perturbation during episodic replacement of auriferous pyrite from an epizonal orogenic gold deposit. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 245, 98-117	5.5	33
61	An experimental study of SO <sub>2</sub> reactions with silicate glasses and supercooled melts in the system anorthite-diopside-albite at high temperature. <i>Contributions To Mineralogy and Petrology</i> , <b>2019</b> , 174, 1	3.5	5
60	Volcanogenic Pseudo-Fossils From the ~3.48 Ga Dresser Formation, Pilbara, Western Australia. <i>Astrobiology</i> , <b>2018</b> , 18, 539-555	3.7	21

59	DSYB catalyses the key step of dimethylsulfoniopropionate biosynthesis in many phytoplankton. <i>Nature Microbiology</i> , <b>2018</b> , 3, 430-439	26.6	61
58	Incorporation and subsequent diagenetic alteration of sulfur in <i>Arctica islandica</i> . <i>Chemical Geology</i> , <b>2018</b> , 482, 72-90	4.2	8
57	Single-cell measurement of ammonium and bicarbonate uptake within a photosymbiotic bioeroding sponge. <i>ISME Journal</i> , <b>2018</b> , 12, 1308-1318	11.9	16
56	NanoSIMS Analysis of Intravascular Lipolysis and Lipid Movement across Capillaries and into Cardiomyocytes. <i>Cell Metabolism</i> , <b>2018</b> , 27, 1055-1066.e3	24.6	38
55	Using <i>Aiptasia</i> as a Model to Study Metabolic Interactions in Cnidarian- Symbioses. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 214	4.6	39
54	Diffusion and solubilities of Rh, Ru and Ir in olivine and spinel. <i>Chemical Geology</i> , <b>2018</b> , 494, 19-29	4.2	6
53	Inducing tunable switching behavior in a single memristor. <i>Applied Materials Today</i> , <b>2018</b> , 11, 280-290	6.6	18
52	A microbial role in the construction of Mono Lake carbonate chimneys?. <i>Geobiology</i> , <b>2018</b> , 16, 540-555	4.3	13
51	Oligodendroglia Are Particularly Vulnerable to Oxidative Damage after Neurotrauma. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 6491-6504	6.6	37
50	Unravelling the Consequences of SO <sub>2</sub> Basalt Reactions for Geochemical Fractionation and Mineral Formation. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2018</b> , 84, 257-283	7.1	15
49	Quantifying Inorganic Nitrogen Assimilation by Using Bulk and Single-Cell Mass Spectrometry: A Comparative Study. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2847	5.7	2
48	Towards a unifying mechanistic model for silicate glass corrosion. <i>Npj Materials Degradation</i> , <b>2018</b> , 2,	5.7	29
47	Intracellular speciation of gold nanorods alters the conformational dynamics of genomic DNA. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 1148-1153	28.7	10
46	Data related to the nanoscale structural and compositional evolution in resistance change memories. <i>Data in Brief</i> , <b>2018</b> , 21, 18-24	1.2	4
45	Sequestration of Zn into mixed pyrite-zinc sulfide framboids: A key to Zn cycling in the ocean?. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 241, 95-107	5.5	5
44	Managing the excessive proliferation of glycogen accumulating organisms in industrial activated sludge by nitrogen supplementation: A FISH-NanoSIMS approach. <i>Systematic and Applied Microbiology</i> , <b>2017</b> , 40, 500-507	4.2	1
43	Evidence of local sourcing of sulfur and gold in an Archaean sediment-hosted gold deposit. <i>Ore Geology Reviews</i> , <b>2017</b> , 89, 909-930	3.2	19
42	Dissecting the Re-Os molybdenite geochronometer. <i>Scientific Reports</i> , <b>2017</b> , 7, 16054	4.9	9

41	Intracellular amorphous carbonates uncover a new biomineralization process in eukaryotes. <i>Geobiology</i> , <b>2017</b> , 15, 240-253	4.3	20
40	Light microenvironment and single-cell gradients of carbon fixation in tissues of symbiont-bearing corals. <i>ISME Journal</i> , <b>2016</b> , 10, 788-92	11.9	32
39	New insights into the Precambrian fossil record using correlative electron and ion beam microscopy <b>2016</b> , 1005-1006		
38	Elastic versus inelastic spin-polarized electron scattering from a ferromagnetic surface. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	3
37	Angular distribution of reemitted positrons from W(100) with over layers of oxygen and LiF. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	
36	Gold remobilisation and formation of high grade ore shoots driven by dissolution-precipitation replacement and Ni substitution into auriferous arsenopyrite. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 178, 143-159	5.5	97
35	Structural and antibacterial properties of a $\gamma$ -radiation-assisted, in situ prepared silver-polycarbonate matrix. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	3
34	The golden ark: arsenopyrite crystal plasticity and the retention of gold through high strain and metamorphism. <i>Terra Nova</i> , <b>2016</b> , 28, 181-187	3	22
33	Controlling spin-orbit interaction in a ferromagnetic Fe/Au double layer. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 042404	3.4	1
32	A Fundamental Study of Boron Deposition and Poisoning of La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> Cathode of Solid Oxide Fuel Cells under Accelerated Conditions. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, F1282-F1291	3.0	11
31	Emission of correlated electron pairs from Au(111) and Cu(111) surfaces under low-energy electron impact: Contribution of surface states, d-states and spin effects. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2015</b> , 198, 26-30	1.7	3
30	Excitation of plasmons in Ag/Fe/W structure by spin-polarized electrons. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 101602	3.4	1
29	Spin-polarized single- and two-electron spectroscopies at various kinematics. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 601, 012011	0.3	1
28	Spin polarized low-energy positron source. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 618, 012043	0.3	2
27	Single and couple doping ZnO nanocrystals characterized by positron techniques. <i>Materials Research Express</i> , <b>2015</b> , 2, 045502	1.7	3
26	Cation antisite disorder in uranium-doped gadolinium zirconate pyrochlores. <i>Journal of Nuclear Materials</i> , <b>2014</b> , 452, 474-478	3.3	33
25	Positron reemission from clean and LiF coated W(100): Effect of oxygen exposure. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 505, 012004	0.3	1
24	Scattering of free electrons by free electrons. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	1

23	Vacancy-Type Defects Study on Ultra-Fine Grained Aluminium Processed by Severe Plastic Deformation. <i>Science of Advanced Materials</i> , <b>2014</b> , 6, 1338-1345	2.3	3
22	Positron annihilation and optical studies of natural brown type I diamonds. <i>Diamond and Related Materials</i> , <b>2013</b> , 37, 37-40	3.5	4
21	Probing surface magnetism by spin-polarized electron spectroscopy: Fe film on W(110). <i>Surface Science</i> , <b>2013</b> , 617, 22-28	1.8	2
20	Positron Annihilation Studies of Mesoporous Silica MCM-41. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 443, 012063	0.3	0
19	Influence of surface conditions on thermal positron reemission spectra from W(100). <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 113, 633-639	2.6	2
18	Positron Re-emission Studies from W (100). <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 443, 012070	0.3	1
17	Positron Annihilation Study of Cs-Deficient Pollucite. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 443, 012015	0.3	1
16	Angle-resolved energy distribution of re-emitted positrons from a W(100) single crystal. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	6
15	Intensity asymmetry of the (00) diffracted spin-polarized electron beam scattered from W(110): Azimuthal dependence. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 251607	3.4	2
14	Positron Annihilation in Off-Stoichiometric and Ta-Doped Zn <sub>2</sub> TiO <sub>4</sub> . <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3286-3289	3.8	3
13	Influence of polar groups in binary polymer blends on positronium formation. <i>Physical Review E</i> , <b>2013</b> , 87, 052602	2.4	10
12	Positron Annihilation Lifetime Studies of Nb-Doped TiO <sub>2</sub> , SnO <sub>2</sub> , and ZrO <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1727-1731	3.8	20
11	Study of vacancy-type defects by positron annihilation in ultrafine-grained aluminum severely deformed at room and cryogenic temperatures. <i>Acta Materialia</i> , <b>2012</b> , 60, 4218-4228	8.4	53
10	A study of porosity of synthetic polymer nanoparticles using PALS. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 262, 012048	0.3	4
9	Clay particles - potential of positron annihilation lifetime spectroscopy (PALS) for studying interlayer spacing. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 262, 012022	0.3	4
8	Characterisation of metakaolin-based geopolymers using beam-based and conventional PALS. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 262, 012023	0.3	
7	Spin-orbit effects in the (e,2e) scattering from a W(110) surface and thin gold layer. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 288, 012015	0.3	1
6	Auger-mediated sticking of positrons to surfaces: evidence for a single-step transition from a scattering state to a surface image potential bound state. <i>Physical Review Letters</i> , <b>2010</b> , 104, 247403	7.4	34

5	Spin dependence in resonance electron scattering from zinc atoms. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 185, 012032	0.3	2
4	On the mechanism of spin-dependent (e,2e) scattering from a ferromagnetic surface. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 185, 012041	0.3	1
3	Post collision interaction effects in the excitation of zinc atoms. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 185, 012005	0.3	1
2	Secondary electron spectra of gold under bombardment by very low-energy positrons. <i>Applied Surface Science</i> , <b>2008</b> , 255, 223-226	6.7	1
1	A new kind of invisible gold in pyrite hosted in deformation-related dislocations. <i>Geology</i> ,	5	6