

# Niall Mac Dowell

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1042923/publications.pdf>

Version: 2024-02-01

21  
papers

5,138  
citations

471061

17  
h-index

676716

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

6288  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-1176.  | 15.6 | 2,378     |
| 2  | Carbon capture and storage update. Energy and Environmental Science, 2014, 7, 130-189.   | 15.6 | 1,765     |
| 3  | Can BECCS deliver sustainable and resource efficient negative emissions?. Energy and Environmental Science, 2017, 10, 1389-1426.   | 15.6 | 257       |
| 4  | Investigating the BECCS resource nexus: delivering sustainable negative emissions. Energy and Environmental Science, 2018, 11, 3408-3430.  | 15.6 | 96        |
| 5  | Equity in allocating carbon dioxide removal quotas. Nature Climate Change, 2020, 10, 640-646.  | 8.1  | 91        |
| 6  | Powering sustainable development within planetary boundaries. Energy and Environmental Science, 2019, 12, 1890-1900.   | 15.6 | 77        |
| 7  | Solvent selection and design for CO <sub>2</sub> capture – how we might have been missing the point. Sustainable Energy and Fuels, 2017, 1, 2078-2090.   | 2.5  | 69        |
| 8  | Challenges and opportunities for the utilisation of ionic liquids as solvents for CO <sub>2</sub> capture. Molecular Systems Design and Engineering, 2018, 3, 560-571.                                       | 1.7  | 68        |
| 9  | Impact of myopic decision-making and disruptive events in power systems planning. Nature Energy, 2018, 3, 634-640.   | 19.8 | 58        |
| 10 | What is needed to deliver carbon-neutral heat using hydrogen and CCS?. Energy and Environmental Science, 2020, 13, 4204-4224.  | 15.6 | 54        |
| 11 | Inefficient power generation as an optimal route to negative emissions via BECCS?. Environmental Research Letters, 2017, 12, 045004.   | 2.2  | 52        |
| 12 | Delaying carbon dioxide removal in the European Union puts climate targets at risk. Nature Communications, 2021, 12, 6490.   | 5.8  | 30        |
| 13 | Mitigation potential and environmental impact of centralized versus distributed BECCS with domestic biomass production in Great Britain. GCB Bioenergy, 2019, 11, 1234-1252.                                 | 2.5  | 23        |
| 14 | Comment on “How green is blue hydrogen?”. Energy Science and Engineering, 2022, 10, 1944-1954.   | 1.9  | 23        |
| 15 | A synergistic approach for the simultaneous decarbonisation of power and industry via bioenergy with carbon capture and storage (BECCS). International Journal of Greenhouse Gas Control, 2019, 87, 221-237. | 2.3  | 22        |
| 16 | Recognizing the Value of Collaboration in Delivering Carbon Dioxide Removal. One Earth, 2020, 3, 214-225.  | 3.6  | 20        |
| 17 | A carbon neutral chemical industry powered by the sun. Discover Chemical Engineering, 2021, 1, 1.  | 1.1  | 17        |
| 18 | Delivering low-carbon electricity systems in sub-Saharan Africa: insights from Nigeria. Energy and Environmental Science, 2021, 14, 4018-4037.   | 15.6 | 12        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | A comparative assessment framework for sustainable production of fuels and chemicals explicitly accounting for intermittency. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3888-3903.   | 2.5  | 10        |
| 20 | Hydrogen Production and Its Applications to Mobility. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022, 13, 501-528.  | 3.3  | 7         |
| 21 | Reply to the "Comment on "Powering sustainable development within planetary boundaries" by Y. Yang, <i>Energy Environ. Sci.</i> , 2020, 13, DOI: 10.1039/C9EE01176E. <i>Energy and Environmental Science</i> , 2020, 13, 313-316. | 15.6 | 4         |