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(AMERICAN INSTITUTE OF PHYSICS)
매뉴얼

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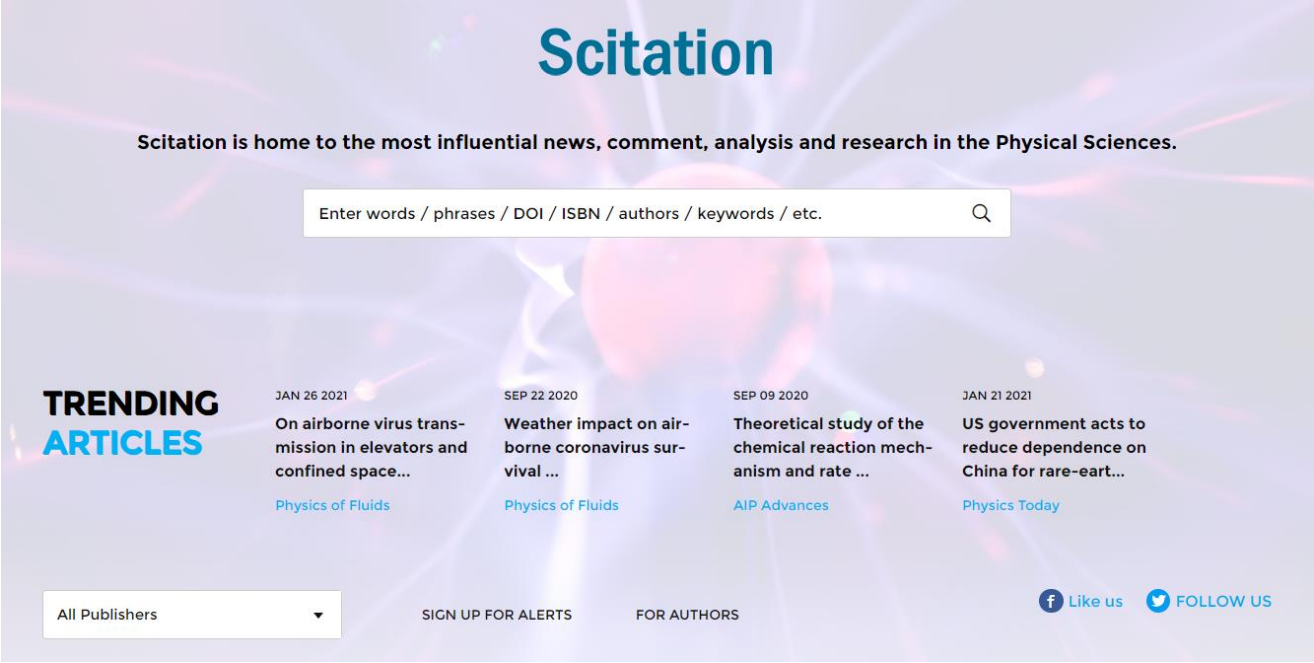

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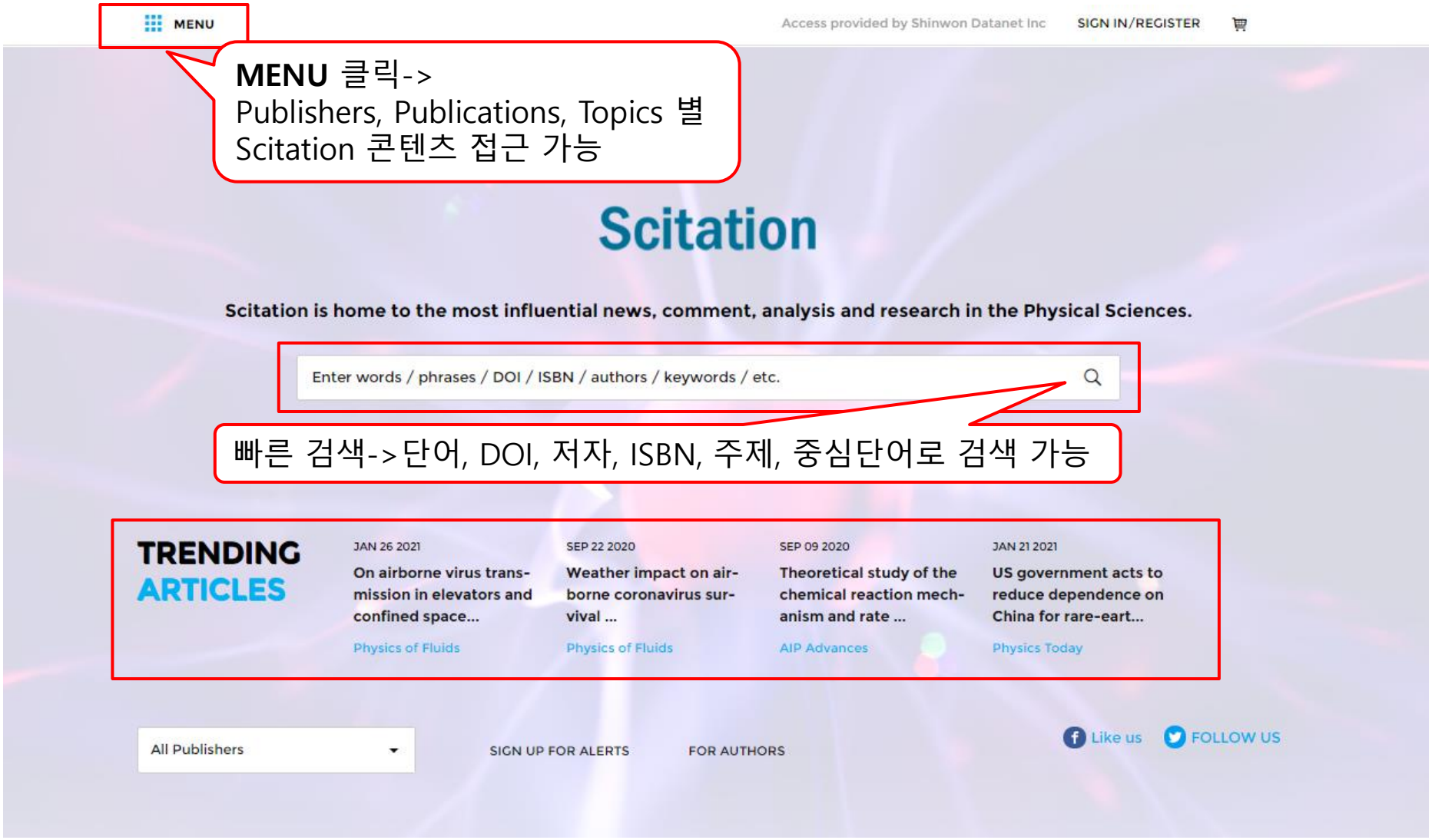

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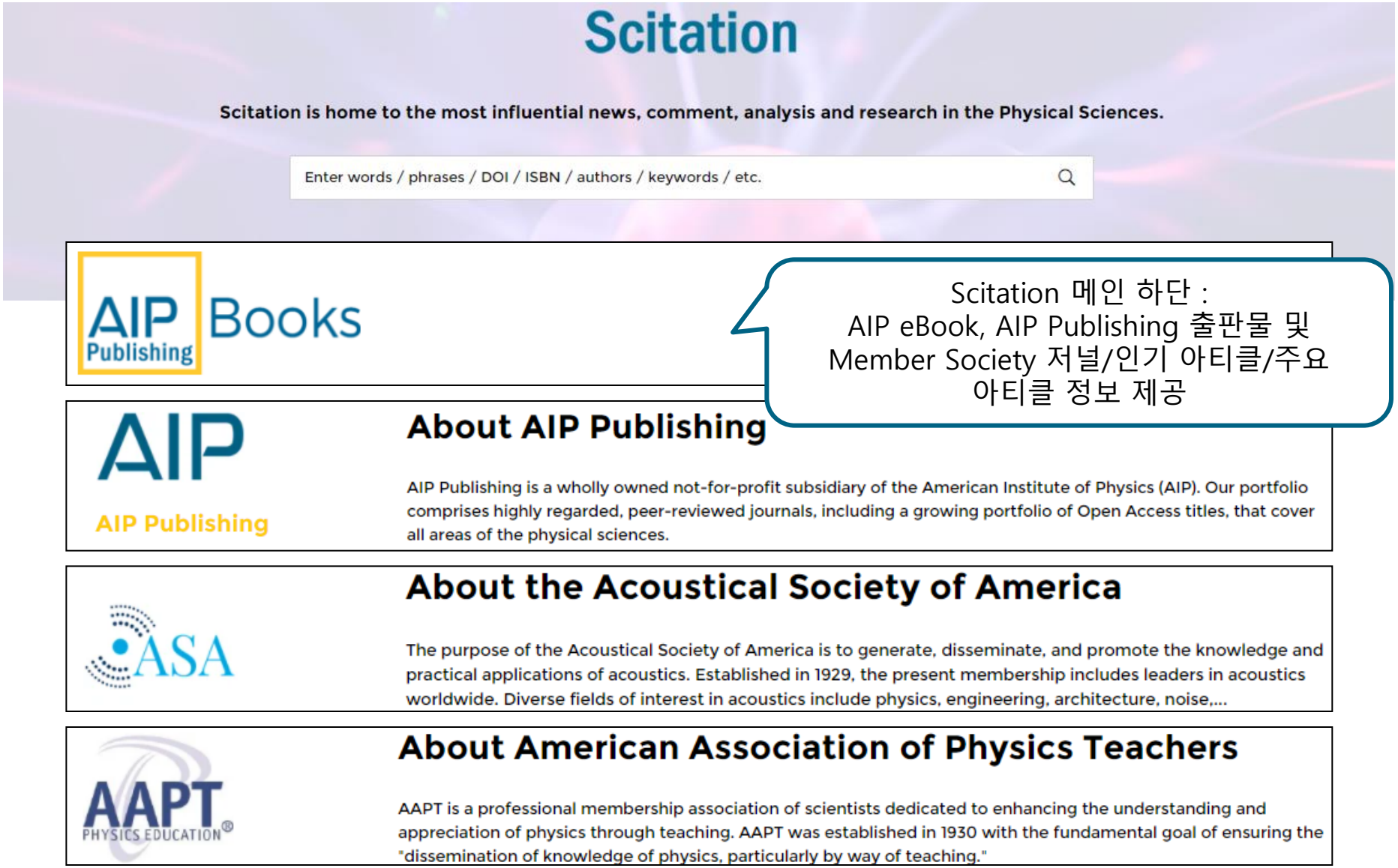

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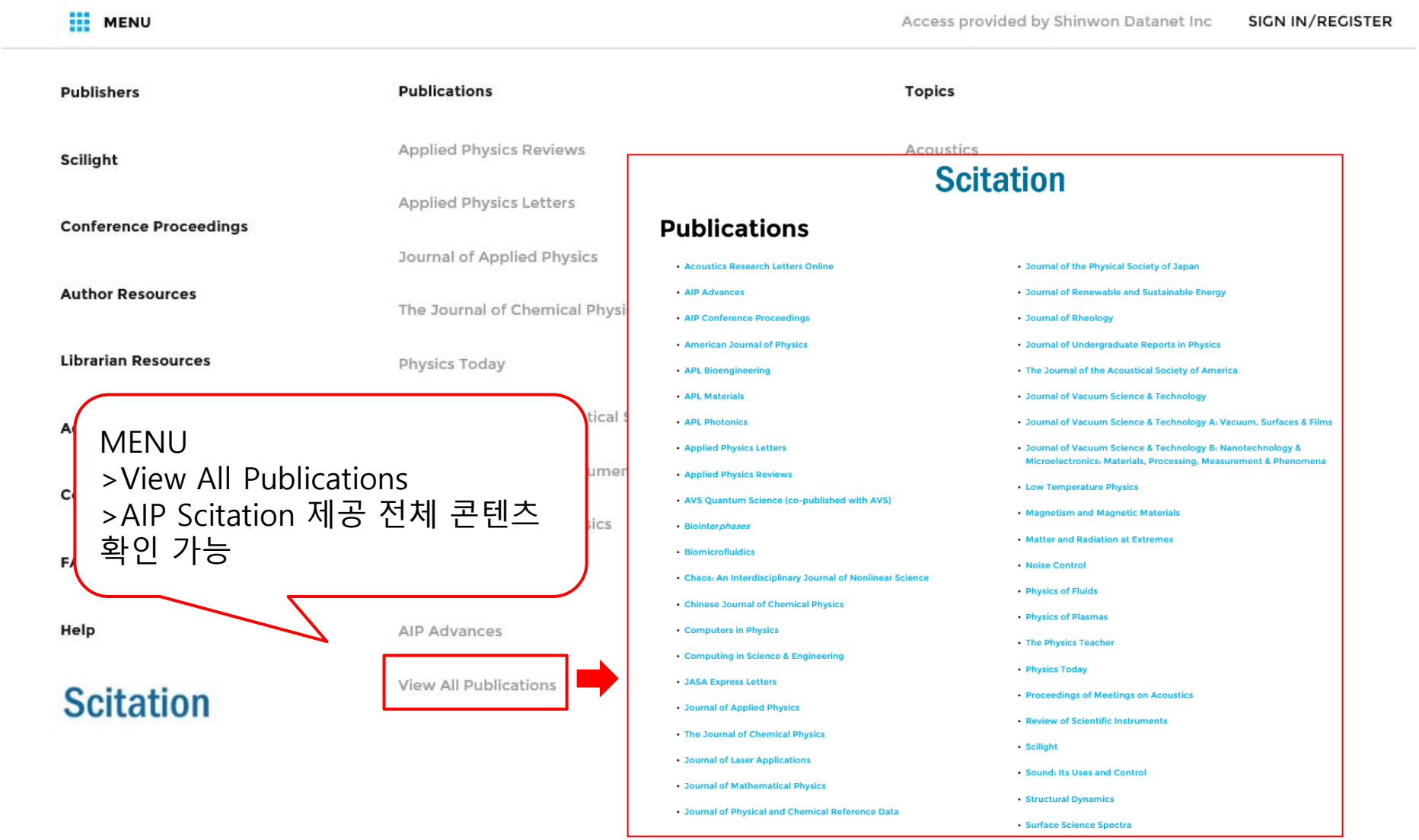

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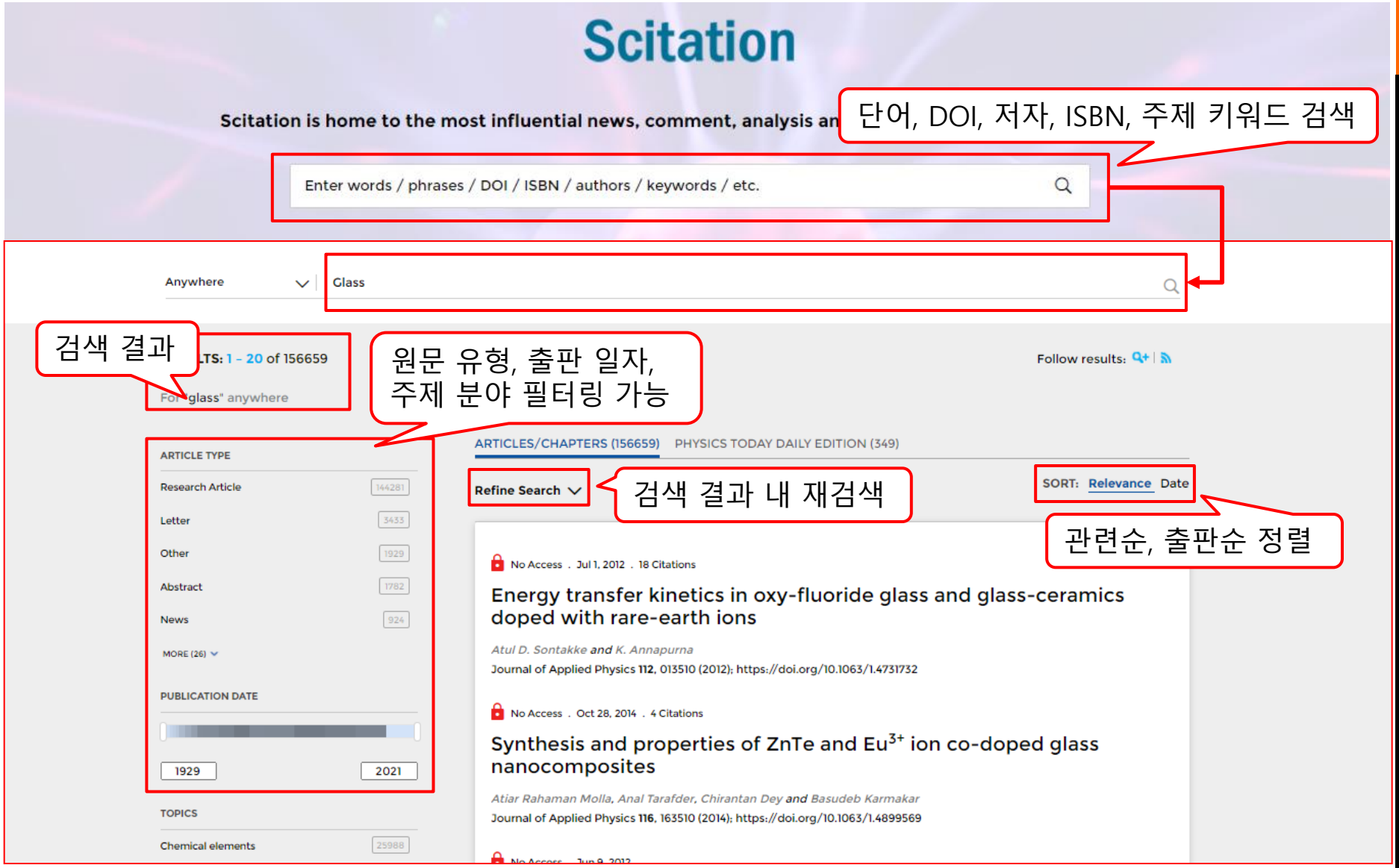

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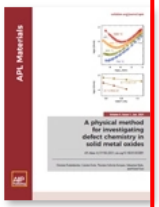
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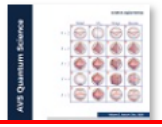

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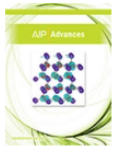

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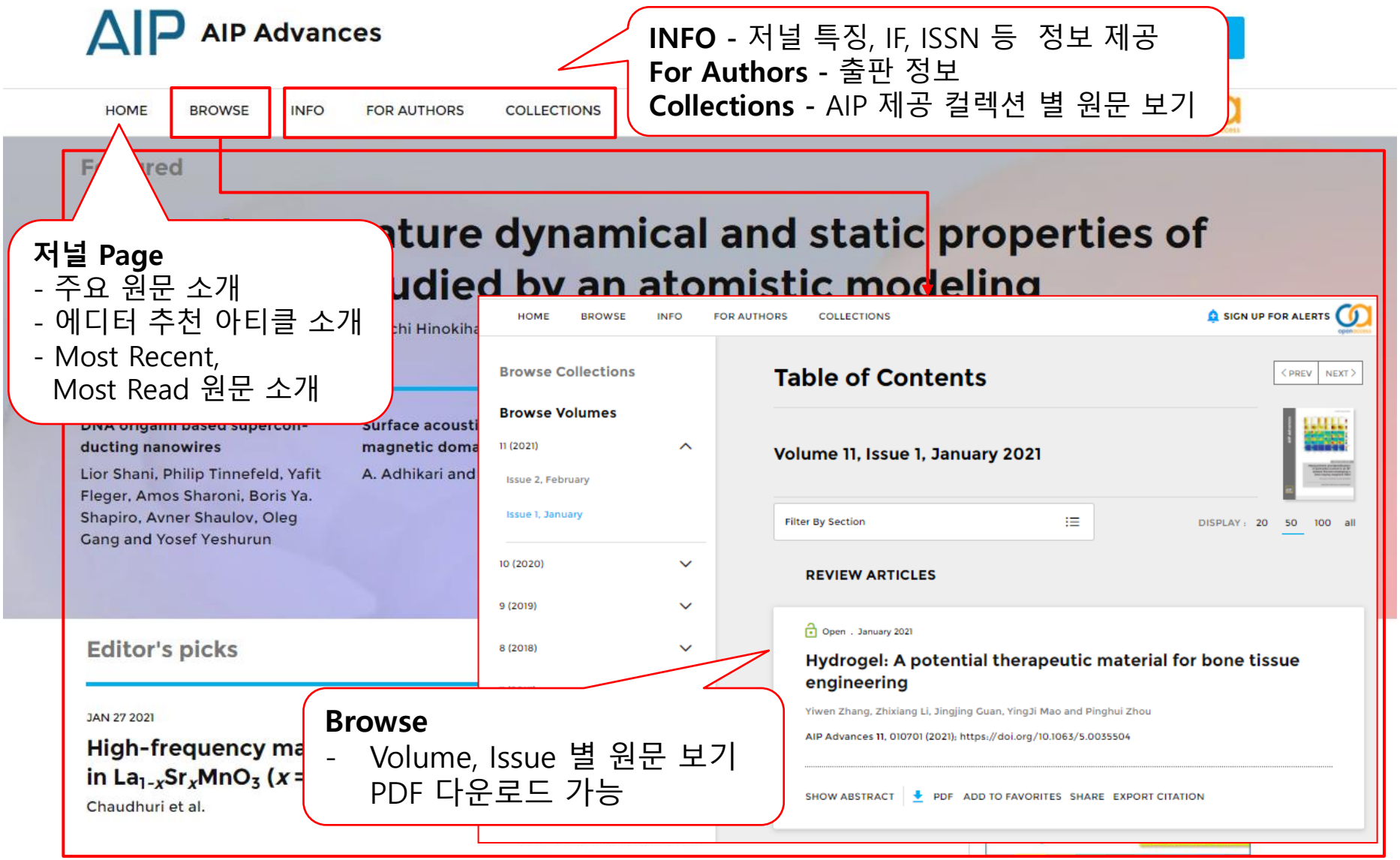

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U. Chaudhuri *and* R. Mahendiran[a)]

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ABSTRACT

We report the magnetization, magnetic field dependence of direct current magnetoresistance (*dc MR*) and alternating current magnetoresistance (*ac MR*) in $La_{1-x}Sr_xMnO_3$ (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 = $\pm H_r$. Line shape analysis of the data indicate that H_r increases linearly with f in x = 0.12 and

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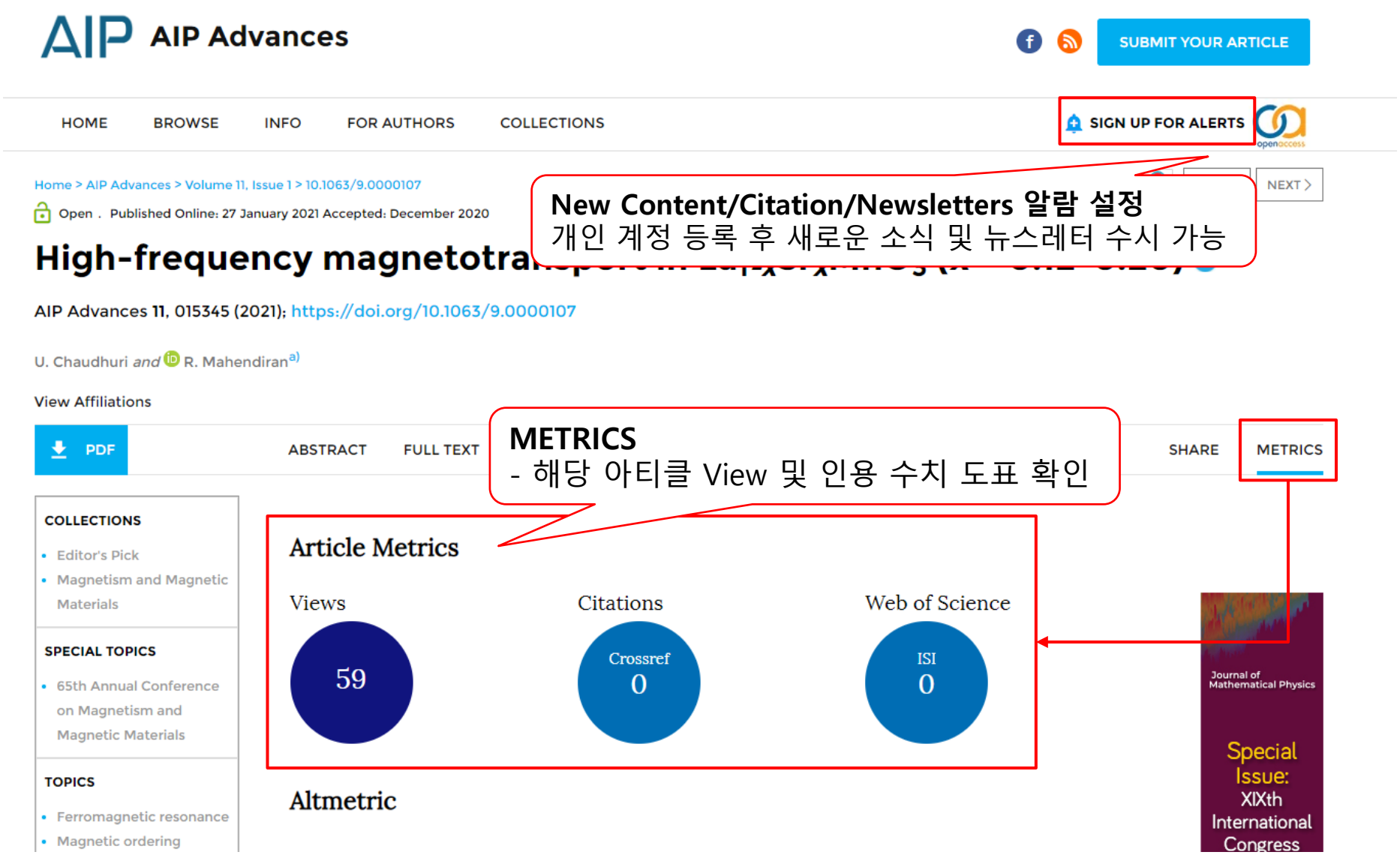

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