

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	SJSU Co. , 2020, , .		0
2	Estimating Methane Emissions From Underground Coal and Natural Gas Production in Southwestern Pennsylvania. <i>Geophysical Research Letters</i> , 2019, 46, 4531-4540.	4.0	32
3	Methane Emissions from the Marcellus Shale in Southwestern Pennsylvania and Northern West Virginia Based on Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1862-1878.	3.3	26
4	Hybrid mesoporous silicates: A distinct aspect to synthesis and application for decontamination of phenols. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 1161-1170.	3.8	10
5	Scalable fabrication of SnO ₂ /eo-GO nanocomposites for the photoreduction of CO ₂ to CH ₄ . <i>Nano Research</i> , 2018, 11, 4049-4061.	10.4	22
6	Infectious virus in exhaled breath of symptomatic seasonal influenza cases from a college community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1081-1086.	7.1	436
7	Colloidal spray pyrolysis: A new fabrication technology for nanostructured energy storage materials. <i>Energy Storage Materials</i> , 2018, 13, 8-18.	18.0	25
8	Evaluating commercial marine emissions and their role in air quality policy using observations and the CMAQ model. <i>Atmospheric Environment</i> , 2018, 173, 96-107.	4.1	30
9	Rational Design of Core-Shell-Structured Particles by a One-Step and Template-Free Process for High-Performance Lithium/Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22232-22240.	3.1	10
10	Copper-zinc particles with zinc-enriched surfaces generated via spray pyrolysis. <i>Aerosol Science and Technology</i> , 2018, 52, 984-991.	3.1	2
11	Methane Emissions From the Baltimore-Washington Area Based on Airborne Observations: Comparison to Emissions Inventories. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8869-8882.	3.3	43
12	Expected ozone benefits of reducing nitrogen oxide (NO _x) emissions from coal-fired electricity generating units in the eastern United States. <i>Journal of the Air and Waste Management Association</i> , 2017, 67, 279-291.	1.9	5
13	Cu-Sn binary metal particle generation by spray pyrolysis. <i>Aerosol Science and Technology</i> , 2017, 51, 430-442.	3.1	18
14	Effects of Particle Morphology on the Antibiofouling Performance of Silver Embedded Polysulfone Membranes and Rate of Silver Leaching. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2240-2246.	3.7	24
15	Oxidation-resistant micron-sized Cu-Sn solid particles fabricated by a one-step and scalable method. <i>RSC Advances</i> , 2017, 7, 23468-23477.	3.6	8
16	Conductive One- and Two-Dimensional Structures Fabricated Using Oxidation-Resistant Cu-Sn Particles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34587-34591.	8.0	10
17	CAMx ozone source attribution in the eastern United States using guidance from observations during DISCOVER-AQ Maryland. <i>Geophysical Research Letters</i> , 2016, 43, 2249-2258.	4.0	39
18	Functionalized mesoporous silica: absorbents for water purification. <i>Desalination and Water Treatment</i> , 2016, 57, 29352-29362.	1.0	15

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19	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. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 556-563.	6.7	41
20	Dopant effects on conductivity in copper oxide photoelectrochemical cells. <i>Applied Energy</i> , 2016, 164, 1039-1042.	10.1	37
21	Characterization of fluorescent iron nanoparticles as candidates for multimodal tracking of neuronal transport. <i>AIMS Bioengineering</i> , 2016, 3, 362-378.	1.1	2
22	Regional air quality impacts of hydraulic fracturing and shale natural gas activity: Evidence from ambient VOC observations. <i>Atmospheric Environment</i> , 2015, 110, 144-150.	4.1	88
23	Dopant Effects on Copper Oxide Photoelectrochemical Cell Water Splitting. <i>Energy Procedia</i> , 2014, 61, 1799-1802.	1.8	17
24	Modified structural, morphological and photoelectrochemical properties of 120 MeV Ag ⁹⁺ ion irradiated BaTiO ₃ thin films. <i>Current Applied Physics</i> , 2013, 13, 344-350.	2.4	17
25	Size distribution and dye release properties of submicron liposome aerosols. <i>Powder Technology</i> , 2013, 246, 530-538.	4.2	4
26	Carbon coated hollow Na ₂ FePO ₄ F spheres for Na-ion battery cathodes. <i>Journal of Power Sources</i> , 2013, 223, 62-67.	7.8	134
27	Graphene-Bonded and Encapsulated Si Nanoparticles for Lithium Ion Battery Anodes. <i>Small</i> , 2013, 9, 2810-2816.	10.0	183
28	Spray pyrolysis of phase pure AgCu particles using organic cosolvents. <i>Journal of Materials Research</i> , 2013, 28, 2753-2761.	2.6	8
29	A Spray Pyrolysis Approach for the Generation of Patchy Particles. <i>Aerosol Science and Technology</i> , 2013, 47, i-v.	3.1	4
30	Particle generation by cosolvent spray pyrolysis: Effects of ethanol and ethylene glycol. <i>Journal of Materials Research</i> , 2012, 27, 2540-2550.	2.6	14
31	Biological Templates for Antireflective Current Collectors for Photoelectrochemical Cell Applications. <i>Nano Letters</i> , 2012, 12, 6005-6011.	9.1	74
32	Process Intensification in the Production of Photocatalysts for Solar Hydrogen Generation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5207-5215.	3.7	59
33	Morphology and bilayer integrity of small liposomes during aerosol generation by air-jet nebulisation. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	8
34	Copper oxide nanoparticle made by flame spray pyrolysis for photoelectrochemical water splitting Part I. CuO nanoparticle preparation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4871-4879.	7.1	74
35	Copper oxide photocathodes prepared by a solution based process. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8232-8239.	7.1	93
36	Li Doped CuO Film Electrodes for Photoelectrochemical Cells. <i>Journal of the Electrochemical Society</i> , 2011, 159, B227-B231.	2.9	80

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37	Ozone, oxides of nitrogen, and carbon monoxide during pollution events over the eastern United States: An evaluation of emissions and vertical mixing. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	49
38	Copper oxide nanoparticle made by flame spray pyrolysis for photoelectrochemical water splitting – Part II. Photoelectrochemical study. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15519-15526.	7.1	123
39	In vitro effects of cisplatin-functionalized silica nanoparticles on chondrocytes. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2757-2770.	1.9	10
40	Improved Photoelectrochemical Response of Titanium Dioxide Irradiated with 120 MeV Ag ⁹⁺ Ions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 622-626.	3.1	24
41	Modification of a commercial cavity ring-down spectroscopy NO ₂ detector for enhanced sensitivity. <i>Review of Scientific Instruments</i> , 2009, 80, 113107.	1.3	12
42	Photocatalytic activity of a surface-modified anatase and rutile titania nanoparticle mixture. <i>Journal of Colloid and Interface Science</i> , 2009, 338, 304-307.	9.4	34
43	Precipitation of Nanocrystalline CeO ₂ Using Triethanolamine. <i>Langmuir</i> , 2009, 25, 67-70.	3.5	37
44	Flame Synthesis of Nanosized Cu ⁺ Ce ⁺ O, Ni ⁺ Ce ⁺ O, and Fe ⁺ Ce ⁺ O Catalysts for the Water-Gas Shift (WGS) Reaction. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2624-2635.	8.0	46
45	A Monte Carlo and continuum study of mechanical properties of nanoparticle based films. <i>Journal of Nanoparticle Research</i> , 2008, 10, 31-39.	1.9	7
46	The Aerosol Community Mourns the Loss of a Giant Sheldon K. Friedlander 1927–2007. <i>Aerosol Science and Technology</i> , 2007, 41, 895-897.	3.1	0
47	Grand canonical Monte Carlo simulation study of capillary condensation between nanoparticles. <i>Journal of Chemical Physics</i> , 2007, 127, 134702.	3.0	7
48	Capillary Condensation onto Titania (TiO ₂) Nanoparticle Agglomerates. <i>Langmuir</i> , 2007, 23, 2497-2504.	3.5	22
49	Synthesis of Iron Nanoparticles via Chemical Reduction with Palladium Ion Seeds. <i>Langmuir</i> , 2007, 23, 1419-1426.	3.5	125
50	Physical properties of porous titania films composed of nanoparticle aggregates. <i>Journal of Materials Research</i> , 2006, 21, 1738-1746.	2.6	4
51	Magnetic Iron Oxide Nanoparticles for Biorecognition: Evaluation of Surface Coverage and Activity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1553-1558.	2.6	121
52	Surface Modification of Magnetic Nanoparticles Using Gum Arabic. <i>Journal of Nanoparticle Research</i> , 2006, 8, 749-753.	1.9	95
53	Pipeline agglomerator design as a model test case. <i>Powder Technology</i> , 2005, 156, 129-145.	4.2	16
54	FePt nanoparticle hydrodynamic size and densities from the polyol process as determined by analytical ultracentrifugation. <i>Nanotechnology</i> , 2005, 16, 953-956.	2.6	15

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55	Experimental Evidence for Nonuniform Flow in a Horizontal Evaporation/Condensation Aerosol Generator. <i>Aerosol Science and Technology</i> , 2005, 39, 444-451.	3.1	4
56	Influence of particle oxide coating on light scattering by submicron metal particles on silicon wafers. <i>Applied Physics Letters</i> , 2004, 84, 1278-1280.	3.3	62
57	An Investigation of Particle Dynamics in a Rotating Disk Chemical Vapor Deposition Reactor. <i>Journal of the Electrochemical Society</i> , 2003, 150, G127.	2.9	19
58	Cosolvent-assisted spray pyrolysis for the generation of metal particles. <i>Journal of Materials Research</i> , 2003, 18, 1614-1622.	2.6	47
59	Characterization of Porous Pt/Al ₂ O ₃ Films Produced by Hybrid Gas-to-Particle Conversion and Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2002, 751, 1.	0.1	0
60	Approaches to increasing yield in evaporation/condensation nanoparticle generation. <i>Journal of Aerosol Science</i> , 2002, 33, 1309-1325.	3.8	37
61	A numerical/experimental investigation of microcontamination in a rotating disk chemical vapor deposition reactor. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	1
62	Phase segregation in binary SiO ₂ /TiO ₂ and SiO ₂ /Fe ₂ O ₃ nanoparticle aerosols formed in a premixed flame. <i>Journal of Materials Research</i> , 1999, 14, 4551-4561.	2.6	79
63	Effect of Temperature and Vapor-phase Encapsulation on Particle Growth and Morphology. <i>Journal of Materials Research</i> , 1999, 14, 1664-1671.	2.6	28
64	Effect of Particle Size on Rate of Coalescence of Silica Nanoparticles. <i>Journal of Colloid and Interface Science</i> , 1999, 213, 258-261.	9.4	31
65	Bimodal Distributions of Two Component Metal Oxide Aerosols. <i>Aerosol Science and Technology</i> , 1999, 30, 259-272.	3.1	10
66	Receptor modeling of the fine aerosol at a residential Los Angeles site. <i>Atmospheric Environment Part B Urban Atmosphere</i> , 1992, 26, 473-481.	0.5	13
67	The sources and size distributions of organonitrates in Los Angeles aerosol. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 2855-2861.	1.3	82