

MAHDI GHASSEMI KAKROUDI

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University of Tabriz- Iran
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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 & Energy Research Center (Tehran)</i>	<i>1995</i>
<i>BSc</i>	<i>Ceramic engineering</i>	<i>Iran University of Science & Technology (Theran-Iran)</i>	<i>1991</i>

TITLE OF POST-GRADUATE THESIS:

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

THESIS SUPERVISORS:

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

TEACHING EXPERIENCES

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

Job Title	Place of Work	Date		Name of Institution
		From	To	
<i>Head of Material Science & 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:

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 ZrB₂-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 SiO₂-Al₂O₃-CaO-MgO by using of ZrO₂ as reinforcement 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 ZrB₂-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 ZrB₂-SiC based composite</i>
14	<i>Nima Gogani</i>	<i>MSc</i>	<i>Fabricaton and micro structure investigation of TiB₂-SiC based composite</i>
15	<i>Zohre Ahmadi</i>	<i>MSc</i>	<i>Effect of nitride sintering aids on densification and microstructure of ZrB₂-SiC composites</i>
16	<i>Mina Moghaddam</i>	<i>MSc</i>	<i>Fabrication and Microstructure investigation of ZrB₂-SiC based composite</i>
17	<i>Fatemeh Golmohammadi</i>	<i>MSc</i>	<i>Investigation of carbon fiber additions on the mechanical behaviour of ZrB₂-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-Al₂O₃ composite</i>
23	<i>Mehrad Sahebsang</i>	<i>MSc</i>	<i>The effect of shaping parameters on the production 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 Ti₃SiC₂-SiC max phase composite</i>
26	<i>M. Hassangholizadeh</i>	<i>MSc</i>	<i>Pressureless sintering of Al₂O₃-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 ZrB₂-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 ZrB₂-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 ZrB₂-ZrC-C composites</i>
35	<i>Masoumeh Dehghanzadeh</i>	<i>MSc</i>	<i>The effect of carbides addition on oxidation behaviour of ZrB₂-SiC composites</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 4th 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 10th 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 6th 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 ZrB₂</i>	<i>10th Nano science and Nano technology Conference of Turkey</i>	<i>2014</i>
<i>Taguchi analyses on the densification of ZrB₂-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 ZrB₂-based composites hot pressed with various reinforcements</i>	<i>10th Iranian ceramic congress</i>	<i>2015</i>
<i>Sinterability improvement of ZrB₂-Based ceramics fabricated by hot pressing</i>	<i>13th international conference on nanosciences & 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 Ti₂AlC</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</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

Title of Paper	Place of Publication	Date of Publication
<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>	2008
<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>	2009
<i>Damage evaluation of two alumina refractory castables</i>	<i>Journal of the European Ceramic</i>	2009
<i>Thermo-mechanical design optimization of Cordierite–Mullite</i>	<i>Proceeding of 7th. Iranian ceramic congress</i>	2009
<i>Non-destructive thermal damage characterization of cordierite-mullite refractories</i>	<i>Iranian Journal of material science and engineering</i>	2009
<i>Influence of the thermal history on the mechanical properties</i>	<i>Journal of the European Ceramic Society</i>	2009
<i>The effect of sands characteristics on performance of chromite base ladle filler sands for continuous casting</i>	CIMTEC	2010
<i>Study of Corrosion Behavior of Conventional and Nanostructured WCCo</i>	<i>Advances in Science and Technology</i>	2010
<i>High temperature elastic properties of refractory materials</i>	<i>Materials Science Forum</i>	2011
<i>Thermo-mechanical design optimization of Cordierite–Mullite based kiln furniture</i>	<i>Iranian Journal of material science and engineering</i>	2011
<i>Fractographical assessment of densification mechanisms in hot pressed ZrB₂-SiC composites</i>	<i>Ceramics International</i>	2014
<i>Significance of hot pressing parameters and reinforcement size on densification behavior of ZrB₂-25 vol% SiC UHTCs.</i>	<i>Ceramics International</i>	01/2015
<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>	01/2015
<i>A processing-microstructure correlation in ZrB₂-SiC composites hot-pressed under a load of 10 MPa.</i>	<i>Ceramics International</i>	01/2015
<i>Characterization of hot-pressed graphene reinforced ZrB₂-SiC composite.</i>	<i>Materials Science and Engineering A</i>	02/2015
<i>Fractographical characterization of hot pressed and pressureless sintered SiAlON-doped ZrB₂-SiC composites.</i>	<i>Materials Characterization</i>	03/2015
<i>A Taguchi approach to the influence of hot pressing parameters and SiC content on the sinterability of ZrB₂-based composites.</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	03/2015
<i>Reactive hot pressing of ZrB₂-based composites with changes in ZrO₂/SiC ratio and sintering conditions. Part I: Densification behavior.</i>	<i>Ceramics International</i>	03/2015
<i>Microstructural development and mechanical properties of hot pressed SiC reinforced TiB₂ based composite.</i>	<i>International Journal of Refractory Metals and Hard Materials</i>	03/2015
<i>Significance of hot pressing parameters and reinforcement size on sinterability and mechanical properties of ZrB₂-25 vol% SiC UHTCs.</i>	<i>Ceramics International</i>	04/2015

<i>Influence of graphite nano-flakes on densification and mechanical properties of hot-pressed ZrB₂-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 ZrB₂-SiC composites.</i>	<i>Materials Characterization</i>	<i>12/2015</i>
<i>Reactive hot pressing of ZrB₂-based composites with changes in ZrO₂/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 ZrB₂-30 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 ZrB₂-based ceramic composites. Part I: Densification behavior.</i>	<i>Ceramics International</i>	<i>02/2016</i>
<i>Reactive hot pressing of ZrB₂-based composites with changes in ZrO₂/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 ZrB₂-30 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 TiB₂ 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 ZrB₂-40 vol. % B₄C 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 ZrB₂-SiC composites doped with Si₃N₄: 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 ZrB₂-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 TiB₂ ceramics</i>	<i>Ceramics International</i>	<i>2019</i>

<i>Advantages and disadvantages of graphite addition on the characteristics of hot-pressed ZrB₂-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 ZrB₂-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 ZrB₂-SiC composites</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Characterization of hot-pressed Ti₃SiC₂-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 ZrB₂-SiC composites</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Properties of alumina sol prepared via inorganic route</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Characterization of Ni-doped pyrolyzed phenolic resin and its addition to the Al₂O₃-C refractories</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Role of h-BN content on microstructure and mechanical properties of hot-pressed ZrB₂-SiC composites</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Effects of SiC content on thermal shock behavior and elastic modulus of cordierite-mullite composites</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Role of hot-pressing temperature on densification and microstructure of ZrB₂-SiC ultrahigh temperature ceramics</i>	<i>Ceramics International</i>	<i>2020</i>
<i>Electron microscopy study of ZrB₂-SiC-AlN composites: Hot-pressing vs. pressureless sintering</i>	<i>Ceramics International</i>	<i>2020</i>
<i>TEM characterization of hot-pressed ZrB₂-SiC-AlN composites</i>	<i>Results in Physics</i>	<i>2020</i>
<i>Synthesis and characterization of MgAl₂O₄ spinel precursor sol prepared by inorganic salts</i>	<i>Ceramics International</i>	<i>2020</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 furnature</i>	<i>Tabriz University</i>	<i>2008</i>	<i>2009</i>
<i>Fabrication and Investigation of ladle filler sand</i>	<i>Tabriz University, & 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 measuarement systeme 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 ZrB₂-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 charecterization on nitride based caeramic powders</i>	<i>Industrial contract</i>	<i>2016</i>	<i>2019</i>
<i>Fabrication of fused silica 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 Resaercher of Faculty</i>	<i>University of Tabriz</i>	<i>Iran</i>	<i>2016</i>
<i>Best Resaercher of University</i>	<i>University of Ttabriz</i>	<i>Iran</i>	<i>2017</i>
<i>Best Researcher & Techologist</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:

Refractory Materials, Ceramic Matrix Composites,

MEMBERSHIP TO SCIENTIFIC ASSOCIATIONS:

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:

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>		*				*				*		