Lee Alan Burton

	Personal Details	5		
Nationality: Email Address: Linkedin Profile: Office Telephone: Office Address:	British leeburton@shu.edu.cn http://uk.linkedin.com/in/lee-a-burton +44 7934 451982 E111, Baoshan Campus, Shanghai U	ORCiD:	@leeaburton www.bmd-lab.org 0000-0002-0647-5483	
	Professional Summ	nary		
Status: Affiliations: Research Topics: Accolades:	 Associate Professor (full time). Member of the Royal Society of Chemistry. Inorganic Chemistry, Condensed Matter Physics, Materials Engineering. Chinese National Science Foundation International Young Scientist Award 2019. Shanghai Municipal Government Eastern Young Scholar Award 2018. European Commission Seal of Excellence Award 2017. 			
Publications: Metrics: Funding Awards: Languages:	 Japanese Material Research Society Encouragement 2012. 27 peer-review research articles; 4 international patents covering 13 inventions. More than 2,200 citations; h-index: 19; 4 first-author papers with over 150 citations. Early career fellowship, 3 International Research Fellowships, PhD Scholarship. English (native), French (conversational), Mandarin (basic). 			
Qualifications				
Doctoral Qualification: Undergraduate Degree: Other Qualifications:	PhD in Sustainable Chemical Technologies, University of Bath, UK Master of Chemistry (Hons), University of Warwick, UK Master of Research (Merit), University of Bath, UK Diplôme d'Études en Langue Française, Université Catholique de Louvain, Belgium			
Key Skills Summary (Colours for Cross-Reference)				
 Project management, leadership, multi-disciplinary teamwork and international collaboration Programming proficiency in Python 2/3, Bash and LaTeX languages; computer and numerical literacy. Persuasive writing and critical thinking linked to successful project proposals and funding applications. Control of Substances Hazardous to Health (COSHH), risk assessment and lab management. Budget management, resource allocation and account keeping. Peer-review, public engagement, open-access data dissemination. Visualisation software, image rendering and data plotting. Teaching, lecturing, presenting, online recording and teleconferencing. 				
Employment History				
 Feb. 2019 to Present – Associate Professor, Shanghai University, China. Tenured faculty position in the Dept. of Physics and guest lecturer in the Dept. of International Development. Recipient of Shanghai Eastern Young Scholar early career fellowship, 2018. Recipient of the Chinese National Science Foundation International Young Scientist Award, 2019 (Co-)supervisor of 1 PhD student, 4 graduate students, 2 research interns currently. More than 100 lecturing hours to date with graduate and undergraduate students. Invited speaker at two international conferences and one international workshop. Tutorial leader at the 2019 Jiangsu mathematics & computing in materials design graduate summer school. Recipient of the Royal Society of Chemistry (UK) Research Fund, 2020. 2 former group members to date offered fully-funded international PhD scholarships internationally. 8 research articles published so far, including one listed as most popular for the respective journal in 2020. 3 research articles selected as cover features for J. Mat. Chem. C. and J. Phys. Chem. Lett. Open and well-maintained group GitHub page, including supplementary data and codes for published work. Established industrial partnership with Fish in a Bottle Limited, a digital production studio in the UK. 				

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Dec. 2016 to Feb. 2019 – Research Fellow, Université Catholique de Louvain, Belgium.

- Recipient of "Move-In Louvain" research fellowship funded by the EU Marie-Curie actions.
- Recipient of the European Commission Seal of Excellence award 2018.
- Lead researcher on (confidential) research project with Toyota Motor Corporation.
- Invited speaker & session chair at European Materials Research Society (E-MRS) Meetings 2017 & 2018.
- 2 international patents granted, contribution purchased by Panasonic Corporation.
- Tutorial leader on database querying & high-throughput screening at Materials Research Society (MRS) Spring Meeting, USA, 2018.

Nov. 2014 to Nov. 2016 – Research Fellow, Tokyo Institute of Technology, Japan.

- Royal Society nominee for fully funded Japanese Society for Promotion of Science (JSPS) fellowship.
- Equal shareholder on international patent for 11 novel semiconductors (number WO/2017/065294).
- Speaker at four international conferences and invited contribution to international workshop.
- 5 research articles published in high impact journals including Nature Comms. and Phys. Rev. Lett.
- Volunteer participant of JSPS Science Dialogue program: lecturing at senior high schools (ages 15-17).

Oct. 2010 to Oct. 2014 – Doctoral Student, University of Bath, UK.

- Multi-disciplinary PhD funded by Engineering and Physical Sciences Research Council scholarship.
- Laboratory custodian of Solar Instrument Room, Department of Chemistry.
 - Developed control and safety standards for contemporary lab space.
 - Implemented training and operating protocols for hazardous experimental procedures.
- Public engagement and ambassadorial roles for the Centre for Sustainable Chemical Technologies.
 - Elected Ambassador to the UK Energy Research Network for the Bath graduate school.
 - Theme leader of 'Planet Earth' section, Bath chapter, for international science festival 'Pint of Science'.
 - Invited speaker for the British Science Association's 'Science Café' public presentation.
 - University of Bath STEM (Science, Technology, Engineering and Mathematics) ambassador.
- Taught-lab demonstrator and part-time teaching assistant.
- Over 2,000 GBP in external grant money and bursary awards.

Nov. 2013 to Apr. 2014 – Conference Committee Member, Royal Society of Chemistry, UK.

- Organising committee member for the RSC, Solid State Group Easter Meeting, Buckinghamshire, UK.
- Responsibilities included: budget allocations, costing, talk selection and program design.

Jul. 2013 to Dec. 2013 – Visiting Scholar, Harvard University, USA.

- Personally established a collaboration between the University of Bath (UK), Harvard University (USA) and the Massachusetts Institute of Technology (USA).
- 2 secondments to Harvard University, regular teleconferencing and confidential data handling.

Oct. 2010 to Sep. 2011 – Master of Research, University of Bath, UK.

- Degree with taught courses and 2 research projects:
 - Computer modelling of battery cathodes with Prof. Saiful Islam in the Dept. of Chemistry.
 - Gas adsorption analysis of hydrogen storage materials with Prof. Tim Mays in the Dept of Chem. Eng.

Apr. 2009 to Sep. 2009 – Research Intern, University of Tasmania, Australia.

• Designed and built a 2-D gas chromatography suite to analyse oil spills for the Australian Antarctic Division.

Suggested Referees				
Professor Aron Walsh,	Professor Fumiyasu Oba	Professor Jeffrey Reimers		
(PhD Supervisor)	(Post-Doctoral Supervisor)	(Current Institute Director)		
Royal School of Mines,	Laboratory for Materials & Structures,	School of Mathematical and		
Imperial College London,	Tokyo Institute of Technology,	Physical Sciences, University of		
London, SW7 2BP,	Yokohama 226-8503,	Technology Sydney, Sydney,		
United Kingdom.	Japan.	Australia.		
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