



Volodymyr Volchuk



About me

Doctor of science, professor of Material Science and Treatment Department
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Education

Dnipropetrovsk State University (Dnipropetrovsk National University), Faculty of Physics. Specialty: Physics.

The Main Directions of Scientific Activities

Development of methods for identification of multi-parameter, multi-criteria technologies in materials science, application of fractal and multifractal theories to assess the structure and quality characteristics of materials, mathematical modeling of complex systems, as well as solving incorrect problems in materials science

Employment History

In 2004, he defended his candidate's thesis on the specialty 05.02.01 "Materials Science" on the topic: "Development and research of a method for determining the quality characteristics of a metal based on the analysis of the fractal dimension of its microstructure" at PBABtaA. In 2008, he received the academic title of associate professor at the Department of Materials Science and Materials Processing of PBABtaA. In 2015, he defended his doctoral dissertation on the specialty 05.02.01 "Materials Science" on the topic: "Development of the scientific basis for evaluating the mechanical properties of grade-rolled cast iron rolls to increase their wear resistance" at the State Technical University PBABtaA. Awards: - Diploma of honor for scientific achievements of the III degree of the Dnipropetrovsk Regional State Administration (2006); - For meritorious service to the Academy of State Educational Institutions of the Russian Academy of Sciences and Arts (2015); - silver medal of Academician M.S. Budnikova (2015); - medal "For scientific achievements" named after Academician K.F. Starodubova (2016). He is the author of about 120 publications in leading scientific publications of Ukraine and foreign publications, 4 monographs, 1 study guide with the seal of the Ministry of Education and Culture of Ukraine, 2 patents of Ukraine and 7 author's certificates for works of Ukraine. Scientific interests - materials science, theory of fractals and multifractals, mathematical modeling, system analysis.

Scientific data

1. Google Scholar: bibliographic references 1759, h-index 24, i10-index 50.
2. SCOPUS: articles in SCOPUS Magazines: total 22, bibliographic references (citations) 92, h-index 6.
3. Web of Science: articles in Web of Science Researcher ID Magazines: 12, bibliographic references 11, h-index 2.