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### A Innovation Research of Promoting Economic GDP Value & High-Tech Product Factors like New Electric Auto Battery and Co-opting Academician by Chinese Academy of Science & Engineering Publishing Academic Papers in Prestigious Journal on Scientists' Behavior Continually

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#### ABSTRACT

*The high-technology product like chargeable battery used in the EV (electric vehicle) and robot will be prevalent currently and future which may afford the continuously dynamic for it to drive longer like 2 hundred kilometers per charge, so its usefulness will be more searchable and searching item for us to process later. New one like the solid state battery as a new innovation will be used in EV in future widely, which may become a high-light for our scientists to process continuously. At the same time, the scientist needs to publish their achievement continually to journal with high impact factor for the readers to know the situation and feasibility. The author like scientist in college would complete the investigation content and form the formal achievement in the sake of communicating with readers with wielding English skill well. Thereby the correct and clarified information might transfer into the readers acknowledgement who has an interest to know the meaning from papers. Therein the published one will overview from the author readers through editor help. We should pay more attention to the innovation aspects which may take up some new idea and paths. As for scientist he needs to search for continuously the new project for the sake of further searching for the deeper and wider field all the time. Therein the high-tech product like new energy auto will have occupied promise future as known by now because its sale and expected amount can attain an achievement with total expectation of 1,200 ten thousand ones in 2000 at USA explained that innovative ones to have a large market requirement. On the other side, others like hybrid Electric auto has also some searchable value in near future since its advantage has evident proofs. Thereby in cool region like winter it is said that the electric battery will meet the contracting efficiency somewhat, the being entry north market there will be barrier to enter the electric auto into their market currently.*

**Keywords:** research; economic GDP (gross domestic product) factor; scientists; innovative electric auto battery; famed journal; co-opted academician; Chinese academy of science & engineering; continually; publishing high-quality paper

## 1. Introduction

In modern society the high-technique products will dominate in others to become a strong force to push the society to develop towards modernization continually and sustainably, so that the scientists and scholars will become an important factor to play in every place to process the relevant research and study on the hot points frequently and intentionally. So that publishing achievement papers may provide a strong force to support the future high-life-level like climate change and public sanitation for benefiting the world human safe and health in future. We should go on searching for innovation papers included in the latest high-technique product research like the clean energy and new technique to boost many lots of skills to make different cutting-edge-field product often and constantly. As we knew the current climate problem will be derived from the contaminating factory and automobile carbide gas etc., so the new energy study should occupy the first significant position for our scholar & scientists and experts to sustainably search for and make measure to solve it from judging variation respects which may help us to think about more possible factors to replace the problems with smartness mutually. We might align the measure from one view to another one to proceed simulate to judge the first and the second & the multi-method to solve it for the sake of once happening the problems there will be another method to replace it in urgency. [1~5] Therefore, we put our eyes long not only over-viewing the current status but also looking at the situation longer years later like fairy tale movies which provide the future world scenery one hundred years later. We may interest in those splendid scenery and consider the usefulness part and make some experiments & induction with mathematics to trial the reasonability and feasibility, like the flight automobiles which pass by the high buildings and make a dormitory in the buildings. There will be not some earth surface automobiles but all the automobile which can become flight one which is just a future imagined occasion by USA Hollywood film maker. There may be not contamination gas and all of atmosphere is electric power and hydrogen fuel even small nuclear reaction pile as an engine. So that we must emphasize the current energy exploitation and foundation so as to predict to make a plan to prepare the future infrastructure and write more papers with innovation method to arouse up people's future structure. With the GDP (gross domestic product) enhancement we should not avoid to enter the ideal world with many robots in AI (artificial intelligence) software and hardware & automobiles with intelligent driving times several decades years later, herein we prepare to afford the controlling skill to fix robots logical live and automobile matters with those high energy fuel. As to the former the controlling will be proceeding from now on and its equipment needs to enter our live many years later and the latter will experience safe driving course with no accident. Those problems will must think about by us in advance if not many error ones and accident may occur then. [6~8]

## 2. Discussions

The qualified one may be appointed to be a associate professor and senior researcher to take a burden to educate the MS (Master of Science) & PhD (Philosophy of Doctor) degree continuously. Because they had some and much opportunities to complete the relevant projects singly and collaboratively which belongs to the high-tech product experimental and theoretical deduction. Thereby those ones includes in many innovative methods and calculations correspondingly. At the same time, the reports and papers will be submitted to the Fund commission which may be speared through the relevant scientists. Meanwhile, the data with GDP and sale number would be analyzed for the sake of requesting according behavior & its following judgment by our scientist and fellows sustainably

because they can grasp the economic phenomenon and its following explanation definitely and absolutely in advance through their endeavour in post-doctorate and after work-stations. [9~17]

### 2.1 Technological breakthroughs and infrastructure construction

#### 2.1.1 Innovation in battery technology

In recent years, the battery technology for new energy vehicles has made significant progress, particularly in terms of energy density, range, and charging efficiency. Currently, the energy density of mainstream batteries has increased to 200-260 Wh/kg, which is nearly double that of earlier products. 1. This breakthrough not only significantly enhances the vehicle's range, but also reduces the overall weight and cost of the battery system. For instance, the Keling battery developed by CATL achieves a higher energy utilization rate through innovative structural design. Its range can exceed 1000 kilometers, setting a new benchmark for the industry. 2. Furthermore, the 800V high-voltage platform released by BYD has further promoted the development of ultra-fast charging technology. This platform supports a maximum charging power of over 480kW, and it can increase the driving range by 200km in just 5 minutes, significantly alleviating users' "charging anxiety". 3. These technological advancements indicate that battery power units are moving towards higher energy density, fast charging capabilities, and longer lifespan. [1]

#### 2.1.2 The improvement of charging infrastructure

As the number of electric vehicles increases rapidly, the construction of charging infrastructure has also entered a fast track. In major cities across the country, the coverage of the "5-kilometer charging circle" has reached 92%, effectively meeting the daily charging needs of users. Meanwhile, the battery swapping mode, as an emerging charging method, has been widely promoted by brands such as NIO and BAIC. This mode significantly reduces the charging time by quickly replacing the battery pack, and is particularly suitable for frequent usage scenarios such as taxis and logistics vehicles. Furthermore, the emergence of integrated charging stations for power generation, storage and charging provides a completely new solution for the energy supply of electric vehicles. These charging stations combine photovoltaic power generation, energy storage systems and intelligent charging equipment, which not only effectively alleviates the pressure on the power grid but also improves the utilization efficiency of clean energy. Overall, the diversified development of charging infrastructure is laying a solid foundation for the popularization of new energy vehicles. [1]

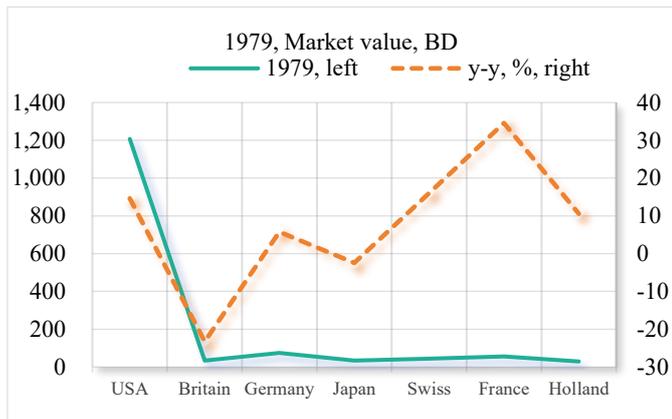
#### 2.1.3 The popularization of intelligent driving technology

Intelligent driving technology is one of the important driving forces for the development of new energy vehicles. In recent years, significant progress has been made in both sensing hardware and algorithms. According to statistics, the adoption rate of lidar in new models will exceed 75% by 2025, becoming a standard feature for high-end models. The high-precision detection capability of lidar provides vehicles with more reliable surround-view perception functions, thereby enhancing the safety and stability of the autonomous driving system. At the same time, the penetration rate of L2+ level assisted driving functions has exceeded 60%, and some models have even achieved city navigation assisted driving (NOA) functions, which can perform automatic lane changes, overtaking, and other operations in complex road conditions. The application of these technologies not only enhances the driving experience of users, but also accumulates valuable experience for the realization of fully autonomous driving in the future. It can be foreseen that with the continuous optimization of algorithms and the reduction of hardware

costs, intelligent driving technology will play an even more important role in the field of new energy vehicles.

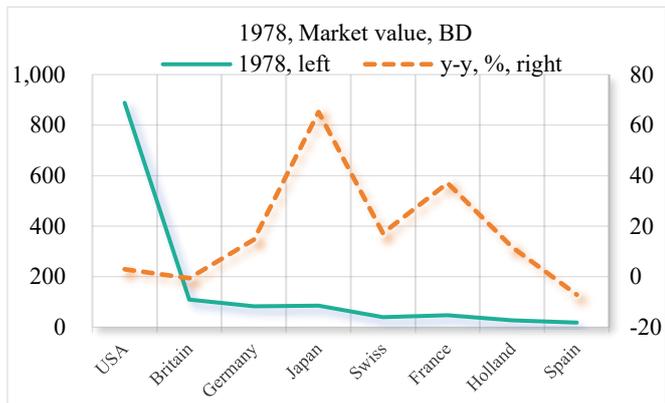
**2.2 Market value rank**

The market company analysis in the world showed 1,200BD~29BD by USA~Holland in 1979 whilst their y-y attained 14%~10% accordingly in terms of Figure 1 to show the USA strong market economic strength then. In contrast, the France & Britain indicated 34%~ -23% recording the maximum and minus growth correspondingly to show the former in. France’s market economic growth speed with highness and the latter Britain’s speed with weakness.



**Figure 1** The market company analysis in the world [2]

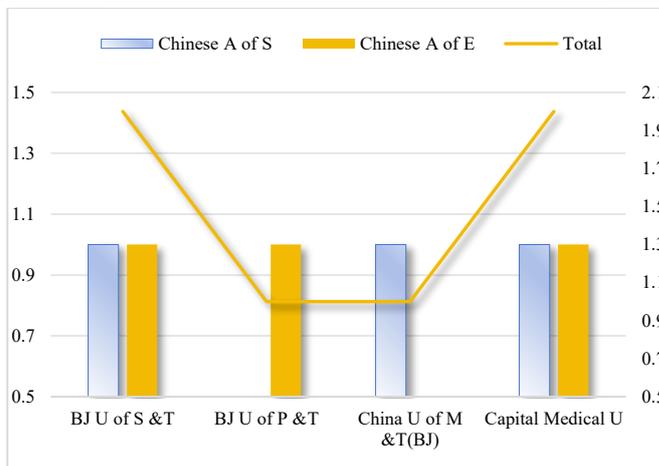
At the same time, the market company analysis in the world showed 890BD (billion dollars)~18BD by USA~Spain in 1978 whilst their y-y attained 3%~ -7% accordingly in terms of Figure 2 to show the USA strong market economic strength then. In contrast, the Japan recorded 65% maintaining the maximum market value growth to show its highest speed. Meantime, France & Swiss & Germany’s market economic growth speed maintaining 37%, 17%, 14% with pretty highness ones and the Britain’s one with weakness of minus growth.



**Figure 2** The market company analysis IV in the world.

**2.3 China Academician of Science & Engineering I in 2025**

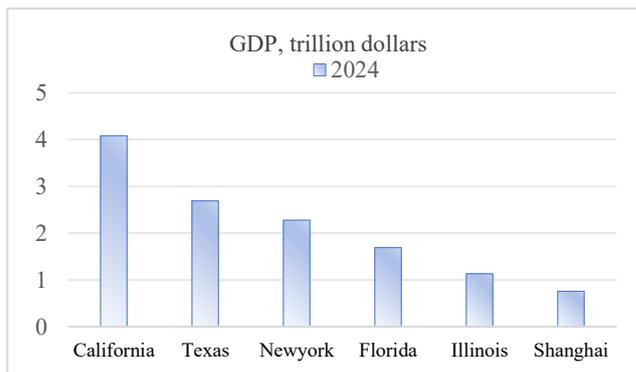
In November 21, 2025 in light of Figure 3 the co-opted Chinese academician of Science & Engineering was issued the academician list where the most was BJ University of Science & Technology to have 2 ones acquired the honor and 1 was academy of science and 1 was academy of engineering. The next was BJ University of Posts & Telecommunications where 3 acquired and 1 was academy of science and 1 was academy of engineering. The next one following the above would be Capital Medical University acquired the honor by 2 where 1 was for academy of science and 1 for academy of engineering.



**Figure 3** The China Academician of Science & Engineering in 2025 [3]

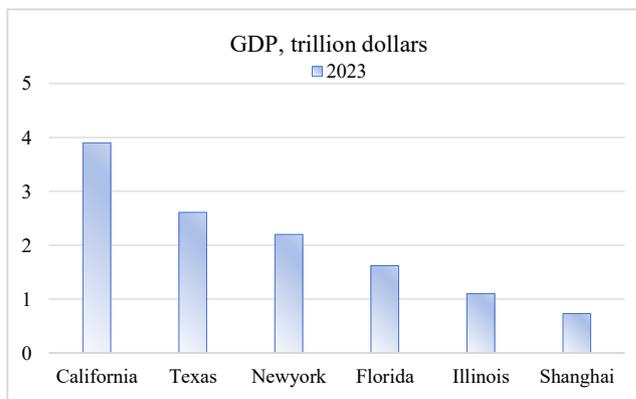
**2.4 Shanghai & USA states top GDP analysis**

The Shanghai & USA states top GDP showed the 4.0~0.75 trillion dollars in 2024 respectively in Figure 3 by California~Shanghai city to exhibit the former ie. California, Texas, New York etc. state strong economy developed status. Besides Shanghai city the Florida & Illinois states exceed 1 trillion dollars following the above two to record 1.7 & 1.6 trillion dollars GDP in 2024 accordingly.



**Figure 3** The Shanghai & USA states top GDP status. [4]

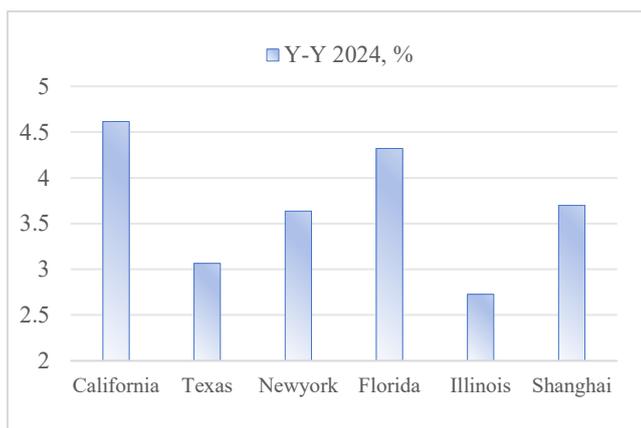
At the same time, the Shanghai & USA states top GDP showed the 3.9~0.7 trillion dollars in 2023 respectively in Figure 4 by California~Shanghai city to exhibit the former ie. California, Texas, New York etc. state strong economy developed status. Besides Shanghai city the Florida & Illinois states exceed 1 trillion dollars following the above two as well.



**Figure 4** The Shanghai & USA states top GDP status. [4]

At the same time, the Shanghai & USA states 2024 y-y showed the 4.6%~3.6% in 2024 respectively in Figure 5 by California~Shanghai

city to exhibit the California Florida Shanghai New York etc. state strong economy developed speed status. In contrast, the Florida state exceed 4% following the California one with 4.2% to occupy the second one.



**Figure 5** The Shanghai & USA states GDP status. [4]

Overview, the scientist's behavior and judgement might affect the important result which could play a role in determining our decision on a certain project to afford main capital sponsoring by government institution like basis green energy advocating ones that can influence our future life urgently and eventually. On the other side, the atmosphere contamination will cause the climate change and sanitation like former's flood and forest fire disaster and latter's public health including COVID (corona virus disease)-19 formerly. Therefore, we need to pay our attention to the atmosphere problem that might cause a series of accident for our experts and general man to adopt the correct path so as to prevent from that matter in advance.

### 3. Conclusions

The high-technology product like chargeable battery used in the EV (electric vehicle) and robot will be prevalent currently and future which may afford the continuously dynamic for it to drive longer like 2 hundred kilometers per charge, so its usefulness will be more searchable and searching item for us to process later. New one like the solid state battery as a new innovation will be used in EV in future widely, which may become a high-light for our scientists to process continuously. At the same time, the scientist needs to publish their achievement continually to journal with high impact factor for the readers to know the situation and feasibility. The author like scientist in college would complete the investigation content and form the formal achievement in the sake of communicating with readers with wielding English skill well. Thereby the correct and clarified information might transfer into the readers acknowledgement who has an interest to know the meaning from papers. Therein the published one will overview from the author readers through editor help. We should pay more attention to the innovation aspects which may take up some new idea and paths. As for scientist he needs to search for continuously the new project for the sake of further searching for the deeper and wider field all the time.

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#### Ethic Declarations

The authors declared that there were not conflicts of interest.

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