

# William T Self

## List of Publications by Year in descending order

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46  
papers

7,308  
citations

117625

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233421

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49  
all docs

49  
docs citations

49  
times ranked

7491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superoxide dismutase mimetic properties exhibited by vacancy engineered ceria nanoparticles. Chemical Communications, 2007, , 1056.	4.1	1,009
2	Nanoceria exhibit redox state-dependent catalase mimetic activity. Chemical Communications, 2010, 46, 2736.	4.1	912
3	The role of cerium redox state in the SOD mimetic activity of nanoceria. Biomaterials, 2008, 29, 2705-2709.	11.4	813
4	Redox-active radical scavenging nanomaterials. Chemical Society Reviews, 2010, 39, 4422.	38.1	458
5	Catalytic properties and biomedical applications of cerium oxide nanoparticles. Environmental Science: Nano, 2015, 2, 33-53.	4.3	341
6	Fenton-Like Reaction Catalyzed by the Rare Earth Inner Transition Metal Cerium. Environmental Science & Technology, 2008, 42, 5014-5019.	10.0	306
7	PEGylated Nanoceria as Radical Scavenger with Tunable Redox Chemistry. Journal of the American Chemical Society, 2009, 131, 14144-14145.	13.7	302
8	A phosphate-dependent shift in redox state of cerium oxide nanoparticles and its effects on catalytic properties. Biomaterials, 2011, 32, 6745-6753.	11.4	285
9	The induction of angiogenesis by cerium oxide nanoparticles through the modulation of oxygen in intracellular environments. Biomaterials, 2012, 33, 7746-7755.	11.4	247
10	Cerium oxide nanoparticles scavenge nitric oxide radical ( $\dot{E}^{TMNO}$ ). Chemical Communications, 2012, 48, 4896.	4.1	222
11	Proline-Dependent Regulation of Clostridium difficile Stickland Metabolism. Journal of Bacteriology, 2013, 195, 844-854.	2.2	185
12	Cellular Interaction and Toxicity Depend on Physicochemical Properties and Surface Modification of Redox-Active Nanomaterials. ACS Nano, 2013, 7, 4855-4868.	14.6	179
13	Oxygenated Functional Group Density on Graphene Oxide: Its Effect on Cell Toxicity. Particle and Particle Systems Characterization, 2013, 30, 148-157.	2.3	173
14	Exposure to Titanium Dioxide Nanomaterials Provokes Inflammation of an <i>in Vitro</i> Human Immune Construct. ACS Nano, 2009, 3, 2523-2532.	14.6	152
15	Analysis of Proline Reduction in the Nosocomial Pathogen Clostridium difficile. Journal of Bacteriology, 2006, 188, 8487-8495.	2.2	145
16	Unveiling the mechanism of uptake and sub-cellular distribution of cerium oxide nanoparticles. Molecular BioSystems, 2010, 6, 1813.	2.9	144
17	Molybdate transport. Research in Microbiology, 2001, 152, 311-321.	2.1	129
18	Multicolored redox active upconverter cerium oxide nanoparticle for bio-imaging and therapeutics. Chemical Communications, 2010, 46, 6915.	4.1	118

#	ARTICLE	IF	CITATIONS
19	Expression and Regulation of a Silent Operon, <i>hyf</i> , Coding for Hydrogenase 4 Isoenzyme in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2004, 186, 580-587.	2.2	89
20	Cerium oxide nanoparticles accelerate the decay of peroxynitrite (ONOO <sup>-</sup> ). <i>Drug Delivery and Translational Research</i> , 2013, 3, 375-379.	5.8	85
21	Protonated Nanoparticle Surface Governing Ligand Tethering and Cellular Targeting. <i>ACS Nano</i> , 2009, 3, 1203-1211.	14.6	82
22	Immunomodulation and T Helper TH1/TH2 Response Polarization by CeO <sub>2</sub> and TiO <sub>2</sub> Nanoparticles. <i>PLoS ONE</i> , 2013, 8, e62816.	2.5	80
23	Using CRISPR-Cas9-mediated genome editing to generate <i>C. difficile</i> mutants defective in selenoproteins synthesis. <i>Scientific Reports</i> , 2017, 7, 14672.	3.3	79
24	Exposure to Silver Nanoparticles Inhibits Selenoprotein Synthesis and the Activity of Thioredoxin Reductase. <i>Environmental Health Perspectives</i> , 2012, 120, 56-61.	6.0	73
25	Transcriptional regulation of molybdoenzyme synthesis in <i>Escherichia coli</i> in response to molybdenum: ModE-molybdate, a repressor of the <i>modABCD</i> (molybdate transport) operon is a secondary transcriptional activator for the <i>hyc</i> and <i>nar</i> operons. <i>Microbiology (United Kingdom)</i> , 1999, 145, 41-55.	1.8	61
26	Up conversion luminescence of Yb <sup>3+</sup> –Er <sup>3+</sup> codoped CeO <sub>2</sub> nanocrystals with imaging applications. <i>Journal of Luminescence</i> , 2012, 132, 743-749.	3.1	59
27	Inhibition of hydrogen uptake in <i>Escherichia coli</i> by expressing the hydrogenase from the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>BMC Biotechnology</i> , 2007, 7, 25.	3.3	56
28	Impact of Trivalent Arsenicals on Selenoprotein Synthesis. <i>Environmental Health Perspectives</i> , 2007, 115, 346-353.	6.0	50
29	A facile synthesis of PLGA encapsulated cerium oxide nanoparticles: release kinetics and biological activity. <i>Nanoscale</i> , 2012, 4, 2597.	5.6	48
30	A Selenium-Dependent Xanthine Dehydrogenase Triggers Biofilm Proliferation in <i>Enterococcus faecalis</i> through Oxidant Production. <i>Journal of Bacteriology</i> , 2011, 193, 1643-1652.	2.2	42
31	Orphan SelD proteins and selenium-dependent molybdenum hydroxylases. <i>Biology Direct</i> , 2008, 3, 4.	4.6	40
32	Inhibition of Selenium Metabolism in the Oral Pathogen <i>Treponema denticola</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4035-4040.	2.2	39
33	An Analysis of the Binding of Repressor Protein ModE to <i>modABCD</i> (Molybdate Transport) Operator/Promoter DNA of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 24308-24315.	3.4	38
34	Tuning Hydrated Nanocerium Surfaces: Experimental/Theoretical Investigations of Ion Exchange and Implications in Organic and Inorganic Interactions. <i>Langmuir</i> , 2010, 26, 7188-7198.	3.5	35
35	High affinity selenium uptake in a keratinocyte model. <i>FEBS Letters</i> , 2008, 582, 299-304.	2.8	33
36	N-terminal truncations in the FhlA protein result in formate- and MoeA-independent expression of the <i>hyc</i> (formate hydrogenlyase) operon of <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 2001, 147, 3093-3104.	1.8	31

#	ARTICLE	IF	CITATIONS
37	Regulation of Purine Hydroxylase and Xanthine Dehydrogenase from <i>Clostridium purinolyticum</i> in Response to Purines, Selenium, and Molybdenum. <i>Journal of Bacteriology</i> , 2002, 184, 2039-2044.	2.2	28
38	Cofactor Determination and Spectroscopic Characterization of the Selenium-Dependent Purine Hydroxylase from <i>Clostridium purinolyticum</i> . <i>Biochemistry</i> , 2003, 42, 11382-11390.	2.5	28
39	Molybdate-dependent transcription of hycandnar operons of <i>Escherichia coli</i> requires MoeA protein and ModE-molybdate. <i>FEMS Microbiology Letters</i> , 1998, 169, 111-116.	1.8	26
40	Isolation and characterization of mutated FhIA proteins which activate transcription of the hycoperon (formate hydrogenlyase) of <i>Escherichia coli</i> in the absence of molybdate. <i>FEMS Microbiology Letters</i> , 2000, 184, 47-52.	1.8	26
41	Transcriptional regulation of the moe (molybdate metabolism) operon of <i>Escherichia coli</i> . <i>Archives of Microbiology</i> , 2001, 175, 178-188.	2.2	21
42	Exposure to monomethylarsonous acid (MMAIII) leads to altered selenoprotein synthesis in a primary human lung cell model. <i>Toxicology and Applied Pharmacology</i> , 2009, 239, 130-136.	2.8	20
43	Bioavailability of selenium from the selenotrisulphide derivative of lipoic acid. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2006, 22, 315-323.	1.5	7
44	<scp>d</scp> -Proline Reductase Underlies Proline-Dependent Growth of <i>Clostridioides difficile</i> . <i>Journal of Bacteriology</i> , 2022, 204, .	2.2	6
45	Specific and Nonspecific Incorporation of Selenium into Macromolecules. , 2010, , 121-148.		3
46	Exploring the selenium-over-sulfur substrate specificity and kinetics of a bacterial selenocysteine lyase. <i>Biochimie</i> , 2021, 182, 166-176.	2.6	3