

# Assist. Prof. Dr. Tolga Tavşanoğlu

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## Education

PhD – MINES ParisTech (École Nationale Supérieure des Mines de Paris), Materials Engineering, 2009

PhD – Istanbul Technical University, Materials Engineering, 2009

MSc – Istanbul Technical University, Materials Engineering, 2001

BSc – Istanbul Technical University, Metallurgical and Materials Engineering, 1998

## Research Interests

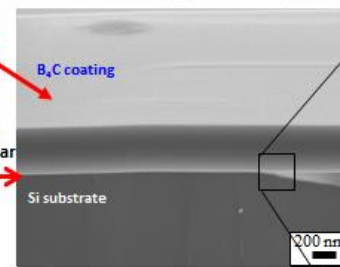
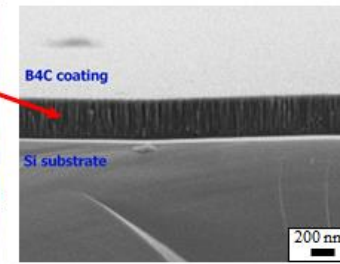
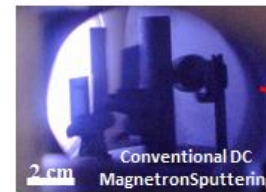
Surface Engineering, Thin Films and Coatings, Vacuum and Plasma Processing, Nanostructured Materials, Hard and Superhard Materials, Nanomechanics and Tribology, Surface and Interface Characterization

## Selected Publications

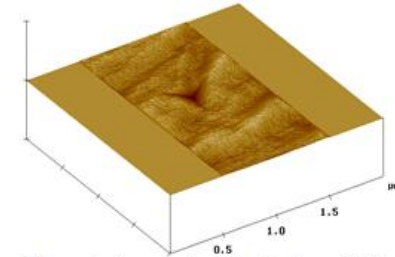
- T. Tavşanoğlu, E. Ozkan Zayim, O. Agirseven, Y. Saffettin, O. Yucel (2019), Optical, electrical and microstructural properties of SiC thin films deposited by reactive DC magnetron sputtering, *Thin Solid Films*, 674, 1-6.
- T. Tavşanoğlu (2017), Synthesis of c-axis oriented AlN thin films at room temperature, *Surface Engineering*, 33 (4), 249-254.

## Selected Projects

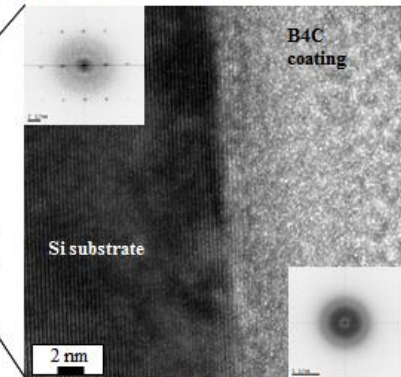
- Synthesis and characterization of ordered-nanoporous TiO<sub>2</sub> coatings by combined sol-gel spin and dip coating techniques, BAP R&D Project, 2017 – continuing
- Synthesis and Characterization of SiO<sub>2</sub> Thin Films by Sol-gel Technique, BAP Research Project, 2014-2016.



SEM of columnar and non-columnar B<sub>4</sub>C thin films



AFM coupled nanoindentation, hardness ~40 Pa



High resolution TEM  
Nanostructure of interface and amorphous B<sub>4</sub>C coating