

# CURRICULUM VITAE



## Personal information

- **Personal**
  - Prof Hichem FARH
  - Professor, Material Science's department, University of Oum El Bouaghi, Algeria.
  - E-mail: farhichem@gmail.com
  - Mobile: +213670262632
- **Researcher identity**
  - Google Scholar: <https://scholar.google.fr/citations?user=jABrxgkAAAAJ&hl=fr>
  - ReaserchGate: <https://www.researchgate.net/profile/Hichem-Farh>
  - ORCID: <https://orcid.org/0000-0002-3660-4792>

## Education

- **Ph.D.'s degree** Materials physics
- **Master's degree** in Materials physics
- **License's degree** in Materials physics

## Functions and Affiliations

- **Professor of physics**
- **Vice Dean of the College of Exact Sciences**

## Teaching modules

- ✓ Defect in solids
- ✓ Research Methodology
- ✓ Semiconductor physics
- ✓ Ethics and University Deontology
- ✓ Physic 1 (Point mechanics)
- ✓ Physic 2 (Electricity)
- ✓ Fluid mechanics
- ✓ Acoustic Physics

## International publications

**Publications internationales**

<b>Titre de l'article</b>	<b>Position de l'auteur</b>	<b>Titre de la revue ou nom du journal</b>	<b>Année</b>	<b>Adresse URL</b>
1. Effect of doping with manganese and zinc on the structural, morphological, optical and photocatalytic properties of NiO	03	Appl. Phys. A	2022	<a href="https://doi.org/10.1007/s00339-022-06002-0">https://doi.org/10.1007/s00339-022-06002-0</a>
2. INFLUENCE OF SURFACE RECOMBINATION AND THE LIFE TIME OF MINORITY CARRIERS ON THE CHARACTERISTICS OF MESFET (OPFET) GAN	03	Optik	2021	<a href="https://doi.org/10.1016/j.jleo.2021.166479">https://doi.org/10.1016/j.jleo.2021.166479</a>
3. Thickness Effect of ZnO film on the Performance of Photocatalytic in a p-NiO/n-ZnO Heterostructure Under Solar Light Irradiation		Journal of Nano Research	2020	<a href="https://www.scientific.net/JNanoR.62.87">https://www.scientific.net/JNanoR.62.87</a>
4. The Cold Rolling Effect on the Precipitation Sequence and Microstructural Changes of an Al-Mg-Si Alloy	01	Defect and Diffusion Forum	2019	<a href="https://www.scientific.net/DDF.397.51">https://www.scientific.net/DDF.397.51</a>
5. The Cold Rolling Effects on the Microstructure and Micro-Hardness of Al-Mg-Si Alloy	01	Diffusion Foundations	2018	<a href="https://www.scientific.net/DF.18.14">https://www.scientific.net/DF.18.14</a>
6. Study of dispersoid particles in two Al-Mg-Si aluminium alloys and their effects on therecrystallization	01	Applied Physics A, Materials Science & Processing	2015	<a href="https://doi.org/10.1007/s00339-014-8963-5">https://doi.org/10.1007/s00339-014-8963-5</a>
7. Effect of Heat Treatment on the Formation and Distribution of Dispersoid Particles in AlMgSi	01	Global Journal of Science Frontier Research	2012	<a href="https://journalofscience.org/index.php/GJSFR/article/view/363/327">https://journalofscience.org/index.php/GJSFR/article/view/363/327</a>
8. Nucleation of Dispersoids study in some AlMgSi Alloys	01	Annale de Chimie .Sciences des Matériaux	2010	<a href="https://pascal-francis.inist.fr/vibad/index.php?action=getRecordDetail&amp;lang=fr&amp;idt=24077112">https://pascal-francis.inist.fr/vibad/index.php?action=getRecordDetail&amp;lang=fr&amp;idt=24077112</a>
9. Precipitation hardening and aging behavior in two Al-Mg-Si alloys	01	Fundamental Journal of Thermal Science and Engineering	2011	<a href="https://frdint.com/precipitation_hardenig_and_aging_behavior_in_two_al_mg_si_alloys.html">https://frdint.com/precipitation_hardenig_and_aging_behavior_in_two_al_mg_si_alloys.html</a>
10.Effects of deformation ratio on the Mechanical Properties and Microstructures changes in an Al-Mg-Si Alloy	01	Turkish Journal of Physics	2010	<a href="https://dergipark.org.tr/tr/download/article-file/130631">https://dergipark.org.tr/tr/download/article-file/130631</a>

<b>11.</b> Study of Precipitation Hardening in Two Al-Mg-Si Alloys with and without Copper and Excess Silicon Using Kissinger and Boswell Methods	02	Defect and Diffusion Forum	2019	<a href="https://www.scientific.net/DDF.397.101">https://www.scientific.net/DDF.397.101</a>
<b>12.</b> Structural Properties of 300 Å of Iron Films Grown on Polycrystalline Substrate	02	Defect and Diffusion Forum	2019	<a href="https://www.scientific.net/DDF.397.69">https://www.scientific.net/DDF.397.69</a>
<b>13.</b> Modelisation and Simulation of Cgs.op and Cgd.op Capacities of GaAs MESFETs OPFET	02	Solid State Phenomena	2019	<a href="https://www.scientific.net/SSP.297.105">https://www.scientific.net/SSP.297.105</a>
<b>14.</b> Photocatalytic Degradation of Methylene Blue by NiO Thin Films under Solar Light Irradiation	02	Journal of Nano Research	2019	<a href="https://www.scientific.net/JNanoR.56.152">https://www.scientific.net/JNanoR.56.152</a>
<b>15.</b> Study of mechanical properties and precipitation reactions in low copper containing Al-Mg-Si alloy	02	archives of metallurgy and materials	2018	<a href="http://www.imim.pl/files/archiwum/Vol4_2018/10.pdf">http://www.imim.pl/files/archiwum/Vol4_2018/10.pdf</a>
<b>16.</b> Effect of Natural and Artificial Aging on the Mechanical Properties of Two Al-Mg-Si Alloys	02	International Journal of Engineering Research in Africa	2017	<a href="https://www.scientific.net/JERA.28.1">https://www.scientific.net/JERA.28.1</a>
<b>17.</b> The microstructure development during isothermal heat treatment study of an Al-Mg-Si aluminium alloy	02	Acta Metallurgica Slovaca	2016	<a href="http://www.qip-journal.eu/index.php/ams/article/view/697">http://www.qip-journal.eu/index.php/ams/article/view/697</a>
<b>18.</b> Effect of Immersion Time on the Structural and Optical Properties of Tin Oxide Thin Films Obtained by Sol Gel Dip Coating Method	03	Defect and Diffusion Forum	2019	<a href="https://www.scientific.net/DDF.397.8">https://www.scientific.net/DDF.397.8</a>
<b>19.</b> Obtaining Directly Quasi-Square Open Ring FSS Constitutive Effective Parameters by Using Coupled WCIP-Retrieval Method	03	Defect and Diffusion Forum	2019	<a href="https://www.scientific.net/DDF.397.187">https://www.scientific.net/DDF.397.187</a>
<b>20.</b> Influence of Aging Treatments on the Structural and Mechanical Properties of AGS Alloy Wire Cold Drawn	03	Diffusion Foundations	2018	<a href="https://www.scientific.net/DF.18.73">https://www.scientific.net/DF.18.73</a>
<b>21.</b> Microstructural Evolution and Mechanical Properties during Homogenization and ageing Treatment of Al-Mg-Si Alloy Wire Cold Drawn	03	International Journal of Engineering Research in Africa	2018	<a href="https://www.scientific.net/JERA.36.60">https://www.scientific.net/JERA.36.60</a>
<b>22.</b> Deformation and recrystallised texture evolution and the followed Mechanical and electrical Properties of drawn and annealed copper wires	03	International Journal of Engineering Research in Africa	2017	<a href="https://www.scientific.net/JERA.31.20">https://www.scientific.net/JERA.31.20</a>
<b>23.</b> Effect of Withdrawal Speed on the Structural, Optical and	03	International Journal of	2017	<a href="https://www.scientific.net/JERA.31.29">https://www.scientific.net/JERA.31.29</a>

Morphological Properties of NiO Thin Films Obtained by Sol-Gel Dip Coating Method		Engineering Research in Africa		
24. Study of texture, mechanical and electrical properties of cold drawn AGS alloy wire	03	Steel and Composite Structures	2016	<a href="http://dx.doi.org/10.12989/scs.2016.22.4.745">http://dx.doi.org/10.12989/scs.2016.22.4.745</a>
25. Effects of Cellulosic and Basic Flux on the Structure, Composition and Hardness of SMAW Welds on Steel X42	03	International Journal of Engineering Research in Africa	2016	<a href="https://www.scientific.net/JERA.27.11">https://www.scientific.net/JERA.27.11</a>
26. Microstructural evolution as well as mechanical and electrical properties of AA 6101 wire during recrystallization annealing treatment	03	Proceeding METAL 2017 Brno, Czech Republic, EU, (indexed by: Thomson Reuters /Scopus -Elsevier)	2017	<a href="https://www.confer.cz/metal/2017/1621-microstructural-evolution-and-mechanical-and-electrical-properties-of-aa-6101-wire-during-recrystallization-annealing-treatment">https://www.confer.cz/metal/2017/1621-microstructural-evolution-and-mechanical-and-electrical-properties-of-aa-6101-wire-during-recrystallization-annealing-treatment</a>
27. The study of the miniaturisation effect on the characteristics of patch antenna using the WCIP method	03	Journal of New Technology and Materials	2014	<a href="https://sites.google.com/site/jntmjournals/55ziar">https://sites.google.com/site/jntmjournals/55ziar</a>
28. Study of mechanical and electrical properties of AlMgSi alloys	03	Annale de Chimie. Sciences des Matériaux	2010	<a href="https://pascal-francis.inist.fr/vibad/index.php?action=getRecordDetail&amp;idt=22689510">https://pascal-francis.inist.fr/vibad/index.php?action=getRecordDetail&amp;idt=22689510</a>
29. Effect Of Cold Deformation And Annealing Phenomena On The Microstructural Changes And Micro-Hardness In Al-Mg-Si Aluminium Alloys	04	Acta Metallurgica Slovaca	2020	<a href="https://doi.org/10.36547/ams.26.3.585">https://doi.org/10.36547/ams.26.3.585</a>
30. Growth of ZnO Nanorods by Template-Free Sol-Gel Dip-Coating Technique: Effect of Pre-Annealing Temperature	04	Defect and Diffusion Forum	2019	<a href="https://www.scientific.net/DDF.397.111">https://www.scientific.net/DDF.397.111</a>
31. Modeling and Simulation of Phase Change Materials: Application to Building with Low Energy Consumption	04	Solid State Phenomena	2019	<a href="https://www.scientific.net/SSP.297.187">https://www.scientific.net/SSP.297.187</a>
32. Effect of Nickel Addition Study on the Mechanical Properties of the (Fe <sub>3</sub> C-Ni) Alloy Obtained by Solid Phase Compaction and Sintering	04	International Journal of Engineering Research in Africa	2017	<a href="https://www.scientific.net/JERA.32.18">https://www.scientific.net/JERA.32.18</a>

<p><b>33.</b>Multi-scale analysis by EBSD, X-ray diffraction and neutron diffraction of microstructure and texture of Al-Mg-Si aluminum alloy wires drawn and annealed</p>	04	<p>Proceeding METAL 2018 Brno, Czech Republic, EU, (indexed by: Thomson Reuters /Scopus -Elsevier)</p>	2018	<p><a href="https://www.confer.cz/metal/2018/1010-multi-scale-analysis-by-ebbsd-x-ray-diffraction-and-neutron-diffraction-of-microstructure-and-texture-of-ags-aluminum-alloy-wires-drawn-and-annealed">https://www.confer.cz/metal/2018/1010-multi-scale-analysis-by-ebbsd-x-ray-diffraction-and-neutron-diffraction-of-microstructure-and-texture-of-ags-aluminum-alloy-wires-drawn-and-annealed</a></p>
<p><b>34.</b>Annealing effect at low temperature on the evolution of the microstructure, mechanical and electrical properties of a drawn aluminum wire</p>	04	<p>Proceeding METAL 2016 Brno, Czech Republic, EU, (indexed by: Thomson Reuters /Scopus -Elsevier)</p>	2016	<p><a href="https://www.confer.cz/metal/2016/1958-annealing-effect-at-low-temperature-on-the-evolution-of-the-microstructure-and-mechanical-and-electrical-properties-of-a-drawn-aluminum-wire">https://www.confer.cz/metal/2016/1958-annealing-effect-at-low-temperature-on-the-evolution-of-the-microstructure-and-mechanical-and-electrical-properties-of-a-drawn-aluminum-wire</a></p>
<p><b>35.</b>Mechanical Behavior And Texture Evolution Study Of Medium Carbon Steel Wires During Industrial Wire-Drawing Process</p>	05	<p>Proceeding METAL 2019 Brno, Czech Republic, EU, (indexed by: Thomson Reuters /Scopus -Elsevier)</p>	2019	<p><a href="https://www.confer.cz/metal/2019/683-mechanical-behavior-and-texture-evolutionstudyof-medium-carbon-steel-wires-during-industrial-wire-drawing-process">https://www.confer.cz/metal/2019/683-mechanical-behavior-and-texture-evolutionstudyof-medium-carbon-steel-wires-during-industrial-wire-drawing-process</a></p>
<p><b>36.</b>Microstructural Evolutions and Mechanical Properties of Drawn Medium Carbon Steel Wire</p>	05	<p>International Journal of Engineering Research in Africa</p>	2019	<p><a href="https://doi.org/10.37904/metal.2019.683">https://doi.org/10.37904/metal.2019.683</a></p>
<p><b>37.</b>Study of Microstructural and Mechanical behavior of Mild Steel Wires Cold Drawn at TREFISOUD</p>	05	<p>International Journal of Engineering Research in Africa</p>	2018	<p><a href="https://www.scientific.net/JERA.36.53">https://www.scientific.net/JERA.36.53</a></p>
<p><b>38.</b>Statistical Distribution Analysis of Mechanical Properties of a Welded Pipeline Steel API X70 and Correlation between Hardness and other Mechanical Characteristics</p>	05	<p>International Journal of Engineering Research in Africa</p>	2017	<p><a href="https://www.scientific.net/JERA.30.49">https://www.scientific.net/JERA.30.49</a></p>
<p><b>39.</b>ZnO Nanorods Prepared by Ultrasonic Spray Pyrolysis: Effect of Deposition Time on the Structural Morphological and Optical Properties</p>	06	<p>Defect and Diffusion Forum</p>	2019	<p><a href="https://www.scientific.net/DDF.397.88">https://www.scientific.net/DDF.397.88</a></p>
<p><b>40.</b>TB-mBJ Calculations of Structural and Optoelectronic Properties of the</p>	06	<p>Solid State Phenomena</p>	2019	<p><a href="https://www.scientific.net/SSP.297.165">https://www.scientific.net/SSP.297.165</a></p>

Rhombohedral Phase of Bismuth Sodium Titanate (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub>				
<b>41.</b> Property Evaluation of Nitrided Layers of Porous Sintered Iron	06	International Journal of Engineering Research in Africa	2017	<a href="https://www.scientific.net/JERA.32.11">https://www.scientific.net/JERA.32.11</a>
<b>42.</b> The Influence of Aging on Industrially Cold Drawn Aluminum Alloy (6101) Used in the Electric Transmission Lines	07	International Journal of Engineering Research in Africa	2016	<a href="https://www.scientific.net/JERA.24.9">https://www.scientific.net/JERA.24.9</a>
<b>43.</b> Structural and Anisotropic Elastic Properties of Hexagonal YMnO <sub>3</sub> in Low Symmetry Determined by First-Principles Calculations	08	Solid State Phenomena	2019	<a href="https://www.scientific.net/SSP.297.120">https://www.scientific.net/SSP.297.120</a>
<b>44.</b> Industrial Processes of Multi-Material Assembly: Published by TRANS TECH PUBLICATIONS LTD	2	Solid State Phenomena	2019	<a href="https://main.scientific.net/book/industrial-processes-of-multi-material-assembly/978-3-0357-3570-3/ebook">https://main.scientific.net/book/industrial-processes-of-multi-material-assembly/978-3-0357-3570-3/ebook</a>
<b>45.</b> Study and Characterization of Alloys and Materials: Published by TRANS TECH PUBLICATIONS LTD	2	Defect and Diffusion Forum	2019	<a href="https://main.scientific.net/book/study-and-characterization-of-alloys-and-materials/978-3-0357-3571-0/ebook">https://main.scientific.net/book/study-and-characterization-of-alloys-and-materials/978-3-0357-3571-0/ebook</a>
<b>46.</b> Functional Materials: Technological Aspects of Production and Processing: Published by TRANS TECH PUBLICATIONS LTD	3	Diffusion Foundations	2018	<a href="https://main.scientific.net/book/diffusion-foundations-vol-18/978-3-0357-3359-4/ebook">https://main.scientific.net/book/diffusion-foundations-vol-18/978-3-0357-3359-4/ebook</a>

## Interests and Qualifications

— **Interests:** Sports - scientific research - reading