

# Welcome to Kahroba Database

## What is the meaning of Kahroba?

**Kahroba** means Amber. There is an explanation that says that “amber is created by the sun” The amber color is used in the KIA trophy. This database precisely gathers the names of the most prestigious names of the world of Science who received the Khwarizmi Award for in recognition of their extraordinary contributions to Science and Technology.

## Introduction

After 32 years, the KIA created the Kahroba Database. It has been designed to describe and provide information on the KIA Laureates. More than two thousands names are listed in this database. It is searchable in two languages, Persian and English and accessible to any user who wishes to know more about the KIA Laureates.

On the home page there are two search options: Projects and Laureates



Laureates of the Khwarizmi Awards

برگزیدگان جشنواره‌های بین المللی و جوان خوارزمی

Projects Laureates

برگزیدگان طرحها

## User Guidelines

The instructions described in this section will enable you to quickly retrieve relevant information regarding the KIA Laureates from the thousands of records in the Kahroba Database.

*It is easy enter your search criteria in the Query bars in projects option and press **Apply***

**Search is possible according to:**

**AWARD**

- *International Award ( KIA)*
- *Youth Award (KYA)*

**Field of the research work**

*Submit field of research*

*For example: Mechanics, Basic Sciences, Aerospace , Civil Engineering, Electronic and Computer, Agriculture and Natural Resources, Chemical Technologies, Art , Architecture, ....*

**Research Work Title**

*Submit keywords or part of the research work title*

**Session**

*Submit session number (1, 2, 3, 4 ...)*

**Year**

*Submit the year (Since 1988 to present)*

**Section**

*Submit the section:*

- *National (Laureate of KIA)*
- *Foreign (Laureate of KIA)*
- *Iranian residing abroad (Laureate of KIA)*
- *Young Researcher/Technologist (KYA)*

**Country**

*Submit the country (Germany, France, Spain, India, Hungary ...)*

**Category**

*Submit the category*

*(Fundamental Research, Applied Research, Research and Development, Innovation and Invention)*

## **Rank**

Submit the rank (First, Second, Third)

## **Keywords**

Submit the keywords

## **Advanced Search**

The user may narrow down search results for detailed and advanced searches by submitting different criteria and keywords.

Click on

**Apply**

Displaying 1 - 7 of 7

Project Title	Award	Session	Year	Section	Country	Field
<input type="text"/>	International-KIA ▾	28 ▾	- Any - ▾	Foreign	<input type="text"/>	<input type="text"/>
Category	Rank	Keywords		<input type="button" value="Apply"/>	<input type="button" value="Reset"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>				

Row Number	Project Title	Award	Session	Year	Section	Country	Field	Category	Rank	Eng part
1	<a href="#">Galectins in health and disease</a>	International-KIA	28	2015	Foreign	Taiwan	Medical Sciences	Fundamental Research	First	<a href="#">28-Englishpart 11.pdf</a>
2	<a href="#">Development of therapeutic strategies to treat neurodegenerative diseases</a>	International-KIA	28	2015	Foreign	Chile	Biotechnology and Basic Medical Sciences	Fundamental Research	First	<a href="#">28-Englishpart 12.pdf</a>
3	<a href="#">Mathematics for Imaging</a>	International-KIA	28	2015	Foreign	Tunisia	Basic Sciences	Fundamental Research	Second	<a href="#">28-Englishpart 14.pdf</a>

## **Bulletin**

The KIA Bulletin is a printed report on the KIA session released, by the KIA secretariat, at the end of each session and distributed on the day of the award ceremony by the KIA secretariat. The bulletin summarizes the session, giving the names of the KIA Laureates submitting statistics, graphs, research works details, and photos, KIA Laureates 'quotes, biographies, board presentation...

The KIA Bulletin is submitted in Persian and English. Each Laureate has a dedicated page which provides information on the KIA Laureate and her/his research work.

### **How to view KIA Laureate's page?**

The KIA Laureate's page is provided via a link PDF file.

جاروی صنعتی توربو وکیوم  
Turbo vacuum industrial cleaning

English

Award: International-KIA  
Session: 32  
Year: 2019  
Section: National  
Country: Iran  
Field: Mechanics  
Category: Applied Research  
Rank: Third  
Eng part: ۳۲-E-۱۴.pdf  
Researcher(s):

Name: Saeed  
Last Name: Bizhazadeh  
Gender: M

فارسی

چشواره: جشنواره بین المللی خوارزمی  
دوره: ۳۲  
سال: ۱۳۹۷  
بخش رقابت: داخلی  
کشور: ایران  
زمینه علمی: مکانیک  
ماهیت: پژوهش‌های کاربردی  
رتبه: سوم  
تصویر ظرنامه: ۳۲-E-۱۴.pdf  
پرگزیده(ها):

نام خانوادگی: بیژن زاده  
نام: سعید  
جنسیت: مرد  
شهر سکونت: اهواز  
نقش: مجری  
سهم مشارکت: ۵۰

Mechanics

Project Title  
Turbo vacuum industrial cleaning



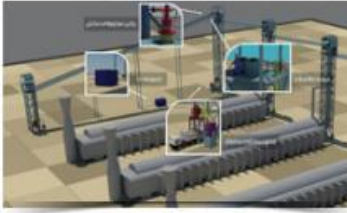
Third Laureate Applied Research

Researchers  
Reza Bizhazadeh and Saeed Bizhazadeh

Collaborator Organization: Nab Andishe Sanae Avar Co.

Abstract

This scheme introduces a negative pressure making method which is like vortex. Based on this method, an apparatus was made called TURBO VACUUM. In this apparatus, the fluid is rotated rapidly in a case and the Centrifugal force moves the air from inside the case to the wall of the case, and the negative pressure produced in the center. With this method, we made samples which provide 800 millibar of negative pressure and 6000 cubic meters per hour flow, which can be easily increased. The design of this apparatus is such that it can be folded down by placing several motors in order to provide the required suction flow So that it does not affect its cost. The construction and material technology it needs is easily available and it can be produced inside the country. In terms of manufacturing costs, it is very cost effective and because of the expensive equipment of competitors, it has a high competitive advantage. Since there is no rotating equipment in this apparatus, it has a long life span. This apparatus can simultaneously collect the material and transfer the material to the desired point with the same injection pressure. Although apparatus such as ejectors and venturi, etc. produce a vacuum by fluid injection, but due to differences in the structure and fluid rules used in them, there is very little pressure and flow, and they are used in very limited industries. This apparatus was registered in the Industrial Property Organization of Iran in 2010 as "VORTEX PNEUMATIC CONVEYING SYSTEM AND APPARATUS". It was also registered at the US Patent and Trademark Office in early 2016. Electricity is not used in this apparatus, which makes it an explosive apparatus for oil and petrochemical plants and the like.

32<sup>nd</sup> Kharazmi International Award  
14