

William T Wallace

List of Publications by Year in descending order

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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	Coadsorption of CO and O ₂ on Selected Gold Clusters: Evidence for Efficient Room-Temperature CO ₂ Generation. <i>Journal of the American Chemical Society</i> , 2002, 124, 7499-7505.	13.7	444
2	Low-temperature activation of molecular oxygen by gold clusters: a stoichiometric process correlated to electron affinity. <i>Chemical Physics</i> , 2000, 262, 131-141.	1.9	274
3	Carbon Monoxide Adsorption on Selected Gold Clusters: A Highly Size-Dependent Activity and Saturation Compositions. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10964-10968.	2.6	136
4	Synthesis of a Sinter-Resistant, Mixed-Oxide Support for Au Nanoclusters. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14609-14615.	2.6	118
5	Oxygen Adsorption on Hydrated Gold Cluster Anions: Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2003, 125, 8408-8414.	13.7	100
6	The nucleation, growth, and stability of oxide-supported metal clusters. <i>Topics in Catalysis</i> , 2005, 34, 17-30.	2.8	84
7	The stabilization of supported gold clusters by surface defects. <i>Journal of Molecular Catalysis A</i> , 2005, 228, 3-10.	4.8	81
8	Support effects on the nucleation, growth, and morphology of gold nano-clusters. <i>Surface Science</i> , 2006, 600, L7-L11.	1.9	66
9	Role of Defects in the Nucleation and Growth of Au Nanoclusters on SiO ₂ Thin Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16339-16343.	2.6	56
10	Synthesis of well-ordered ultra-thin titanium oxide films on Mo(112). <i>Surface Science</i> , 2005, 581, 115-121.	1.9	53
11	Lunar dust and lunar simulant activation and monitoring. <i>Meteoritics and Planetary Science</i> , 2009, 44, 961-970.	1.6	50
12	Zinc chromate induces chromosome instability and DNA double strand breaks in human lung cells. <i>Toxicology and Applied Pharmacology</i> , 2009, 234, 293-299.	2.8	43
13	Comment on: The adsorption of molecular oxygen on neutral and negative Au clusters (N=2-5) [Chem. Phys. Lett. 359 (2002) 493]. <i>Chemical Physics Letters</i> , 2003, 368, 774-777.	2.6	37
14	The structure of ordered Au films on TiO _x . <i>Surface Science</i> , 2007, 601, 632-637.	1.9	30
15	NO Adsorption and Dissociation on Rh(111): A PM-IRAS Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6245-6249.	2.6	26
16	Results from the air quality monitor (gas chromatograph-differential mobility spectrometer) experiment on board the international space station. <i>International Journal for Ion Mobility Spectrometry</i> , 2012, 15, 189-198.	1.4	26
17	Physicochemical properties of respirable-size lunar dust. <i>Acta Astronautica</i> , 2015, 107, 163-176.	3.2	25
18	Adsorption of carbon monoxide on smaller gold-cluster anions in an atmospheric-pressure flow-reactor: temperature and humidity dependence. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 930.	2.8	22

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19	Nanophase iron-enhanced chemical reactivity of ground lunar soil. <i>Earth and Planetary Science Letters</i> , 2010, 295, 571-577.	4.4	22
20	Electro-Thermal Vaporization Direct Analysis in Real Time-Mass Spectrometry for Water Contaminant Analysis during Space Missions. <i>Analytical Chemistry</i> , 2013, 85, 9898-9906.	6.5	16
21	What Air and Water Quality Monitoring Is Needed to Protect Crew Health on Spacecraft?. <i>New Space</i> , 2017, 5, 67-78.	0.8	13
22	Electrothermal Vaporization Sample Introduction for Spaceflight Water Quality Monitoring via Gas Chromatography-Differential Mobility Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 5981-5988.	6.5	11
23	Microplasma Ionization of Volatile Organics for Improving Air/Water Monitoring Systems On-Board the International Space Station. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1203-1210.	2.8	10
24	Efficient Low-Temperature Oxidation of Carbon-Cluster Anions by SO ₂ . <i>Journal of Physical Chemistry A</i> , 2005, 109, 6218-6222.	2.5	5
25	Binding of multiple SO ₂ molecules to small gold cluster anions (Au N ⁻ , Au N OH ⁻ , N = 1-8). <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25987.	2.0	4
26	Comparative pulmonary toxicities of lunar dusts and terrestrial dusts (TiO ₂ & Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 toxicities. <i>Inhalation Toxicology</i> , 2022, 34, 51-67.	1.6	4
27	Pulmonary Toxicity of Lunar Highland Dust. , 0, , .		3
28	Comparative Toxicity of Lunar, Martian Dust Simulants, and Urban Dust in Human Skin Fibroblast Cells. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2015, 3, 51-58.	0.8	2
29	Preparation of the Operational Air Quality Monitors for Deployment on the International Space Station. , 2013, , .		1
30	Evaluation of Electrospray Ionization - Ion Mobility Spectrometry for Real-time Water Monitoring on the International Space Station. , 2013, , .		1
31	Effects of materials surface preparation for use in spacecraft potable water storage tanks. <i>Acta Astronautica</i> , 2017, 141, 30-35.	3.2	1
32	Transferable resistively heated metal evaporator for ultrahigh vacuum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 668-669.	2.1	0