Mark D Ellison

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8713569/publications.pdf

Version: 2024-02-01

28 papers	1,296 citations	623734 14 h-index	610901 24 g-index
30 all docs	30 docs citations	30 times ranked	1517 citing authors

#	Article	IF	Citations
1	Cycloaddition Chemistry of Organic Molecules with Semiconductor Surfaces. Accounts of Chemical Research, 2000, 33, 617-624.	15.6	408
2	Diameter-dependent ion transport through the interior of isolated single-walled carbon nanotubes. Nature Communications, 2013, 4, 2397.	12.8	131
3	Bonding of Nitrogen-Containing Organic Molecules to the Silicon(001) Surface:â€‰ The Role of Aromaticity. Journal of Physical Chemistry B, 2001, 105, 3759-3768.	2.6	123
4	Adsorption of NH3and NO2on Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 7938-7943.	2.6	118
5	Interaction of Ï€-Conjugated Organic Molecules with Ï€-Bonded Semiconductor Surfaces:â€‰ Structure, Selectivity, and Mechanistic Implications. Journal of the American Chemical Society, 2000, 122, 8529-8538.	13.7	88
6	Functionalization of Single-Walled Carbon Nanotubes with 1,4-Benzenediamine Using a Diazonium Reaction. Journal of Physical Chemistry C, 2008, 112, 738-740.	3.1	73
7	Adsorption of Phenyl Isothiocyanate on Si(001):â€‰ A 1,2-Dipolar Surface Addition Reaction. Journal of Physical Chemistry B, 1999, 103, 6243-6251.	2.6	66
8	Reactions of substituted aromatic hydrocarbons with the Si(001) surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1965-1970.	2.1	57
9	Interaction of Water with Single-Walled Carbon Nanotubes:Â Reaction and Adsorption. Journal of Physical Chemistry B, 2005, 109, 10640-10646.	2.6	56
10	Cycloaddition Chemistry on Silicon(001) Surfaces:â€‰ The Adsorption of Azo-tert-butane. Journal of Physical Chemistry B, 1998, 102, 8510-8518.	2.6	30
11	Synthesis and toxicity testing of cysteine-functionalized single-walled carbon nanotubes with Caenorhabditis elegans. RSC Advances, 2014, 4, 5893.	3.6	30
12	Infrared and Computational Studies of the Adsorption of Methanol and Ethanol on Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 18127-18134.	3.1	26
13	Functionalized Single-Walled Carbon Nanotubes and Nanographene Oxide to Overcome Antibiotic Resistance in Tetracycline-Resistant Escherichia coli. ACS Applied Nano Materials, 2020, 3, 3910-3921.	5.0	16
14	Stochastic Pore Blocking and Gating in PDMSâ€“Glass Nanopores from Vaporâ€“Liquid Phase Transitions. Journal of Physical Chemistry C, 2013, 117, 9641-9651.	3.1	15
15	Electrokinetic Transport of Methanol and Lithium Ions Through a 2.25-nm-Diameter Carbon Nanotube Nanopore. Journal of Physical Chemistry C, 2017, 121, 2005-2013.	3.1	15
16	Walsh Diagrams: Molecular Orbital and Structure Computational Chemistry Exercise for Physical Chemistry. Journal of Chemical Education, 2015, 92, 1040-1043.	2.3	11
17	Reaction of folic acid with single-walled carbon nanotubes. Surface Science, 2016, 652, 300-303.	1.9	9
18	The Particle Inside a Ring: A Two-Dimensional Quantum Problem Visualized by Scanning Tunneling Microscopy. Journal of Chemical Education, 2008, 85, 1282.	2.3	8

#	Article	IF	Citations
19	Photochemical Hydroborationâ^'Oxidation of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 18536-18541.	3.1	6
20	Transport of Amino Acid Cations through a 2.25-nm-Diameter Carbon Nanotube Nanopore: Electrokinetic Motion and Trapping/Desorption. Journal of Physical Chemistry C, 2017, 121, 27709-27720.	3.1	6
21	sp3dn-Orbital Hybrids and Molecular Geometry. Journal of Chemical Education, 2004, 81, 1534.	2.3	1
22	Orbital Graphing. Journal of Chemical Education, 2004, 81, 158.	2.3	1
23	Response to Incorrect Mathematical Operators in a Two-Dimensional Quantum Problem. Journal of Chemical Education, 2009, 86, 1371.	2.3	1
24	Potential Barriers and Tunneling. Journal of Chemical Education, 2004, 81, 608.	2.3	0
25	Symbolic Mathematics Engines in Teaching Chemistry. A Symposium Report. Journal of Chemical Education, 2004, 81, 1817.	2.3	0
26	Advances in Teaching Physical Chemistry: Overview. ACS Symposium Series, 2007, , 1-7.	0.5	0
27	Construction of the Electronic Angular Wave Functions and Probability Distributions of the Hydrogen Atom. Journal of Chemical Education, 2007, 84, 1886.	2.3	0
28	The Primarily Undergraduate Nanomaterials Cooperative: A New Model for Supporting Collaborative Research at Small Institutions on a National Scale. ACS Nanoscience Au, 2021, 1, 6-14.	4.8	0