



Baharak Divband

CEO of Azar Kimia Khatam Knowledge-based startup Senior Researcher



divband@tabrizu.ac.ir, bdivband@gmail.com

<https://www.linkedin.com/in/dr-baharak-divband-743353170>

(+98) 914 4165600

Address: Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran

Webpages:

<https://scholar.google.com/citations?user=jxr18ggAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=13612795900>

<https://www.researchgate.net/profile/Baharak-Divband-2>

[linkedin.com/in/dr-baharak-divband-743353170](https://www.linkedin.com/in/dr-baharak-divband-743353170)

I have been working as a Senior Researcher as well as CEO, Project Manager and Member of the board of directors of the Azar Kimia Khatam Knowledge-based startup.

My research achievements are:

- H index of 23, i10-index: 47 and more than 2028 citations
- 67 ISI papers, 60 Conference papers
- 8 registered patents
- Supervisor or advisor of more than 60 PhD and MSc thesis
- 20 Journals reviewer and 8 Conferences Reviewer Committee
- Trainer at 10 Workshops
- Member of Editorial Board of 6 conferences

My research interests' fall into the fields of Resources. I am experienced in Ability to synthesize and produce valuable materials and nanomaterials (such as zeolites and oxides) from **minerals** (from different mines) and polymers with extensive applications in **industries**. Such as:

- ✓ Controlled drug and gene delivery systems, radical scavenging materials, medical imaging contrast agents and particularly tissue engineering and biomaterial coating materials (used in biotechnology, and medicine)
- ✓ Catalysts, molecular sieves & absorbents (used in Gas, Oil, and petrochemical industry, water and wastewater treatment and air purification)
- ✓ Pesticide and fertilizer carriers, soil amendments, animal feed additives, mycotoxin binders, and food packaging materials (used in agriculture and food industries)

Academic Experience

- 2020-now **Senior Researcher**,
Employer: Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz, Iran
- 2019-2020 **Postdoctoral Researcher**
Employer: Inorganic Chemistry Department, Faculty of Chemistry, University of Tabriz, Iran
Project Title: Synthesis of 4A & 5A zeolites from nepheline syenite and bauxite of Iran mines
- 2018-2019 **Postdoctoral Researcher**
Employer: Dental and Periodontal Research Center, Tabriz University of Medical Sciences, Tabriz,

Project Title: Synthesis of injectable biodegradable hybrid polyester-polyacrylate scaffolds containing VEGF factor for necrotic jaw repair

2014-2016 **Postdoctoral Researcher**

Employer: Inorganic Chemistry Department, Faculty of Chemistry, University of Tabriz, Iran
Project Title: Application of chemodrugs (2DG/DOX) loaded on Zeolite nano composite for enhancing the efficiency of radiotherapy for breast cancer cells (SKBR3 & T47D) by a combined therapy method

Professional Experience

- 2017-now **CEO, Project Manager and Member of the board of directors of Azar Kimia Khatam Knowledge-based startup**
Company's major activity: Developing scalable fabrication processes using raw materials and minerals
- 2019-now **Scientific consultant of Azar Shahab Tabriz Refractories Co.**
Key Responsibilities:
Scientific Consultant in the field of manufacturing nanoparticles and its application in refractories as well as company scientific consultant for development plan of products
- 2016-now **Scientific consultant of Basir Sanat Azerbaijan Co.**
Key Responsibilities:
working in Nano department of the company as Scientific Consultant in the field of water treatment by relying on nanotechnology knowledge
- 2013-2017 **Member of the board of directors, Azar Kimia Khatam Co. (Startup)**
Key Responsibilities:
- Preparing and adjusting a comprehensive research program for various industries to improve the quality of research projects
 - Evaluating and reviewing the scientific proposals and supporting for implementation them as an applied project in oil and nano industries