

AIP (AMERICAN INSTITUTE OF PHYSICS) 매뉴얼

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TABLE OF CONTENTS



- 1. 출판사 소개
- 2. Scitation 소개
- 3. Scitation 이용방법
- 4. AIP Publishing 이용방법

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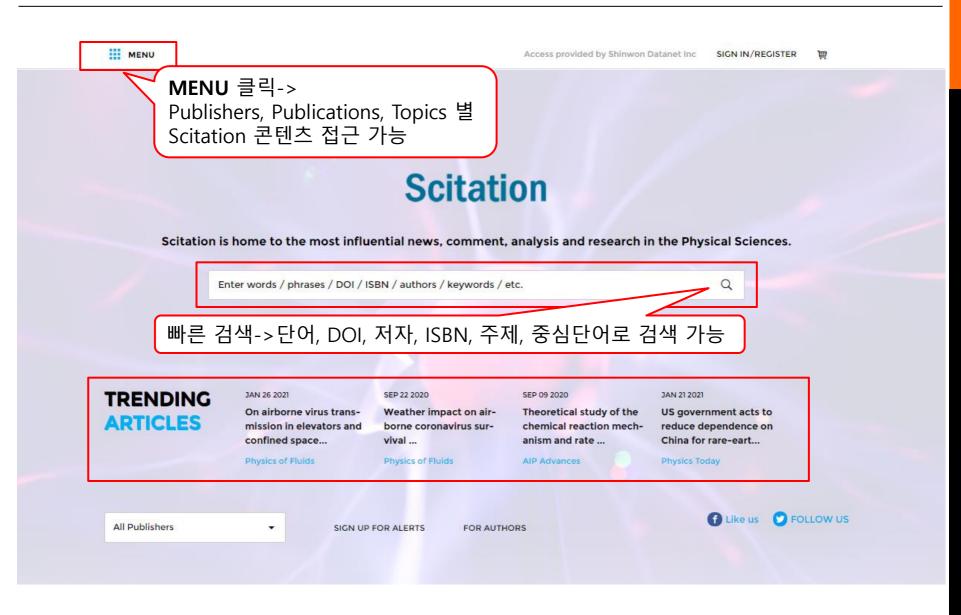
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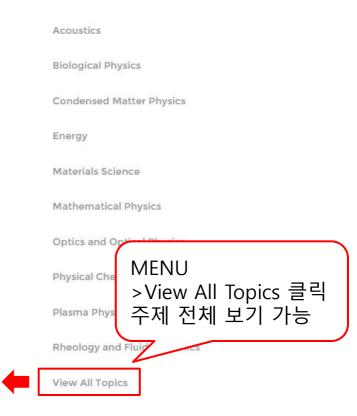
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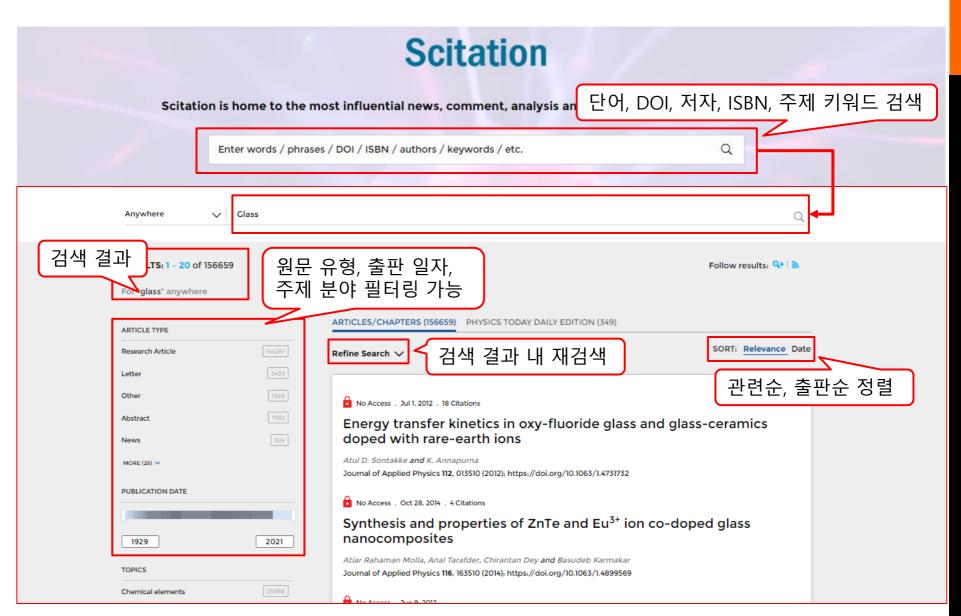
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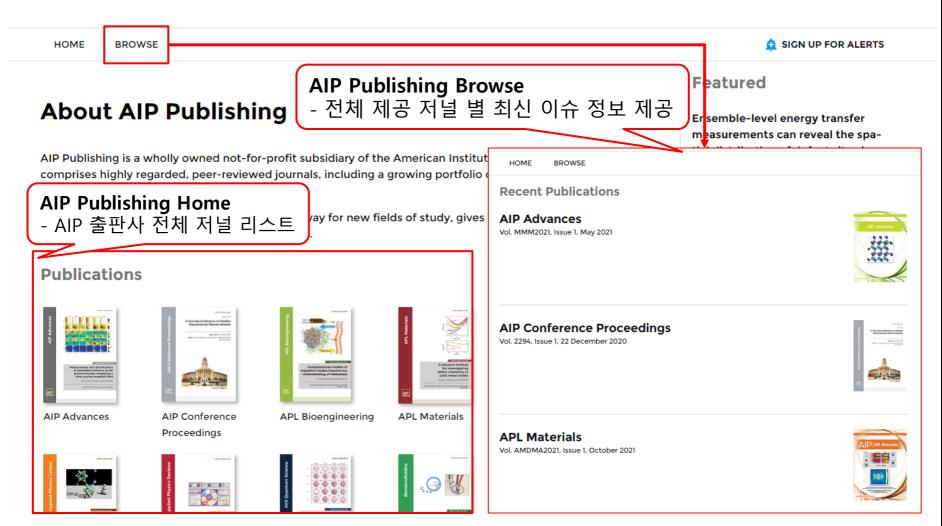


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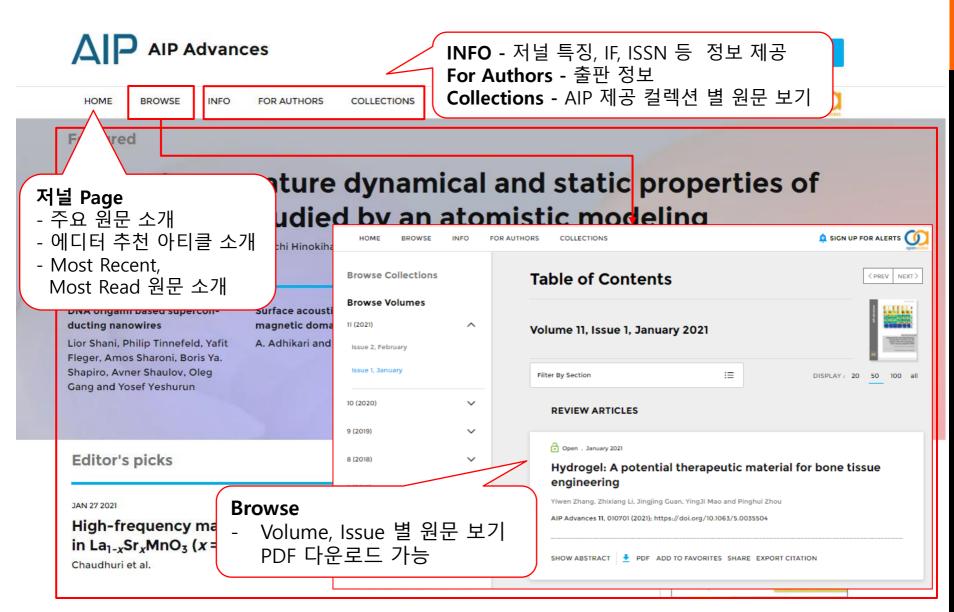


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U. Chaudhuri *and* D R. Mahendiran^{a)}

*Abstract – 초록, 참고문헌 보기

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We report the magnetization, magnetic field dependence of direct current

magnetoresistance (dc MR) and alternating current magnetoresistance (ac MR) in La₁-

 $_x$ Sr $_x$ MnO $_3$ (x = 0.12, 0.18, and 0.20) in the frequency range f= 30 MHz to 3000 MHz, at room temperature. The ac MR is negative in all three compositions and shows a dramatic increase in magnitude compared to the dc MR when f = 30 MHz and in a magnetic field H = ± 3 kOe. With increasing frequency of current, the sign of ac MR at 3 kOe progressively changes from negative to positive in all these samples which is initiated by appearance of two peaks at H = $\pm H_E$. Line shape analysis of the data indicate that H_E increases linearly with f in x = 0.12 and

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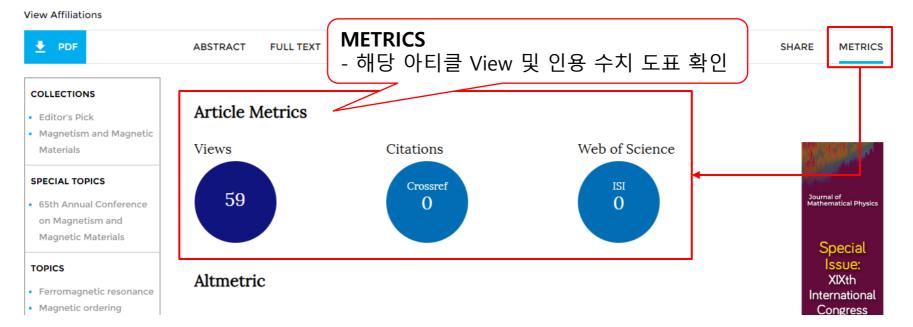
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