

BEIHANG UNIVERSITY

19 January 2017

37 Xueyuan Road, Haidian District, Beijing 100191, China
<http://www.buaa.edu.cn/>



QUICK FACTS

Main Campus

located in Zhongguancun Science Park,
Haidian District

At the heart of higher learning and
technology development

30-min drive from Tian'anmen Square

Shahe Campus

Changping District, 100 hectares

27km away from main campus

Doudian Campus

Fangshan District, 53 hectares





QUICK FACTS



History

one of China's very first key universities
established in **1952** through merger of the
aeronautics departments of 8 top Chinese
universities

Tsinghua University, Tianjin University
Xiamen University, Sichuan University

.....

Today

a leading research university in China
listed in all national initiatives for building
first-class universities

National 211 Project

to develop key disciplinary areas (112 universities)

National 985 Project

to build world-class universities (39 universities)

National 2011 Project

to promote "collaborative innovation"





QUICK FACTS

◆ 189 Academic Programs

- *Undergraduate Programs: 61*
- *Master's Programs: 76*
- *Doctoral Programs: 52*

◆ Enrollment: 29,951

- *Undergraduate Students: 15,466*
- *Master Students: 9,113*
- *Ph.D Students: 4,305*
- *International Students: 2,000*

◆ 2,033 Faculty Members

- *Full Professors: 578*
- *Associate Professors: 815*

◆ Over 200,000 Alumni

◆ 29 Schools





QUICK FACTS

◆ 29 Schools

- Aeronautical science & engineering
- Astronautics
- Automation science & electrical engineering
- Computer science & engineering
- Electronics & information engineering
- Energy & power engineering
- Instrument science & optoelectronics
- Materials science & engineering
- Mechanical engineering & automation
- Reliability & systems engineering
- Software engineering
- Space & environment
- Transportation science & engineering

- Chemistry
- Biological science & medical engineering
- Mathematics & systems science
- Physics & nuclear energy engineering

- Economics & management
- Foreign languages
- Humanities & social sciences
- Law
- New media art & design
- Political science

- Advanced engineering
- Advanced studies in humanities & social sciences
- Flying college (pilot training)
- International School
- **International School of General Engineering**
- Sino-French Engineer School



QUICK FACTS

Ranking: 1st nationwide by per capita research funding

No.	University	Per Capita Research Funding (US\$)
1	Beihang University	179,012
2	Northwestern Polytechnical University	140,607
3	Tianjin University	126,585
4	Beijing Institute of Technology	125,380
5	Harbin Engineering University	120,840
6	University of Science and Technology of China	119,753
7	Harbin Institute of Technology	119,515
8	Tsinghua University	118,976
9	China University of Petroleum-Beijing	117,190
10	Beijing University of Chemical Technology	97,678

Evaluation by Chinese Ministry of Education, 2015



QUICK FACTS

Ranking: 5th nationwide by development of disciplines

No.	University	Number of Disciplines in Four Categories			
		<i>Competitive</i>	<i>Traditional</i>	<i>Potential</i>	<i>Weak</i>
1	Zhejiang University	36	40	60	34
2	Shanghai Jiao Tong University	26	46	51	44
3	Tsinghua University	26	38	68	32
4	Peking University	18	34	58	61
5	Beihang University	15	13	61	24
6	University of Science and Technology of China	14	9	87	33
7	Huazhong University of Science and Technology	13	19	80	54
8	National University of Defense Technology	12	0	60	17
9	Nanjing University	10	15	72	70
10	Southeast University	9	7	81	51

Evaluation by Chinese Ministry of Science and Technology, 2016



OUR RESEARCH

◆ Research labs and centers

National Lab

9

national key
labs

5

national
engineering
research centers

- National Laboratory for Aeronautics and Astronautics
-

- Aero-thermodynamics of aero-engines
 - Computational fluid dynamics
 - Flight vehicle control incorporation technology
 - High-performance carbon fibers
 - Inertial technology
 - Laser additive manufacturing
 - Reliability and environmental engineering technology
 - Software development environment
 - Virtual reality technology and systems
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- Additive manufacturing for large metallic components
 - Advanced CNC machining technology
 - Digital television
 - Satellite navigation applications
 - Science and technology resources sharing service
-

+58 ministry-level key labs



OUR RESEARCH

◆ Strong presence in China's aerospace industry

direct involvement of generations of Beihang alumni and faculty as trailblazers (chief commanders/designers, engineers....)



J-10 fighter aircraft



October 17, 2016

Launch of "Shenzhou-11" with two astronauts on board



November 3, 2016

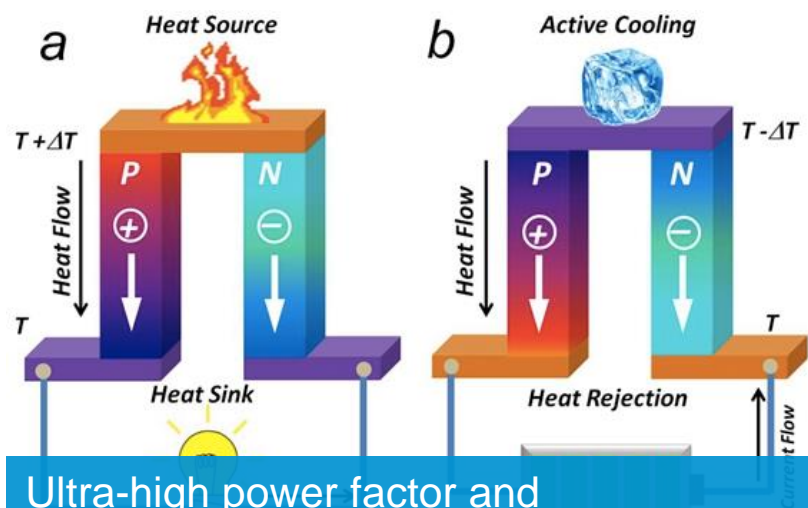
Launch of China's most powerful carrier rocket "Changzheng-5"



OUR RESEARCH

◆ Fast-growing publications in fundamental research

from new establishments such as International Research Institute for Multidisciplinary Science, Innovation Institute for Medicine+Engineering



Ultra-high power factor and thermoelectric performance in hole doped single crystal SnSe

ZHAO Lidong, et.al.
Science, November 26, 2015



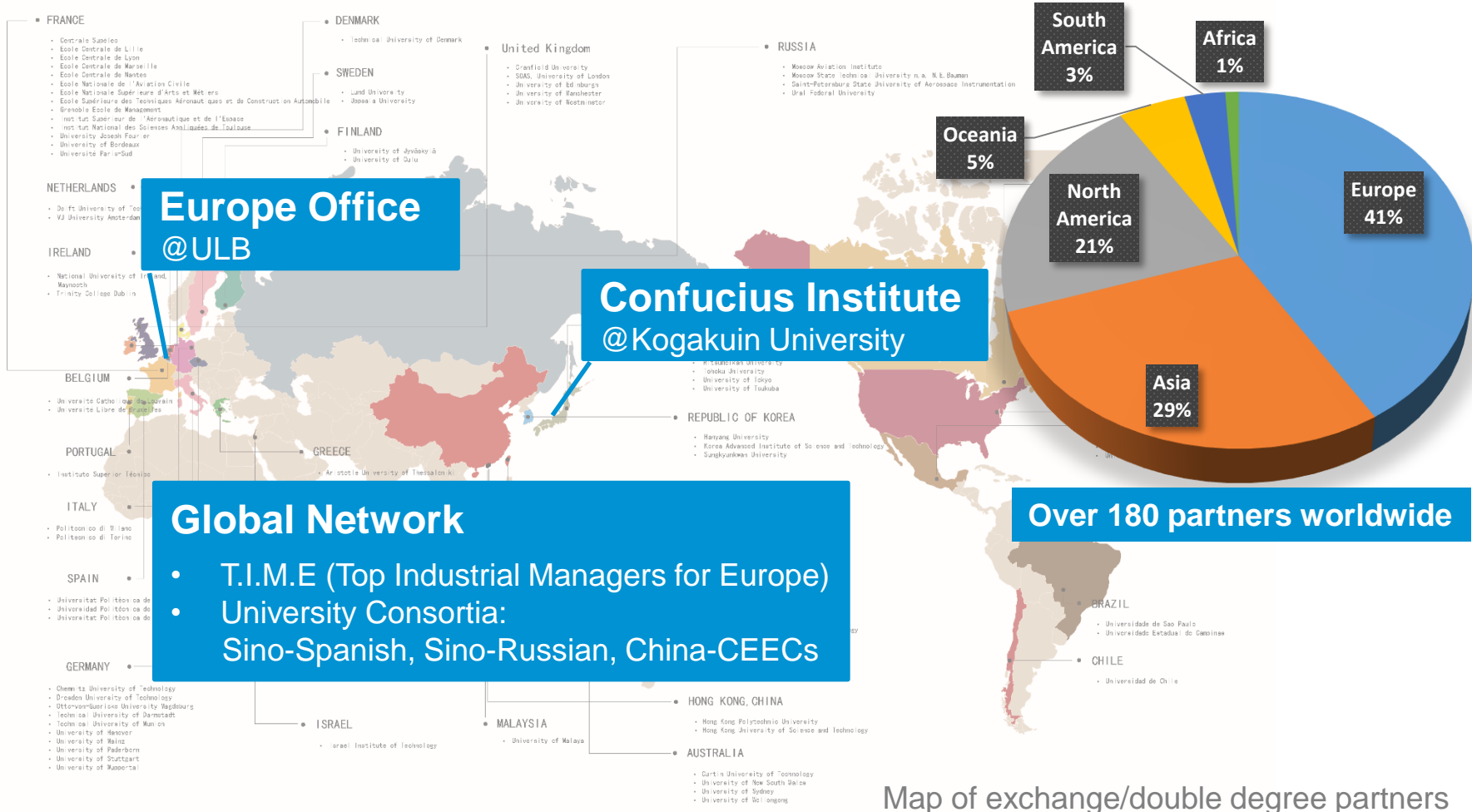
Continuous directional water transport on the peristome surface of *Nepenthes alata*

JIANG Lei, et.al.
Nature, April 7, 2016



GLOBAL ENGAGEMENT

◆ Partnership





GLOBAL ENGAGEMENT

◆ Beihang Global Campus



– Goals

- Promote distributed globalized learning regardless of time or geographical boundaries
- Educate global citizens with a broader worldview, intercultural awareness and new insights into academic disciplines and cultures

– Initiatives

Joint education programs

2 Joint Schools

Sino-French Engineer School
Confucius Institute at Kogakuin University (Tokyo)

130+ exchange/double degree programs: 300+ students/year

Ph.D mobility programs: 120 students/year supported by CSC

Beihang International Summer University

15 programs held annually at Beihang

49 programs held annually overseas

THANK YOU