

Jacqueline A Isaacs

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Cumulative Energy Demand for Printing Nanoscale Electronics. <i>Procedia CIRP</i> , 2019 , 80, 298-303	1.8	5
64	Comparison of U.S. Manufacturing Locations for Solar PVs. <i>Procedia CIRP</i> , 2019 , 80, 434-439	1.8	2
63	Adoption of New Medical Technologies: The Case of Customized Individually Made Knee Implants. <i>Value in Health</i> , 2019 , 22, 423-430	3.3	10
62	The effects of recycling on the structure and properties of carbon nanotube-filled polycarbonate. <i>Polymer Engineering and Science</i> , 2018 , 58, 1278-1284	2.3	5
61	Advancements in Unit Process Life Cycle Inventories (UPLCI) Tools. <i>Procedia CIRP</i> , 2018 , 69, 447-450	1.8	7
60	Exposures to nanoparticles and fibers during injection molding and recycling of carbon nanotube reinforced polycarbonate composites. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2017 , 27, 379-390	6.7	12
59	Life cycle energy benefits of carbon nanotubes for electromagnetic interference (EMI) shielding applications. <i>Journal of Cleaner Production</i> , 2017 , 142, 1971-1978	10.3	26
58	Novel keyword co-occurrence network-based methods to foster systematic reviews of scientific literature. <i>PLoS ONE</i> , 2017 , 12, e0172778	3.7	69
57	NanoEHS: Defining fundamental science needs: no easy feat when the simple itself is complex. <i>Environmental Science: Nano</i> , 2016 , 3, 15-27	7.1	48
56	Characterization of Potential Exposures to Nanoparticles and Fibers during Manufacturing and Recycling of Carbon Nanotube Reinforced Polypropylene Composites. <i>Annals of Occupational Hygiene</i> , 2016 , 60, 40-55		15
55	Sustainable CNT-enabled lithium-ion battery manufacturing: evaluating the tradeoffs. <i>Environmental Science: Nano</i> , 2016 , 3, 1447-1459	7.1	1
54	Review of Research Trends and Methods in Nano Environmental, Health, and Safety Risk Analysis. <i>Risk Analysis</i> , 2016 , 36, 1644-65	3.9	27
53	The effects of recycling on the properties of carbon nanotube-filled polypropylene composites and worker exposures. <i>Environmental Science: Nano</i> , 2016 , 3, 409-417	7.1	19
52	Net energy benefits of carbon nanotube applications. <i>Applied Energy</i> , 2016 , 173, 624-634	10.7	33
51	Impacts of a Multi-University REU Program. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1762, 1		
50	Economic analysis of CNT lithium-ion battery manufacturing. <i>Environmental Science: Nano</i> , 2015 , 2, 463-476	7.6	10
49	Integrating life cycle assessment into managing potential EHS risks of engineered nanomaterials: reviewing progress to date. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	22

48	Screening for oxidative damage by engineered nanomaterials: a comparative evaluation of FRAS and DCFH. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	19
47	Material Flow Analysis of Carbon Nanotube Lithium-Ion Batteries Used in Portable Computers. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1642-1648	8.3	18
46	Life cycle impacts and benefits of a carbon nanotube-enabled chemical gas sensor. <i>Environmental Science & Technology</i> , 2014 , 48, 11360-8	10.3	38
45	Multistage Stochastic Programming (MSP) Model for Carbon Nanotube Production Capacity Expansion Planning. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1633-1641	8.3	4
44	Nanomaterial induction of oxidative stress in lung epithelial cells and macrophages. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	10
43	Environmental life cycle assessment of a carbon nanotube-enabled semiconductor device. <i>Environmental Science & Technology</i> , 2013 , 47, 8471-8	10.3	30
42	Nanomanufacturing and sustainability: opportunities and challenges. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	15
41	Mapping the biological oxidative damage of engineered nanomaterials. <i>Small</i> , 2013 , 9, 1853-65	11	55
40	Nanomanufacturing and sustainability: opportunities and challenges 2013 , 331-336		2
39	New perspectives on nanomaterial aquatic ecotoxicity: production impacts exceed direct exposure impacts for carbon nanotubes. <i>Environmental Science & Technology</i> , 2012 , 46, 2902-10	10.3	132
38	Metrology challenges for high-rate nanomanufacturing of polymer structures 2012 ,		1
37	Life Cycle Perspectives for Biosensors 2012 , 125-129		
36	A life cycle framework for the investigation of environmentally benign nanoparticles and products. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 312-317	2.5	23
35	Developing a social capital metric for use in an educational computer game 2010 ,		2
34	Desirability functions for optimizing nanomanufacturing production scale-up 2010 ,		2
33	Economic assessment of single-walled carbon nanotube processes. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 551-562	2.3	39
32	Safety Assessment of Nanotechnology Products 2010 , 53-63		
31	Environmental assessment of manufacturing with carbon nanotubes 2009 ,		4

30	Tackling Science Communication with REU Students: A Formative Evaluation of a Collaborative Approach. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1233, 1		1
29	Airborne nanoparticle exposures associated with the manual handling of nanoalumina and nanosilver in fume hoods. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 147-161	2.3	95
28	Environmental assessment of manufacturing with carbon nanotubes 2009 ,		2
27	Nanotechnology environmental, health, and safety issues: brief literature review since 2000 2009 ,		2
26	Risk Analysis Modeling of Production Costs and Occupational Health Exposure of Single-Wall Carbon Nanotube Manufacturing. <i>Journal of Industrial Ecology</i> , 2008 , 12, 411-434	7.2	9
25	Environmental Assessment of Single-Walled Carbon Nanotube Processes. <i>Journal of Industrial Ecology</i> , 2008 , 12, 376-393	7.2	122
24	Engineering students game to green the automobile supply chain 2008 ,		4
23	Probabilistic and Monte Carlo risk models for carbon nanomaterial production processes 2008 ,		1
22	A Game Approach to Teach Environmentally Benign Manufacturing in the Supply Chain. <i>International Journal for the Scholarship of Teaching and Learning</i> , 2008 , 2,	1.3	7
21	Modeling Production Costs for SWNT Manufacturing Given Uncertain Health and Safety Standards. <i>Electronics and the Environment, IEEE International Symposium on</i> , 2007 ,		2
20	Environmental Assessment of SWNT Production 2006 ,		19
19	Environmentally benign manufacturing [A workshop report. <i>Journal of Cleaner Production</i> , 2006 , 14, 527-535	10.3	9
18	Leaving the Laboratory 2006 , 377-388		
17	Economic Comparison of NdFeB and Hard Ferrites in Automotive Applications. <i>Materials and Manufacturing Processes</i> , 2004 , 19, 777-787	4.1	7
16	End-of-Life Infrastructure Economics for [Clean Vehicles] in the United States. <i>Journal of Industrial Ecology</i> , 2003 , 7, 25-45	7.2	19
15	Ultrastructural localisation of Muc-1 on the plasma membrane of uterine epithelial cells. <i>Acta Histochemica</i> , 2003 , 105, 239-43	2	3
14	Heparin-binding EGF-like growth factor is seen on the extracellular surface of uterine epithelial cells only after the initial stages of blastocyst attachment. <i>The Histochemical Journal</i> , 2002 , 34, 339-43		1
13	ECONOMIC SENSITIVITY FOR END OF LIFE PLANNING AND PROCESSING OF PERSONAL COMPUTERS. <i>Journal of Electronics Manufacturing</i> , 2002 , 11, 81-93		27

12	Managing Student Group Projects in an Introductory Materials Science Course. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 760, 1		
11	Economics of PC recycling 2001 ,		1
10	Hydrodynamic modeling of a continuous metal matrix composite fabrication process as a cylindrical array. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 297, 132-137	5.3	1
9	Enhancing the Success of Undergraduates in Engineering: A Teaching Workshop for Faculty and TAs. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 632, 1		
8	Economic Impact of Aluminum-Intensive Vehicles on the U.S. Automotive Recycling Infrastructure. <i>Journal of Industrial Ecology</i> , 2000 , 4, 117-134	7.2	25
7	Correlation of thermal models with microstructural effects in continuous MMC wire production. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 266, 52-61	5.3	1
6	Analytically motivated process improvements in continuous metal matrix composite wire fabrication. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 266, 86-92	5.3	6
5	Expression of the carbohydrate antigen CD15 in rat uterine epithelial cells during the early stages of pregnancy. <i>European Journal of Morphology</i> , 1998 , 36, 49-56		4
4	Economic Consequences of Increasing Polymer Content for the U.S. Automobile Recycling Infrastructure. <i>Journal of Industrial Ecology</i> , 1997 , 1, 19-33	7.2	41
3	Value analysis of disposal strategies for automobiles. <i>Computers and Industrial Engineering</i> , 1997 , 33, 325-328	6.4	18
2	MMCs for automotive engine applications. <i>Jom</i> , 1996 , 48, 49-51	2.1	26
1	Life-cycle analysis of automobiles: A critical review of methodologies. <i>Jom</i> , 1994 , 46, 12-16	2.1	6