

Table 1

Statistics on the earliest time and the number of results for RL-based EMSs for all universities and institutions.

Year	Universities and institutions	Year	Universities and institutions
2012	National Chiayi University	2	2021 Fuzhou University 3
2013	National Taiwan University	1	Hanyang University 2
2014	University of Michigan	2	Nanjing University of Aeronautics and Astronautics 3
	University of Southern California	2	National Taiwan Normal University 1
2015	Zhejiang University	2	Ningbo Tech University 1
2016	Beijing Institute of Technology	54	RWTH Aachen University 4
	University of California	3	Southwest Jiaotong University 1
2017	Chinese Academy of Sciences	8	Tsinghua University 4
2018	Carleton University	1	University of Beijing Jiaotong 1
	Jilin University	10	University of Technology and Applied Sciences–IBRA 1
	Kunming University of Science and Technology	3	Yanshan University 3
	Northeastern University, USA	2	2022 Beihang University 2
	Sadjad University of Technology	1	Chang'an University 1
	Shanghai Jiao Tong University	4	General Motors Company 1
	Universit��de Carthage	1	Guangxi University 1
	University of Waterloo	3	Northeastern University, CHINA 1
2019	Beijing University of Technology	7	Northwestern Polytechnical University 1
	Chongqing Jiao Tong University	1	Politecnico di Torino 2
	Chongqing University	17	Shandong JiaoTong University 1
	Ghent University	1	Shandong University 5
	Liaocheng University	3	Sichuan University 1
	McMaster University	5	South China University of Technology 1
	Norwegian University of Science and Technology	1	Taiyuan University of Science and Technology 1
	R&D electronics BMW AG	1	The University of Oklahoma 2
	Sophia University	1	Tianjin University 3
	Southeast University	7	Universit��du Quebec `a Trois-Rivi��res 1
	Technische Universit��t Dresden	3	University of Technology Sydney 1
	University of Birmingham	3	Wenzhou University 2
	University of Minnesota	5	Wuhan University of Technology 2
	University of Sheffield	1	Zhengzhou University 2
	Vitesco Technologies	1	2023 Addis Ababa Science and Technology University 1
	VJTI	1	AVL List GmbH 1
2020	Clemson University	9	Imperial College London 1
	Dalian University of Technology	1	Malaviya National Institute of Technology 1
	Henan University of Science and Technology	5	North University of China 1
	Seoul National University	6	Qingdao University 3
	The Ohio State University	1	Sharif University of Technology 1
	Universit��de Tunis El Manar	1	Sichuan University of Science and Engineering 2
	University of Michigan–Dearborn	1	Tarsus University 1
	University of Victoria	1	Teesside University 1
	Vellore Institute of Technology	1	University of Science and Technology of China 1
	Yangtze Normal University	1	Xi'an Jiaotong University 1
2021	Aix-Marseille University	4	Xiamen University 1
	Chongqing University of Technology	5	Zhejiang Geely Holding Group 1
	Dongguan University of Technology	1	Total 89 universities and institutions 266 research papers

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