William T Wallace

List of Publications by Year
in descending order

32 papers	1,764 citations	394421 19 h-index	501196 28 g-index
32 all docs	32 docs citations	32 times ranked	1683 citing authors

#	Article	IF	Citations
1	Comparative pulmonary toxicities of lunar dusts and terrestrial dusts (TiO₂ &) Tj ETQq1 1 0.784314 rgBT /Overlock 10 toxicities. Inhalation Toxicology, 2022, 34, 51-67.	1.6	4
2	Binding of multiple SO 2 molecules to small gold cluster anions (Au N â˜ , Au N OH â˜ , N = 1â€8). International Journal of Quantum Chemistry, 2019, 119, e25987.	2.0	4
3	Effects of materials surface preparation for use in spacecraft potable water storage tanks. Acta Astronautica, 2017, 141, 30-35.	3.2	1
4	What Air and Water Quality Monitoring Is Needed to Protect Crew Health on Spacecraft?. New Space, 2017, 5, 67-78.	0.8	13
5	Microplasma Ionization of Volatile Organics for Improving Air/Water Monitoring Systems On-Board the International Space Station. Journal of the American Society for Mass Spectrometry, 2016, 27, 1203-1210.	2.8	10
6	Electrothermal Vaporization Sample Introduction for Spaceflight Water Quality Monitoring via Gas Chromatography-Differential Mobility Spectrometry. Analytical Chemistry, 2015, 87, 5981-5988.	6.5	11
7	Physicochemical properties of respirable-size lunar dust. Acta Astronautica, 2015, 107, 163-176.	3.2	25
8	Comparative Toxicity of Lunar, Martian Dust Simulants, and Urban Dust in Human Skin Fibroblast Cells. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2015, 3, 51-58.	0.8	2
9	Electro-Thermal Vaporization Direct Analysis in Real Time-Mass Spectrometry for Water Contaminant Analysis during Space Missions. Analytical Chemistry, 2013, 85, 9898-9906.	6.5	16
10	Preparation of the Operational Air Quality Monitors for Deployment on the International Space Station. , 2013, , .		1
11	Evaluation of Electrospray Ionization - Ion Mobility Spectrometry for Real-time Water Monitoring on the International Space Station. , 2013, , .		1
12	Results from the air quality monitor (gas chromatograph-differential mobility spectrometer) experiment on board the international space station. International Journal for Ion Mobility Spectrometry, 2012, 15, 189-198.	1.4	26
13	Nanophase iron-enhanced chemical reactivity of ground lunar soil. Earth and Planetary Science Letters, 2010, 295, 571-577.	4.4	22
14	Zinc chromate induces chromosome instability and DNA double strand breaks in human lung cells. Toxicology and Applied Pharmacology, 2009, 234, 293-299.	2.8	43
15	Lunar dust and lunar simulant activation and monitoring. Meteoritics and Planetary Science, 2009, 44, 961-970.	1.6	50
16	The structure of ordered Au films on TiOx. Surface Science, 2007, 601, 632-637.	1.9	30
17	NO Adsorption and Dissociation on Rh(111):Â PM-IRAS Study. Journal of Physical Chemistry B, 2006, 110, 6245-6249.	2.6	26
18	Support effects on the nucleation, growth, and morphology of gold nano-clusters. Surface Science, 2006, 600, L7-L11.	1.9	66

#	Article	IF	Citations
19	The stabilization of supported gold clusters by surface defects. Journal of Molecular Catalysis A, 2005, 228, 3-10.	4.8	81
20	Synthesis of well-ordered ultra-thin titanium oxide films on Mo(112). Surface Science, 2005, 581, 115-121.	1.9	53
21	The nucleation, growth, and stability of oxide-supported metal clusters. Topics in Catalysis, 2005, 34, 17-30.	2.8	84
22	Adsorption of carbon monoxide on smaller gold-cluster anions in an atmospheric-pressure flow-reactor: temperature and humidity dependence. Physical Chemistry Chemical Physics, 2005, 7, 930.	2.8	22
23	Efficient Low-Temperature Oxidation of Carbon-Cluster Anions by SO2. Journal of Physical Chemistry A, 2005, 109, 6218-6222.	2.5	5
24	Role of Defects in the Nucleation and Growth of Au Nanoclusters on SiO2Thin Films. Journal of Physical Chemistry B, 2004, 108, 16339-16343.	2.6	56
25	Synthesis of a Sinter-Resistant, Mixed-Oxide Support for Au Nanoclustersâ€. Journal of Physical Chemistry B, 2004, 108, 14609-14615.	2.6	118
26	Comment on: The adsorption of molecular oxygen on neutral and negative Au clusters (N=2â€“5) [Chem. Phys. Lett. 359 (2002) 493]. Chemical Physics Letters, 2003, 368, 774-777.	2.6	37
27	Oxygen Adsorption on Hydrated Gold Cluster Anions:â€‰ Experiment and Theory. Journal of the American Chemical Society, 2003, 125, 8408-8414.	13.7	100
28	Coadsorption of CO and O2 on Selected Gold Clusters:â€‰ Evidence for Efficient Room-Temperature CO2 Generation. Journal of the American Chemical Society, 2002, 124, 7499-7505.	13.7	444
29	Low-temperature activation of molecular oxygen by gold clusters: a stoichiometric process correlated to electron affinity. Chemical Physics, 2000, 262, 131-141.	1.9	274
30	Carbon Monoxide Adsorption on Selected Gold Clusters:Â Highly Size-Dependent Activity and Saturation Compositions. Journal of Physical Chemistry B, 2000, 104, 10964-10968.	2.6	136
31	Transferable resistively heated metal evaporator for ultrahigh vacuum. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 668-669.	2.1	0
32	Pulmonary Toxicity of Lunar Highland Dust. , 0, , .		3