

Timothy J Shaw

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,625
citations

236925

25
h-index

197818

49
g-index

52
all docs

52
docs citations

52
times ranked

5721
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular Uptake and Cytotoxicity of Gold Nanorods: Molecular Origin of Cytotoxicity and Surface Effects. <i>Small</i> , 2009, 5, 701-708.	10.0	927
2	Early diagenesis in differing depositional environments: The response of transition metals in pore water. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1233-1246.	3.9	594
3	Transfer of gold nanoparticles from the water column to the estuarine food web. <i>Nature Nanotechnology</i> , 2009, 4, 441-444.	31.5	307
4	Free-Drifting Icebergs: Hot Spots of Chemical and Biological Enrichment in the Weddell Sea. <i>Science</i> , 2007, 317, 478-482.	12.6	210
5	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.	3.9	172
6	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.	3.9	101
7	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.	1.3	92
8	Chemical signals from submarine fluid advection onto the continental shelf. <i>Journal of Geophysical Research</i> , 1998, 103, 21543-21552.	3.3	88
9	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.	1.4	87
10	Fluxes and behavior of radium isotopes, barium, and uranium in seven Southeastern US rivers and estuaries. <i>Marine Chemistry</i> , 2008, 108, 236-254.	2.3	81
11	Organochlorine Pesticides in Ambient Air of Belize, Central America. <i>Environmental Science & Technology</i> , 2000, 34, 1953-1958.	10.0	61
12	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.	6.5	60
13	Trace/minor element:calcium ratios in cultured benthic foraminifera. Part II: Ontogenetic variation. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1964-1976.	3.9	53
14	Systematic Review of Chromium and Nickel Exposure During Pregnancy and Impact on Child Outcomes. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2015, 78, 1348-1368.	2.3	53
15	Experimental determination of trace element partition coefficients in cultured benthic foraminifera. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1277-1283.	3.9	51
16	Distribution and size fractionation of elemental sulfur in aqueous environments: The Chesapeake Bay and Mid-Atlantic Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 334-348.	3.9	51
17	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.	3.9	46
18	A physicochemically constrained seawater culturing system for production of benthic foraminifera. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 160-170.	2.0	45

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19	Multivariate Examination of Fe(II)/Fe(III) Cycling and Consequent Hydroxyl Radical Generation. <i>Environmental Science & Technology</i> , 2010, 44, 7226-7231.	10.0	43
20	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.	1.8	40
21	Trace metal concentration and partitioning in the first 1.5 m of hydrothermal vent plumes along the Mid-Atlantic Ridge: TAG, Snakepit, and Rainbow. <i>Chemical Geology</i> , 2015, 412, 117-131.	3.3	36
22	Geochemical Production of Reactive Oxygen Species From Biogeochemically Reduced Fe. <i>Environmental Science & Technology</i> , 2014, 48, 3815-3821.	10.0	35
23	A fast and sensitive ICP-MS assay for the determination of ²³⁰ Th in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2075-2078.	3.9	33
24	Surface Charge Controls the Fate of Au Nanorods in Saline Estuaries. <i>Environmental Science & Technology</i> , 2013, 47, 12844-12851.	10.0	31
25	Rain Deposition of Pesticides in Coastal Waters of the South Atlantic Bight. <i>Environmental Science & Technology</i> , 1999, 33, 850-856.	10.0	29
26	The carbon and oxygen stable isotopic composition of cultured benthic foraminifera. <i>Geological Society Special Publication</i> , 2008, 303, 135-154.	1.3	26
27	Islands of Ice: Influence of Free-Drifting Antarctic Icebergs on Pelagic Marine Ecosystems. <i>Oceanography</i> , 2012, 25, 38-39.	1.0	26
28	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.	2.3	25
29	Use of Multiparametric Techniques To Quantify the Effects of Naturally Occurring Ligands on the Kinetics of Fe(II) Oxidation. <i>Environmental Science & Technology</i> , 2009, 43, 337-342.	10.0	25
30	Scavenging of ²³⁴ Th, ²³⁰ Th, and ²¹⁰ 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.	1.4	22
31	Analysis of ²²⁷ Ac in seawater by delayed coincidence counting. <i>Marine Chemistry</i> , 2002, 78, 197-203.	2.3	19
32	Production of Reactive Oxygen Species in the Rhizosphere of <i>Spartina</i> -Dominated Salt Marsh Systems. <i>Aquatic Geochemistry</i> , 2016, 22, 573-591.	1.3	18
33	Linear Discriminant Analysis of Single-Cell Fluorescence Excitation Spectra of Five Phytoplankton Species. <i>Applied Spectroscopy</i> , 2012, 66, 60-65.	2.2	16
34	Short-Term Fe Cycling during Fe(II) Oxidation: Exploring Joint Oxidation and Precipitation with a Combinatorial System. <i>Environmental Science & Technology</i> , 2011, 45, 2663-2669.	10.0	15
35	Hydrous Ferric Oxides in Sediment Catalyze Formation of Reactive Oxygen Species during Sulfide Oxidation. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	15
36	Fe-catalyzed sulfide oxidation in hydrothermal plumes is a source of reactive oxygen species to the ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14

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37	Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part III: Demonstration. <i>Applied Spectroscopy</i> , 2013, 67, 640-647.	2.2	12
38	Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part II: Design and Experimental Protocol of a Shipboard Fluorescence Imaging Photometer. <i>Applied Spectroscopy</i> , 2013, 67, 630-639.	2.2	11
39	Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part I: Design and Theoretical Performance of Multivariate Optical Elements. <i>Applied Spectroscopy</i> , 2013, 67, 620-629.	2.2	10
40	Combinatorial Parameter Space As an Empirical Tool for Predicting Water Chemistry: Fe(II) Oxidation Across a Watershed. <i>Environmental Science & Technology</i> , 2011, 45, 4023-4029.	10.0	8
41	Biogeochemical Processes in Coastal Aquifers and Permeable Sediments. <i>Aquatic Geochemistry</i> , 2003, 9, 165-169.	1.3	7
42	Construction, figures of merit, and testing of a single-cell fluorescence excitation spectroscopy system. <i>Review of Scientific Instruments</i> , 2010, 81, 013103.	1.3	7
43	Single-Cell and Bulk Fluorescence Excitation Signatures of Seven Phytoplankton Species During Nitrogen Depletion and Resupply. <i>Applied Spectroscopy</i> , 2019, 73, 304-312.	2.2	7
44	Fluorescence Excitation Spectroscopy for Phytoplankton Species Classification Using an All-Pairs Method: Characterization of a System with Unexpectedly Low Rank. <i>Applied Spectroscopy</i> , 2018, 72, 442-462.	2.2	5
45	Offshore Transport of Pesticides in the South Atlantic Bight: Preliminary Estimate of Export Budgets. <i>Marine Pollution Bulletin</i> , 2000, 40, 1178-1185.	5.0	3
46	Conference provides forum for discussion of subterranean coastal environments. <i>Eos</i> , 2001, 82, 622-622.	0.1	3
47	Differential Behavior of Metal Sulfides in Hydrothermal Plumes and Diffuse Flows. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1429-1442.	2.7	3
48	A Tribute to Rick and Debbie Jahnke: From Deep Sea Pore Water to Coastal Permeable Sediments-Contributions that Cover the Oceans. <i>Aquatic Geochemistry</i> , 2016, 22, 391-399.	1.3	1
49	Model study of organic carbon attenuation and oxygen mass transfer in persistent aggregate layers in the deep sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 173, 104760.	1.4	1
50	Focus-independent particle size measurement from streak images: a comparison of multivariate methods. <i>Analyst, The</i> , 2015, 140, 1578-1589.	3.5	0
51	Asymmetric Versus Symmetric Filter Wheels and Associated Processing Algorithms: Results from Asynchronous Fluorescence Imaging Photometer Measurements of Phytoplankton. <i>Applied Spectroscopy</i> , 2019, 73, 104-114.	2.2	0