

**TRENČIANSKA UNIVERZITA ALEXANDRA DUBČEKA  
V TRENČÍNE**

**PODKLADY K ŽIADOSTI O ZAČATIE HABILITAČNÉHO KONANIA V  
ODBORE HABILITAČNÉHO KONANIA: ANORGANICKÁ  
TECHNOLÓGIA A MATERIÁLY**

DOCUMENTS TO THE APPLICATION FOR INITIATING THE HABILITATION  
PROCEDURE IN THE FIELD OF HABILITATION PROCEDURE: INORGANIC  
TECHNOLOGY AND MATERIALS

**Amirhossein Pakseresht, Ph.D.**

**Trenčín 2021**

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## I. ADMINISTRATIVE REQUIREMENTS

### Životopis Curriculum Vitae

Meno a priezvisko, rodné priezvisko,  
akademický titul, vedecko-pedagogický  
titul alebo umelecko-pedagogický titul a  
vedecká hodnosť

(*Name and surname, title*)

Dátum a miesto narodenia  
(*Date and place of birth*)

Vysokoškolské vzdelanie a ďalší  
akademický rast  
(*Higher Education and academic growth*)

Ďalšie vzdelávanie  
(*Additional education*)

Priebeh zamestnaní  
(*Employment history*)

Priebeh pedagogickej činnosti  
(pracovisko/predmety)  
(*Course of Pedagogical activities: place of  
employment/ subjects*)

Amirhossein Pakseresht  
Head of Department of Coating Processes

Kermanshah, Iran  
28.08.1981

**PhD.** in Materials Science and Engineering  
Materials and Energy Research Center, Tehran, Iran  
September 2010 - February 2015  
**M.Sc.** in Materials Science and Engineering  
Tehran , Iran  
September 2003 - July 2005  
**B.Sc.** in Materials Science and Engineering,  
Department of Materials Science and Engineering, Tehran  
University, Tehran, Iran  
September 1999 - September 2003

**Post Doc-** Surface Science  
Department of Materials Science and Engineering, Tehran  
University, Tehran, Iran  
March 2016 - December 2017

**Head of Coating Department**  
Centre for Functional and Surface Functionalised Glass,  
Alexander Dubček University of Trenčín  
January 2019 - Current  
**Adjunct research assistant Professor**  
Amirkabir University, Tehran Iran  
January 2018 - January 2019  
**Researcher**  
Materials and Enrgy research center  
September 2010 - March 2016

September 2005 - January 2006 Azad University Dept of  
Materials & Metallurgy – Saveh - Iran, Teacher of Physical  
Chemistry and Thermodynamics and General Lab.  
September 2005 - September 2007 Daneshpajohan  
Institute - Tehran - Iran, Teaching Physical Chemistry,  
Thermodynamics for MS.C University Entrance Exam.

Odborné alebo umelecké zameranie  
*(Professional, scientific focus)*

February 2011 - July 2011 Azad University Dept of Materials & Metallurgy - Saveh - Iran, Teacher of Heat Transfer and Metallography Lab.

February 2011 - July 2011 Jamekarbordi University Tehransar - Tehran - Iran, Teacher of NonDestructive Methods and Mechanical Properties of Materials.

September 2010 - April 2015 Materials and Energy Research Center, Researcher.

2016 - Materials and Energy Research Centre, Advisor of PhD student Mirzajani.

2016 - Tehran University, Advisor of Master student , Ashrafiyan.

2016 - Materials and Energy Research Center, Advisor of Master student, Sarmast.

2017 - Tehran University, Advisor of PhD student Hasanzadeh.

2017 - Tehran University, Advisor of PhD student, Sayad.

Splats Morphology  
Plasma Spray  
Thermal Barrier Coatings and New TBCs  
Hot Corrosion  
Metal Matrix Composite  
X-ray Analysis (Diffraction, Photoelectron Spectroscopy, Texture Imaging)  
Electron Microscopy (SEM and STEM)  
Surface Analysis  
Powder Metallurgy  
Characterization of Materials  
Physical and Mechanical Properties of Materials  
Ultra Sonic Test (UT) ASNT Level I,II  
Corrosion Control and Cathodic Protection  
Hard Coating  
ISO14001

Publikačná činnosť vrátane rozsahu (autorské hárky) a kategórie evidencie podľa vyhlášky č. 456/2012 Z. z.  
 1. monografia  
 2. učebnica  
 3. skriptá  
*(Publication activities, scope – pages: , categories: 1. monograph, 2. textbook, 3. instructional texts)*

#### **Books**

1. A. H. Pakseresht, Physical Chemistry and Thermodynamics in Materials"(In Persian), pp.,1-450, Nov 2007: First Edition, Mar 2015:Fifth Edition.
2. A. H. Pakseresht, Editor of "Production, Properties, and Applications of High Temperature Coatings" IGI Global, USA, pp.,1-557, 2018.
3. M. Alizadeh, A. H. Pakseresht, translate to Persian "Protection against erosive wear using thermal sprayed cermet, Springer.

#### **Book Chapters**

1. A. H. Pakseresht, M. R. Rahimipour, M. Alizadeh, S. M. M. Hadavi "Concept of advanced thermal barrier functional coatings in high temperature engineering components" IGI Global, 2016, USA, pp. 396-419.
2. A. H. Pakseresht, et. al. "Investigation on improved-durability thermal barrier coatings- an overview of nanostructured, multilayered and self-healing TBCs" IGI Global, 2018 ,USA, pp. 20-30. Chapter 3.
3. A. H. Pakseresht, et al. " Oxidation-Protective Coatings for Carbon-Carbon Composites" IGI Global, 2016 ,USA, 250-260. Chapter 16.

Ohlasy na vedeckú/umeleckú prácu  
*(Citations)*

756 citations

Počet doktorandov: školených ukončených  
 (neplatí pre habilitačné konanie)  
*(Number of PhD students: ongoing/ defended, it doesn't concern habilitation process)*

4 PhD students

(2 students under training/ 2 graduated student)

Kontaktná adresa  
*(Address)*

Coating Processes Department, Alexander Dubček University of Trenčín, Študentská 2, 911 50 Trenčín, Slovakia  
 E-mail: amir.pakseresht@tnuni.sk  
 Tel.: +421 32 7400 550

<b>City</b>	<b>Date</b>	<b>Name and Title</b>
Trenčín	05.05.2021	Amirhossein Pakseresht, Ph.D



Číslo: 2-002/ÚPVaV/2021

V Trenčíne 18. 02. 2021

**Rozhodnutie  
o uznaní dokladu o vzdelaní vydaného zahraničnou vysokou školou**

Trenčianska univerzita Alexandra Dubčeka v Trenčíne v zmysle § 33 ods. 1 písm. a) Zákona č. 422/2015 Z. z. o uznávaní dokladov o vzdelaní a o uznávaní odborných kvalifikácií a o zmene a doplnení niektorých zákonov (ďalej len „zákon o uznávaní dokladov o vzdelaní a o uznávaní odborných kvalifikácií“)

**uznáva**

doklad o udelení titulu: Doctor of Philosophy (ref. č. 20/436)

dátum vydania: 22. 07. 2019

vydaný na (názov a sídlo vyskej školy): Výskumné centrum materiálov a energetiky, Teherán v (štát): Irán

znejúci na (meno, dátum narodenia): Amirhossein Pakseresht, 28. 08. 1981

o skončení štúdia v študijnom odbore: materiálové inžinierstvo

za rovnocenný s dokladom o vysokoškolskom vzdelaní tretieho stupňa vydaným Trenčianskou univerzitou Alexandra Dubčeka v Trenčíne, v študijnom odbore 36. strojárstvo, podľa študijného programu *materiály*.

Držiteľ dokladu o vzdelaní je oprávnený v Slovenskej republike používať zahraničný titul „Doctor of Philosophy (Ph.D)“, ktorý mu bol priznaný podľa vnútroštátnych právnych predpisov v Iráne. Toto rozhodnutie nie je dokladom o uznanií odbornej kvalifikácie.

**Odôvodnenie**

Na základe predložených a posúdených dokladov o vzdelaní, uznávam doklad o vzdelaní vydaný zahraničnou vysokou školou.

**Poučenie**

Proti tomuto rozhodnutiu môžete v zmysle § 53 Zákona č. 71/1967 Zb. o správnom konaní (správny poriadok) v znení neskorších predpisov podať odvolanie rektoriu Trenčianskej univerzity Alexandra Dubčeka v Trenčíne v lehote 15 dní odo dňa jeho doručenia.



doc. Ing. Jozef Habánik, PhD.  
rektor

## **II. TEACHING AND PEDAGOGICAL ACTIVITIES**

I have a more than 10 years teaching experiences, from 2005 till 2015. During this time I have taught courses such as Thermodynamics of Materials, physical chemistry, Heat Transfer, Metallography Laboratory, Non-Destructive Method, Strength of Materials and General Laboratory in Islamic Azad University, Daneshpajohan Institute and , Jamekarbordi University,

### **A. List of lectures: in Master Study**

1. Heat Transfer, Azad University Department of Materials & Metallurgy - Saveh - Iran, February 2011- July 2011.
2. Metallography Laboratory, Azad University Department of Materials & Metallurgy -Saveh - Iran, February 2011- July 2011.
3. Non-Destructive Method, Jamekarbordi University - Tehransar - Tehran - Iran, February 2011- July 2011.
4. Strength of Materials, Jamekarbordi University – Tehransar – Tehran - Iran, February 2011- July 2011.
5. General Laboratory, Azad University Department of Materials & Metallurgy - Saveh -Iran, September 2005 - January 2006.
6. Physical Chemistry for MS.C University Entrance Exam, Daneshpajohan Institute-Tehran - Iran, September 2005 - September 2007.
7. Thermodynamics for MS.C University Entrance Exam, Daneshpajohan Institute-Tehran - Iran, September 2005 - September 2007.

### **B. List of master thesis co-supervised**

1. Fabrication and evaluation of nanocomposite hydroxyapatite/silica coating on titanium by atmospheric plasma spray method and investigation of its effective parameters, M. Sarmast, Nano Department, Materials and Energy Research, Alborz, Iran, 2016.
2. Protect carbon-carbon composite against oxidation through coating silicon carbide and zirconia, Ashrafiyan, School of Metallurgy and Materials Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran, 2018.

### **C. List of PhD, thesis**

1. Investigation of the effect of alumina fibers on durability of YSZ nanocomposite thermal barrier coating, co-supervised for R. Mirzajani, Ceramic Department, Materials and Energy Research, Alborz, Iran, 2018.

2. Invistigation of physical and mechanical properties of copper-graphene composite synthesized by spark plasma method, co-supervised for R. Sayad, School of Metallurgy and Materials Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran, 2020.
3. Creating self-healing thermal barrier coating with SiC nano-particles and invistigation of its thermal and mechanical proprties, co-supervised for M. Hasanzadeh, School of Metallurgy and Materials Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran (Studying).
4. Microstructural study and thermal shock behavior of thermal barrier coating reinforced with YSZ fiber, supervised for Alebrahim, FunGlass, Slovakia (Studying).

### **III. HABILITATION THESIS**

*The applicant for the habilitation procedure submits the habilitation thesis “**Plasma Sprayed Coatings: From Splat Morphology to New Thermal Barrier Coatings**” in the form of a set of published scientific papers supplemented by a commentary.*

## IV. SCIENTIFIC RESEARCH AND PUBLICATION ACTIVITIES

### KRITÉRIÁ NA ZÍSKANIE TITULU DOCENT A PROFESOR

*Criteria for obtaining the title “docent” and “professor”*

<b>Minimálne povinné požiadavky</b> <i>Minimal obligatory requirements</i>	<b>Požiadavky na začatie</b> <i>Minimum requierements to for starting</i>	<b>Skutočnosť</b> <i>Actual Status</i>
	<b>Habiliatačného konania</b> <i>Associate professor appointment procedure</i>	<b>Inauguračného konania</b> <i>Professor appointment procedure</i>
<b>HODNOTENIE PEDAGOGICKEJ ČINNOSTI</b> <i>EVALUATION OF PEDAGOGICAL ACTIVITIES</i>		
<b>I. Pedagogická aktivity</b> <i>Pedagogical activities</i>		
Kontinuálna pedagogická činnosť <i>Pedagogical experiences in a particular field</i>	3 roky po PhD <i>3 years after PhD</i>	3 roky po habilitácii <i>3 years after associated professor award</i>
Autorstvo (spoluautorstvo) vysokoškolskej učebnice alebo skript (učebných textov): <i>Authorship (co-authorship) of the textbooks or the instructional texts and materials:</i>		
<ul style="list-style-type: none"> <li>• Vysokoškolské učebnice (ACA, ACB, ACC, ACD) alebo <i>Textbooks (ACA, ACB, ACC, ACD)</i></li> <li>• Skriptá, učebné texty, elektronické texty (BCI, BCK) <i>Instructional texts and materials, electronic instructional texts (BCI, BCK)</i></li> </ul>	1	1
<b>HODNOTENIE VEDECKEJ A VÝSKUMNEJ ČINNOSTI</b> <i>EVALUATION OF SCIENTIFIC AND RESEARCH ACTIVITIES</i>		
<b>II. Vedecko výskumná aktivity</b> <i>Scientific and Research activities</i>		
Pôvodné vedecké práce v zahraničných adomáčich recenzovaných časopisoch a zborníkoch (ADC, ADD, ADM, ADN, ADE, ADF, AEC, AED, AFA, AFB, AFC, AFD) a patenty, autorské osvedčenia a objavy (AGJ) spolu <sup>1</sup> , z toho: <i>Original scientific works in foreign and national peer-reviewed journals and conference proceedings (ADC, ADD, ADM, ADN, ADE, ADF, AEC, AED, AFA, AFB, AFC, AFD) and patents, authors' certifications inventions and discoveries (AGJ) total<sup>1</sup>, in that:</i>	15	42
<ul style="list-style-type: none"> <li>• Vedecké práce v karentovaných časopisoch v databáze WOS (ADC, ADD)<sup>1</sup> <i>Original Scientific Works in scientific journals listed in WOS database (ADC, ADD)<sup>1</sup></i></li> </ul>	12	33

<ul style="list-style-type: none"> <li>• Patenty, autorské osvedčenia a objavy<sup>1, 4</sup>  <i>Patents, authors' certifications and inventions and discoveries</i><sup>1, 4</sup></li> </ul>			
Vedecké práce alebo výstupy kategórie A podľa Akreditačnej komisie SR spolu <sup>2</sup> , z toho: <i>Scientific papers or outputs of A category by the Accreditation Commission of the SR total, in that:</i>	6		<b>31</b>
Vedecké práce v časopisoch (databázaWOS, IF $\geq 0,9$ IFM) <sup>3</sup> <i>Scientific works or outputs of A category by the Accreditation Commission of the SR<sup>2</sup>, in that:</i>			
<ul style="list-style-type: none"> <li>• Vedecké práce v časopisoch (databázaWOS, IF <math>\geq 0,9</math> IFM)<sup>3</sup>  <i>Scientific works in journals (listed in WOS database, IF <math>\geq 0,9</math> IF<sub>M</sub>)<sup>3</sup></i></li> </ul>			<b>31</b>
<ul style="list-style-type: none"> <li>• Vedecké monografie kategórie AAA(kategorizácia MŠVVaŠ SR)<sup>1, 4</sup>  <i>Monograph of AAA category (by the categorization of the Ministry of Education of the Slovak Republic)<sup>1, 4</sup></i></li> </ul>			
<ul style="list-style-type: none"> <li>• Kapitoly alebo štúdie kategórie ABA alebo ABC vo vedeckých monografiách vydanýchvo svetovom jazyku<sup>1, 4</sup>  <i>Chapters or scientific studies of ABA or ABC category in scientific monographs published in foreign language<sup>1, 4</sup></i></li> </ul>			<b>3</b>
<ul style="list-style-type: none"> <li>• Preukázzateľne realizované patenty<sup>1, 4</sup>  <i>Demonstratively realized patents<sup>1, 4</sup></i></li> </ul>			
<b>III. Ohlasy na publikačnú činnos</b> <i>Citations and Responses</i>			
Citácie (SCI, SCOPUS, knižné a iné) spolu <sup>1</sup> , z toho Citations (SCI, SCOPUS, book and others) total <sup>1</sup> , in that:	25		<b>756</b>
<ul style="list-style-type: none"> <li>• Citácie registrované vo WOS a SCOPUS  <i>Citations registered in WOS and SCOPUS</i></li> </ul>	25		<b>756</b>
<ul style="list-style-type: none"> <li>• Ostatné neregistrované citá  <i>Other non-registered citations</i></li> </ul>			
<b>IV. Vedecká škola</b> <i>Scientific Background</i>			
<ul style="list-style-type: none"> <li>• CSc. or PhD., Dr., DrSc.  <i>CSc. or PhD., Dr., DSc.</i></li> </ul>	PhD.	PhD.	
<ul style="list-style-type: none"> <li>• Ukončenie výchovy doktorandov  <i>The number of doctoral students who have gained PhD degreee</i></li> </ul>			<b>2</b>
<ul style="list-style-type: none"> <li>• Vedúci grantového projektu  <i>Principal investigator (coordinator) of grant project</i></li> </ul>			<b>1</b>
<ul style="list-style-type: none"> <li>• Spolriešiteľgrantového projektu  <i>Co-investigator of the grant project</i></li> </ul>	3		<b>5</b>

Vysvetlivky *Explanations:*

<sup>1</sup> Počet vedeckých prác je bez prepočítania na počet autorov. Rovnako sa neprepočítavajú na počet autorov citácie, patenty a monografie/kapitoly v monografii.

*The number of scientific works is without recalculation to the number of authors. They are also not recalculated for the number of authors of citations, patents and monographs / chapters in the monograph.*

<sup>2</sup> V prípade najmenej 20 výstupov kategórie A nie je potrebné splniť podmienku počtu 30 vedeckých prác v karentovaných časopisoch v databáze WOS.

*In the case of at least 20 Category A outputs, it is not necessary to meet the condition of the number of 30 scientific papers in the journals in the WOS database.*

<sup>3</sup> 0,9 IFM je pre chemické vedy a pre biotechnológie 1,00.

*0,9 IF<sub>M</sub> is for chemical sciences and 1,00 IF<sub>M</sub> is for biotechnologies.*

<sup>4</sup> Zohľadnenie výstupov vo forme monografií/kapitol v monografiách a patentoch:

*Consideration of scientific outputs in the form of monographs / chapters in monographs and patents:*

- Monografia/ kapitola vo vedeckej monografii môže nahradíť najviac tri/jednu vedeckú prácu, podľa rozsahu a vydavateľstva.  
*A monograph / chapter in a scientific monograph may replace a maximum of three / one scientific papers, depending on the scope and publishing house.*
- Každý prijatý európsky alebo svetový patent je ekvivalentný 10% odporúčaného počtu vedeckých prác v časopisoch s rovnakým alebo vyšším IF ako je požadované.  
*Each European or world patent received is equivalent to 10% of the recommended number of scientific papers in journals with the same or higher IF than required.*
- Každý preukázateľne realizovaný patent je ekvivalentný 20% odporúčaného počtu vedeckých prác v časopisoch s rovnakým alebo vyšším IF ako je požadované.  
*Each demonstrably realized patent is equivalent to 20% of the recommended number of scientific papers in journals with the same or higher IF than required.*

## A. PUBLICATION ACTIVITIES

### Master and PhD thesis

1. **A. H. Pakseresht**, Investigating slurry composition (in investment casting) associated with surface quality & turbine blade defects, Iran, 2005, 120 Pages, Supervisor: Prof. A. Halvaei and Dr. H. Mehrabi.
2. **A. H. Pakseresht**, The effect of individual splat morphology on the micro-structure, physical and mechanical properties of plasma sprayed barium titanate film, Iran, 2015, 200 Pages, Prof. M. R. Rahimipour, Dr. M.R. Vaezi and Prof. M. Salehi.

### ACA (*University textbooks published in foreign publishing houses*): 1

1. **A. H. Pakseresht**, Editor of "Production, Properties, and Applications of High Temperature Coatings" IGI Global, USA, pp.,1-557, 2018.

### ABA (*Chapters in scientific monographs published in foreign publishing houses*): 3

1. **A. H. Pakseresht**, M. R. Rahimipour, M. Alizadeh, S. M. M. Hadavi "Concept of advanced thermal barrier functional coatings in high temperature engineering components" IGI Global, 2016, USA, pp. 396-419.
2. A. Hasanzadeh, M. Saremi, **A. H. Pakseresht**, E. Ghasali "Investigation on improved-durability thermal barrier coatings- an overview of nanostructured, multilayered and self-healing TBCs" IGI Global, 2018 ,USA, pp. 20-30. Chapter 3.
3. **A. H. Pakseresht**, et al. " Oxidation-Protective Coatings for Carbon-Carbon Composites" IGI Global, 2016 ,USA, 250-260. Chapter 16.

### ADC (Scientific works in foreign journals registered in Current Contents): 33

1. **A. H. Pakseresht**, S. M. Mousavi, M. Saremi, E. Ghasali, Microstructure and mechanical properties of YSZ-alumina composites designed for thermal barrier coatings, Materials at high temperature, vol.38, pp.23-30,2021. (IF= 1.38)
2. F. Sharifianjazi, A. Esmaeilkhanian, M. Moradi, **A. H. Pakseresht**, M. Shahedi Asl, H. Karimi-Maleh, Ho Won Jang, M. Shokouhimehr, R. S. Varma, Biocompatibility and mechanical properties of pigeon bone waste extracted natural nano-hydroxyapatite for bone tissue engineering, Materials Science and Engineering: B, vol. 264, 2021. (IF= 4.7)
3. A. Abuchenari, F. Sharifianjazi, **A. H. Pakseresht**, M. Pudineh, A. Esmaeilkhanian, Effect of aluminum on microstructural and magnetic properties of nanostructured (Fe85Ni15)97Al3 alloy produced via mechanical alloying, Advanced Powder Technology, 2021, accepted. (IF= 4.2)

4. A. H. Pakseresht, A. Kimiayi, M. Alizadeh, H. Nuranian, A. Faeghinia Microstructural study and Hot Corrosion Behavior of Bimodal Thermal Barrier,Ceramic International, vol., 46, pp. 19217-19227, 2020. (IF= 3.8)
5. R. Sayyad, M. Ghambari, T. Ebadzadeh , A. H. Pakseresht, E. Ghasali, Preparation of Ag/reduced graphene oxide reinforced copper matrix composites through spark plasma sintering: An investigation of microstructure and mechanical properties. Ceramic international, vol. 46, pp. 13569-13579, 2020. (IF= 3.8)
6. F. Jazi , M. Moradi, N. Parvin, A. Nemat, A. H. Pakseresht. et al. Magnetic CoFe2O4 nanoparticles doped with metal ions: A review, Ceramic international, vol. 46, pp. 18391-18412, 2020. (IF= 3.8)
7. F. Jazi, M. Shahedi Asl, A. H. Pakseresht. et al. Effects of Sr and Mg dopants on biological and mechanical properties of SiO<sub>2</sub>-CaO-P<sub>2</sub>O<sub>5</sub> bioactive glass, ceramic international, vol.46, pp. 22674-22682, 2020. (IF= 3.8)
8. V. Tavakoli Targhi, H. Omidvar, F. Sharifianjazi, A. H. Pakseresht, Hot corrosion behavior of aluminized and Si-modified aluminized coated IN-738LC produced by a novel hot-dip process, Surfaces and Interfaces, vol. 21, 2020, 100599. (IF= 3.72)
9. S. Abbaszadeh, A. H. Pakseresht, H. Omidvar, A. Shafiei,, Investigation of the High-Temperature Oxidation Behavior of the Al0.5CoCrFeNi High Entropy Alloy, Surfaces and Interfaces, vol. 21, 2020,pp. 100724. (IF= 3.72)
10. A. H. Pakseresht \*, M. Saremi, H. Omidvar, M. Alizadeh, Micro-structural study and wear resistance of thermal barrier coating reinforced by alumina whisker, Surface and coating technology, vol. 366, pp. 338-348, 2019. (IF= 3.78)
11. K. Shirvanimoghaddam, E. Ghasali, A. H. Pakseresht, SMR. Derakhshandeh, M. Alizadeh, T. Ebadzadeh, M. Naebe, Super hard carbon microtubes derived from natural cotton for development of high performance titanium composites, Journal of Alloys and Compounds, vol. 775, pp. 601-616, 2019. (IF= 4.6)
12. Derakhshandeh, A.H. Pakseresht et al. Comparison of spark plasma and microwave sintering of mullite based composite: mullite/Ta<sub>2</sub>O<sub>5</sub> reaction, Ceramic International, vol. 44, pp.13176-13181, 2018. (IF= 3.8)
13. A. Jam, S. Derakhshandeh, H. Rajaei, A. H. Pakseresht\*, Evaluation of microstructure and electrochemical behavior of dual-layer NiCrAlY/mullite plasma sprayed coating on high silicon cast iron alloy, Ceramic International, vol 43, pp 14146-14155, 2017. (IF= 3.8)
14. K. Shirvanimoghaddam, A. H. Pakseresht, et. al, Review: Carbon fiber reinforced metal matrix composites: Fabrication processes and properties, Composites Part A: Applied Science and Manufacturing, vol. 92, pp 70-96, 2017. (IF= 6.4)
15. E. Ghasali, K. Shirvanimoghaddam, A. H. Pakseresht, M. Alizadeh, , T.E badzadeh, Vanadium carbide reinforced aluminum matrix composite prepared by conventional, microwave and spark plasma sintering, Evaluation of microstructure and mechanical properties of Al-TaC composites prepared by spark plasma sintering process, Journal of Alloys and Compounds, vol. 705, pp 283-289, 2017. (IF= 4.6)
16. E. Ghasali, M. Alizadeh, A. H. Pakseresht, T.E badzadeh, Preparation of silicon carbide/carbon fiber composites through high-temperature spark plasma sintering, Journal of Asian Ceramic Societies, Vol. 5, pp. 472-478, 2017. (IF= 2.6)
17. A. H. Pakseresht, A. H. Javadi, M.Bahrami, A.Simchi, Spark plasma sintering of a multilayer thermal barrier coating on Inconel 738 superalloy: Microstructural development

- and hot corrosion behavior, Ceramic International, vol. 42, No. 2, pp. 2770-2779, 2016. (IF= 3.8)
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## B. PROFESSIONAL ACTIVITIES

### Citations and responses

**Table1:** Summary of the number of citations based on Scopus website AU-ID ("Pakseresht, Amir Hossein" 56072017500 )

<b>Citations in Scopus</b>	1051	948 (exclude self citations)	754 (exclude self citations of all authors)
<b>h-index</b>	18	17	13

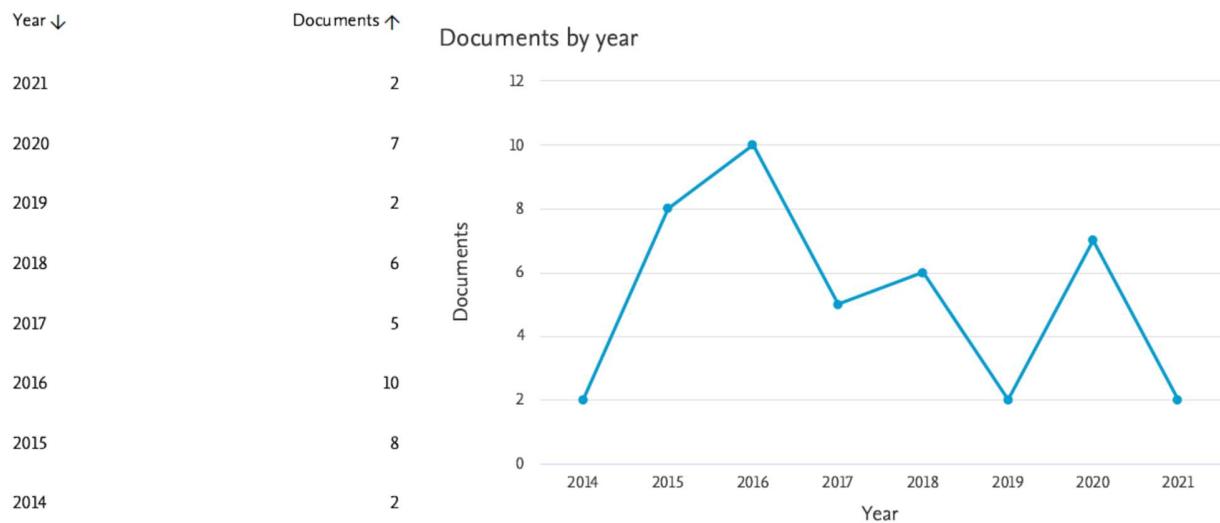
### Analyze of research results from 2014 to February. 2021

**Source:**<https://www.scopus.com/term/analyzer.uri?sid=15693338d0405d494dd84463c6ceca42&origin=resultslist&src=s&s=AU-ID%28%22Pakseresht%2c+Amir+Hossein%22+56072017500%29&sort=plff&sdt=aut&sot=anl&sl=45&count=42&analyzeResults=Analyze+results&txGid=fed43ed243288e77a5c2686232453317>

AU-ID ("Pakseresht, Amir Hossein" 56072017500 )

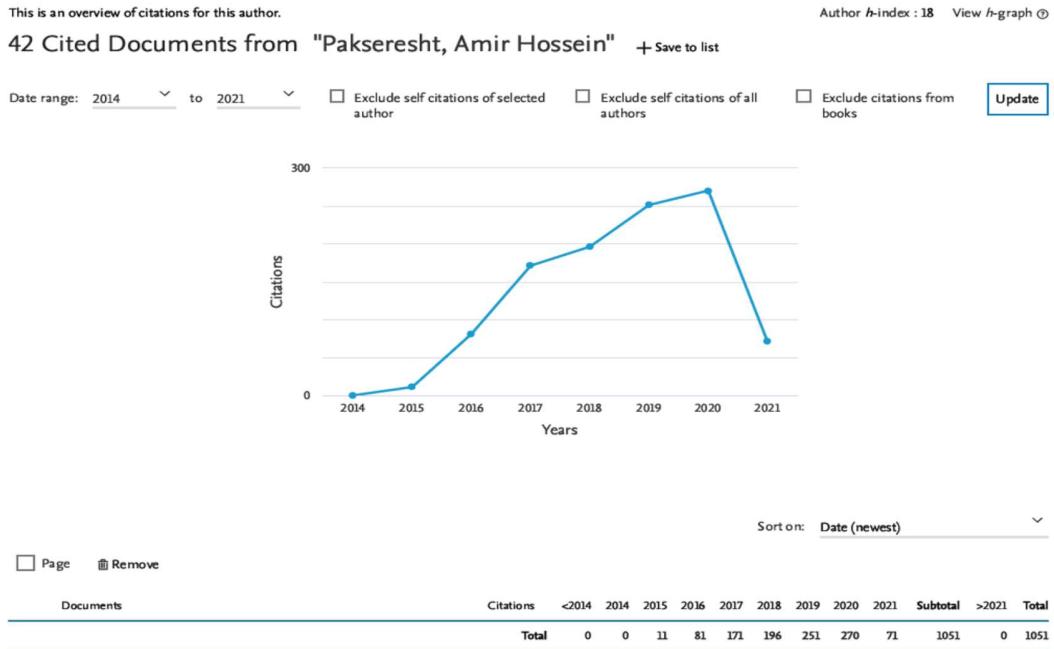
42 document results

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## Citation overview analysis

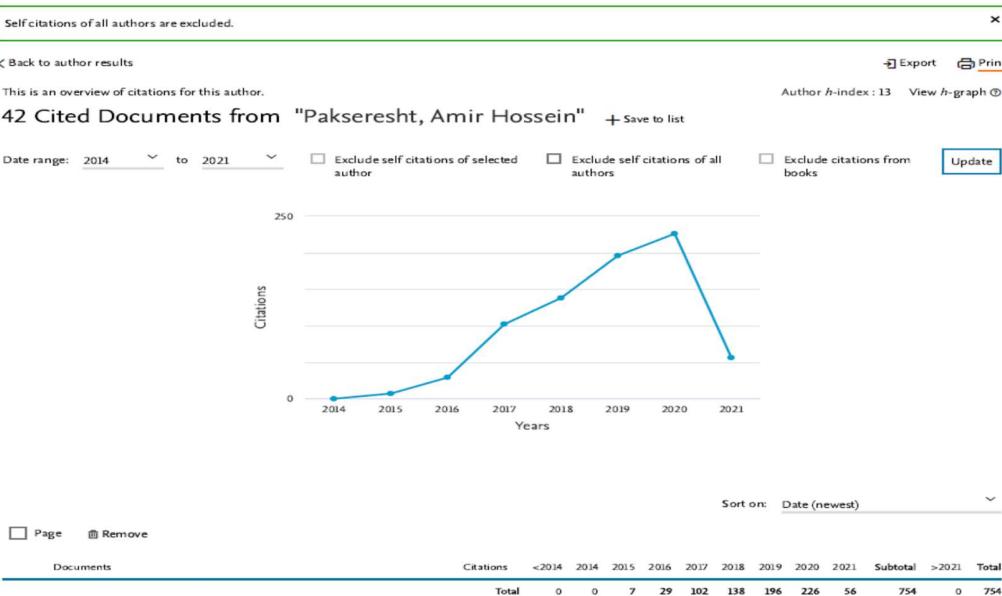
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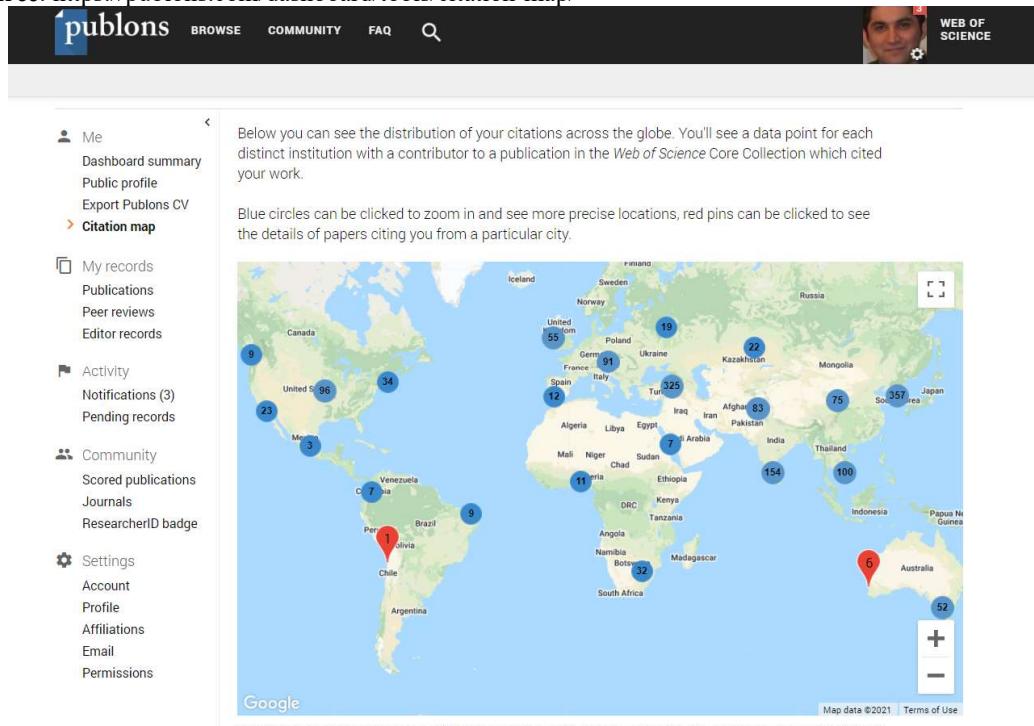
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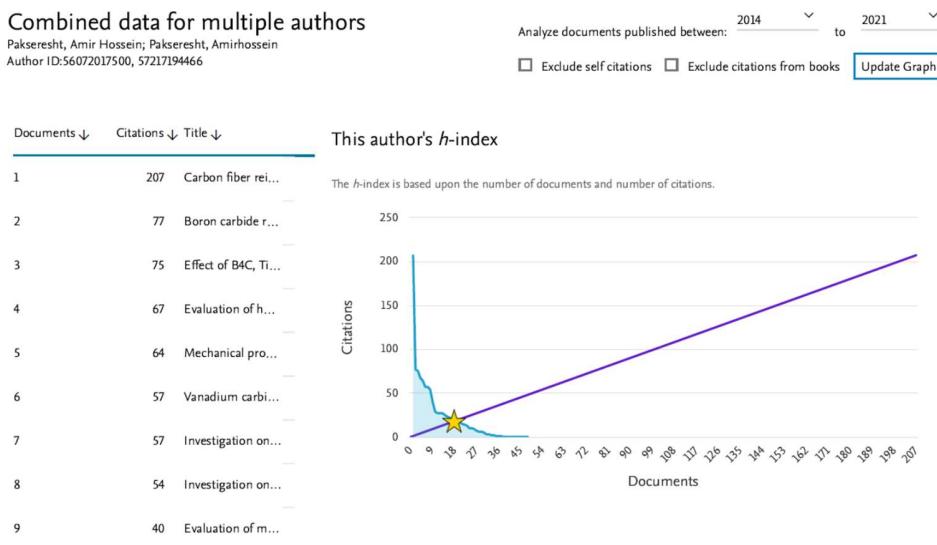
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City	Date	Name and Title
Trenčín	05.05.2021	Dr. Amirhossein Pakseresht, Ph.D

## C. PROJECT ACTIVITIES

1. New Thermal barrier coatings, iran and School of Metallurgy and Materials Engineering, Faculty of Engineering, University of Tehran, 2016-2018. Main investigator: A. H. Pakseresht, Funded by Iran National Science Foundation, Iran.
2. Ceramic roadmap, Main investigator: Prof. Rahimipour, Materials and Energy Research Center, 04.2012-12.2012, member of research team.
3. Effect of amount of reinforcement on microstructure and mechanical properties of Aluminum-Matrix composites with nano SiC reinforcement, Main investigator: Dr. Yazdanirad, Materials and Energy Research Center, 08.2012-04.2015, member of research team.
4. Development technical knowledge and construction of Al/SiC composite by injection molding method, Main investigator: Dr. Alizadeh, Materials and Energy Research Center, 05.2011-01.2013, member of research team.
5. Developing technical knowledge and magnetite construction enhanced with aluminum, potassium and calcium oxides for ammonia synthesis. Main investigator: Dr. Yazdanirad, Materials and Energy Research Center, 04.2012-11.2013, member of research team.
6. Construction of 50 liters of soldering flux for Hedayat Noor Company, Materials and Energy Research Center, 04.2012-06.2012, member of research team.

City	Date	Name and Title
Trenčín	05.05.2021	Dr. Amirhossein Pakseresht, Ph.D

## V. SCIENTIFIC EDUCATION

I have two master and five PhD., students, among them all master and two of PhD students defended their thesis successfully. The details are as follows:

**Table 2.** Details of PhD and Master Students

Name of student	PhD/Master	Topic	Year of Defence
O. Ashrafiyan	Master	Fabrication and evaluation of nanocomposite hydroxyapatite/silica coating on titanium by atmospheric plasma spray method and investigation of its effective parameters	2018
M. Sarmast	Master	Protect carbon-carbon composite against oxidation through coating silicon carbide and zirconia	2016
R. Mirzajani	PhD	Investigation of the effect of alumina fibers on durability of YSZ nanocomposite thermal barrier coating	2018
R. Sayad	PhD	Investigation of physical and mechanical properties of copper-graphene composite synthesized by spark plasma method	2020
M. Hasanzadeh	PhD	Creating self-healing thermal barrier coating with SiC nano-particles and investigation of its thermal and mechanical properties	Not finished
M. Alebrahim	PhD	Microstructural study and thermal shock behavior of thermal barrier coating reinforced with YSZ fiber	Not finished

City	Date	Name and Title
Trenčín	05.05.2021	Dr. Amirhossein Pakseresht, Ph.D

## **VI. OTHER PROFESSIONAL ACTIVITIES:**

I am member of editorial board and reviewer of more than 15 international scientific journals. The details are as follow:

- Topic editor for Frontiers in Materials Journal (<https://loop.frontiersin.org/people/900815/overview>)
- Journal topics board for ceramic (MDPI) ([https://www.mdpi.com/journal/ceramics/topic\\_editors](https://www.mdpi.com/journal/ceramics/topic_editors))
- Editor for journal of composite and compound (<https://www.jourcc.com/index.php/jourcc>)
- Best reviewer for Journal of Thermal spray, 2018.

**Table 3.** Details of Review for International Journals

Name of Journal	Tiems
Journal of Thermal Spray Technology	15
Ceramics International	11
Surface and Coatings Technology	8
International Journal of Applied Ceramic Technology	4
Journal of Alloys and Compounds	4
Journal of Composites and Compounds	3
Journal of the European Ceramic Society	2
Surface Review and Letters	2
Advanced Ceramics Progress	1
Applied Surface Science	1
Journal of Materials Engineering and Performance	1
Journal of Materials Science & Technology	1
Journal of the American Ceramic Society	1
Materialwissenschaft und Werkstofftechnik	1
Rare Metals	1

## Review details based on publons data

Source: <https://publons.com/dashboard/summary/>

Amirhossein Pakseresht  
Head of Coating Department - Funglass, Alexander Dubcek University Trenčín

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS
39	903	17 <sup>®</sup>	53

**Verified reviews** <sup>®</sup>

(13) Journal of Thermal Spray Technolo... <small>WOS</small>	(11) Ceramics International <small>WOS</small>
(8) Surface and Coatings Technology <small>WOS</small>	(4) International Journal of Applied Cer... <small>WOS</small>
(4) Journal of Alloys and Compounds <small>WOS</small>	(3) Journal of Composites and Compounds
(2) Journal of the European Ceramic So... <small>WOS</small>	(2) Surface Review and Letters <small>WOS</small>
(1) Advanced Ceramics Progress	(1) Applied Surface Science <small>WOS</small>
(1) Journal of Materials Engineering an... <small>WOS</small>	(1) Journal of Materials Science & Tech... <small>WOS</small>
(1) Journal of the American Ceramic So... <small>WOS</small>	(1) Materialwissenschaft und Werkstoff... <small>WOS</small>

Showing 14

## Review details based on publons data

VERIFIED REVIEWS    VERIFIED REVIEWS (LAST 12 MONTHS)    REVIEW TO PUBLICATION RATIO

53    Median: 3 96th percentile	26    Median: 1 99th percentile	1.4:1    Median: 0.3:1
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Reviews per month

Month

Reviews per month chart (approximate data):

Month	Reviews
Aug 2016	2
Oct 2016	1
Dec 2016	1
Feb 2017	1
Apr 2017	1
Jun 2017	1
Aug 2017	3
Oct 2017	1
Feb 2018	2
Apr 2018	2
Jun 2018	1
Aug 2018	2
Oct 2018	1
Dec 2018	3
Feb 2019	2
Apr 2019	3
Jun 2019	6
Aug 2019	2
Oct 2019	3
Dec 2019	2
Feb 2020	4
Apr 2020	3
Jun 2020	1
Aug 2020	1
Oct 2020	1
Dec 2020	4
Feb 2021	1

City	Date	Name and Title
Trenčín	05.05.2021	Amirhossein Pakseresht, Ph.D

## **DECLARATION**

I declare that the information provided in this document is true.

Place, date, your full name with titles

City	Date	Name and Title
Trenčín	05.05.2021	Dr. Amirhossein Pakseresht, Ph.D