Sheryl Ehrman

List of Publications by Year in descending order

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67 papers	2,867 citations	186265 28 h-index	175258 52 g-index
69 all docs	69 docs citations	69 times ranked	5102 citing authors

#	Article	IF	Citations
1	Infectious virus in exhaled breath of symptomatic seasonal influenza cases from a college community. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1081-1086.	7.1	436
2	Grapheneâ€Bonded and â€Encapsulated Si Nanoparticles for Lithium Ion Battery Anodes. Small, 2013, 9, 2810-2816.	10.0	183
3	Carbon coated hollow Na2FePO4F spheres for Na-ion battery cathodes. Journal of Power Sources, 2013, 223, 62-67.	7.8	134
4	Synthesis of Iron Nanoparticles via Chemical Reduction with Palladium Ion Seeds. Langmuir, 2007, 23, 1419-1426.	3.5	125
5	Copper oxide nanoparticle made by flame spray pyrolysis for photoelectrochemical water splitting â€“ Part II. Photoelectrochemical study. International Journal of Hydrogen Energy, 2011, 36, 15519-15526.	7.1	123
6	Magnetic Iron Oxide Nanoparticles for Biorecognition:Â Evaluation of Surface Coverage and Activity. Journal of Physical Chemistry B, 2006, 110, 1553-1558.	2.6	121
7	Surface Modification of Magnetic Nanoparticles Using Gum Arabic. Journal of Nanoparticle Research, 2006, 8, 749-753.	1.9	95
8	Copper oxide photocathodes prepared by a solution based process. International Journal of Hydrogen Energy, 2012, 37, 8232-8239.	7.1	93
9	Regional air quality impacts of hydraulic fracturing and shale natural gas activity: Evidence from ambient VOC observations. Atmospheric Environment, 2015, 110, 144-150.	4.1	88
10	The sources and size distributions of organonitrates in Los Angeles aerosol. Atmospheric Environment Part A General Topics, 1991, 25, 2855-2861.	1.3	82
11	Li Doped CuO Film Electrodes for Photoelectrochemical Cells. Journal of the Electrochemical Society, 2011, 159, B227-B231.	2.9	80
12	Phase segregation in binary SiO₂/TiO₂ and SiO₂/Fe₂O₃ nanoparticle aerosols formed in a premixed flame. Journal of Materials Research, 1999, 14, 4551-4561.	2.6	79
13	Biological Templates for Antireflective Current Collectors for Photoelectrochemical Cell Applications. Nano Letters, 2012, 12, 6005-6011.	9.1	74
14	Copper oxide nanoparticle made by flame spray pyrolysis for photoelectrochemical water splitting â€“ Part I. CuO nanoparticle preparation. International Journal of Hydrogen Energy, 2012, 37, 4871-4879.	7.1	74
15	Influence of particle oxide coating on light scattering by submicron metal particles on silicon wafers. Applied Physics Letters, 2004, 84, 1278-1280.	3.3	62
16	Process Intensification in the Production of Photocatalysts for Solar Hydrogen Generation. Industrial & Engineering Chemistry Research, 2012, 51, 5207-5215.	3.7	59
17	Ozone, oxides of nitrogen, and carbon monoxide during pollution events over the eastern United States: An evaluation of emissions and vertical mixing. Journal of Geophysical Research, 2011, 116, .	3.3	49
18	Cosolvent-assisted spray pyrolysis for the generation of metal particles. Journal of Materials Research, 2003, 18, 1614-1622.	2.6	47

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19	Flame Synthesis of Nanosized Cuâ^'Ceâ^'O, Niâ^'Ceâ^'O, and Feâ^'Ceâ^'O Catalysts for the Water-Gas Shift (WGS) Reaction. ACS Applied Materials & Interfaces, 2009, 1, 2624-2635.	8.0	46
20	Methane Emissions From the Baltimoreâ€Washington Area Based on Airborne Observations: Comparison to Emissions Inventories. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8869-8882.	3.3	43
21	CeO 2 added V 2 O 5 /TiO 2 catalyst prepared by chemical vapor condensation (CVC) and impregnation method for enhanced NH 3 -SCR of NO x at low temperature. Journal of Environmental Chemical Engineering, 2016, 4, 556-563.	6.7	41
22	CAMx ozone source attribution in the eastern United States using guidance from observations during DISCOVERâ€AQ Maryland. Geophysical Research Letters, 2016, 43, 2249-2258.	4.0	39
23	Approaches to increasing yield in evaporation/condensation nanoparticle generation. Journal of Aerosol Science, 2002, 33, 1309-1325.	3.8	37
24	Precipitation of Nanocrystalline CeO₂ Using Triethanolamine. Langmuir, 2009, 25, 67-70.	3.5	37
25	Dopant effects on conductivity in copper oxide photoelectrochemical cells. Applied Energy, 2016, 164, 1039-1042.	10.1	37
26	Photocatalytic activity of a surface-modified anatase and rutile titania nanoparticle mixture. Journal of Colloid and Interface Science, 2009, 338, 304-307.	9.4	34
27	Estimating Methane Emissions From Underground Coal and Natural Gas Production in Southwestern Pennsylvania. Geophysical Research Letters, 2019, 46, 4531-4540.	4.0	32
28	Effect of Particle Size on Rate of Coalescence of Silica Nanoparticles. Journal of Colloid and Interface Science, 1999, 213, 258-261.	9.4	31
29	Evaluating commercial marine emissions and their role in air quality policy using observations and the CMAQ model. Atmospheric Environment, 2018, 173, 96-107.	4.1	30
30	Effect of Temperature and Vapor-phase Encapsulation on Particle Growth and Morphology. Journal of Materials Research, 1999, 14, 1664-1671.	2.6	28
31	Methane Emissions from the Marcellus Shale in Southwestern Pennsylvania and Northern West Virginia Based on Airborne Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1862-1878.	3.3	26
32	Colloidal spray pyrolysis: A new fabrication technology for nanostructured energy storage materials. Energy Storage Materials, 2018, 13, 8-18.	18.0	25
33	Improved Photoelectrochemical Response of Titanium Dioxide Irradiated with 120 MeV Ag⁹⁺ Ions. Journal of Physical Chemistry C, 2010, 114, 622-626.	3.1	24
34	Effects of Particle Morphology on the Antibiofouling Performance of Silver Embedded Polysulfone Membranes and Rate of Silver Leaching. Industrial & Engineering Chemistry Research, 2017, 56, 2240-2246.	3.7	24
35	Capillary Condensation onto Titania (TiO2) Nanoparticle Agglomerates. Langmuir, 2007, 23, 2497-2504.	3.5	22
36	Scalable fabrication of SnO2/eo-GO nanocomposites for the photoreduction of CO2 to CH4. Nano Research, 2018, 11, 4049-4061.	10.4	22

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37	An Investigation of Particle Dynamics in a Rotating Disk Chemical Vapor Deposition Reactor. Journal of the Electrochemical Society, 2003, 150, G127.	2.9	19
38	Cu-Sn binary metal particle generation by spray pyrolysis. Aerosol Science and Technology, 2017, 51, 430-442.	3.1	18
39	Modified structural, morphological and photoelectrochemical properties of 120ÂMeV Ag9+ ion irradiated BaTiO3 thin films. Current Applied Physics, 2013, 13, 344-350.	2.4	17
40	Dopant Effects on Copper Oxide Photoelectrochemical Cell Water Splitting. Energy Procedia, 2014, 61, 1799-1802.	1.8	17
41	Pipeline agglomerator design as a model test case. Powder Technology, 2005, 156, 129-145.	4.2	16
42	FePt nanoparticle hydrodynamic size and densities from the polyol process as determined by analytical ultracentrifugation. Nanotechnology, 2005, 16, 953-956.	2.6	15
43	Functionalized mesoporous silica: absorbents for water purification. Desalination and Water Treatment, 2016, 57, 29352-29362.	1.0	15
44	Particle generation by cosolvent spray pyrolysis: Effects of ethanol and ethylene glycol. Journal of Materials Research, 2012, 27, 2540-2550.	2.6	14
45	Receptor modeling of the fine aerosol at a residential Los Angeles site. Atmospheric Environment Part B Urban Atmosphere, 1992, 26, 473-481.	0.5	13
46	Modification of a commercial cavity ring-down spectroscopy NO2 detector for enhanced sensitivity. Review of Scientific Instruments, 2009, 80, 113107.	1.3	12
47	Bimodal Distributions of Two Component Metal Oxide Aerosols. Aerosol Science and Technology, 1999, 30, 259-272.	3.1	10
48	In vitro effects of cisplatin-functionalized silica nanoparticles on chondrocytes. Journal of Nanoparticle Research, 2010, 12, 2757-2770.	1.9	10
49	Conductive One- and Two-Dimensional Structures Fabricated Using Oxidation-Resistant Cuâ€“Sn Particles. ACS Applied Materials & Interfaces, 2017, 9, 34587-34591.	8.0	10
50	Rational Design of Coreâ€“Shell-Structured Particles by a One-Step and Template-Free Process for High-Performance Lithium/Sodium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 22232-22240.	3.1	10
51	Hybrid mesoporous silicates: A distinct aspect to synthesis and application for decontamination of phenols. Saudi Journal of Biological Sciences, 2019, 26, 1161-1170.	3.8	10
52	Morphology and bilayer integrity of small liposomes during aerosol generation by air-jet nebulisation. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	8
53	Spray pyrolysis of phase pure AgCu particles using organic cosolvents. Journal of Materials Research, 2013, 28, 2753-2761.	2.6	8
54	Oxidation-resistant micron-sized Cuâ€“Sn solid particles fabricated by a one-step and scalable method. RSC Advances, 2017, 7, 23468-23477.	3.6	8

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55	Grand canonical Monte Carlo simulation study of capillary condensation between nanoparticles. Journal of Chemical Physics, 2007, 127, 134702.	3.0	7
56	A Monte Carlo and continuum study of mechanical properties of nanoparticle based films. Journal of Nanoparticle Research, 2008, 10, 31-39.	1.9	7
57	Expected ozone benefits of reducing nitrogen oxide (NO_x) emissions from coal-fired electricity generating units in the eastern United States. Journal of the Air and Waste Management Association, 2017, 67, 279-291.	1.9	5
58	Experimental Evidence for Nonuniform Flow in a Horizontal Evaporation/Condensation Aerosol Generator. Aerosol Science and Technology, 2005, 39, 444-451.	3.1	4
59	Physical properties of porous titania films composed of nanoparticle aggregates. Journal of Materials Research, 2006, 21, 1738-1746.	2.6	4
60	Size distribution and dye release properties of submicron liposome aerosols. Powder Technology, 2013, 246, 530-538.	4.2	4
61	A Spray Pyrolysis Approach for the Generation of Patchy Particles. Aerosol Science and Technology, 2013, 47, i-v.	3.1	4
62	Copperâ€“zinc particles with zinc-enriched surfaces generated via spray pyrolysis. Aerosol Science and Technology, 2018, 52, 984-991.	3.1	2
63	Characterization of fluorescent iron nanoparticlesâ€”candidates for multimodal tracking of neuronal transport. AIMS Bioengineering, 2016, 3, 362-378.	1.1	2
64	A numerical/experimental investigation of microcontamination in a rotating disk chemical vapor deposition reactor. AIP Conference Proceedings, 2001, , .	0.4	1
65	Characterization of Porous Pt/Al2O3 Films Produced by Hybrid Gas-to-Particle Conversion and Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2002, 751, 1.	0.1	0
66	The Aerosol Community Mourns the Loss of a Giant Sheldon K. Friedlander 1927â€“2007. Aerosol Science and Technology, 2007, 41, 895-897.	3.1	0
67	SJSU Go. , 2020, , .		0