

# MANUAL for AUTHORS:

## Published Papers, Search, Favourites, Newsletter Subscription

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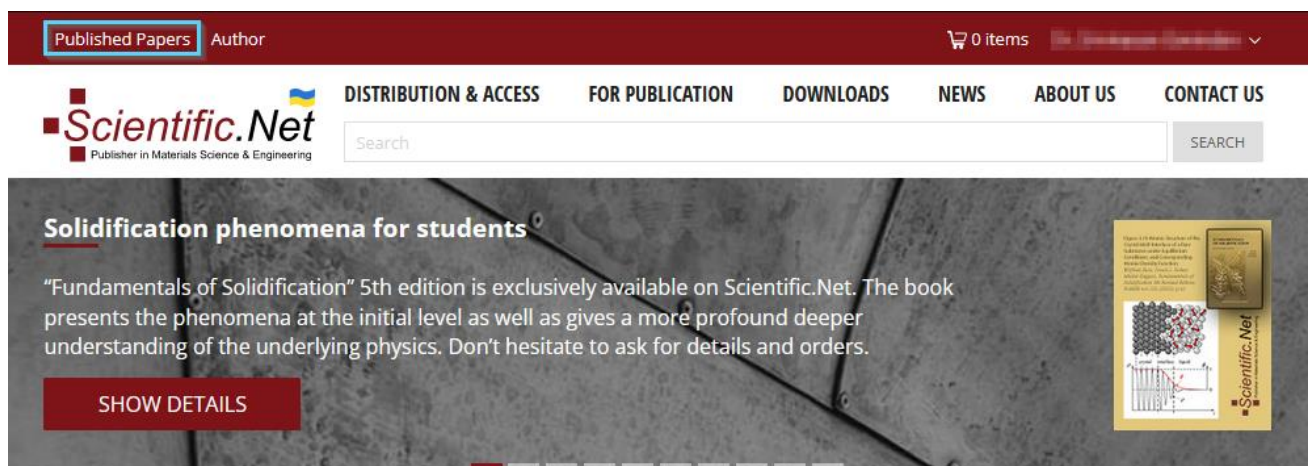
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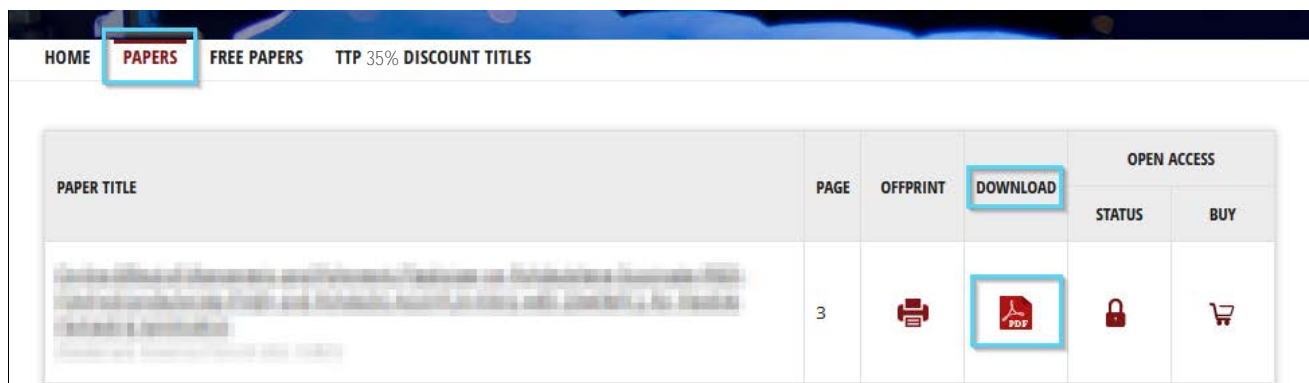
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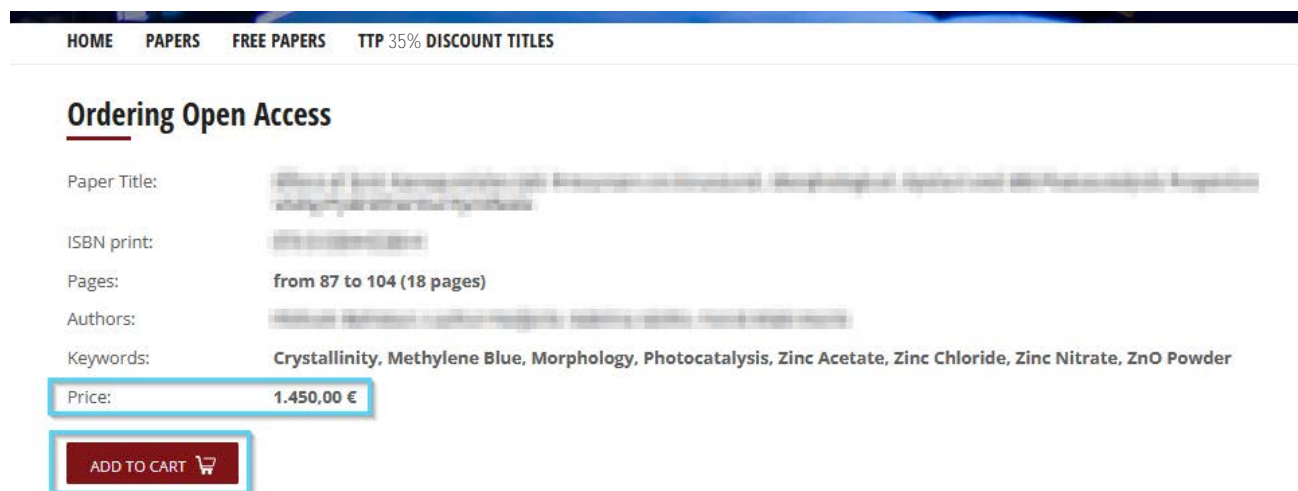


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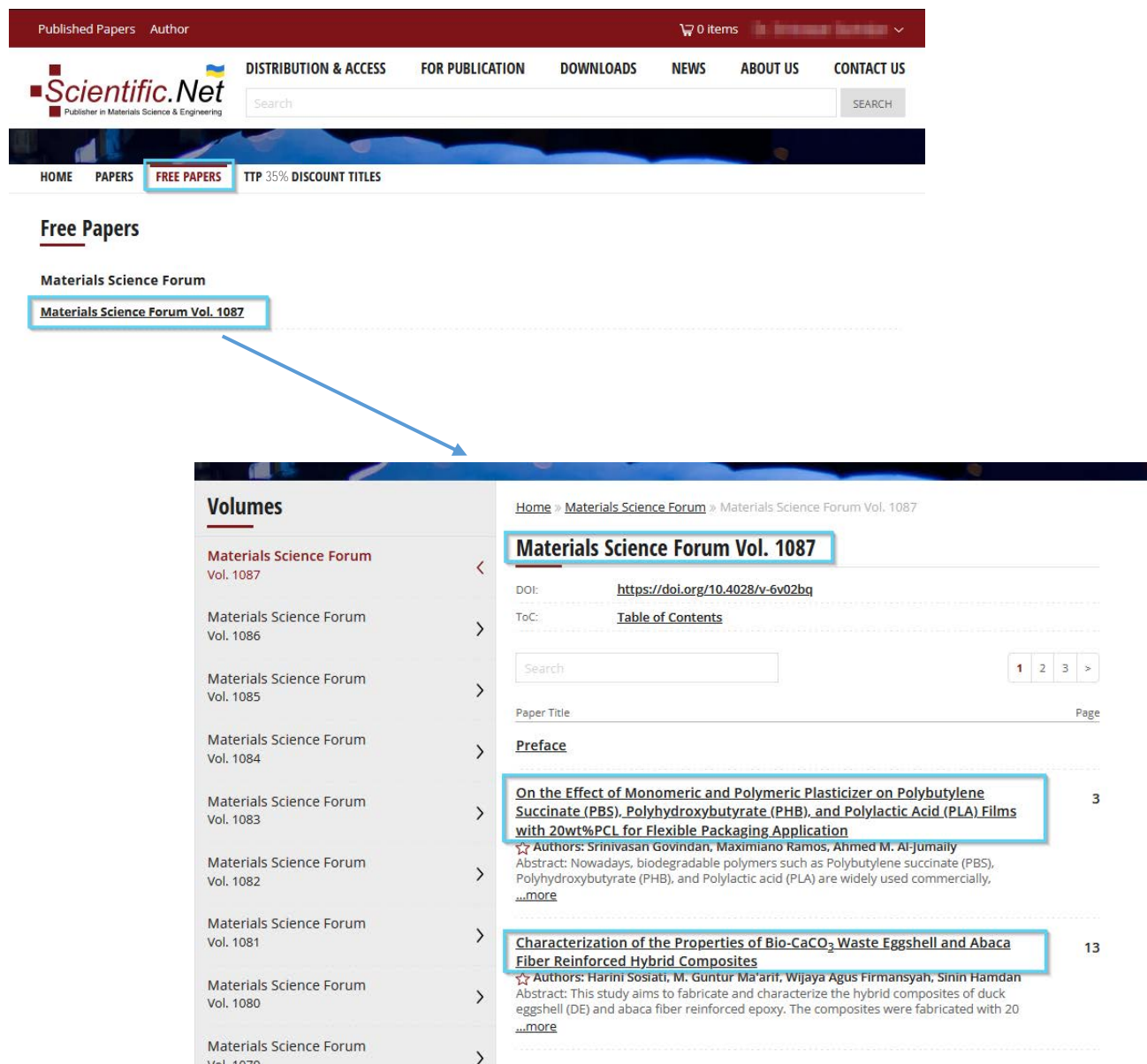
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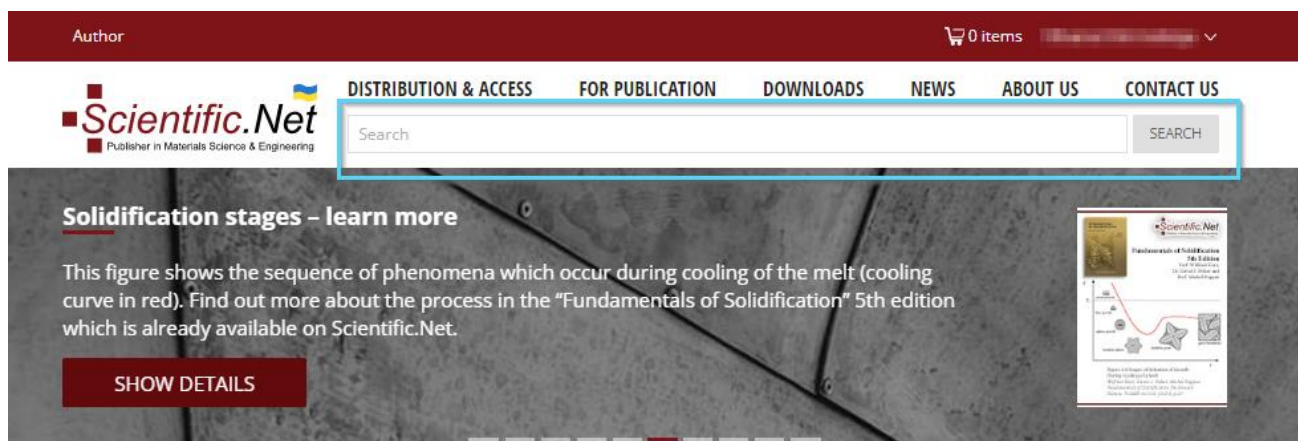
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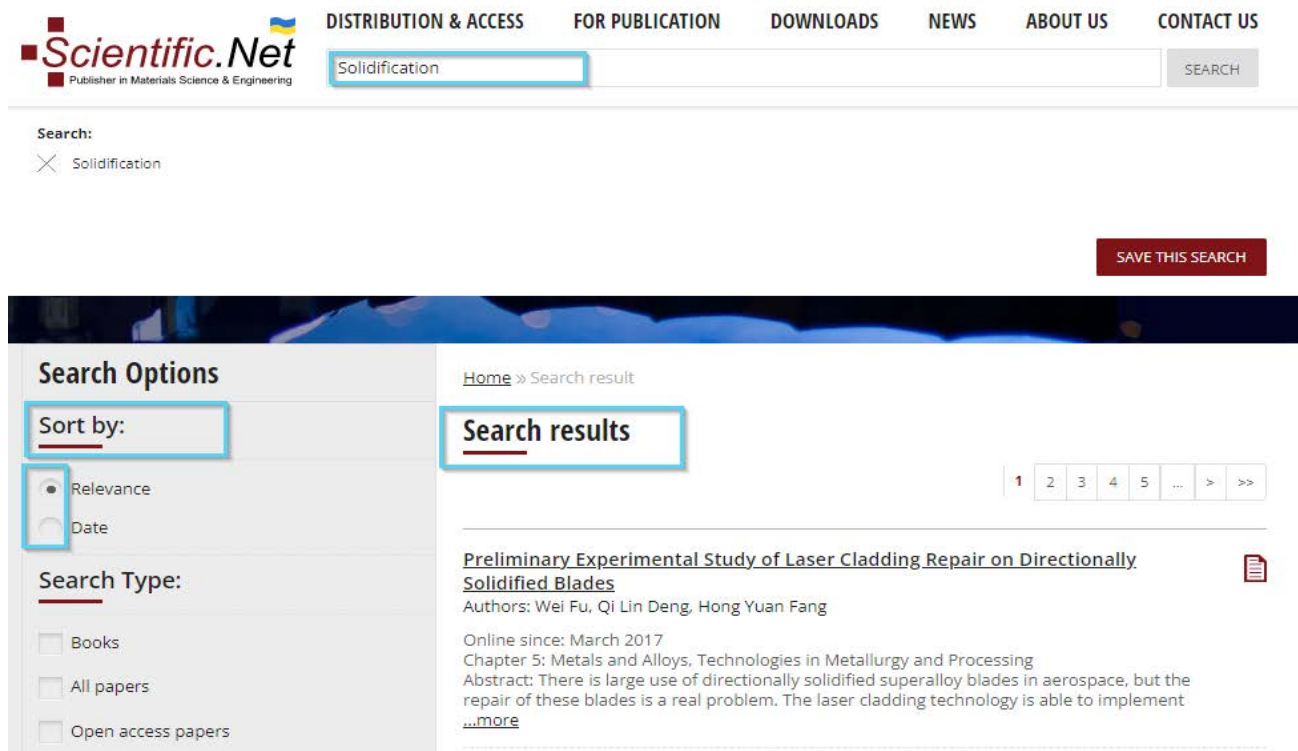
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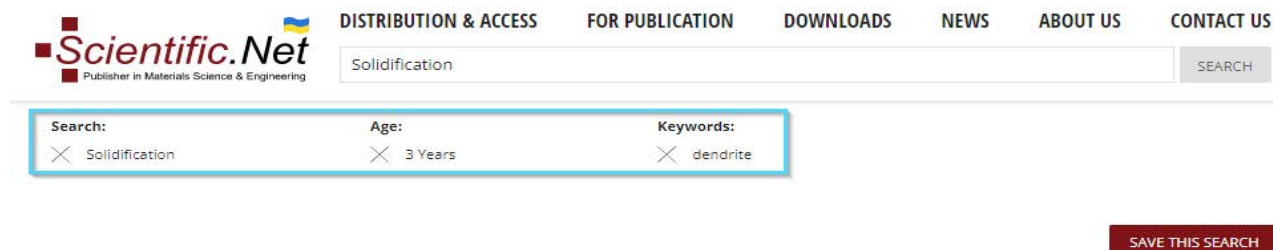


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### Search results


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**Numerical Analysis of Microstructure Anomalies during Laser Welding Nickel-Based Single-Crystal Superalloy Part III: Amelioration of Solidification Behavior** 

Authors: Zhi Guo Gao

Online since: August 2021  
Chapter 2: Metallic Materials and Processing  
Abstract: The contribution of crystallography-dependent metallurgical factors, such as supersaturation of liquid aluminum and minimum dendrite tip undercooling, to solidification [...more](#)


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**Effects of Ce Addition on Solidification Structure of a Low-Carbon 42CrMo4 Steel** 

Authors: Vu The Ha, Jaromír Drápala, Silvie Brožová, Michal Madaj, Pavel Machovčák, Petr Jonšta

Online since: July 2021  
Abstract: Effects of Cerium (Ce) addition on solidification structure of a low-carbon 42CrMo4 steel was investigated. The addition of up to 0.067 wt.% of Ce in the steel produced greatly [...more](#)

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**Numerical Analysis of Aerospace Nickel-Based Single-Crystal Superalloy Weldability Part I: Crystallography-Dependent Dendrite Growth** 

Authors: Zhi Guo Gao


Online since: January 2021  
Chapter 1: Superalloys  
Abstract: The thermal-metallurgical modeling of microstructure development was further

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Authors: Zhi Guo Gao

Online since: February 2021  
Chapter 1: Properties and Processing Technologies of Steels and Alloys  
Abstract: A thermal metallurgical coupling model was further developed for multicomponent dendrite growth of primary  $\gamma$  phase during laser welding nickel-based single-crystal [...more](#)


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**Numerical Analysis of Microstructure Anomalies during Laser Welding Nickel-Based Single-Crystal Superalloy Part I: Salient Aluminum Redistribution Melioration** 

Authors: Zhi Guo Gao

Online since: January 2022  
Chapter 7: Properties and Processing Technologies of Metallic Materials  
Abstract: Correlation between welding conditions, such as laser power, welding speed and welding configuration, microstructure anomalies, including columnar/equiaxed transition [...more](#)

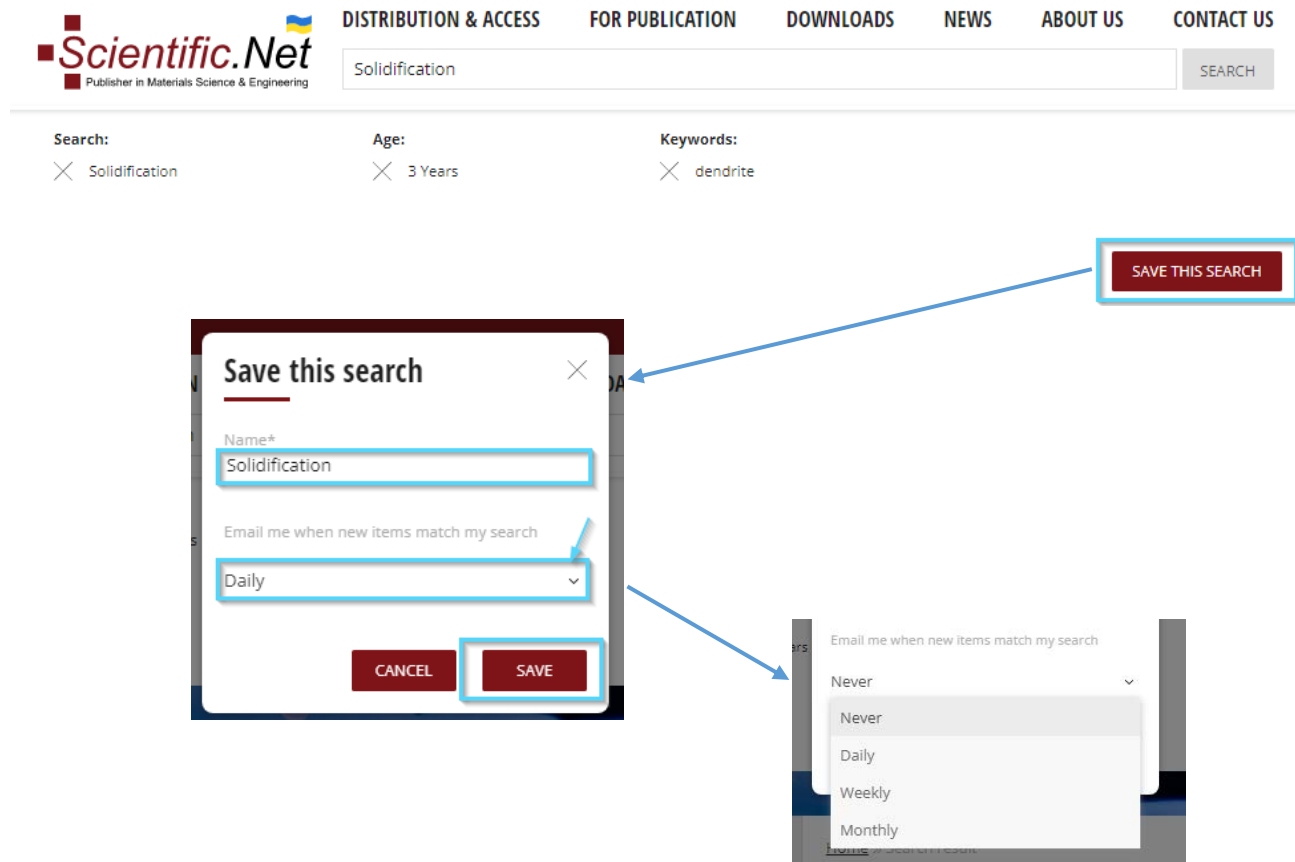
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**Numerical Analysis of Nucleation and Growth of Stray Grain Formation during Laser Welding Nickel-Based Single-Crystal Superalloy Part I: Morphology and Size of Dendrite Growth** 

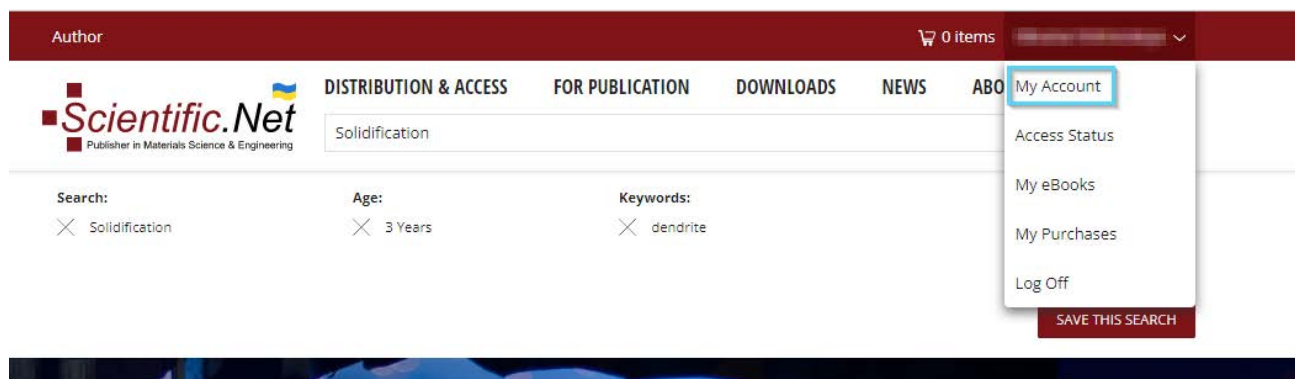
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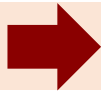
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Paper Title	Page
<b>Preface</b>	
<p><b><a href="#">Laser Spot Welding a Three-Layered Panel in Different Spatial Positions</a></b></p> <p>☆ Authors: Artemii Bernatskiy, Olena M. Berdnikova, Olha Kushnarova, Illia Klochkov, Sviatoslav Motrunich</p> <p>Abstract: The aim of the work is a comparative analysis of structural features and mechanical characteristics of spot welded joints of thin-sheet stainless steels</p> <p><a href="#">...more</a></p>	3
<p><b><a href="#">Determination of New Plasticity Characteristic of Alloys at Mechanical Compression and Tensile Tests and the Influence of Structural Factors on Plasticity</a></b></p> <p>☆ Authors: Yuly V. Milman, Boris A. Galanov, Victor A. Goncharuk, Igor V. Voskoboinik, Irina V. Goncharova</p> <p>Abstract: In physics and mechanics, plasticity is defined as the ability of a material to undergo irreversible (plastic) deformation. Conventionally, the plastic strain at fracture in</p> <p><a href="#">...more</a></p>	11

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Abstract: The aim of the work is a comparative analysis of structural features and mechanical characteristics of spot welded joints of thin-sheet stainless steels  
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[Determination of New Plasticity Characteristic of Alloys at Mechanical Compression and Tensile Tests and the Influence of Structural Factors on Plasticity](#)

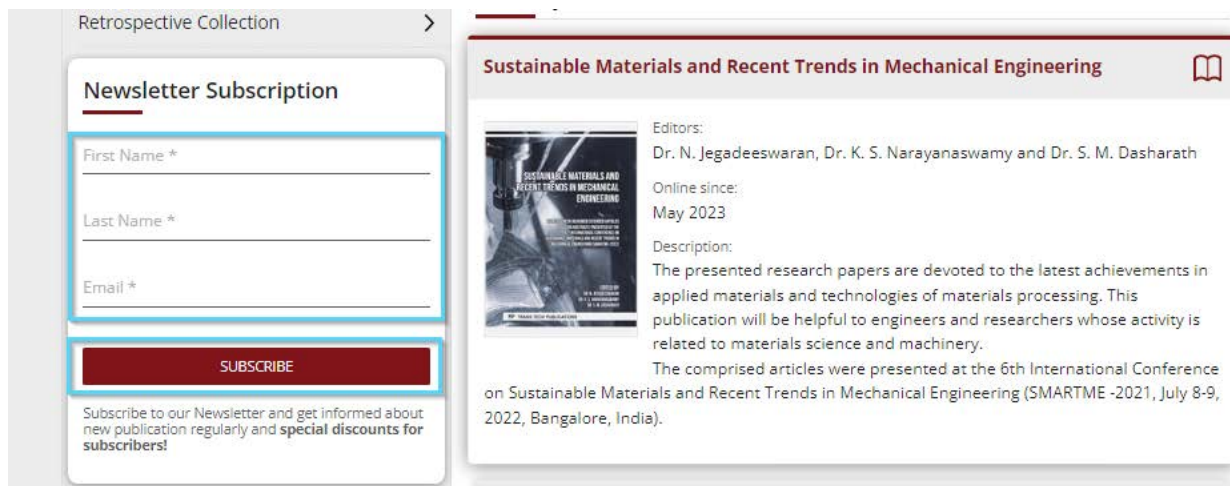
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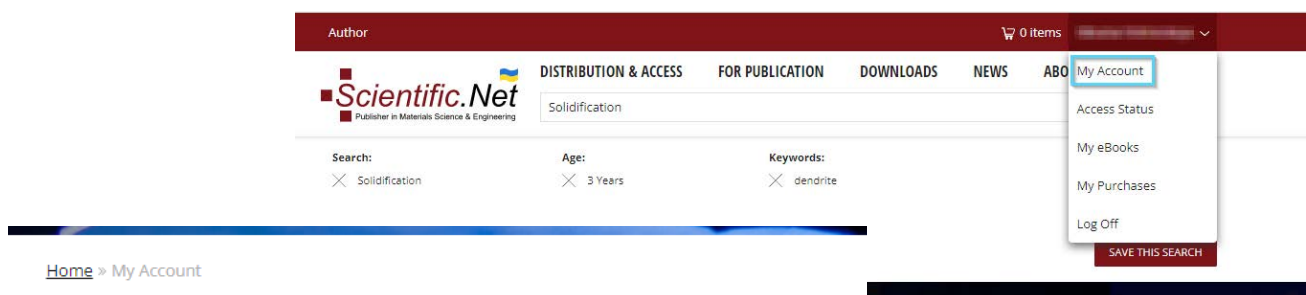


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