

Table S1. Data Sources for Chinese Industrial Heritage GIS Database.(as of 2021)

Data sources	Specific items	Total number
list of Chinese cultural relic protection units	<p>List of National Key Cultural Relics Protection Units (8 batches, 134 items); List of cultural relics protected at provincial level by provinces (municipalities, autonomous regions and special administrative regions)(168 items); List of important prefecture-level municipal heritage units: Nanjing, Hangzhou, Wuhan, Chengdu, Guangzhou, Jinan, Qingdao, Xi'an, Harbin, Shenyang, Dalian, Changsha and 13 others(74 items); List of important cities with outstanding historic buildings: Shanghai, Tianjin, Guangzhou, Beijing, Hangzhou, Dalian, Qingdao, Wuhan, Changsha and 9 others(86 items)</p>	1681 items
lists of local industrial heritage	<p>Two batches of industrial heritage protection lists in Wuxi (2008, 34 items); a census of industrial heritage in Tianjin (2012, 108 items); a list of industrial heritage in Liaoning Province (2011, 161 items); a list of industrial heritage protection in Hangzhou (2012, 69 items); a list of industrial heritage in Wuhan (2013, 27 items); a list of industrial heritage protection in Jinan (2016, 58 items); a list of industrial heritage protection in Nanjing (2017, 68 items); a list of modern industrial heritage in Chengdu (2017, 27 items), etc.</p>	
industrial heritage lists of other Chinese governments and authoritative academic institutions	<p>China National Mine Parks List (former Ministry of Land and Resources, 4 batches, 88 items in total); National Industrial Heritage List (Ministry of Industry and Information Technology, 4 batches, 166 items in total) China National Industrial Heritage Tourism Bases (2017, National Tourism Administration, 10 sites); China Industrial Heritage Protection List (China Association for Science and Technology and Urban Planning Society of China, 2 batches, 200 sites) <i>Atlas of Lanzhou's Industrial Heritage</i> (2008); <i>Rust Traces: In Search of China's Industrial Heritage</i> (2008); <i>Modern Architecture and Industrial Heritage in Fangzi, Shandong</i> (2008); <i>Treasures of Wuxi's Modern Industrial and Commercial Heritage</i> (2009); <i>Shanghai's Industrial Heritage</i> (2009); <i>A New Exploration of Shanghai's Industrial Heritage</i> (2009); <i>A First Look at Industrial Heritage Conservation: From the World to Tianjin</i> (2010); <i>Research on the Conservation and Reuse of Xi'an's Industrial Architectural Heritage</i> (2011); <i>Nanjing Industrial Heritage</i> (2012); <i>Study on the Conservation and Tourism Utilization of Industrial Heritage in Northeast China</i> (2012); <i>Hunan Traffic Cultural Heritage</i> (2012); <i>Reading the Industrial Heritage of Wuhan</i> (2013); <i>Research on the Industrial Heritage of Hanyeping in the Perspective of Cultural Routes</i> (2013); <i>Searching for China's State-protected Industrial Heritage</i>" (2013); <i>The Conservation and Utilisation of Chongqing's Industrial Heritage and Urban Revitalisation</i> (2014); <i>Study on the Conservation and Reuse of Industrial Heritage in Shanghai</i> (2014); <i>Old Factories in Hexi, Tianjin - The Industrial Heritage of Hexi, Tianjin</i> (2014); <i>Research on the Heritage of Industrial Civilisation in the Central Plains</i> (2016);</p>	
academic works and related academic papers	<p><i>Atlas of Lanzhou's Industrial Heritage</i> (2008); <i>Rust Traces: In Search of China's Industrial Heritage</i> (2008); <i>Modern Architecture and Industrial Heritage in Fangzi, Shandong</i> (2008); <i>Treasures of Wuxi's Modern Industrial and Commercial Heritage</i> (2009); <i>Shanghai's Industrial Heritage</i> (2009); <i>A New Exploration of Shanghai's Industrial Heritage</i> (2009); <i>A First Look at Industrial Heritage Conservation: From the World to Tianjin</i> (2010); <i>Research on the Conservation and Reuse of Xi'an's Industrial Architectural Heritage</i> (2011); <i>Nanjing Industrial Heritage</i> (2012); <i>Study on the Conservation and Tourism Utilization of Industrial Heritage in Northeast China</i> (2012); <i>Hunan Traffic Cultural Heritage</i> (2012); <i>Reading the Industrial Heritage of Wuhan</i> (2013); <i>Research on the Industrial Heritage of Hanyeping in the Perspective of Cultural Routes</i> (2013); <i>Searching for China's State-protected Industrial Heritage</i>" (2013); <i>The Conservation and Utilisation of Chongqing's Industrial Heritage and Urban Revitalisation</i> (2014); <i>Study on the Conservation and Reuse of Industrial Heritage in Shanghai</i> (2014); <i>Old Factories in Hexi, Tianjin - The Industrial Heritage of Hexi, Tianjin</i> (2014); <i>Research on the Heritage of Industrial Civilisation in the Central Plains</i> (2016);</p>	

Important New Findings from the Third National Cultural Relics Census in Hebei Province: Important Historical Sites and Representative Buildings of Modern Times (2016) and 19 other publications;
 2902 academic journal papers and 771 master's degree theses in CNKI database
 field investigation in Tianjin, Fuzhou, Quanzhou, Xiamen, Beijing, Tianjin, Qingdao, Chongqing, Guangzhou, Xi'an, Shanghai, Nanjing, Chongqing, Wuhan, Harbin, Shijiazhuang, Tangshan, Qinhuangdao

Table S2. List of CRIH Key Sites.

Level	Specific items		
	Industrial heritage	Province	Region/City
Class 1 (21 items in total)	Degree Branch Printing Bureau	Beijing	Beijing
	Kailuan Coal Mine	Hebei	Tangshan
	Qinhuangdao Port	Hebei	Qinhuangdao
	China's first tractor factory	Henan	Luoyang
	Daqing Oilfield (including the first well of Iron Man)	Heilongjiang	Daqing
	Zhangyu Brewing Company	Shandong	Yantai
	Tsingtao Brewery	Shandong	Qingdao
	the former site of Zhongxing Coal Mining Company	Shandong	Zaozhuang
	Anshan Steelworks	Liaoning	Anshan
	Jinling Machine Manufacturing Bureau	Jiangsu	Nanjing
	the former site of Maoxin Flour Mill	Jiangsu	Wuxi
	the former site of Dasheng Yarn Factory	Jiangsu	Nantong
	Wanshan mercury mine site	Guizhou	Tongren
	Yanchang Petroleum	Shaanxi	Yan'an
	First Arsenal	Chongqing	Chongqing
	Shilongba Hydropower Station	Yunnan	Kunming
	Dongwo Hydropower Station	Lanzhou	Luzhou
	Huaxin Cement Plant	Hubei	Huangshi
	Xihuashan Tungsten Mine	Jiangxi	Ganzhou
	Hanyeping Company	Hubei	Wuhan, Huangshi, Pingxiang
Yumen Oilfield No.1 OilWell	Gansu	Yumen	
Class 2 (79 items in total)	Fuziling Reservoir with Arch Dam	Anhui	Lu'an
	Huaihe River big iron bridge	Anhui	Bengbu
	491 radio station	Beijing	Beijing
	atomic energy "Yi Dui Yi Qi" (The China's first heavy	Beijing	Beijing

water reactor and cyclotron)		
Jingzhang Railway Nankou section to Badaling section	Beijing	Beijing
Fuzhou Mawei Shipyard	Fujian	Fuzhou
China National Nuclear Plant 404	Gansu	Lanzhou
Liujiaxia Hydropower Station	Gansu	Linxia
Shunde Sugar Factory	Guangdong	Foshan
Ancient Nanfeng Kiln	Guangdong	Foshan
Shinan Bridge	Guangdong	Dongguan
Maotai Brewery Industrial Heritage Group	Guizhou	Zunyi
Tianmen River Hydropower Station	Guizhou	Zunyi
Lingao Cape Lighthouse	Hainan	Lingao
Shiluo Iron Mine		Changjiang
Tangshan Locomotive and Rolling Stock Plant	Hebei	Tangshan
Qixin Cement Plant	Hebei	Tangshan
Jingxing Mining Bureau	Hebei	Shijiazhuang
former site of Yaohua Glass Factory	Hebei	Qinhuangdao
Kailuan Mining Bureau Qinhuangdao Power Plant	Hebei	Qinhuangdao
Jiaozuo Yingfu Coal Mine	Shandong	Jiaozuo
Middle East Railway Complex	Heilongjiang, Jilin, Liaoning, Inner Mongolia	
Harbin Cigarette Factory	Heilongjiang	Harbin
Wuhan Yangtze River Bridge	Hubei	Wuhan
Dazhimen Railway Station	Hubei	Wuhan
Xiangtan Manganese Mine	Hunan	Xiangtan
the former site of the 711 Meritorious Uranium Mine	Hunan	Chenzhou
the Zhuzhou General Engine Factory of the Yuehan Railway	Hunan	Zhuzhou
the Antimony Mine in the Xi Mountain	Hunan	Loudi
Tonghua Winery underground wine storage cellar	Jilin	Tonghua
Changchun First Automobile Manufacturing Plant	Jilin	Changchun
Changchun Film Studio	Jilin	Changchun
Yongli Softsteel Factory	Jiangsu	Nanjing
Pukou Railway Station	Jiangsu	Nanjing

Yanghe Old Cellar Group	Jiangsu	Suqian
Guantian Central Military Commission Arsenal	Jiangxi	Ganzhou
Lushun Dockyard	Liaoning	Dalian
Shenyang Foundry	Liaoning	Shenyang
Fuxin Haizhou Open Pit Mine	Liaoning	Fuxin
the former site of Benxi Lake Coal and Iron Company	Liaoning	Benxi
Dalian Shipyard	Liaoning	Dalian
National Cotton No.5 Factory	Shandong	Qingdao
Lokou Yellow River Railway Bridge	Shandong	Jinan
Fangzi Railway Station Complex	Shandong	Weifang
Jinan Station Modern Complex	Shandong	Jinan
Jinan Machine Works of Jinpu Railway	Shandong	Jinan
Datong Coal Mine	Shanxi	Datong
Taiyuan Machine Bureau	Shanxi	Taiyuan
the former site of Huangyadong Arsenal	Shanxi	Changzhi
Shenxin Yarn Factory	Shaanxi	Baoji
Wangshiwa Coal Mine	Shaanxi	Tongchuan
Yangshupu Water Works	Shanghai	Shanghai
Bund Signal Station	Shanghai	Shanghai
the former site of the Central Mint	Shanghai	Shanghai
1933 Old Field	Shanghai	Shanghai
Great Northern Telegraph Company	Shanghai	Shanghai
Luzhou Old Cellar Group and Brewing Workshop	Sichuan	Luzhou
Xianshi Soy Sauce Brewing Workshop	Sichuan	Luzhou
Zigong Well Salt	Sichuan	Zigong
Jiayang Coal Mine	Sichuan	Leshan
Panzhuhua Iron and Steel Plant	Sichuan	Panzhuhua
the former site of the Third-Front Nuclear Weapons Development Base	Sichuan	Mianyang
the former site of the first controlled fusion experimental device	Sichuan	Leshan
Yonglichuan Factory	Sichuan	Leshan
Dagu Dockyard of the Beiyang Marine Division	Tianjin	Tianjin
Tianjin West Station	Tianjin	Tianjin
Tanggu South Station	Tianjin	Tianjin

Xinkaihe Railway Station	Tianjin	Tianjin
Cocotohai 111 mine	Xinjiang	Altay
Karamay No. 1 well	Xinjiang	Karamay
Fengqing Tea Factory	Yunnan	Lincang
Lufeng Lianxiangguan Bridge and Tunnel Group	Yunnan	Chuxiong
Wujiashai Railway Bridge	Yunnan	Honghe
Biseizhai Station	Yunnan	Honghe
Jijie Railway Station	Yunnan	Honghe
Huabushan Lighthouse	Zhejiang	Zhoushan
the former site of Tongyigong Yarn Factory	Zhejiang	Hangzhou
Qiantang River Bridge	Zhejiang	Hangzhou
nuclear industry 816 project	Chongqing	Chongqing
