

# Lei Wang

## 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.

21  
papers

794  
citations

13  
h-index

24  
g-index

24  
ext. papers

1,028  
ext. citations

14.9  
avg, IF

4.41  
L-index

#	Paper	IF	Citations
21	Synthetic biology enables field-deployable biosensors for water contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2022</b> , 146, 116507	14.6	2
20	Cellulose or chitin nanofibril-stabilized latex for medical adhesion via tailoring colloidal interactions.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 278, 118916	10.3	0
19	Eco-friendly and multifunctional lignocellulosic nanofibre additives for enhancing pesticide deposition and retention. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133011	14.7	3
18	Potential trade-off between water consumption and water quality: life cycle assessment of nonaqueous solvent dyeing.. <i>Water Research</i> , <b>2022</b> , 215, 118222	12.5	0
17	Comparative study of municipal solid waste incinerator fly ash reutilization in China: Environmental and economic performances. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 169, 105541	11.9	7
16	Toughened Hydrogels through UV Grafting of Cellulose Nanofibers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 1507-1511	8.3	1
15	Improved value and carbon footprint by complete utilization of corncob lignocellulose. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129565	14.7	15
14	Life cycle assessment of organosolv biorefinery designs with the complete use of biomass. <i>Energy Conversion and Management</i> , <b>2021</b> , 246, 114653	10.6	4
13	Comparative life cycle assessment of two ceramsite production technologies for reusing municipal solid waste incinerator fly ash in China. <i>Waste Management</i> , <b>2020</b> , 113, 447-455	8.6	27
12	The multi-scale challenges of biomass fast pyrolysis and bio-oil upgrading: Review of the state of art and future research directions. <i>Progress in Energy and Combustion Science</i> , <b>2019</b> , 71, 1-80	33.6	184
11	Integrated biorefineries: CO <sub>2</sub> utilization for maximum biomass conversion. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 47, 151-161	16.2	39
10	Economic and GHG emissions analyses for sugarcane ethanol in Brazil: Looking forward. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 40, 571-582	16.2	41
9	Environmental sustainability of bioethanol production from wheat straw in the UK. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 28, 715-725	16.2	95
8	Techno-economic potential of bioethanol from bamboo in China. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 173	7.8	65
7	Bioethanol production from various waste papers: Economic feasibility and sensitivity analysis. <i>Applied Energy</i> , <b>2013</b> , 111, 1172-1182	10.7	62
6	Importance of policy support and feedstock prices on economic feasibility of bioethanol production from wheat straw in the UK. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 17, 291-300	16.2	47
5	Environmental sustainability of bioethanol production from waste papers: sensitivity to the system boundary. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 8281	35.4	26

4	A Life Cycle Assessment (LCA) comparison of three management options for waste papers: bioethanol production, recycling and incineration with energy recovery. <i>Bioresource Technology</i> , <b>2012</b> , 120, 89-98	11	59
3	High-solids loading enzymatic hydrolysis of waste papers for biofuel production. <i>Applied Energy</i> , <b>2012</b> , 99, 23-31	10.7	59
2	Technology performance and economic feasibility of bioethanol production from various waste papers. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5717-5730	35.4	52
1	Intein-assisted bisection mapping systematically splits proteins for Boolean logic and inducibility engineering		2