

# Jeremy A Shaw

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,329  
citations

304602

22  
h-index

214721

47  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of 2D Optical Imaging and 3D Microtomography Shape Measurements of a Coastal Bioclastic Calcareous Sand. <i>Journal of Imaging</i> , 2022, 8, 72.	1.7	5
2	Ti3+ in corundum traces crystal growth in a highly reduced magma. <i>Scientific Reports</i> , 2021, 11, 2439.	1.6	10
3	Vestibular Organ and Cochlear Implantation—A Synchrotron and Micro-CT Study. <i>Frontiers in Neurology</i> , 2021, 12, 663722.	1.1	6
4	A Synchrotron and Micro-CT Study of the Human Endolymphatic Duct System: Is Meniere's Disease Caused by an Acute Endolymph Backflow?. <i>Frontiers in Surgery</i> , 2021, 8, 662530.	0.6	13
5	Nitrogen under Super-Reducing Conditions: Ti Oxynitride Melts in Xenolithic Corundum Aggregates from Mt Carmel (N. Israel). <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 780.	0.8	4
6	Quantifying variation in female internal genitalia: no evidence for plasticity in response to sexual conflict risk in a seed beetle. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210746.	1.2	4
7	A new method for mapping spatial resolution in compound eyes suggests two visual streaks in fiddler crabs. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	16
8	The initiation of bud burst in grapevine features dynamic regulation of the apoplastic pore size. <i>Journal of Experimental Botany</i> , 2020, 71, 719-729.	2.4	20
9	Volumetric analysis and morphological assessment of the ascending olfactory pathway in an elasmobranch and a teleost using diceCT. <i>Brain Structure and Function</i> , 2020, 225, 2347-2375.	1.2	12
10	Multimodal Imaging and Analysis of the Neuroanatomical Organization of the Primary Olfactory Inputs in the Brownbanded Bamboo Shark, <i>Chiloscyllium punctatum</i> . <i>Frontiers in Neuroanatomy</i> , 2020, 14, 560534.	0.9	4
11	Quantum Magnetic Imaging of Iron Biomineralization in Teeth of the Chiton <i>Acanthopleura hirtosa</i> . <i>Small Methods</i> , 2020, 4, 1900754.	4.6	27
12	Volumetric Particle Size Distribution and Variable Granular Density Soils. <i>Geotechnical Testing Journal</i> , 2020, 43, 517-533.	0.5	8
13	diceCT: A Valuable Technique to Study the Nervous System of Fish. <i>ENeuro</i> , 2020, 7, ENEURO.0076-20.2020.	0.9	14
14	Synchrotron X-ray tomographic imaging of embedded fossil invertebrates in Aboriginal stone artefacts from Western Australia: Implications for sourcing, distribution and chronostratigraphy. <i>Journal of Archaeological Science: Reports</i> , 2019, 26, 101840.	0.2	3
15	A Showcase of Analytical Techniques: Native V in Hibonite. <i>Microscopy and Microanalysis</i> , 2019, 25, 2486-2487.	0.2	0
16	Elucidating the surface geometric design of hydrophobic Australian Eucalyptus leaves: experimental and modeling studies. <i>Heliyon</i> , 2019, 5, e01316.	1.4	2
17	A terrestrial magmatic hibonite-grossite-vanadium assemblage: Desilication and extreme reduction in a volcanic plumbing system, Mount Carmel, Israel. <i>American Mineralogist</i> , 2019, 104, 207-219.	0.9	32
18	Impact of Biology on Particle Crushing in Offshore Calcareous Sediments. , 2019, , .		9

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19	Improving impact resistance and residual compressive strength of carbon fibre composites using un-bonded non-woven short aramid fibre veil. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 439-448.	3.8	61
20	A novel adaptation facilitates seed establishment under marine turbulent flows. <i>Scientific Reports</i> , 2019, 9, 19693.	1.6	10
21	No evidence for a magnetite-based magnetoreceptor in the lagena of pigeons. <i>Current Biology</i> , 2019, 29, R14-R15.	1.8	18
22	Geochemical and Crystallographic Study of <i>Turbo Torquatus</i> (Mollusca: Gastropoda) From Southwestern Australia. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 214-231.	1.0	1
23	Multi-modal imaging and analysis in the search for iron-based magnetoreceptors in the honeybee <i>Apis mellifera</i> . <i>Royal Society Open Science</i> , 2018, 5, 181163.	1.1	9
24	The Granular Structure of Two Marine Carbonate Sediments. , 2018, , .		8
25	Adsorption and movement of water by skin of the Australian thorny devil (Agamidae: <i>Moloch</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	1.1	17
26	3â€ Characterization of Detrital Zircon Grains and its Implications for Fluvial Transport, Mixing, and Preservation Bias. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 4655-4673.	1.0	21
27	Geochemical and microstructural characterisation of two species of cool-water bivalves (&lt;i>Fulvia tenuicostata&lt;/i> and &lt;i>Soletellina) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>		
28	Characterization of polymeric nanoparticles for treatment of partial injury to the central nervous system. <i>Data in Brief</i> , 2016, 7, 152-156.	0.5	1
29	Enabling dual cellular destinations of polymeric nanoparticles for treatment following partial injury to the central nervous system. <i>Biomaterials</i> , 2016, 74, 200-216.	5.7	25
30	Magnetotactic Bacteria and Honey Bees: Model Systems for Characterising an Iron Oxide Mediated Magnetoreceptor. <i>Microscopy and Microanalysis</i> , 2015, 21, 85-86.	0.2	1
31	No evidence for intracellular magnetite in putative vertebrate magnetoreceptors identified by magnetic screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 262-267.	3.3	66
32	Magnetic particle-mediated magnetoreception. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150499.	1.5	67
33	Harmful Shell Borers, <i>Polydora</i> Species (Polychaeta: Spionidae), from Commercially Important Mollusk Shells in East Asia and Australia. , 2015, , 31-42.		7
34	Millimeter-Sized Marine Plastics: A New Pelagic Habitat for Microorganisms and Invertebrates. <i>PLoS ONE</i> , 2014, 9, e100289.	1.1	363
35	Ingestion of plastics at sea: does debris size really matter?. <i>Frontiers in Marine Science</i> , 2014, 1, .	1.2	28
36	Labeling of cancer cells with magnetic nanoparticles for magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1896-1905.	1.9	13

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37	Changes in subtypes of Ca microdomains following partial injury to the central nervous system. <i>Metallomics</i> , 2014, 6, 455-464.	1.0	12
38	Size dependent elastic modulus and mechanical resilience of dental enamel. <i>Journal of Biomechanics</i> , 2014, 47, 1060-1066.	0.9	6
39	Biological Applications of Energy-Filtered TEM. <i>Methods in Molecular Biology</i> , 2014, 1117, 689-706.	0.4	6
40	Laser scanning confocal microscopy versus scanning electron microscopy for characterization of polymer morphology: Sample preparation drastically distorts morphologies of poly(2-(hydroxyethyl) Tj ETQq0 0 0 0 BT /Overdock 10 Tf		
41	Improving the cellular invasion into PHEMA sponges by incorporation of the RGD peptide ligand: The use of copolymerization as a means to functionalize PHEMA sponges. <i>Materials Science and Engineering C</i> , 2013, 33, 4917-4922.	3.8	7
42	The effect of magnetically induced linear aggregates on proton transverse relaxation rates of aqueous suspensions of polymer coated magnetic nanoparticles. <i>Nanoscale</i> , 2013, 5, 2152-2163.	2.8	53
43	NanoSIMS multi-element imaging reveals internalisation and nucleolar targeting for a highly-charged polynuclear platinum compound. <i>Chemical Communications</i> , 2013, 49, 6944.	2.2	75
44	An Iron-Rich Organelle in the Cuticular Plate of Avian Hair Cells. <i>Current Biology</i> , 2013, 23, 924-929.	1.8	41
45	The Iron Distribution and Magnetic Properties of Schistosome Eggshells: Implications for Improved Diagnostics. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2219.	1.3	22
46	The origin of remarkable resilience of human tooth enamel. <i>Applied Physics Letters</i> , 2013, 103, 241901.	1.5	5
47	Marine Plastic Pollution in Waters around Australia: Characteristics, Concentrations, and Pathways. <i>PLoS ONE</i> , 2013, 8, e80466.	1.1	340
48	Synthesis of Poly(2-Hydroxyethyl Methacrylate) Sponges via Activators Regenerated by Electron-transfer Atom-transfer Radical Polymerization. <i>Australian Journal of Chemistry</i> , 2012, 65, 931.	0.5	3
49	Clusters of iron-rich cells in the upper beak of pigeons are macrophages not magnetosensitive neurons. <i>Nature</i> , 2012, 484, 367-370.	13.7	150
50	Early in vivo changes in calcium ions, oxidative stress markers, and ion channel immunoreactivity following partial injury to the optic nerve. <i>Journal of Neuroscience Research</i> , 2012, 90, 606-618.	1.3	38
51	Multimodal Analysis of PEI-Mediated Endocytosis of Nanoparticles in Neural Cells. <i>ACS Nano</i> , 2011, 5, 8640-8648.	7.3	83
52	Matrix-Mediated Biomineralization in Marine Mollusks: A Combined Transmission Electron Microscopy and Focused Ion Beam Approach. <i>Microscopy and Microanalysis</i> , 2011, 17, 220-225.	0.2	20
53	Fine-scale Analysis of Biomineralized Mollusc Teeth Using FIB and TEM. <i>Microscopy Today</i> , 2010, 18, 24-28.	0.2	5
54	Tooth Use and Wear in Three Iron-Biomineralizing Mollusc Species. <i>Biological Bulletin</i> , 2010, 218, 132-144.	0.7	40

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55	Elemental analysis of extracellular polymeric substances and granules in chalcopyrite bioleaching microbes. <i>Hydrometallurgy</i> , 2010, 104, 376-381.	1.8	16
56	Low Pore Connectivity Increases Bacterial Diversity in Soil. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3936-3942.	1.4	247
57	Ultrastructure of the Epithelial Cells Associated with Tooth Biomineralization in the Chiton <i>Acanthopleura hirtosa</i> . <i>Microscopy and Microanalysis</i> , 2009, 15, 154-165.	0.2	22
58	The chiton stylus canal: An element delivery pathway for tooth cusp biomineralization. <i>Journal of Morphology</i> , 2009, 270, 588-600.	0.6	27
59	Imaging organic and mineral phases in a biomineral using novel contrast techniques. <i>Scanning</i> , 2009, 31, 11-18.	0.7	3
60	Characterization of biominerals in the radula teeth of the chiton, <i>Acanthopleura hirtosa</i> . <i>Journal of Structural Biology</i> , 2009, 167, 55-61.	1.3	50
61	Nature's Conveyor Belt- The Matrix Mediated Biomineralization of Magnetite in Chitons (Mollusca). <i>Microscopy and Microanalysis</i> , 2009, 15, 898-899.	0.2	0
62	Structural and Chemical Characterisation of the Biomineralized Teeth in Marine Molluscs using Focused Ion Beam (FIB) Processing and TEM. <i>Microscopy and Microanalysis</i> , 2009, 15, 902-903.	0.2	0
63	Methods of sample preparation of radula epithelial tissue in chitons (Mollusca: Polyplacophora)*. <i>American Malacological Bulletin</i> , 2008, 25, 35-41.	0.2	10
64	Polydorid species (Polychaeta: Spionidae) in south-western Australian waters with special reference to <i>Polydora uncinata</i> and <i>Boccardia knoxi</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2008, 88, 491-501.	0.4	48
65	Radula synthesis by three species of iron mineralizing molluscs: production rate and elemental demand. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2008, 88, 597-601.	0.4	47
66	Elemental Ultrastructure of Bioleaching Bacteria and Archaea Grown on Different Energy Sources. <i>Advanced Materials Research</i> , 0, 71-73, 235-238.	0.3	1