BRADLEY P. LADEWIG

Professor

@ bradley.ladewig@uni.lu
in linkedin.com/in/bradladewig

V Luxembourg % https://www.uni.lu g i orcid.org/0000-0002-2135-1913

EXPERIENCE

🋗 April 2022 – present	Selval Campus, Luxembourg
Visiting Professor	
Imperial College London	
🛗 Nov 2018 – present	Q London, UK
Scientist & Group Leader	
Institute for Micro Process Engi	neering /(IMVT), KIT
🛗 November 2018 – March 2022	Karlsruhe, Germany
Senior Lecturer in Chemica Imperial College London	l Engineering
🛗 May 2015 – Nov 2018	♥ London, UK
Associate Professor of Cher Monash University	nical Engineering
🛗 Jan 2009 - May 2015	♥ Melbourne, Australia
Recruited as Lecturer in 2009, pro Professor in 2012	moted to Senior Lecturer in 2011 and Associate
Postdoctoral Research Fello	w
Australian Institute of Bioengine	ering and Nanotechnology

🛗 Jun 2006 - Aug 2007

Nancy, France

♥ @BradLadewig



EDUCATION

Graduate Certificate in Higher Educa- tion	
Monash University	
1 2009 - 2010	
PhD in Chemical Engineering The University of Queensland 2002 - 2006	
Bachelor of Engineering (Chemical), with Honours I The University of Queensland 1998 - 2001	
SELECTED AWARDS	
• 2019 Alexander von Humboldt Research Fellow- ship for Experienced Researchers	

- 2018 President's Award for Excellence in Teaching, Imperial College London 2017 Student Academic Choice Award: Best Innovation
- 2013 VESKI Victoria Fellowship Victorian State Government
- 2013 Shortlisted for the 2013 Global IChemE Awards - Sustainable Technology Award
- 2013 Special Commendation Vice-Chancellor's Award for Teaching Excellence - Monash University
- 2013 Deans Award for Excellence in Teaching Monash University
- 2012 Finalist in the SACS Leadership Awards (State Government Non-Executive Category)
- 2008/09 Australian Academy of Science International Science Linkage Grant for Scientific Visits to Europe
- 2008 Australian Institute of Energy Energy Council of Australia Travel Scholarship
- 2004 Australian Academy of Technological Sciences and Engineering Young Science Ambassador Award
- 2003 British Chevening Scholarship, funded nine months as a visiting researcher at Imperial College, London

LANGUAGES

English German



TOP 10 PUBLICATIONS

[1] C. Chen, A. Ozcan, A. O. Yazaydin, and B. P. Ladewig, "Gas permeation through single-crystal ZIF-8 membranes," **J. Memb. Sci.**, vol. 575, pp. 209–216, 2019.

[2] N. Prasetya and B. P. Ladewig, "New Azo-DMOF-1 MOF as a Photoresponsive Low-Energy CO₂ Adsorbent and Its Exceptional CO₂/N₂ Separation Performance in Mixed Matrix Membranes," **ACS Appl. Mater. Interfaces**, vol. 10, no. 40, pp. 34291–34301, 2018.

[3] N. Prasetya, B. C. Donose, and B. P. Ladewig, "A new and highly robust light-responsive Azo-UiO-66 for highly selective and low energy post-combustion CO_2 capture and its application in a mixed matrix membrane for CO_2/N_2 separation," J. Mater. Chem. A, vol. 6, no. 34, pp. 16390–16402, 2018.

[4] N. Prasetya, A. A. Teck, and B. P. Ladewig, "Matrimid-JUC-62 and Matrimid-PCN-250 mixed matrix membranes displaying light-responsive gas separation and beneficial ageing characteristics for CO_2/N_2 separation," **Sci. Rep.**, vol. 8, no. 1, 2018.

[5] S. Jiang and B. P. Ladewig, "High Ion-Exchange Capacity Semihomogeneous Cation Exchange Membranes Prepared via a Novel Polymerization and Sulfonation Approach in Porous Polypropylene," **ACS Appl. Mater. Interfaces**, vol. 9, no. 44, 2017.

[6] B. Slater, Z. Wang, S. Jiang, M. R. Hill, and B. P. Ladewig, "Missing Linker Defects in a Homochiral Metal-Organic Framework: Tuning the Chiral Separation Capacity," J. Am. Chem. Soc., vol. 139, no. 50, pp. 18322–18327, 2017.

[7] N. Prasetya and B. P. Ladewig, "Dynamic photo-switching in light-responsive JUC-62 for CO_2 capture," **Sci. Rep.**, vol. 7, no. 1, 2017.

[8] R. Lyndon, K. Konstas, B. P. Ladewig, P. D. Southon, P. C. J. Kepert, and M. R. Hill, "Dynamic photo-switching in metal-organic frameworks as a route to low-energy carbon dioxide capture and release," **Angew. Chemie - Int. Ed.**, vol. 52, no. 13, pp. 3695–3698, 2013.

[9] R. Lyndon, K. Konstas, R. A. Evans, D. J. Keddie, M. R. Hill, and B. P. Ladewig, "Tunable Photodynamic Switching of DArE@PAF-1 for Carbon Capture," **Adv. Funct. Mater.**, vol. 25, no. 28, 2015.

[10] R. Lyndon, K. Konstas, A. W. Thornton, A. J. Seeber, B. P. Ladewig, and M. R. Hill, "Visible Light-Triggered Capture and Release of CO_2 from Stable Metal Organic Frameworks," **Chem. Mater.**, vol. 27, no. 23, 2015.

DOCTORAL SUPERVISION

PhD Students

19 PhD students supervised to completion, graduates now working in industry, academia, consulting and entrepreneurs

CITATION DETAILS

Citations

 90 publications, 3,807 citations, h-index=35

EDITORSHIP

Subject Editor (Separations) Chemical Engineering Research & Design, Elsevier

RESEARCH FUNDING

€ €7m over the period 2010-2021 Competitive research grants as a named investigator