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Zhejiang, West Lake



Nanjing, Yangtze River



Qingdao, pleasure port



Lijiang, Yunnan

40 years of rapid growth....

	1980	2000	2020	2023
Population (million)	981	1263	1402	1410
Urbanization (%)	19	36	61	66
GDP (billion US\$)	191	1215	14.700	17.700
R&D expenditure (% of GDP)	0,7	1	2,4	2,64
R&D personnel (full time equivalents)	670.000	920.000	5.240.000	7.240.000
students in STEM programs		5.094.000 (62%)	8.620.000 (41%)	

Scientific publications nature index

3/2024 – 2/2025

„all“

„biological sciences“

Position	Institution	Count	Share	Position	Institution	Count	Share
1	Chinese Academy of Sciences (CAS)	4532	1395.42	1	Harvard University	1664	534.26
2	University of Science and Technology of China (USTC)	1252	506.37	2	Chinese Academy of Sciences (CAS)	1447	366.00
3	Zhejiang University (ZJU)	898	397.30	3	National Institutes of Health (NIH)	752	287.81
4	University of Chinese Academy of Sciences (UCAS)	1674	385.41	4	Max Planck Society	1005	275.81
5	Tsinghua University	1035	371.04	5	Stanford University	735	215.86
6	Sichuan University (SCU)	584	365.62	6	Zhejiang University (ZJU)	510	203.52
7	Shanghai Jiao Tong University (SJTU)	811	362.01	7	University of Pennsylvania (Penn)	588	188.83
8	Nanjing University (NJU)	726	361.53	8	Peking University (PKU)	676	176.33
9	Peking University (PKU)	1251	354.79	9	Yale University	481	176.31
10	Fudan University	699	332.11	10	Massachusetts Institute of Technology (MIT)	890	174.27
11	Jilin University (JLU)	524	310.33	11	Washington University in St. Louis (WUSTL)	473	162.51
12	Nankai University (NKU)	668	297.17	12	Fudan University	441	160.87
13	Max Planck Society	752	247.64	13	French National Centre for Scientific Research (CNRS)	1280	158.37

**Indexed in PubMed 2024:
1,692,771 publications**

□ Rest of World

■ China

■ Japan

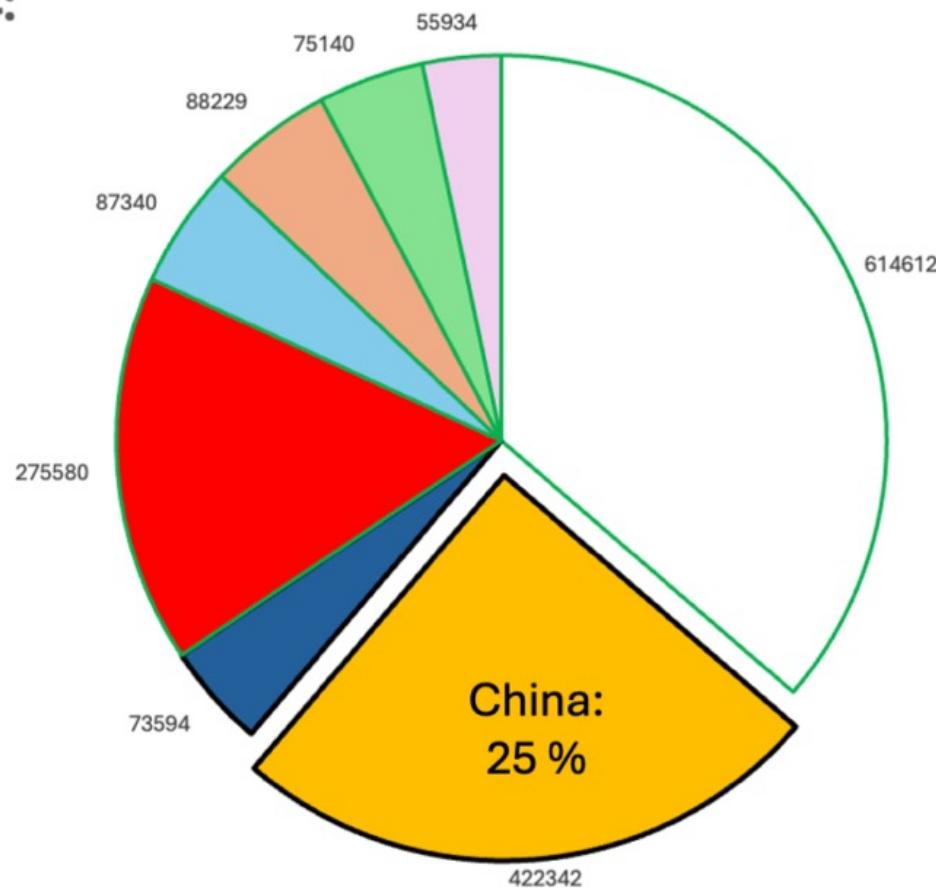
■ USA

■ Germany

■ UK

■ Italy

■ France



The lives of farmers are changing...

Satellite-controlled tea-picking robot in Zhejiang



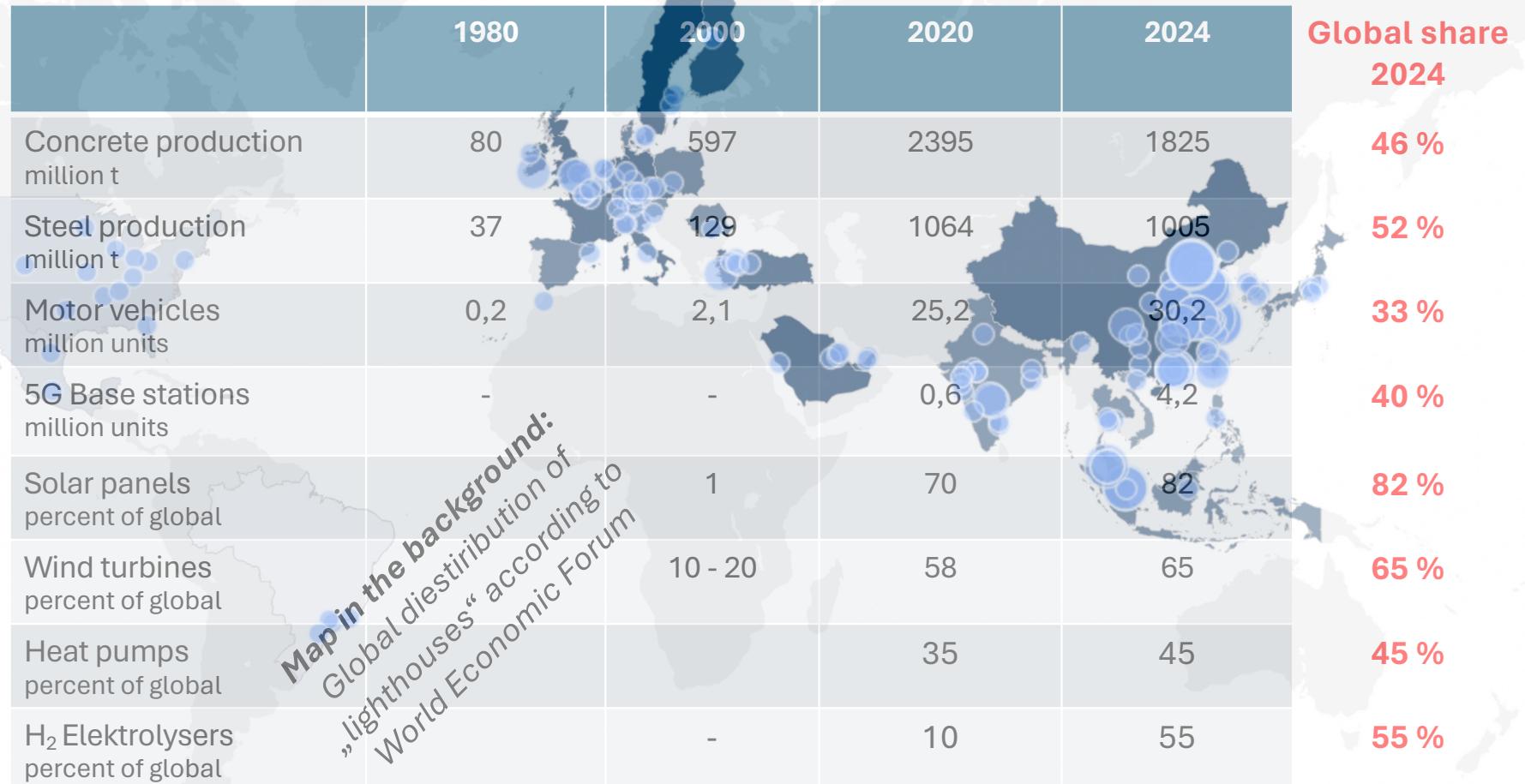
Using binocular stereo vision, the tea-picking robot can position where the target bud and leaf are, cut them off precisely, then suck the leaves into its basket via its negative-pressure pipette.[Photo/CRI Online]



Workers harvest hydroponic lettuce in a plant factory in Nantong, east China's Jiangsu province. (People's Daily Online/Xu Congjun)

Hydroponic “lettuce factory” in Jiangsu

China's share of world industrial production



Sources: IEA, World Economic Forum and other

...the lives of the workers too

in 2015 “Workbench of the World”

In 2023:
52 “Future factories”
in Zhejiang Province
alone



China dominates many industries, including chemicals

World chemical sales, 2002 (€1352 billion)

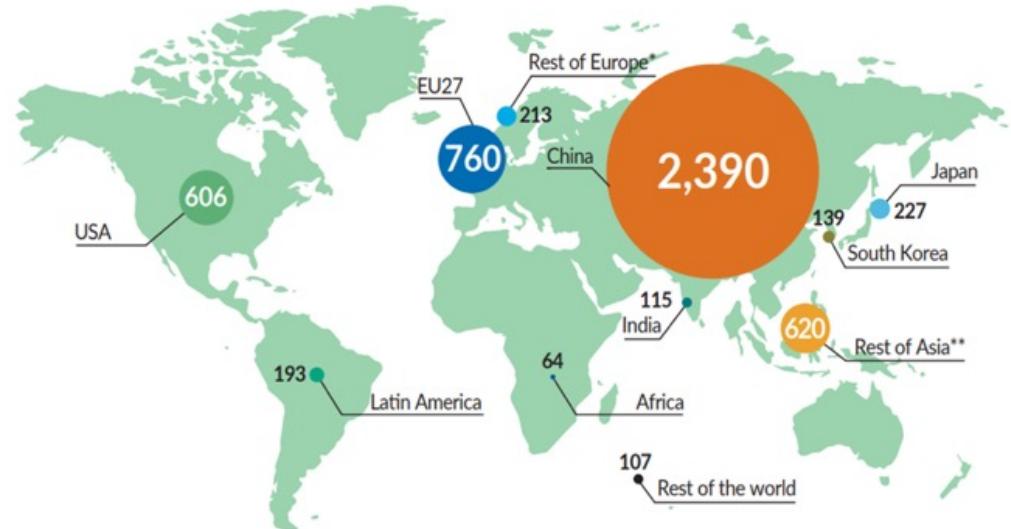


Source: Cefic Chemdata International

* Rest of Europe covers UK, Switzerland, Norway, Turkey, Russia and Ukraine

** Asia excluding China, India, Japan and South Korea

World chemical sales, 2022 (€5,434 billion)



Source: Cefic Chemdata International

* Rest of Europe covers UK, Switzerland, Norway, Turkey, Russia and Ukraine

** Asia excluding China, India, Japan and South Korea

Digitalisation everywhere...



Students have a science class wearing virtual reality headsets in a primary school in Qinhuangdao, north China's Hebei province. (Photo by Cao Jianxiong/People's Daily Online)

School children in Qinhuangdao use AR
(over 90 % of all schools completely digitalized)

Bio 4 Business



Drones surveying a high-voltage system in Guilin



A „digital twin“ of a river in Gansu for flood control

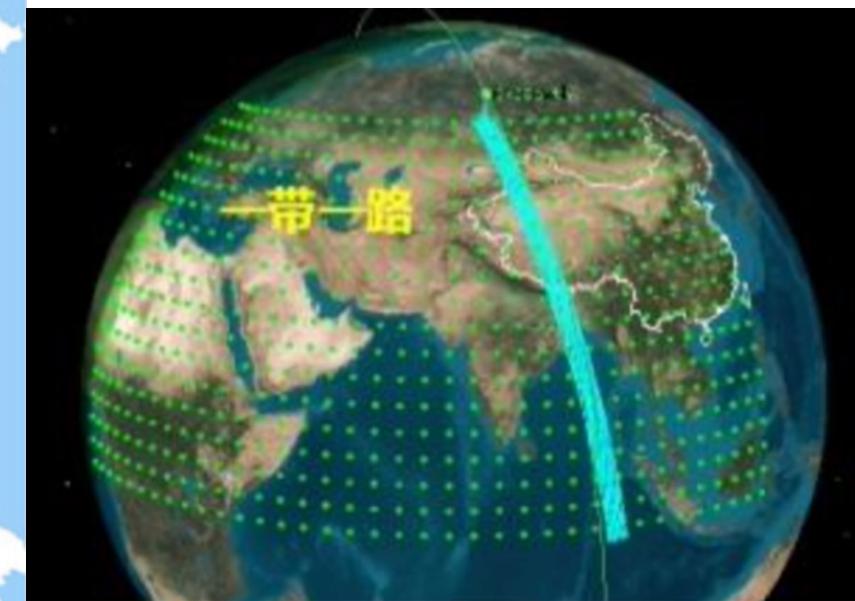
The „belt and road“ vision



SDG-SAT1 satellite



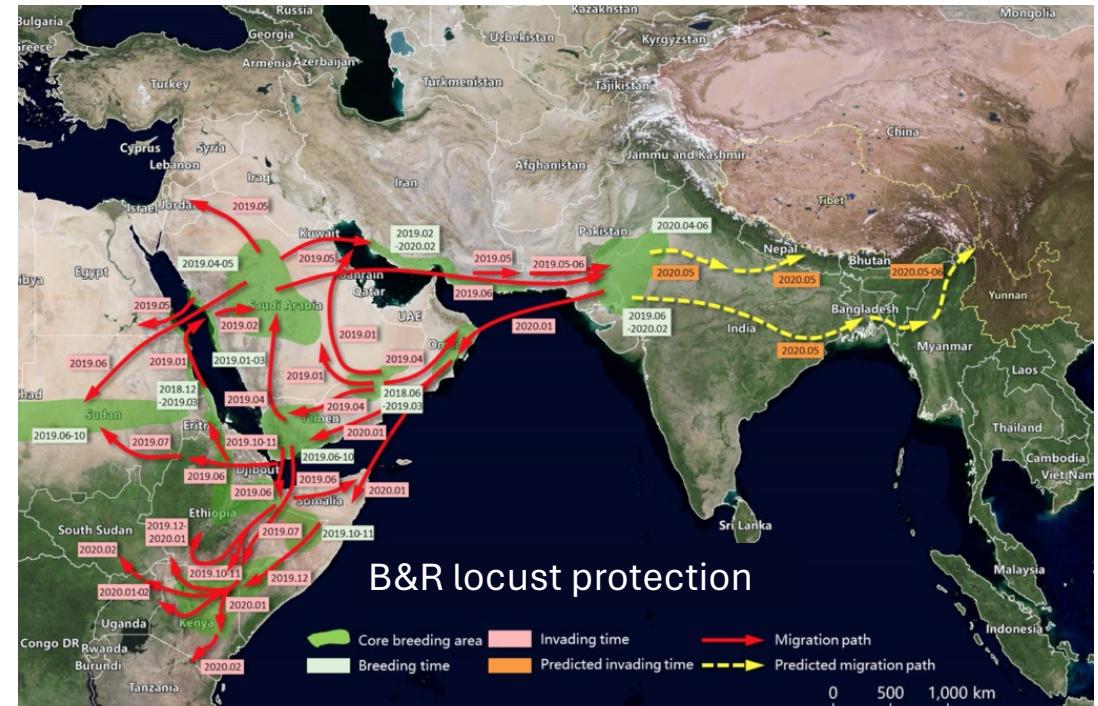
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FOR SUSTAINABLE DEVELOPMENT GOALS
可持续发展大数据国际研究中心





Home Monitoring Models Verification Severe Weather Documents Training News

B&R weather forecast



January 2013: „The Great Beijing Smog“

PM_{2.5} > 500 µg/l



Photo taken on Jan. 13, 2013 shows the fog-shrouded buildings at the Central Business District in Beijing, capital of China. Dense fog on Sunday hit China's east and central regions from the northeast to the south, causing serious air pollution. [Xinhua]

Changchun

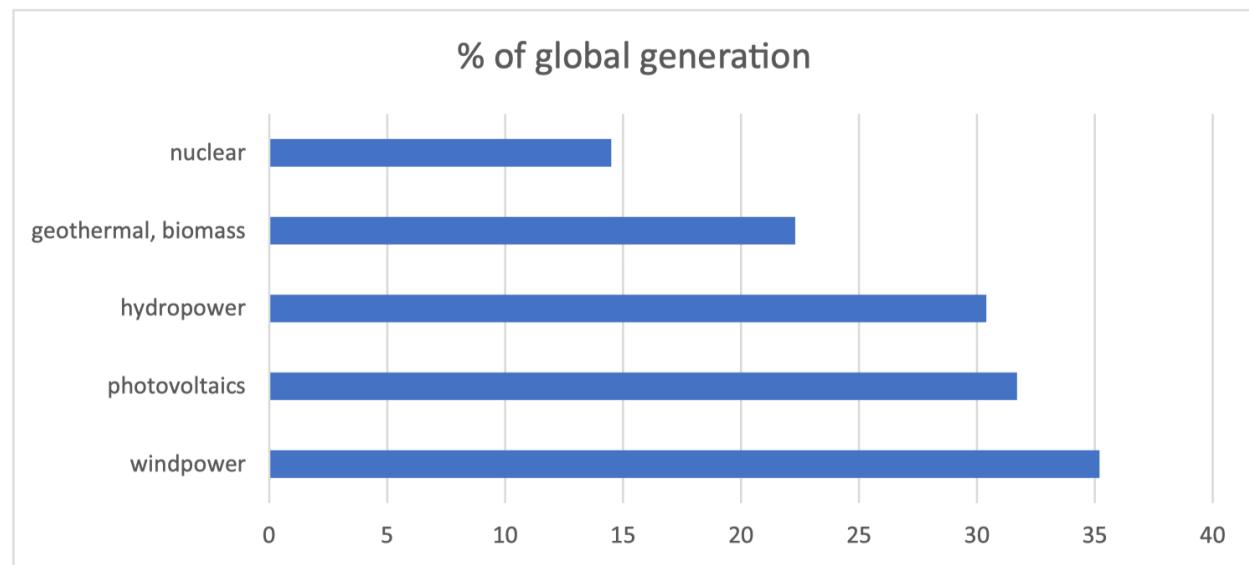


Dalian



Nanjing





2023: a major driver for defossilized energy

The slide features two images. The top image shows a massive solar power plant with numerous panels arranged in concentric circles, with a tall cooling tower emitting steam against a clear blue sky and distant mountains. The bottom image is an aerial view of a large solar farm, with a grid of panels stretching across the landscape. A small inset map highlights a specific area labeled "YONGSHENG VILLAGE 永胜村".



Firmly based on „Socialism with Chinese characteristics“

~100 million Chinese are members of the CPC



Socialist values

核心
HEXIN

Nation

prosperity
democracy
civilization
harmony

Society

freedom
equality
Justice
rule of law

Citizen

patriotic
engaged
integer
friendly



- technology scouting
- company profiling
- policy evaluation



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broken soups" after upgrading chicken farming through AI
China holds more than 4 million valid invention patents
Light-driven ammonia synthesis using lithium hydride
Howdy, schmid_wordpress

WINDOW TO JAPAN
日本への窓
SCIENCE, TECHNOLOGY AND SCIENCE POLICY

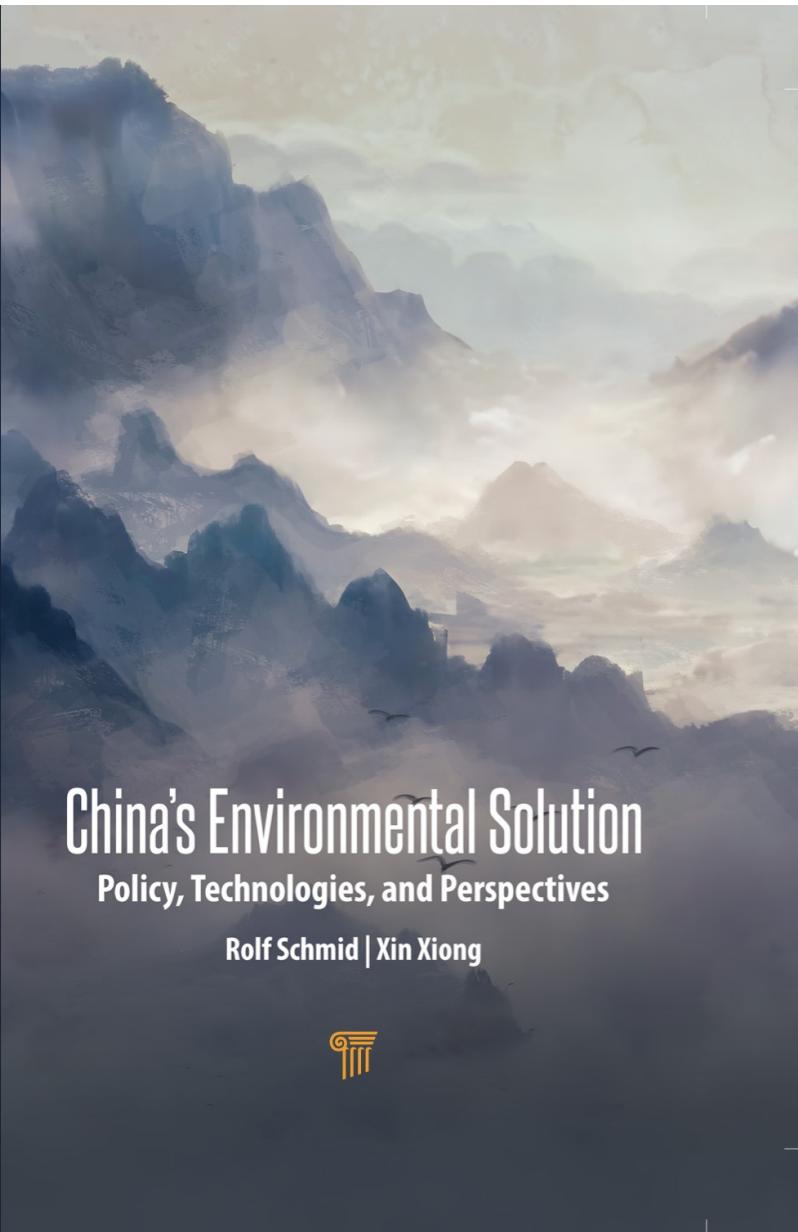
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palpitation will help telemedicine
Sumitomo starts clinical trial on iPS cell-derived dopamine neural progenitor cells in the USA
Sysmex acquires Megakaryon and aims for fast

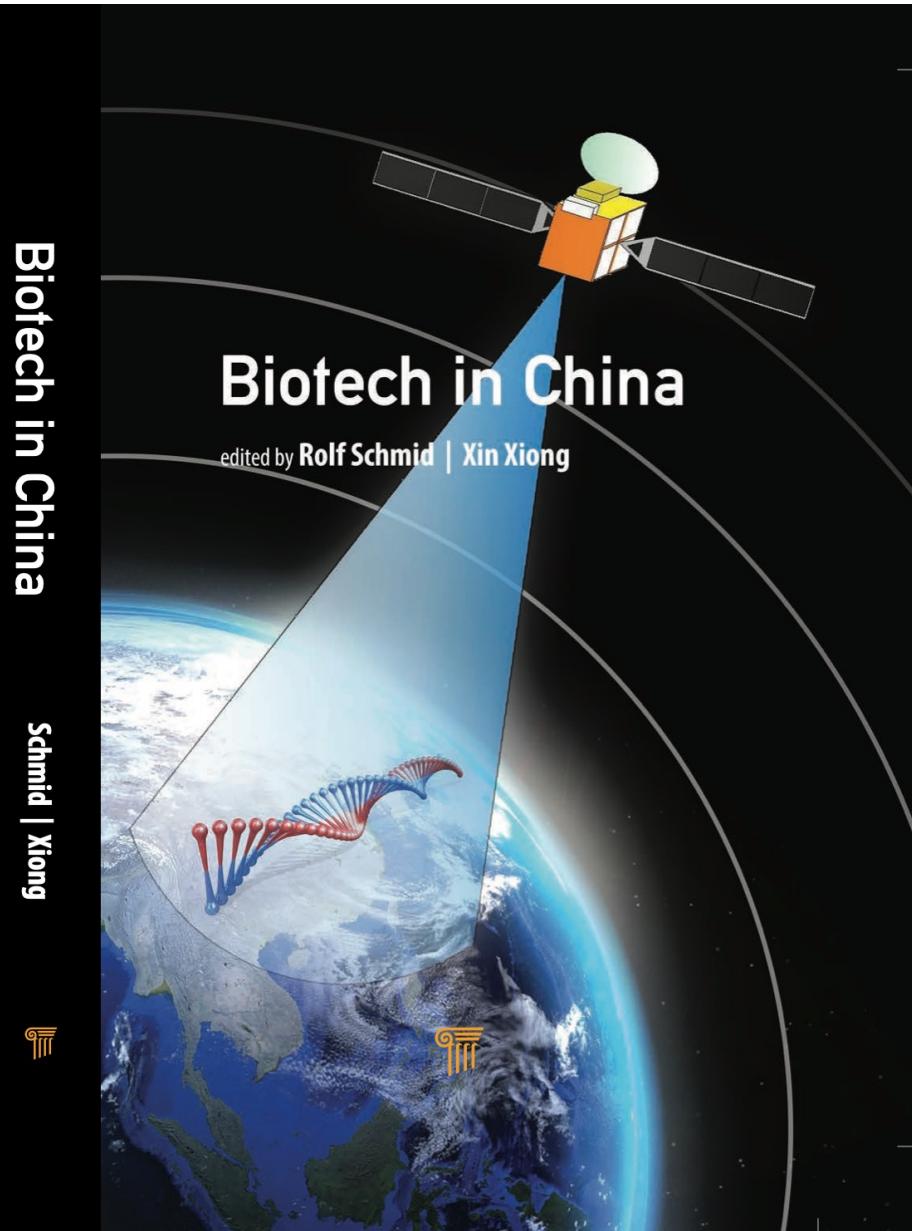


China's Environmental Solution

Schmid | Xiong



Bio 4 Business



Biotech in China

Schmid | Xiong

