

# Timothy J Shaw

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,625  
citations

236612

25  
h-index

197535

49  
g-index

52  
all docs

52  
docs citations

52  
times ranked

5721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Behavior of Metal Sulfides in Hydrothermal Plumes and Diffuse Flows. ACS Earth and Space Chemistry, 2022, 6, 1429-1442.	1.2	3
2	Fe-catalyzed sulfide oxidation in hydrothermal plumes is a source of reactive oxygen species to the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
3	Model study of organic carbon attenuation and oxygen mass transfer in persistent aggregate layers in the deep sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2020, 173, 104760.	0.6	1
4	Asymmetric Versus Symmetric Filter Wheels and Associated Processing Algorithms: Results from Asynchronous Fluorescence Imaging Photometer Measurements of Phytoplankton. Applied Spectroscopy, 2019, 73, 104-114.	1.2	0
5	Single-Cell and Bulk Fluorescence Excitation Signatures of Seven Phytoplankton Species During Nitrogen Depletion and Resupply. Applied Spectroscopy, 2019, 73, 304-312.	1.2	7
6	Fluorescence Excitation Spectroscopy for Phytoplankton Species Classification Using an All-Pairs Method: Characterization of a System with Unexpectedly Low Rank. Applied Spectroscopy, 2018, 72, 442-462.	1.2	5
7	Hydrous Ferric Oxides in Sediment Catalyze Formation of Reactive Oxygen Species during Sulfide Oxidation. Frontiers in Marine Science, 2016, 3, .	1.2	15
8	Production of Reactive Oxygen Species in the Rhizosphere of <i>Spartina</i> -Dominated Salt Marsh Systems. Aquatic Geochemistry, 2016, 22, 573-591.	1.5	18
9	A Tribute to Rick and Debbie Jahnke: From Deep Sea Pore Water to Coastal Permeable Sediments-Contributions that Cover the Oceans. Aquatic Geochemistry, 2016, 22, 391-399.	1.5	1
10	Focus-independent particle size measurement from streak images: a comparison of multivariate methods. Analyst, The, 2015, 140, 1578-1589.	1.7	0
11	Trace metal concentration and partitioning in the first 1.5 m of hydrothermal vent plumes along the Mid-Atlantic Ridge: TAC, Snakepit, and Rainbow. Chemical Geology, 2015, 412, 117-131.	1.4	36
12	Systematic Review of Chromium and Nickel Exposure During Pregnancy and Impact on Child Outcomes. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 1348-1368.	1.1	53
13	Geochemical Production of Reactive Oxygen Species From Biogeochemically Reduced Fe. Environmental Science & Technology, 2014, 48, 3815-3821.	4.6	35
14	Distribution and size fractionation of elemental sulfur in aqueous environments: The Chesapeake Bay and Mid-Atlantic Ridge. Geochimica Et Cosmochimica Acta, 2014, 142, 334-348.	1.6	51
15	Surface Charge Controls the Fate of Au Nanorods in Saline Estuaries. Environmental Science & Technology, 2013, 47, 12844-12851.	4.6	31
16	Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part I: Design and Theoretical Performance of Multivariate Optical Elements. Applied Spectroscopy, 2013, 67, 620-629.	1.2	10
17	Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part II: Design and Experimental Protocol of a Shipboard Fluorescence Imaging Photometer. Applied Spectroscopy, 2013, 67, 630-639.	1.2	11
18	Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part III: Demonstration. Applied Spectroscopy, 2013, 67, 640-647.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Linear Discriminant Analysis of Single-Cell Fluorescence Excitation Spectra of Five Phytoplankton Species. <i>Applied Spectroscopy</i> , 2012, 66, 60-65.	1.2	16
20	Islands of Ice: Influence of Free-Drifting Antarctic Icebergs on Pelagic Marine Ecosystems. <i>Oceanography</i> , 2012, 25, 38-39.	0.5	26
21	Short-Term Fe Cycling during Fe(II) Oxidation: Exploring Joint Oxidation and Precipitation with a Combinatorial System. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2663-2669.	4.6	15
22	Combinatorial Parameter Space As an Empirical Tool for Predicting Water Chemistry: Fe(II) Oxidation Across a Watershed. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4023-4029.	4.6	8
23	Free-drifting icebergs as sources of iron to the Weddell Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1392-1406.	0.6	87
24	Multivariate Examination of Fe(II)/Fe(III) Cycling and Consequent Hydroxyl Radical Generation. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7226-7231.	4.6	43
25	Construction, figures of merit, and testing of a single-cell fluorescence excitation spectroscopy system. <i>Review of Scientific Instruments</i> , 2010, 81, 013103.	0.6	7
26	Cellular Uptake and Cytotoxicity of Gold Nanorods: Molecular Origin of Cytotoxicity and Surface Effects. <i>Small</i> , 2009, 5, 701-708.	5.2	927
27	Transfer of gold nanoparticles from the water column to the estuarine food web. <i>Nature Nanotechnology</i> , 2009, 4, 441-444.	15.6	307
28	Use of Multiparametric Techniques To Quantify the Effects of Naturally Occurring Ligands on the Kinetics of Fe(II) Oxidation. <i>Environmental Science &amp; Technology</i> , 2009, 43, 337-342.	4.6	25
29	Fluxes and behavior of radium isotopes, barium, and uranium in seven Southeastern US rivers and estuaries. <i>Marine Chemistry</i> , 2008, 108, 236-254.	0.9	81
30	The carbon and oxygen stable isotopic composition of cultured benthic foraminifera. <i>Geological Society Special Publication</i> , 2008, 303, 135-154.	0.8	26
31	Free-Drifting Icebergs: Hot Spots of Chemical and Biological Enrichment in the Weddell Sea. <i>Science</i> , 2007, 317, 478-482.	6.0	210
32	Trace/minor element:calcium ratios in cultured benthic foraminifera. Part I: Inter-species and inter-individual variability. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1952-1963.	1.6	46
33	Trace/minor element:calcium ratios in cultured benthic foraminifera. Part II: Ontogenetic variation. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1964-1976.	1.6	53
34	A physicochemically constrained seawater culturing system for production of benthic foraminifera. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 160-170.	1.0	45
35	The Mobility of Rare Earth Elements and Redox Sensitive Elements in the Groundwater/Seawater Mixing Zone of a Shallow Coastal Aquifer. <i>Aquatic Geochemistry</i> , 2003, 9, 233-255.	1.5	92
36	Biogeochemical Processes in Coastal Aquifers and Permeable Sediments. <i>Aquatic Geochemistry</i> , 2003, 9, 165-169.	1.5	7

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37	A Preconcentration/Matrix Reduction Method for the Analysis of Rare Earth Elements in Seawater and Groundwaters by Isotope Dilution ICPMS. <i>Analytical Chemistry</i> , 2003, 75, 3396-3403.	3.2	60
38	Analysis of <sup>227</sup> Ac in seawater by delayed coincidence counting. <i>Marine Chemistry</i> , 2002, 78, 197-203.	0.9	19
39	Conference provides forum for discussion of subterranean coastal environments. <i>Eos</i> , 2001, 82, 622-622.	0.1	3
40	Experimental determination of trace element partition coefficients in cultured benthic foraminifera. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1277-1283.	1.6	51
41	Offshore Transport of Pesticides in the South Atlantic Bight: Preliminary Estimate of Export Budgets. <i>Marine Pollution Bulletin</i> , 2000, 40, 1178-1185.	2.3	3
42	Organochlorine Pesticides in Ambient Air of Belize, Central America. <i>Environmental Science &amp; Technology</i> , 2000, 34, 1953-1958.	4.6	61
43	Comparison of $\delta^{13}C$ , $\delta^{15}N$ , and fluxes with fluxes of major sediment components in the Guaymas Basin, Gulf of California. <i>Marine Chemistry</i> , 1999, 65, 177-194.	0.9	25
44	Rain Deposition of Pesticides in Coastal Waters of the South Atlantic Bight. <i>Environmental Science &amp; Technology</i> , 1999, 33, 850-856.	4.6	29
45	Scavenging of <sup>234</sup> Th, <sup>230</sup> Th, and <sup>210</sup> Pb by particulate matter in the water column of the California Continental Margin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 763-779.	0.6	22
46	The flux of barium to the coastal waters of the southeastern USA: the importance of submarine groundwater discharge. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3047-3054.	1.6	172
47	Chemical signals from submarine fluid advection onto the continental shelf. <i>Journal of Geophysical Research</i> , 1998, 103, 21543-21552.	3.3	88
48	Effects of turbidity flows on organic matter accumulation, sulfate reduction, and methane generation in deep-sea sediments on the Iberia Abyssal Plain. <i>Organic Geochemistry</i> , 1996, 25, 69-78.	0.9	40
49	Microelectrode studies of organic carbon degradation and calcite dissolution at a California Continental rise site. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 497-511.	1.6	101
50	A fast and sensitive ICP-MS assay for the determination of <sup>230</sup> Th in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2075-2078.	1.6	33
51	Early diagenesis in differing depositional environments: The response of transition metals in pore water. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1233-1246.	1.6	594