Jacqueline A Isaacs

List of Publications by Citations

65 papers	1,187 citations	19 h-index	33 g-index
85 ext. papers	1,324 ext. citations	5.2 avg, IF	4.38 L-index

#	Paper	IF	Citations
65	New perspectives on nanomaterial aquatic ecotoxicity: production impacts exceed direct exposure impacts for carbon nanotoubes. *Environmental Science & Technology*, **2012**, 46, 2902-10	10.3	132
64	Environmental Assessment of Single-Walled Carbon Nanotube Processes. *Journal of Industrial Ecology*, **2008**, 12, 376-393	7.2	122
63	Airborne nanoparticle exposures associated with the manual handling of nanoalumina and nanosilver in fume hoods. *Journal of Nanoparticle Research*, **2009**, 11, 147-161	2.3	95
62	Novel keyword co-occurrence network-based methods to foster systematic reviews of scientific literature. *PLoS ONE*, **2017**, 12, e0172778	3.7	69
61	Mapping the biological oxidative damage of engineered nanomaterials. *Small*, **2013**, 9, 1853-65	11	55
60	NanoEHS defining fundamental science needs: no easy feat when the simple itself is complex. *Environmental Science: Nano*, **2016**, 3, 15-27	7.1	48
59	Economic Consequences of Increasing Polymer Content for the U.S. Automobile Recycling Infrastructure. *Journal of Industrial Ecology*, **1997**, 1, 19-33	7.2	41
58	Economic assessment of single-walled carbon nanotube processes. *Journal of Nanoparticle Research*, **2010**, 12, 551-562	2.3	39
57	Life cycle impacts and benefits of a carbon nanotube-enabled chemical gas sensor. *Environmental Science & Technology*, **2014**, 48, 11360-8	10.3	38
56	Net energy benefits of carbon nanotube applications. *Applied Energy*, **2016**, 173, 624-634	10.7	33
55	Environmental life cycle assessment of a carbon nanotube-enabled semiconductor device. *Environmental Science & Technology*, **2013**, 47, 8471-8	10.3	30
54	Review of Research Trends and Methods in Nano Environmental, Health, and Safety Risk Analysis. *Risk Analysis*, **2016**, 36, 1644-65	3.9	27
53	ECONOMIC SENSITIVITY FOR END OF LIFE PLANNING AND PROCESSING OF PERSONAL COMPUTERS. *Journal of Electronics Manufacturing*, **2002**, 11, 81-93		27
52	Life cycle energy benefits of carbon nanotubes for electromagnetic interference (EMI) shielding applications. *Journal of Cleaner Production*, **2017**, 142, 1971-1978	10.3	26
51	MMCs for automotive engine applications. *Jom*, **1996**, 48, 49-51	2.1	26
50	Economic Impact of Aluminum-Intensive Vehicles on the U.S. Automotive Recycling Infrastructure. *Journal of Industrial Ecology*, **2000**, 4, 117-134	7.2	25
49	A life cycle framework for the investigation of environmentally benign nanoparticles and products. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 312-317	2.5	23

48	Integrating life cycle assessment into managing potential EHS risks of engineered nanomaterials: reviewing progress to date. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	22
47	The effects of recycling on the properties of carbon nanotube-filled polypropylene composites and worker exposures. *Environmental Science: Nano*, **2016**, 3, 409-417	7.1	19
46	Screening for oxidative damage by engineered nanomaterials: a comparative evaluation of FRAS and DCFH. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	19
45	Environmental Assessment of SWNT Production **2006**,		19
44	End-of-Life Infrastructure Economics for Clean Vehicles In the United States. *Journal of Industrial Ecology*, **2003**, 7, 25-45	7.2	19
43	Material Flow Analysis of Carbon Nanotube Lithium-Ion Batteries Used in Portable Computers. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1642-1648	8.3	18
42	Value analysis of disposal strategies for automobiles. *Computers and Industrial Engineering*, **1997**, 33, 325-328	6.4	18
41	Characterization of Potential Exposures to Nanoparticles and Fibers during Manufacturing and Recycling of Carbon Nanotube Reinforced Polypropylene Composites. *Annals of Occupational Hygiene*, **2016**, 60, 40-55		15
40	Nanomanufacturing and sustainability: opportunities and challenges. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	15
39	Exposures to nanoparticles and fibers during injection molding and recycling of carbon nanotube reinforced polycarbonate composites. *Journal of Exposure Science and Environmental Epidemiology*, **2017**, 27, 379-390	6.7	12
38	Adoption of New Medical Technologies: The Case of Customized Individually Made Knee Implants. *Value in Health*, **2019**, 22, 423-430	3.3	10
37	Economic analysis of CNT lithium-ion battery manufacturing. *Environmental Science: Nano*, **2015**, 2, 463-476	7.1	10
36	Nanomaterial induction of oxidative stress in lung epithelial cells and macrophages. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	10
35	Risk Analysis Modeling of Production Costs and Occupational Health Exposure of Single-Wall Carbon Nanotube Manufacturing. *Journal of Industrial Ecology*, **2008**, 12, 411-434	7.2	9
34	Environmentally benign manufacturing A workshop report. *Journal of Cleaner Production*, **2006**, 14, 527-535	10.3	9
33	Economic Comparison of NdFeB and Hard Ferrites in Automotive Applications. *Materials and Manufacturing Processes*, **2004**, 19, 777-787	4.1	7
32	A Game Approach to Teach Environmentally Benign Manufacturing in the Supply Chain. *International Journal for the Scholarship of Teaching and Learning*, **2008**, 2,	1.3	7
31	Advancements in Unit Process Life Cycle Inventories (UPLCI) Tools. *Procedia CIRP*, **2018**, 69, 447-450	1.8	7

30	Analytically motivated process improvements in continuous metal matrix composite wire fabrication. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1999**, 266, 86-92	5.3	6
29	Life-cycle analysis of automobiles: A critical review of methodologies. *Jom*, **1994**, 46, 12-16	2.1	6
28	Cumulative Energy Demand for Printing Nanoscale Electronics. *Procedia CIRP*, **2019**, 80, 298-303	1.8	5
27	The effects of recycling on the structure and properties of carbon nanotube-filled polycarbonate. *Polymer Engineering and Science*, **2018**, 58, 1278-1284	2.3	5
26	Multistage Stochastic Programming (MSP) Model for Carbon Nanotube Production Capacity Expansion Planning. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1633-1641	8.3	4
25	Environmental assessment of manufacturing with carbon nanotubes **2009**,		4
24	Engineering students game to green the automobile supply chain **2008**,		4
23	Expression of the carbohydrate antigen CD15 in rat uterine epithelial cells during the early stages of pregnancy. *European Journal of Morphology*, **1998**, 36, 49-56		4
22	Ultrastructural localisation of Muc-1 on the plasma membrane of uterine epithelial cells. *Acta Histochemica*, **2003**, 105, 239-43	2	3
21	Comparison of U.S. Manufacturing Locations for Solar PVs. *Procedia CIRP*, **2019**, 80, 434-439	1.8	2
20	Developing a social capital metric for use in an educational computer game **2010**,		2
19	Desirability functions for optimizing nanomanufacturing production scale-up **2010**,		2
18	Environmental assessment of manufacturing with carbon nanotubes **2009**,		2
17	Nanotechnology environmental, health, and safety issues: brief literature review since 2000 **2009**,		2
16	Modeling Production Costs for SWNT Manufacturing Given Uncertain Health and Safety Standards. *Electronics and the Environment, IEEE International Symposium on*, **2007**,		2
15	Nanomanufacturing and sustainability: opportunities and challenges **2013**, 331-336		2
14	Sustainable CNT-enabled lithium-ion battery manufacturing: evaluating the tradeoffs. *Environmental Science: Nano*, **2016**, 3, 1447-1459	7.1	1
13	Tackling Science Communication with REU Students: A Formative Evaluation of a Collaborative Approach. *Materials Research Society Symposia Proceedings*, **2009**, 1233, 1		1

12	Metrology challenges for high-rate nanomanufacturing of polymer structures **2012**,		1
11	Probabilistic and Monte Carlo risk models for carbon nanomaterial production processes **2008**,		1
10	Heparin-binding EGF-like growth factor is seen on the extracellular surface of uterine epithelial cells only after the initial stages of blastocyst attachment. *The Histochemical Journal*, **2002**, 34, 339-43		1
9	Economics of PC recycling **2001**,		1
8	Hydrodynamic modeling of a continuous metal matrix composite fabrication process as a cylindrical array. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 297, 132-137	5.3	1
7	Correlation of thermal models with microstructural effects in continuous MMC wire production. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1999**, 266, 52-61	5.3	1
6	Impacts of a Multi-University REU Program. *Materials Research Society Symposia Proceedings*, **2015**, 1762, 1		
5	Managing Student Group Projects in an Introductory Materials Science Course. *Materials Research Society Symposia Proceedings*, **2002**, 760, 1		
4	Enhancing the Success of Undergraduates in Engineering: A Teaching Workshop for Faculty and TAs. *Materials Research Society Symposia Proceedings*, **2000**, 632, 1		
3	Leaving the Laboratory **2006**, 377-388		
2	Safety Assessment of Nanotechnology Products **2010**, 53-63		
1	Life Cycle Perspectives for Biosensors **2012**, 125-129		