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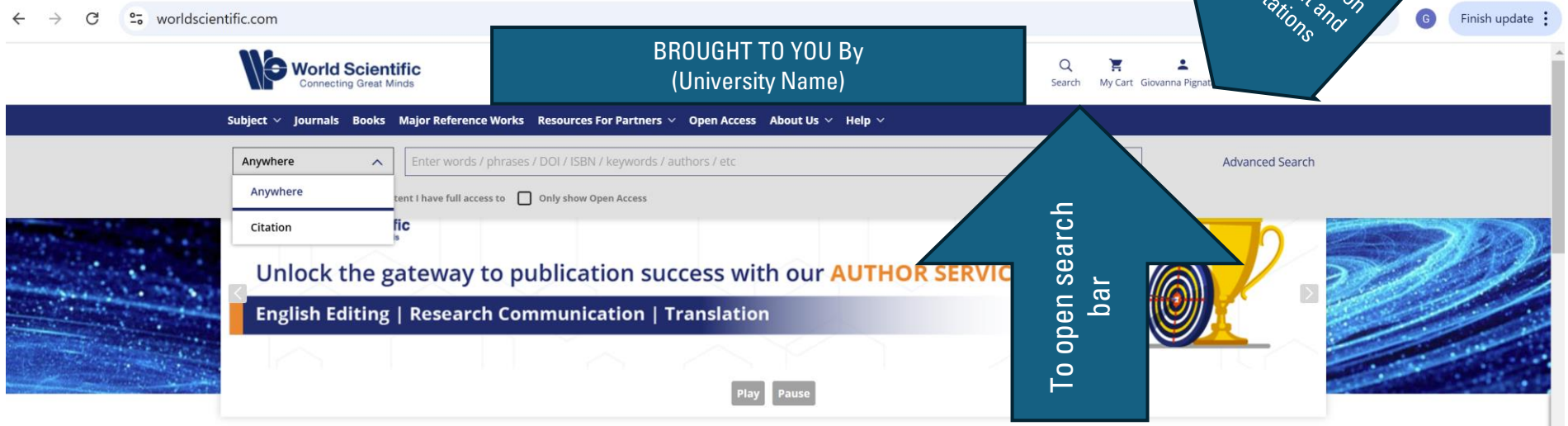
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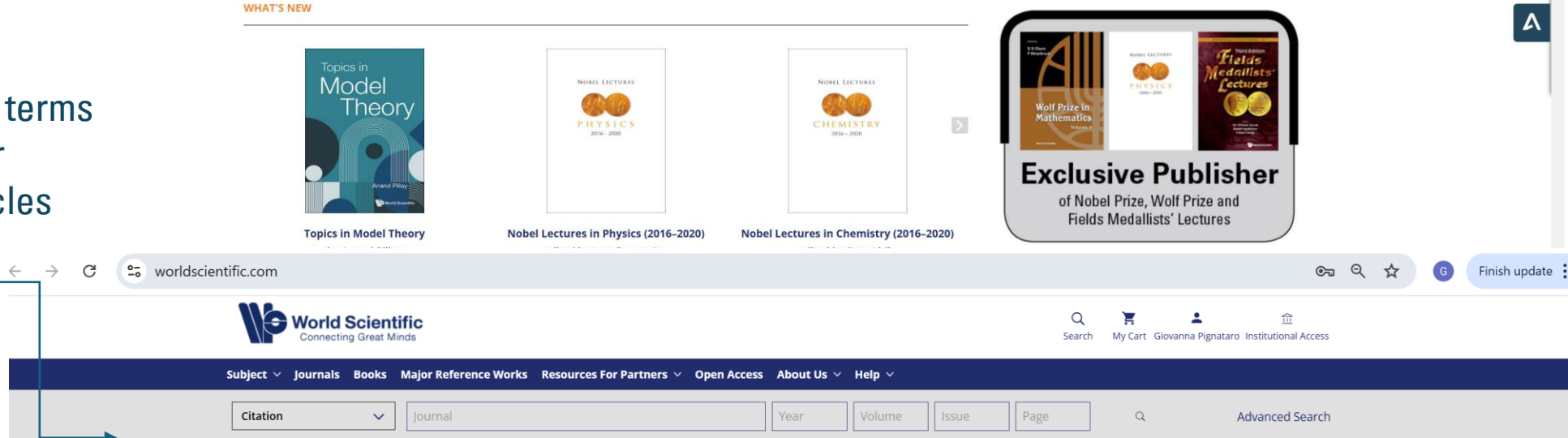
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The screenshot shows the World Scientific search interface. The search bar contains the text "Fractal space". Below the search bar, there are options for "Access type" and "SEARCH GUIDE". The search results are displayed in a list format, with filters applied for "Research Article" and "Journals". The results include article titles, authors, and publication dates. The interface also shows a "Narrow Results" section with filters for "Publication Type" and "Publication Date".

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Publication Date	Last Year 438 Last 6 Months 218 Last 3 Months 158 Last Month 64 Last Week 13
Author	Yu, Boming 39 Abdeljawad, Thabet 38 Yi, Lifang 36

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SHUHONG YU, TINGSONG DU, and BO YU  
Fractals | 12 Sep 2022  
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**THE MICROSCOPIC-MACROSCOPIC SCALE TRANSFORMATION THROUGH FRACTAL SPACE-TIME THEORY**  
G. V. MUNCELEANU, V.-P. PAUN, I. CASIAN-BOTEZ, and M. AGOP  
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# Abstracts and Full-text

The screenshot shows a web browser displaying a World Scientific article. The URL is [worldscientific.com/doi/10.1142/S0218348X21500304](https://doi.org/10.1142/S0218348X21500304). The article title is "FRACTAL N/MEMS: FROM PULL-IN INSTABILITY TO PULL-IN STABILITY". The authors are DAN TIAN, QURA-TUL AIN, NAVEED ANJUM, CHUN-HUI HE, and BIN CHENG. The article is cited by 125 sources. The abstract discusses pull-in instability in Nano/Micro-electromechanical systems (N/MEMS) devices. The page includes a sidebar with "Metrics" (Downloaded 66 times, Citations 133), "History" (Received 5 August 2020, Accepted 3 September 2020, Published: March 10, 2021), and "Keywords" (N/MEMS, Pull-in Stability, Fractal Space, Pull-in Instability, Fractal Derivative). There are also "We recommend" sections with related articles. Annotations include a blue arrow pointing to the "PDF/EPUB" button labeled "Go to the full text", a large blue arrow pointing to the "Citation download tools" area labeled "Citation download tools to set up alerts, share it on social media", and a large blue arrow pointing to the "Metrics" section labeled "Publication Metrics Related Readings References".

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Fractals | Vol. 29, No. 02, 2150030 (2021) | Article

## FRACTAL N/MEMS: FROM PULL-IN INSTABILITY TO PULL-IN STABILITY

DAN TIAN, QURA-TUL AIN, NAVEED ANJUM, CHUN-HUI HE, and BIN CHENG

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### Abstract

Pull-in instability, as an inherent nonlinear problem, continues to become an increasingly important and interesting topic in the design of electrostatic Nano/Micro-electromechanical systems (N/MEMS) devices. Generally, the pull-in instability was studied in a continuous space, but when the electronic devices work in a porous medium, they need to be analyzed in a fractal partner. In this paper, we establish a fractal model for N/MEMS, and find a pull-in stability plateau, which can be controlled by the porous structure, and the pull-in instability can be finally converted to a stable condition. As a result, the pull-in instability can be completely eliminated, realizing the transformation of pull-in instability into pull-in stability.

Keywords: N/MEMS - Pull-in Stability - Fractal Space - Pull-in Instability - Fractal Derivative

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Giao Ky Duong, Mathematical Models and Methods in Applied Sciences, 2019

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Liangliang Shen, Friction, 2022

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Mingjia Liu, Capillarity, 2022

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History

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Keywords

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Fractal Derivative

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PDF Page 1 / 8

Fractals, Vol. 29, No. 2 (2021) 2  
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March 2021

ARTICLE  
FRACTAL N/MEMS: FROM PULL-IN INSTABILITY TO PULL-IN STABILITY  
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DAN TIAN, QURA-TUL AIN, NAVEED ANJUM, CHUN-HUI HE and BIN CHENG

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FRACTAL N/MEMS: FROM PULL-IN INSTABILITY TO PULL-IN STABILITY

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Abstract