

# Leanne Marie Gilbertson

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,293  
citations

377584

21  
h-index

312153

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inspiring a nanocircular economy. <i>Environmental Science: Nano</i> , 2022, 9, 839-840.	2.2	3
2	Similar toxicity mechanisms between graphene oxide and oxidized multi-walled carbon nanotubes in <i>Microcystis aeruginosa</i> . <i>Chemosphere</i> , 2021, 265, 129137.	4.2	29
3	Towards resolution of antibacterial mechanisms in metal and metal oxide nanomaterials: a meta-analysis of the influence of study design on mechanistic conclusions. <i>Environmental Science: Nano</i> , 2021, 8, 37-66.	2.2	16
4	Using C-Doping to Identify Photocatalytic Properties of Graphitic Carbon Nitride That Govern Antibacterial Efficacy. <i>ACS ES&amp;T Water</i> , 2021, 1, 269-280.	2.3	23
5	Emerging investigator series: a multispecies analysis of the relationship between oxygen content and toxicity in graphene oxide. <i>Environmental Science: Nano</i> , 2021, 8, 1543-1559.	2.2	1
6	Role of bacterial motility in differential resistance mechanisms of silver nanoparticles and silver ions. <i>Nature Nanotechnology</i> , 2021, 16, 996-1003.	15.6	112
7	A Classification Model to Identify Direct-Acting Mutagenic Polycyclic Aromatic Hydrocarbon Transformation Products. <i>Chemical Research in Toxicology</i> , 2021, 34, 2273-2286.	1.7	3
8	Graphite nanoparticle addition to fertilizers reduces nitrate leaching in growth of lettuce ( <i>Lactuca</i> ) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.2	18
9	Network Analysis for Prioritizing Biodegradation Metabolites of Polycyclic Aromatic Hydrocarbons. <i>Environmental Science &amp; Technology</i> , 2020, 54, 10735-10744.	4.6	12
10	Sustainability coursework: student perspectives and reflections on design thinking. <i>International Journal of Sustainability in Higher Education</i> , 2020, 21, 593-611.	1.6	21
11	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. <i>Nature Food</i> , 2020, 1, 416-425.	6.2	239
12	Unveiling the Synergistic Role of Oxygen Functional Groups in the Graphene-Mediated Oxidation of Glutathione. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45753-45762.	4.0	12
13	Guiding the design space for nanotechnology to advance sustainable crop production. <i>Nature Nanotechnology</i> , 2020, 15, 801-810.	15.6	119
14	Emerging investigator series: connecting concepts of coinage metal stability across length scales. <i>Environmental Science: Nano</i> , 2019, 6, 2674-2696.	2.2	5
15	Structure-Property-Toxicity Relationships of Graphene Oxide: Role of Surface Chemistry on the Mechanisms of Interaction with Bacteria. <i>Environmental Science &amp; Technology</i> , 2019, 53, 14679-14687.	4.6	37
16	Leveraging electrochemistry to uncover the role of nitrogen in the biological reactivity of nitrogen-doped graphene. <i>Environmental Science: Nano</i> , 2019, 6, 3525-3538.	2.2	12
17	Opportunities and challenges for nanotechnology in the agri-tech revolution. <i>Nature Nanotechnology</i> , 2019, 14, 517-522.	15.6	572
18	Copper release and transformation following natural weathering of nano-enabled pressure-treated lumber. <i>Science of the Total Environment</i> , 2019, 668, 234-244.	3.9	12

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19	Atom Conversion Efficiency: A New Sustainability Metric Applied to Nitrogen and Phosphorus Use in Agriculture. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4453-4463.	3.2	34
20	Life cycle considerations of nano-enabled agrochemicals: are today's tools up to the task?. <i>Environmental Science: Nano</i> , 2018, 5, 1057-1069.	2.2	26
21	Impacts of broth chemistry on silver ion release, surface chemistry composition, and bacterial cytotoxicity of silver nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 304-312.	2.2	21
22	A framework for sustainable nanomaterial selection and design based on performance, hazard, and economic considerations. <i>Nature Nanotechnology</i> , 2018, 13, 708-714.	15.6	89
23	Opportunities to advance sustainable design of nano-enabled agriculture identified through a literature review. <i>Environmental Science: Nano</i> , 2018, 5, 11-26.	2.2	57
24	Life Cycle Impact and Benefit Trade-Offs of a Produced Water and Abandoned Mine Drainage Cotreatment Process. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13995-14005.	4.6	7
25	Rational Ligand Design To Improve Agrochemical Delivery Efficiency and Advance Agriculture Sustainability. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13599-13610.	3.2	37
26	Emerging investigator series: it's not all about the ion: support for particle-specific contributions to silver nanoparticle antimicrobial activity. <i>Environmental Science: Nano</i> , 2018, 5, 2047-2068.	2.2	61
27	Research highlights: applications of life-cycle assessment as a tool for characterizing environmental impacts of engineered nanomaterials. <i>Environmental Science: Nano</i> , 2017, 4, 276-281.	2.2	17
28	Informing rational design of graphene oxide through surface chemistry manipulations: properties governing electrochemical and biological activities. <i>Green Chemistry</i> , 2017, 19, 2826-2838.	4.6	19
29	Methodology for quantifying engineered nanomaterial release from diverse product matrices under outdoor weathering conditions and implications for life cycle assessment. <i>Environmental Science: Nano</i> , 2017, 4, 1784-1797.	2.2	22
30	Evaluating the Use of Alternatives Assessment To Compare Bulk Organic Chemical and Nanomaterial Alternatives to Brominated Flame Retardants. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6019-6030.	3.2	6
31	Shape-Dependent Surface Reactivity and Antimicrobial Activity of Nano-Cupric Oxide. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3975-3984.	4.6	96
32	Life Cycle Payback Estimates of Nanosilver Enabled Textiles under Different Silver Loading, Release, And Laundering Scenarios Informed by Literature Review. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7529-7542.	4.6	44
33	Coordinating modeling and experimental research of engineered nanomaterials to improve life cycle assessment studies. <i>Environmental Science: Nano</i> , 2015, 2, 669-682.	2.2	39
34	Highly Conductive Single-Walled Carbon Nanotube Thin Film Preparation by Direct Alignment on Substrates from Water Dispersions. <i>Langmuir</i> , 2015, 31, 1155-1163.	1.6	18
35	Toward safer multi-walled carbon nanotube design: Establishing a statistical model that relates surface charge and embryonic zebrafish mortality. <i>Nanotoxicology</i> , 2015, 10, 1-10.	1.6	25
36	Enhanced dispersion and electronic performance of single-walled carbon nanotube thin films without surfactant: A comprehensive study of various treatment processes. <i>Carbon</i> , 2015, 93, 1008-1020.	5.4	11

#	ARTICLE	IF	CITATIONS
37	Designing nanomaterials to maximize performance and minimize undesirable implications guided by the Principles of Green Chemistry. <i>Chemical Society Reviews</i> , 2015, 44, 5758-5777.	18.7	183
38	Life Cycle Impacts and Benefits of a Carbon Nanotube-Enabled Chemical Gas Sensor. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11360-11368.	4.6	48
39	Toward Tailored Functional Design of Multi-Walled Carbon Nanotubes (MWNTs): Electrochemical and Antimicrobial Activity Enhancement via Oxidation and Selective Reduction. <i>Environmental Science &amp; Technology</i> , 2014, 48, 5938-5945.	4.6	44
40	Realizing Comparable Oxidative and Cytotoxic Potential of Single- and Multiwalled Carbon Nanotubes through Annealing. <i>Environmental Science &amp; Technology</i> , 2013, 47, 130726133045005.	4.6	24
41	Impact of Surface Functionalization on Bacterial Cytotoxicity of Single-Walled Carbon Nanotubes. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6297-6305.	4.6	119