

Paul Guagliardo

List of Publications by Year in descending order

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99
papers

2,023
citations

279701

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103
all docs

103
docs citations

103
times ranked

2735
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat stress destabilizes symbiotic nutrient cycling in corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	179
2	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.	1.6	146
3	DSYB catalyses the key step of dimethylsulfoniopropionate biosynthesis in many phytoplankton. <i>Nature Microbiology</i> , 2018, 3, 430-439.	5.9	116
4	Using Aiptasia as a Model to Study Metabolic Interactions in Cnidarian-Symbiodinium Symbioses. <i>Frontiers in Physiology</i> , 2018, 9, 214.	1.3	72
5	Gold, arsenic, and copper zoning in pyrite: A record of fluid chemistry and growth kinetics. <i>Geology</i> , 2019, 47, 641-644.	2.0	71
6	Metal remobilization and ore-fluid perturbation during episodic replacement of auriferous pyrite from an epizonal orogenic gold deposit. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 98-117.	1.6	68
7	Nano-porous pyrite and organic matter in 3.5-billion-year-old stromatolites record primordial life. <i>Geology</i> , 2019, 47, 1039-1043.	2.0	67
8	Oligodendroglia Are Particularly Vulnerable to Oxidative Damage after Neurotrauma <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2018, 38, 6491-6504.	1.7	63
9	Study of vacancy-type defects by positron annihilation in ultrafine-grained aluminum severely deformed at room and cryogenic temperatures. <i>Acta Materialia</i> , 2012, 60, 4218-4228.	3.8	58
10	NanoSIMS Analysis of Intravascular Lipolysis and Lipid Movement across Capillaries and into Cardiomyocytes. <i>Cell Metabolism</i> , 2018, 27, 1055-1066.e3.	7.2	54
11	Light microenvironment and single-cell gradients of carbon fixation in tissues of symbiont-bearing corals. <i>ISME Journal</i> , 2016, 10, 788-792.	4.4	51
12	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> , 2021, 49, 1-14.	6.5	51
13	Towards a unifying mechanistic model for silicate glass corrosion. <i>Npj Materials Degradation</i> , 2018, 2, .	2.6	47
14	Cation antisite disorder in uranium-doped gadolinium zirconate pyrochlores. <i>Journal of Nuclear Materials</i> , 2014, 452, 474-478.	1.3	39
15	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> , 2010, 104, 247403.	2.9	38
16	Volcanogenic Pseudo-Fossils from the ^{43.48} Ga Dresser Formation, Pilbara, Western Australia. <i>Astrobiology</i> , 2018, 18, 539-555.	1.5	36
17	Decoupling of Au and As during rapid pyrite crystallization. <i>Geology</i> , 2021, 49, 827-831.	2.0	35
18	Subcellular view of host-microbiome nutrient exchange in sponges: insights into the ecological success of an early metazoan-microbe symbiosis. <i>Microbiome</i> , 2021, 9, 44.	4.9	32

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19	Intracellular amorphous carbonates uncover a new biomineralization process in eukaryotes. <i>Geobiology</i> , 2017, 15, 240-253.	1.1	31
20	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> , 2019, 286, 20192153.	1.2	30
21	A new kind of invisible gold in pyrite hosted in deformation-related dislocations. <i>Geology</i> , 2021, 49, 1225-1229.	2.0	30
22	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 & Technology</i> , 2021, 55, 433-446.	4.6	29
23	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> , 2021, 40, 595-607.	0.9	29
24	The golden ark: arsenopyrite crystal plasticity and the retention of gold through high strain and metamorphism. <i>Terra Nova</i> , 2016, 28, 181-187.	0.9	28
25	Evidence of local sourcing of sulfur and gold in an Archaean sediment-hosted gold deposit. <i>Ore Geology Reviews</i> , 2017, 89, 909-930.	1.1	24
26	Zinc and cadmium mapping by NanoSIMS within the root apex after short-term exposure to metal contamination. <i>Ecotoxicology and Environmental Safety</i> , 2019, 171, 571-578.	2.9	23
27	Single-cell measurement of ammonium and bicarbonate uptake within a photosymbiotic bioeroding sponge. <i>ISME Journal</i> , 2018, 12, 1308-1318.	4.4	22
28	Positron Annihilation Lifetime Studies of Nb -Doped TiO_2 , SnO_2 , and ZrO_2 . <i>Journal of the American Ceramic Society</i> , 2012, 95, 1727-1731.	1.9	21
29	Inducing tunable switching behavior in a single memristor. <i>Applied Materials Today</i> , 2018, 11, 280-290.	2.3	21
30	Peroxidasin-mediated bromine enrichment of basement membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15827-15836.	3.3	21
31	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> , 2020, 117, 10476-10483.	3.3	21
32	Heat stress reduces the contribution of diazotrophs to coral holobiont nitrogen cycling. <i>ISME Journal</i> , 2022, 16, 1110-1118.	4.4	21
33	Greater functional diversity and redundancy of coral endolithic microbiomes align with lower coral bleaching susceptibility. <i>ISME Journal</i> , 2022, 16, 2406-2420.	4.4	21
34	A microbial role in the construction of Mono Lake carbonate chimneys?. <i>Geobiology</i> , 2018, 16, 540-555.	1.1	20
35	Unravelling the Consequences of SO_2 Basalt Reactions for Geochemical Fractionation and Mineral Formation. <i>Reviews in Mineralogy and Geochemistry</i> , 2018, 84, 257-283.	2.2	18
36	The role of aluminium in the preservation of microbial biosignatures. <i>Geoscience Frontiers</i> , 2019, 10, 1125-1138.	4.3	18

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37	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> , 2019, 16, 373.	1.2	18
38	Investigating marine bioâ€calcification mechanisms in a changing ocean with in vivo and highâ€resolution ex vivo Raman spectroscopy. <i>Global Change Biology</i> , 2019, 25, 1877-1888.	4.2	17
39	Radionuclide distributions in Olympic Dam copper concentrates: The significance of minor hosts, incorporation mechanisms, and the role of mineral surfaces. <i>Minerals Engineering</i> , 2020, 148, 106176.	1.8	17
40	Microbial weathering signatures in lateritic ferruginous duricrusts. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116209.	1.8	17
41	Intracellular speciation of gold nanorods alters the conformational dynamics of genomic DNA. <i>Nature Nanotechnology</i> , 2018, 13, 1148-1153.	15.6	16
42	Detection of Trace Elements/Isotopes in Olympic Dam Copper Concentrates by nanoSIMS. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 336.	0.8	16
43	REE-, Sr-, Ca-aluminum-phosphate-sulfate minerals of the alunite supergroup and their role as hosts for radionuclides. <i>American Mineralogist</i> , 2019, 104, 1806-1819.	0.9	16
44	Dissecting the Re-Os molybdenite geochronometer. <i>Scientific Reports</i> , 2017, 7, 16054.	1.6	15
45	A Fundamental Study of Boron Deposition and Poisoning of La _{0.8} Sr _{0.2} MnO ₃ Cathode of Solid Oxide Fuel Cells under Accelerated Conditions. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1282-F1291.	1.3	13
46	Influence of polar groups in binary polymer blends on positronium formation. <i>Physical Review E</i> , 2013, 87, 052602.	0.8	11
47	In situ spatial distribution mapping of radionuclides in minerals by nanoSIMS. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019, 19, 245-254.	0.5	11
48	Characterisation of iron oxide encrusted microbial fossils. <i>Scientific Reports</i> , 2020, 10, 9889.	1.6	11
49	Incorporation and subsequent diagenetic alteration of sulfur in <i>Arctica islandica</i> . <i>Chemical Geology</i> , 2018, 482, 72-90.	1.4	10
50	Sequestration of Zn into mixed pyrite-zinc sulfide framboids: A key to Zn cycling in the ocean?. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 95-107.	1.6	10
51	Radionuclide-bearing minerals in Olympic Dam copper concentrates. <i>Hydrometallurgy</i> , 2019, 190, 105153.	1.8	10
52	Harnessing solar power: photoautotrophy supplements the diet of a low-light dwelling sponge. <i>ISME Journal</i> , 2022, 16, 2076-2086.	4.4	9
53	Diffusion and solubilities of Rh, Ru and Ir in olivine and spinel. <i>Chemical Geology</i> , 2018, 494, 19-29.	1.4	8
54	Implications of Reactions Between SO ₂ and Basaltic Glasses for the Mineralogy of Planetary Crusts. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2563-2582.	1.5	8

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55	The dynamic uptake of lead and its radionuclides by natural and synthetic aluminium-phosphate-sulfates. <i>Minerals Engineering</i> , 2021, 160, 106659.	1.8	8
56	Synchronous solid-state diffusion, dissolution-precipitation, and recrystallization leading to isotopic resetting: insights from chalcopyrite replacement by copper sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 331, 48-68.	1.6	8
57	Angle-resolved energy distribution of re-emitted positrons from a W(100) single crystal. <i>Physical Review B</i> , 2013, 87, .	1.1	7
58	An experimental study of SO ₂ reactions with silicate glasses and supercooled melts in the system anorthite–diopside–albite at high temperature. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	1.2	7
59	Quantifying Inorganic Nitrogen Assimilation by <i>Synechococcus</i> Using Bulk and Single-Cell Mass Spectrometry: A Comparative Study. <i>Frontiers in Microbiology</i> , 2018, 9, 2847.	1.5	6
60	Positron annihilation and optical studies of natural brown type I diamonds. <i>Diamond and Related Materials</i> , 2013, 37, 37-40.	1.8	5
61	Single and couple doping ZnO nanocrystals characterized by positron techniques. <i>Materials Research Express</i> , 2015, 2, 045502.	0.8	5
62	Structural and antibacterial properties of a ¹³⁷ Cs-radiation-assisted, in situ prepared silver–polycarbonate matrix. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	5
63	Variability of sulfur isotopes and trace metals in pyrites from the upper oceanic crust of the South China Sea basin, implications for sulfur and trace metal cycling in subsurface. <i>Chemical Geology</i> , 2022, 606, 120982.	1.4	5
64	A study of porosity of synthetic polymer nanoparticles using PALS. <i>Journal of Physics: Conference Series</i> , 2011, 262, 012048.	0.3	4
65	Clay particles - potential of positron annihilation lifetime spectroscopy (PALS) for studying interlayer spacing. <i>Journal of Physics: Conference Series</i> , 2011, 262, 012022.	0.3	4
66	Probing surface magnetism by spin-polarized electron spectroscopy: Fe film on W(110). <i>Surface Science</i> , 2013, 617, 22-28.	0.8	4
67	Intensity asymmetry of the (00) diffracted spin-polarized electron beam scattered from W(110): Azimuthal dependence. <i>Applied Physics Letters</i> , 2013, 102, 251607.	1.5	4
68	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> , 2015, 198, 26-30.	0.8	4
69	Data related to the nanoscale structural and compositional evolution in resistance change memories. <i>Data in Brief</i> , 2018, 21, 18-24.	0.5	4
70	NanoSIMS Imaging of Bioaccumulation and Subcellular Distribution of Manganese During Oyster Gametogenesis. <i>Environmental Science & Technology</i> , 2021, 55, 8223-8235.	4.6	4
71	Localised solution environments drive radionuclide fractionation in uraninite. <i>Journal of Hazardous Materials</i> , 2021, 412, 125192.	6.5	4
72	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> , 2022, 144, 104834.	1.1	4

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73	Positron Annihilation in Off-Stoichiometric and Ta-Doped Zn_2TiO_4 . Journal of the American Ceramic Society, 2013, 96, 3286-3289.	1.9	3
74	Elastic versus inelastic spin-polarized electron scattering from a ferromagnetic surface. Physical Review B, 2016, 94, .	1.1	3
75	Managing the excessive proliferation of glycogen accumulating organisms in industrial activated sludge by nitrogen supplementation: A FISH-NanoSIMS approach. Systematic and Applied Microbiology, 2017, 40, 500-507.	1.2	3
76	Intermobility of barium, strontium, and lead in chloride and sulfate leach solutions. Geochemical Transactions, 2019, 20, 4.	1.8	3
77	High-resolution visualization of cosmetic active compounds in hair using nanoscale secondary ion mass spectrometry. Colloids and Surfaces B: Biointerfaces, 2019, 174, 563-568.	2.5	3
78	Vacancy-Type Defects Study on Ultra-Fine Grained Aluminium Processed by Severe Plastic Deformation. Science of Advanced Materials, 2014, 6, 1338-1345.	0.1	3
79	Spin dependence in resonance electron scattering from zinc atoms. Journal of Physics: Conference Series, 2009, 185, 012032.	0.3	2
80	Positron Annihilation Studies of Mesoporous Silica MCM-41. Journal of Physics: Conference Series, 2013, 443, 012063.	0.3	2
81	Influence of surface conditions on thermal positron reemission spectra from W(100). Applied Physics A: Materials Science and Processing, 2013, 113, 633-639.	1.1	2
82	Positron Re-emission Studies from W (100). Journal of Physics: Conference Series, 2013, 443, 012070.	0.3	2
83	Scattering of free electrons by free electrons. Physical Review A, 2014, 89, .	1.0	2
84	Spin polarized low-energy positron source. Journal of Physics: Conference Series, 2015, 618, 012043.	0.3	2
85	Controlling spin-orbit interaction in a ferromagnetic Fe/Au double layer. Applied Physics Letters, 2015, 106, 042404.	1.5	2
86	Critically testing olivine-hosted putative martian biosignatures in the Yamato 000593 meteorite: Geobiological implications. Geobiology, 2019, 17, 691-707.	1.1	2
87	Effect of reduced irradiance on ^{13}C uptake, gene expression and protein activity of the seagrass <i>Zostera muelleri</i> . Marine Environmental Research, 2019, 149, 80-89.	1.1	2
88	Secondary electron spectra of gold under bombardment by very low-energy positrons. Applied Surface Science, 2008, 255, 223-226.	3.1	1
89	On the mechanism of spin-dependent ($e,2e$) scattering from a ferromagnetic surface. Journal of Physics: Conference Series, 2009, 185, 012041.	0.3	1
90	Post collision interaction effects in the excitation of zinc atoms. Journal of Physics: Conference Series, 2009, 185, 012005.	0.3	1

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91	Spin-orbit effects in the $(e,2e)$ scattering from a W(110) surface and thin gold layer. Journal of Physics: Conference Series, 2011, 288, 012015.	0.3	1
92	Positron Annihilation Study of Cs-Deficient Pollucite. Journal of Physics: Conference Series, 2013, 443, 012015.	0.3	1
93	Positron reemission from clean and LiF coated W(100): Effect of oxygen exposure. Journal of Physics: Conference Series, 2014, 505, 012004.	0.3	1
94	Excitation of plasmons in Ag/Fe/W structure by spin-polarized electrons. Applied Physics Letters, 2015, 107, .	1.5	1
95	Spin-polarized single- and two-electron spectroscopies at various kinematics. Journal of Physics: Conference Series, 2015, 601, 012011.	0.3	1
96	Characterisation of metakaolin-based geopolymers using beam-based and conventional PALS. Journal of Physics: Conference Series, 2011, 262, 012023.	0.3	0
97	Angular distribution of reemitted positrons from W(100) with over layers of oxygen and LiF. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	0
98	Application of positron annihilation lifetime spectroscopy to nano-characterisation of polymer-modified mortars. , 2011, , .		0
99	Three-body abrasion-corrosion behaviour of as printed and solution annealed additively manufactured 316L stainless steel. Corrosion, 0, , .	0.5	0