

## MAHDI GHASSEMI KAKROUDI

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## PERSONAL DATA:

Name	Surname	Date of Birth	Nationality	Sex	Marital Status
<i>Mahdi</i>	<i>Ghassemi Kakroudi</i>	<i>21/03/1971</i>	<i>Iranian</i>	<i>Male</i>	<i>Married</i>

## EDUCATIONAL BACKGROUND:

Certificate Degree	Field of Specialization	Name of Institution Attended	Date Received
<i>Professor</i>	<i>Ceramic materials</i>	<i>University of Tabriz- Iran</i>	<i>2017</i>
<i>Associated Professor</i>	<i>Ceramic materials</i>	<i>University of Tabriz</i>	<i>2014</i>
<i>PhD</i>	<i>Ceramic materials and surface traitement</i>	<i>ENSCI (Limoges-France)</i>	<i>2007</i>
<i>Academic staff (Lecturer)</i>	<i>Material Science</i>	<i>University of Tabriz</i>	<i>1998</i>
<i>MSc</i>	<i>Ceramic engineering</i>	<i>Material &amp; Energy Research Center (Tehran)</i>	<i>1995</i>
<i>BSc</i>	<i>Ceramic engineering</i>	<i>Iran University of Science &amp; Technology (Tehran-Iran)</i>	<i>1991</i>

### TITLE OF POST-GRADUATE THESIS:

*Thermomechanical behaviour of refractory castables, the effect of the aggregates nature and thermal history*

### THESIS SUPERVISORS:

*Prof. Thierry Chotard & Marc Huger  
GEMH, ENSCI, University of Limoges, France*

## TEACHING EXPERIENCES

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Title of Course	Level	Dates		Name of Institution
		From	To	
<i>Advanced Phase diagram</i>	<i>PhD</i>	<i>2010</i>		<i>Tabriz University</i>
<i>Advanced Ceramic Processing</i>	<i>MSc</i>	<i>2007</i>		<i>Tabriz University</i>
<i>Composite Materials</i>	<i>MSc-PhD</i>	<i>2007</i>		<i>Tabriz University</i>
<i>Advanced Refractory Materials</i>	<i>MSc-PhD</i>	<i>2007</i>		<i>Tabriz University</i>
<i>Refractories</i>	<i>BSc</i>	<i>1998</i>		<i>Tabriz University</i>

## ACADEMIC POSITIONS

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Job Title	Place of Work	Date		Name of Institution
		From	To	
<i>Head of Material Science &amp; Engineering Dept.</i>	<i>Tabriz University</i>	<i>2009</i>	<i>2012</i>	<i>Faculty of mechanical engineering</i>
<i>Tabriz University Incubator center manager</i>	<i>Tabriz University</i>	<i>2012</i>	<i>2017</i>	<i>Faculty of mechanical engineering</i>
<i>Head of Advanced Ceramic Engineering Research Group University of Tabriz, Tabriz, Iran</i>	<i>Tabriz University</i>	<i>2007</i>		<i>Faculty of mechanical engineering</i>

## MASTER AND DOCTORATE THESIS SUPERVISION:

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No	Full Name of Student	Level	Title of Thesis
<i>1</i>	<i>Mahdi Shahedi Asl</i>	<i>PhD</i>	<i>Effect of morphology of reinforcement phase on densification and mechanical properties of zirconium diboride based ceramic composites</i>
<i>2</i>	<i>Vahdieh Shahedi far</i>	<i>PhD</i>	<i>The effect of processing on mechanical properties of TaC-HfC-VC composite by FMs methods</i>
<i>3</i>	<i>Naser Pour Mohammadi vafa</i>	<i>PhD</i>	<i>Effect of shell type and thickness on the properties of fibrous monolithic composites ZrB<sub>2</sub>-SiC/ BN-C</i>
<i>4</i>	<i>Amin Yousefi</i>	<i>PhD</i>	<i>Insitu synthesis of high entropy carbide based composite</i>
<i>5</i>	<i>Farshad Farshidfar</i>	<i>MSc</i>	<i>Investigation of the chromite type and additives on the ladle filler sand properties</i>
<i>6</i>	<i>Elaheh Zadehayati</i>	<i>MSc</i>	<i>Investigation the effect of the microstructure on the thermomechanical properties of the cordierite-mullite based material</i>

7	<i>Fatemeh vahidian</i>	<i>MSc</i>	<i>Investigation of sintering and crystallisation of composite SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>-CaO-MgO by using of ZrO<sub>2</sub> as reinfocement particles</i>
8	<i>Parisa Rastgoo</i>	<i>MSc</i>	<i>Fabricaton and investigation of processing parameters on the EBT refractories</i>
9	<i>Hosein Joghataei</i>	<i>MSc</i>	<i>Investigation of synthetise of sialon by carbothermal nitridong of andalusite</i>
10	<i>Zohre Nazari</i>	<i>MSc</i>	<i>Fabrication ov cabon based castable</i>
11	<i>Parinaz pir Mohamadi</i>	<i>MSc</i>	<i>Fabricaton and investigation of Sialon based metrial synthesis bu insitu methods</i>
12	<i>Mehran Jaberi</i>	<i>MSc</i>	<i>Investigation of nano SiC particles on densification behavior and mechanical properties of ZrB<sub>2</sub>-based composite</i>
13	<i>Naser Pour Mohammadi</i>	<i>MSc</i>	<i>Investigation of nano-zirconia addition on the densification and mechanical behavior of ZrB<sub>2</sub>-SiC based composite</i>
14	<i>Nima Gogani</i>	<i>MSc</i>	<i>Fabricaton and micro stracture investigation of TiB<sub>2</sub>-SiC based composite</i>
15	<i>Zohre Ahmadi</i>	<i>MSc</i>	<i>Effect of nitride sintering aids on densification and microstructure of ZrB<sub>2</sub>-SiC composites</i>
16	<i>Mina Moghaddam</i>	<i>MSc</i>	<i>Fabrication and Microstructure investigation of ZrB<sub>2</sub>-SiC based composite</i>
17	<i>Fatemeh Golmohammadi</i>	<i>MSc</i>	<i>Investigation of carbon fiber additions on the mechanical behaviour of ZrB<sub>2</sub>-SiC based composite</i>
18	<i>Ayat Aliasgharzadeh</i>	<i>MSc</i>	<i>The effect of reduction additives on the synthesis of sialon</i>
19	<i>Cevil Deljavan</i>	<i>MSc</i>	<i>The investigation of production parameters on the pyroskite in baryom oxide- Fe-Co systemes</i>
20	<i>Mostafa Faraji</i>	<i>MSc</i>	<i>The investigation of TiC based coating on graphite flake</i>
21	<i>Vahid Ghorbani</i>	<i>MSc</i>	<i>Investigation of effective parameters on the synthesis of coerdierite –AlN Composite</i>
22	<i>Ehsan Jamalrayhan</i>	<i>MSc</i>	<i>Investigation and production of nano Cu-Al<sub>2</sub>O<sub>3</sub> composite</i>
23	<i>Mehrad Sahebsang</i>	<i>MSc</i>	<i>The effect of shaping parameters on the produaction of andalusite article by gel casting methods</i>
24	<i>Fatemeh Behbodi</i>	<i>MSc</i>	<i>Preparation of various carbide coatings on the graphite particles</i>
25	<i>Shayda Hajiamiri</i>	<i>MSc</i>	<i>In situ synthesis of Ti<sub>3</sub>SiC<sub>2</sub>-SiC max phase composite</i>
26	<i>M. Hassangholizadeh</i>	<i>MSc</i>	<i>Pressureless sintering of Al<sub>2</sub>O<sub>3</sub>-SiC-TiC composites</i>

27	<i>Zahra Daei Oghli</i>	<i>MSc</i>	<i>Synthesis and characterisation of high entropy carbides</i>
28	<i>Roya Rahnamay</i>	<i>MSc</i>	<i>The role of SiC addition on the properties of Alumina based refractory</i>
29	<i>Sahar Sajjadi</i>	<i>MSc</i>	<i>Investigating the effect of different sols on Alumina-spinel castable refractory</i>
30	<i>Elahe Shokri</i>	<i>MSc</i>	<i>Investigation of ablation behaviour of ZrB<sub>2</sub>-SiC based composite by oxyacetylene torch</i>
31	<i>Saba Matinpour</i>	<i>MSc</i>	<i>Synthesis and Characterization of Al-graphite-SiC Hybrid Metal Matrix</i>
32	<i>Kosar Mahmoudipour</i>	<i>MSc</i>	<i>The role of VC addition on the properties of ZrB<sub>2</sub>-SiC based composite</i>
33	<i>Vahide Abbaszadeh</i>	<i>MSc</i>	<i>Simulation of mechanical behaviour of TaC-HfC-VC based composite by fibrous monolithic structure</i>
34	<i>Masoumeh Hemati</i>	<i>MSc</i>	<i>Insitu synthesis and characterization of ZrB<sub>2</sub>-ZrC-C composites</i>
35	<i>Masoumeh Dehghanzadeh</i>	<i>MSc</i>	<i>The effect of carbides addition on oxidation behaviour of ZrB<sub>2</sub>-SiC composites</i>
36	<i>Sahar Sajadi</i>	<i>MSc</i>	<i>Synthesis and investigation of the properties of alumina sol</i>
37	<i>Shaida Haji Amiri</i>	<i>MSc</i>	<i>Max Phase</i>

## PUBLICATIONS:

### A: BOOKS (TRANSLATION)

Title	Type of Work		Publisher	Date of Publication
	Translation	Compilation		
<i>Sintering of Ceramic</i>	✓		<i>Nashr daneshgahi</i>	<i>2010</i>
<i>Bio ceramics</i>	✓		<i>honar</i>	<i>2012</i>

### B: PAPERS PRESENTED IN INTERNATIONAL SCIENTIFIC CONFERENCES

Title of Paper	Place of Publication	Date of Publication
<i>The effect of type and quantity of phosphate bond of Alumina based materials</i>	<i>Proceeding of 4<sup>th</sup> Iranian ceramic congress</i>	<i>May 2002</i>
<i>Mullite based refractories by Iranian andalusite</i>	<i>Proceeding of Iran's first int'l steel and mines industries froum</i>	<i>2003</i>
<i>High temperature elastic properties of refractory materials</i>	<i>Proceeding of Tehran internatinal refractory conference</i>	<i>4 may 2004, Theran</i>
<i>Damage behavior investigation of two alumina refractory castables after firing</i>	<i>Proceeding of 49th International Colloquium on refractories</i>	<i>Aachen, November 2006</i>
<i>Mechanical behavior of two alumina castable refractories</i>	<i>Proceeding of 10<sup>th</sup> Iranian metalorgy congress</i>	<i>November 2006, Mashhad</i>
<i>Comportement endommageable du béton réfractaire</i>	<i>Proceeding of Matériaux 2006</i>	<i>13-17 Novembre 2006 Dijon</i>
<i>Mechanical behavior of andalusite based refractory castable</i>	<i>Proceeding of 6<sup>th</sup> Iranian ceramic congress,</i>	<i>May 2007</i>
<i>Thermal history and mechanical properties of alumina castables</i>	<i>Proceeding of 10th European ceramic congress</i>	<i>, Berlin, 17- 21 June 2007</i>
<i>Tensile behavior at high temperature of two alumina castable refractories</i>	<i>Proceeding of UNITCER, 10th Biennial Worldwide Congress</i>	<i>September 2007, Dresden, Germany</i>
<i>Thermomechanical behaviour of andalusite based refractory castable</i>	<i>Proceeding of UNITCER, 10th Biennial Worldwide Congress</i>	<i>September 2007, Dresden, Germany</i>
<i>high temperature Tensile behavior at andalusite based refractory castable</i>	<i>Proceeding of XVI. International Conference on Refractories</i>	<i>2008</i>
<i>Influence of nano-SiC participation on densification and mechanical properties of ZrB<sub>2</sub></i>	<i>10th Nano science and Nano technology Conference of Turkey</i>	<i>2014</i>
<i>Taguchi analyses on the densification of ZrB<sub>2</sub>-based composites: Effects of hot pressing conditions and SiC content/particle size</i>	<i>10th Iranian ceramic congress</i>	<i>2015</i>
<i>Iranian Invited Speakers: Study of densification, microstructure and fracture toughness of ZrB<sub>2</sub>-based composites hot pressed with various reinforcements</i>	<i>10th Iranian ceramic congress</i>	<i>2015</i>

<i>Sinterability improvement of ZrB<sub>2</sub>-Based ceramics fabricated by hot pressing</i>	<i>13th international conference on nanosciences &amp; nano thechnologies</i>	<i>2016</i>
<i>Investigating Microstructure, Physical and Mechanical Properties of TaC-HfC-VC System Composites</i>	<i>11th Biennial Congress of the Iranian Ceramic Society and the 2nd International Conference on</i>	<i>2017</i>
<i>Effect of Aluminum and Graphite Addition on Hot pressing Synthesis of Ti<sub>2</sub>AlC</i>	<i>11th Biennial Congress of the Iranian Ceramic Society and the 2nd International Conference on</i>	<i>2017</i>
<i>Recent developments in Diborides and Carbide families of Ultra-high Temperature Ceramics (UHTCs)</i>	<i>3th Iranian refractories congress</i>	<i>2017</i>
<i>Influence of shell thickness of fibers on fracture behavior and fracture toughness of TaC-based/graphite fibrous monolithic ceramics</i>	<i>20th International Conference on Composite Structures</i>	<i>2017</i>
<i>Fracture behaviour improvement of ceramic based matrix composites via microstructure architecture (FMs method)</i>	<i>10th International Conference on High Temperature Ceramic Matrix Composites – HT-CMC 10</i>	<i>2019</i>

## C: PAPERS PUBLISHED IN INTERNATIONAL SCIENTIFIC JOURNALS

<b>Title of Paper</b>	<b>Place of Publication</b>	<b>Date of Publication</b>
<i>Effect of thermal treatment on damage mechanical behaviour of refractory castables: comparison between bauxite and andalusite aggregates</i>	<i>Journal of the European Ceramic Society, 28 (2008) 2471–2478</i>	<i>2008</i>
<i>Anisotropic behaviour of andalusite particles used as aggregates on refractory castables</i>	<i>Journal of the European Ceramic Society, 29 (2009) 579-571</i>	<i>2009</i>
<i>Damage evaluation of two alumina refractory castables</i>	<i>Journal of the European Ceramic</i>	<i>2009</i>
<i>Thermo-mechanical design optimization of Cordierite–Mullite</i>	<i>Proceeding of 7th. Iranian ceramic congress</i>	<i>2009</i>
<i>Non-destructive thermal damage characterization of cordierite-mullite refractories</i>	<i>Iranian Journal of material science and engineering</i>	<i>2009</i>
<i>Influence of the thermal history on the mechanical properties</i>	<i>Journal of the European Ceramic Society</i>	<i>2009</i>
<i>The effect of sands characteristics on performance of chromite base ladle filler sands for continuous casting</i>	<i>CIMTEC</i>	<i>2010</i>
<i>Study of Corrosion Behavior of Conventional and Nanostructured WCCo</i>	<i>Advances in Science and Technology</i>	<i>2010</i>

<i>High temperature elastic properties of refractory materials</i>	<i>Materials Science Forum</i>	<i>2011</i>
<i>Thermo-mechanical design optimization of Cordierite–Mullite based kiln furniture</i>	<i>Iranian Journal of material science and engineering</i>	<i>2011</i>
<i>Fractographical assessment of densification mechanisms in hot pressed ZrB<sub>2</sub>-SiC composites</i>	<i>Ceramics International</i>	<i>2014</i>
<i>Significance of hot pressing parameters and reinforcement size on densification behavior of ZrB<sub>2</sub>-25 vol% SiC UHTCs.</i>	<i>Ceramics International</i>	<i>01/2015</i>
<i>Significance of hot pressing parameters on the microstructure and densification behavior of zirconium diboride.</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>01/2015</i>
<i>A processing-microstructure correlation in ZrB<sub>2</sub>-SiC composites hot-pressed under a load of 10 MPa.</i>	<i>Ceramics International</i>	<i>01/2015</i>
<i>Characterization of hot-pressed graphene reinforced ZrB<sub>2</sub>-SiC composite.</i>	<i>Materials Science and Engineering A</i>	<i>02/2015</i>
<i>Fractographical characterization of hot pressed and pressureless sintered SiAlON-doped ZrB<sub>2</sub>-SiC composites.</i>	<i>Materials Characterization</i>	<i>03/2015</i>
<i>A Taguchi approach to the influence of hot pressing parameters and SiC content on the sinterability of ZrB<sub>2</sub>-based composites.</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>03/2015</i>
<i>Reactive hot pressing of ZrB<sub>2</sub>-based composites with changes in ZrO<sub>2</sub>/SiC ratio and sintering conditions. Part I: Densification behavior.</i>	<i>Ceramics International</i>	<i>03/2015</i>
<i>Microstructural development and mechanical properties of hot pressed SiC reinforced TiB<sub>2</sub> based composite.</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>03/2015</i>
<i>Significance of hot pressing parameters and reinforcement size on sinterability and mechanical properties of ZrB<sub>2</sub>-25 vol% SiC UHTCs.</i>	<i>Ceramics International</i>	<i>04/2015</i>
<i>Influence of graphite nano-flakes on densification and mechanical properties of hot-pressed ZrB<sub>2</sub>-SiC composite.</i>	<i>Ceramics International</i>	<i>05/2015</i>
<i>Characteristics of dynamically formed oxide films in Aluminum-Calcium foamable alloys.</i>	<i>Journal of Alloys and Compounds</i>	<i>09/2015</i>
<i>Fractographical characterization of hot pressed and pressureless sintered AlN-doped ZrB<sub>2</sub>-SiC composites.</i>	<i>Materials Characterization</i>	<i>12/2015</i>
<i>Reactive hot pressing of ZrB<sub>2</sub>-based composites with changes in ZrO<sub>2</sub>/SiC ratio and sintering conditions. Part II: Mechanical behavior.</i>	<i>Ceramics International</i>	<i>01/2016</i>
<i>Temperature dependence of microstructure evolution during hot pressing of ZrB<sub>2</sub>-30 vol% SiC</i>	<i>International Journal of Refractory Metals and Hard Materials.</i>	<i>01/2016</i>
<i>Synergetic effects of SiC and CsF in ZrB<sub>2</sub>-based ceramic composites. Part I: Densification behavior.</i>	<i>Ceramics International</i>	<i>02/2016</i>
<i>Reactive hot pressing of ZrB<sub>2</sub>-based composites with changes in ZrO<sub>2</sub>/SiC ratio and sintering conditions. Part II: Mechanical behavior.</i>	<i>Ceramics International</i>	<i>02/2016</i>

<i>Temperature dependence of microstructure evolution during hot pressing of ZrB<sub>2</sub>–30 vol% SiC composites.</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>02/2016</i>
<i>Influence of silicon carbide addition on the microstructural development of hot pressed zirconium and titanium diborides.</i>	<i>Ceramics International</i>	<i>03/2016</i>
<i>Characterization of hot pressed SiC whisker reinforced TiB<sub>2</sub> based composites</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>04/2016</i>
<i>Interfacial phenomena and formation of nano-particles in porous ZrB<sub>2</sub>–40 vol. % B<sub>4</sub>C UHTC.</i>	<i>Ceramics International</i>	<i>07/2016</i>
<i>Consolidation and mechanical properties of hot pressed TaC-HfC-VC composites</i>	<i>Ceramics International,</i>	<i>2017</i>
<i>Densification, microstructure and mechanical properties of hot pressed tantalum carbide</i>	<i>Ceramics International</i>	<i>2017</i>
<i>Sintering behavior of ZrB<sub>2</sub>–SiC composites doped with Si<sub>3</sub>N<sub>4</sub>: A fractographical approach</i>	<i>Ceramics International</i>	<i>2017</i>
<i>Fracture behavior improvement of TaC-based ceramic composites by fibrous structure</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>2018</i>
<i>Investigation of hot pressed ZrB<sub>2</sub>–SiC–carbon black nanocomposite by scanning and transmission electron microscopy</i>	<i>Ceramics International</i>	<i>2019</i>
<i>Investigation of strength, fracture toughness, and crack propagation pattern of TaC-based fibrous monoliths as a function of microstructure architecture</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>2019</i>
<i>Investigation of AlN addition on the microstructure and mechanical properties of TiB<sub>2</sub> ceramics</i>	<i>Ceramics International</i>	<i>2019</i>
<i>Advantages and disadvantages of graphite addition on the characteristics of hot-pressed ZrB<sub>2</sub>–SiC composites</i>	<i>Ceramics International</i>	<i>2019</i>
<i>Properties of alumina sol prepared via inorganic route</i>	<i>Ceramics International</i>	<i>2019</i>
<i>Hot pressing and oxidation behavior of ZrB<sub>2</sub>–SiC–TaC composites</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Characterization of TaC-based fibrous-monolithic ceramics made of fibers with different core/shell volume ratios and orientations</i>	<i>Materials Science and Engineering: A</i>	<i>2020</i>
<i>Influence of SiAlON addition on the microstructure development of hot-pressed ZrB<sub>2</sub>–SiC composites</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Characterization of hot-pressed Ti<sub>3</sub>SiC<sub>2</sub>–SiC composites</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	<i>2020</i>



<i>Advantages and disadvantages of graphite addition on the characteristics of hot-pressed ZrB<sub>2</sub>–SiC composites</i>	<i>Ceramics International</i>	2020
<i>Properties of alumina sol prepared via inorganic route</i>	<i>Ceramics International</i>	2020
<i>Characterization of Ni-doped pyrolyzed phenolic resin and its addition to the Al<sub>2</sub>O<sub>3</sub>–C refractories</i>	<i>Ceramics International</i>	2020
<i>Role of h-BN content on microstructure and mechanical properties of hot-pressed ZrB<sub>2</sub>–SiC composites</i>	<i>Ceramics International</i>	2020
<i>Effects of SiC content on thermal shock behavior and elastic modulus of cordierite–mullite composites</i>	<i>Ceramics International</i>	2020
<i>Role of hot-pressing temperature on densification and microstructure of ZrB<sub>2</sub>–SiC ultrahigh temperature ceramics</i>	<i>Ceramics International</i>	2020
<i>Electron microscopy study of ZrB<sub>2</sub>–SiC–AlN composites: Hot-pressing vs. pressureless sintering</i>	<i>Ceramics International</i>	2020
<i>TEM characterization of hot-pressed ZrB<sub>2</sub>–SiC–AlN composites</i>	<i>Results in Physics</i>	2020
<i>Synthesis and characterization of MgAl<sub>2</sub>O<sub>4</sub> spinel precursor sol prepared by inorganic salts</i>	<i>Ceramics International</i>	2020
<i>Molten salt synthesis of in-situ TiC coating on graphite flakes</i>	<i>Ceramics International</i>	2021
<i>Synthesis and characterization of MgAl<sub>2</sub>O<sub>4</sub> spinel precursor sol prepared by inorganic salts</i>	<i>Ceramics International</i>	2021
<i>On the oxidation behavior of ZrB<sub>2</sub>–SiC–VC composites</i>	<i>International Journal of Applied Ceramic Technology</i>	2021
<i>Synthesis and Sintering of Ti<sub>3</sub>SiC<sub>2</sub>–SiC Composites through Reactive Hot-Pressing of TiC and Si Precursors</i>	<i>silicon</i>	2022
<i>Investigation of Tantalum Cation Doped Ba (Co<sub>0.8</sub>Fe<sub>0.2</sub>) O<sub>3</sub> Perovskite Phase</i>	<i>Journal of Advanced Materials in Engineering (Esteghlal)</i>	2022
<i>Microstructure, Mechanical Properties and Oxidation Behavior of Reactive Hot-Pressed (Zr, Ti) B<sub>2</sub>–SiC–ZrC Composites</i>	<i>JOM</i>	2024
<i>Crack propagation behavior in the stacked TaC–Gr core–shell composites</i>	<i>Journal of Fracture</i>	2024
<i>The effects of processing technique on formation temperature of calcium aluminate magnesium (CaO. 2MgO. 8Al<sub>2</sub>O<sub>3</sub>)</i>	<i>Journal of Crystal Growth</i>	2024

<i>Finite element simulation of mechanical properties of TaC-based core</i>	<i>Carbon Letters</i>	<i>2024</i>
<i>Characterization of hot-pressed ZrC–TiC composites</i>	<i>International Journal of Applied Ceramic Technology</i>	<i>2024</i>

## RESEARCH ACTIVITIES:

Title of Project	Place of Work	Dates	
		From	To
<i>Fabrication of high alumina insulating refractories</i>	<i>Tabriz University</i>	<i>2000</i>	<i>2002</i>
<i>Phase equilibria diagram database</i>	<i>Tabriz University</i>	<i>2001</i>	<i>2002</i>
<i>Simulation of thermomechanical behaviour of cordierite-mullite refractories used in ceramic industries as a kiln furniture</i>	<i>Tabriz University</i>	<i>2008</i>	<i>2009</i>
<i>Fabrication and Investigation of ladle filler sand</i>	<i>Tabriz University, &amp; Yazd alloying steel Co</i>	<i>2009</i>	<i>2011</i>
<i>Investigation the effect of antiwetting agents on improvement of corrosion behaviour of andalusite aluminosilicate based castables</i>	<i>Tabriz University</i>	<i>2009</i>	<i>2011</i>
<i>Design and fabrication of non-destructive ultrasonic measurement systems of elastic properties of materials</i>	<i>Tabriz University</i>	<i>2009</i>	<i>-</i>
<i>Cu- Alumina based composite</i>	<i>Industrial contract</i>	<i>2010</i>	<i>2012</i>
<i>High toughness ZrB<sub>2</sub>-SiC based composite</i>	<i>Industrial contract</i>	<i>2013</i>	<i>2015</i>
<i>TaC- HfC-VC fibrous monolithic ceramic composite</i>	<i>Industrial contract</i>	<i>2013</i>	<i>2016</i>
<i>Synthesis and characterization on nitride based ceramic powders</i>	<i>Industrial contract</i>	<i>2016</i>	<i>2019</i>
<i>Fabrication of samples by gel casting</i>	<i>Industrial contract</i>	<i>2016</i>	<i>2019</i>

## AWARDS, HONORARY DEGREES, MEDALS AND POSITIONS:

Title of Award, Medal, Position	Issuing Authority	Country	Year
<i>Best Researcher of Faculty</i>	<i>University of Tabriz</i>	<i>Iran</i>	<i>2016</i>
<i>Best Researcher of University</i>	<i>University of Tabriz</i>	<i>Iran</i>	<i>2017</i>
<i>Best Researcher &amp; Technologist</i>	<i>Provincial Government</i>	<i>Iran</i>	<i>2019</i>
<i>Best Researcher of Faculty</i>	<i>University of Tabriz</i>	<i>Iran</i>	<i>2020</i>

## RESEARCH INTERESTS:

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*Refractory Materials, Ceramic Matrix Composites,*

## MEMBERSHIP TO SCIENTIFIC ASSOCIATIONS:

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Name of Institution/Association	Position Held	Country	Year
<i>Iran Ceramic Society</i>	<i>Permenant Member</i>	<i>Iran</i>	<i>1991-..</i>
<i>Editorial Board Member</i>	<i>Advanced Materials and Structures (AMS)</i>	<i>Iran</i>	<i>2019-..</i>
<i>Editorial Board Member</i>	<i>Advanced Materials Science and Technology</i>	<i>Singapore</i>	<i>2019-..</i>

## LANGUAGE PROFICIENCY:

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Degree of Proficiency												
Language	Writing				Reading				Speaking			
	Native	Good	Fair	Poor	Native	Good	Fair	Poor	Native	Good	Fair	Poor
<i>Persian</i>	*				*				*			
<i>French</i>		*				*				*		
<i>English</i>		*				*				*		