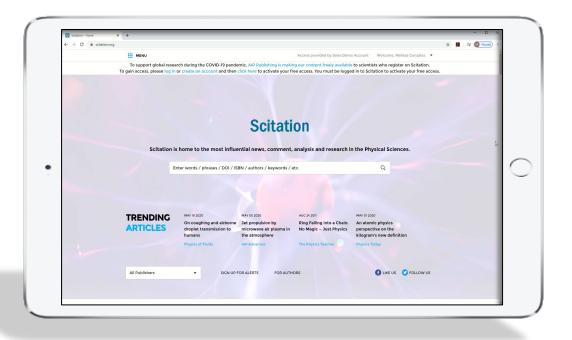
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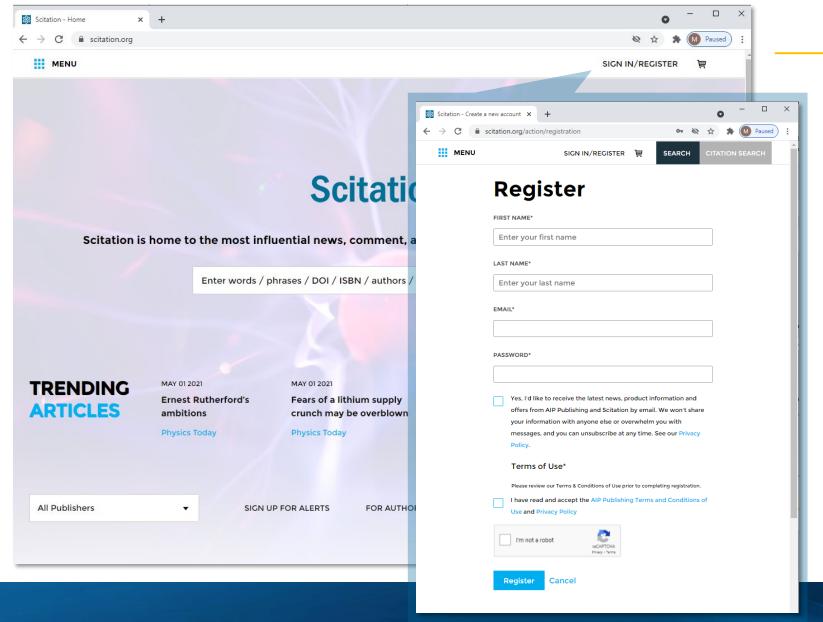
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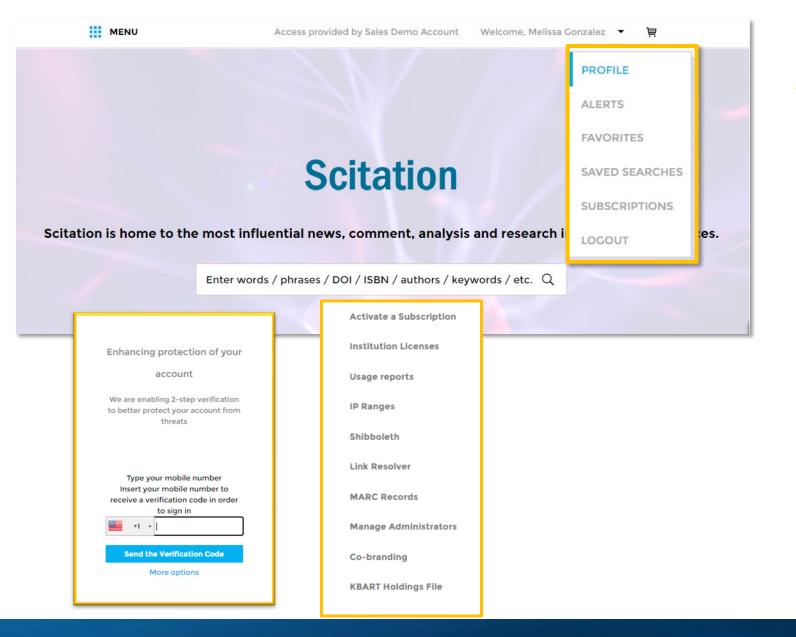
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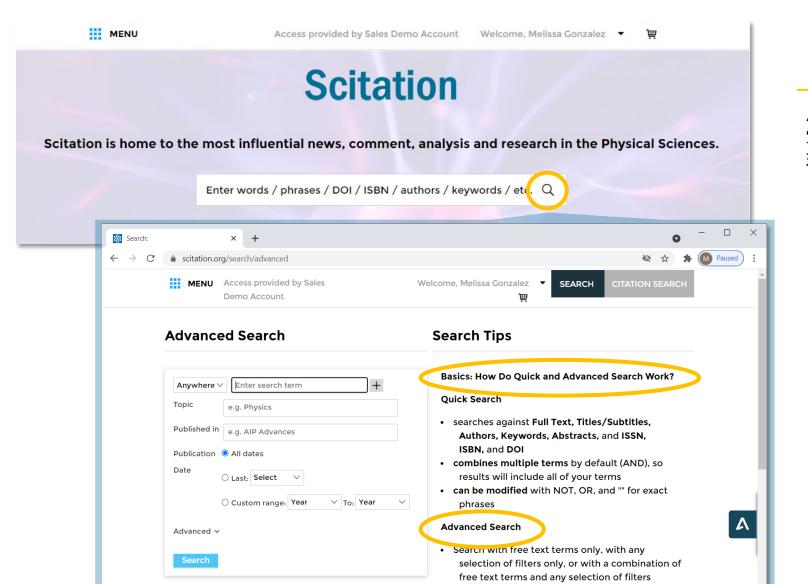
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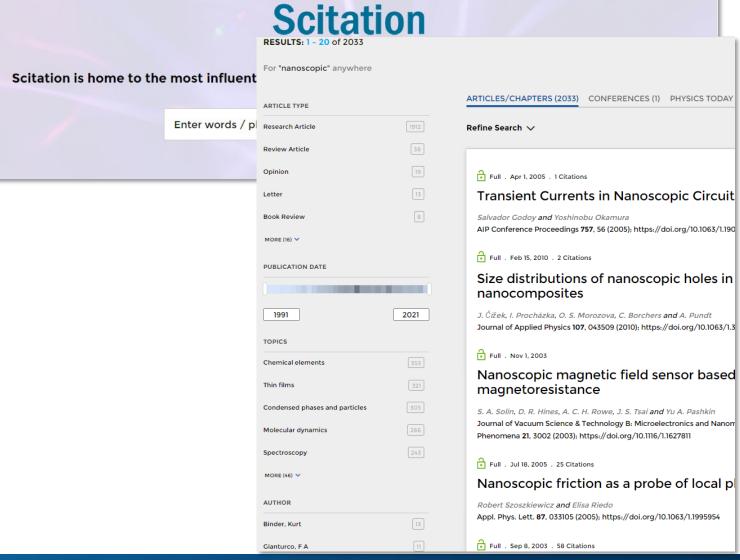
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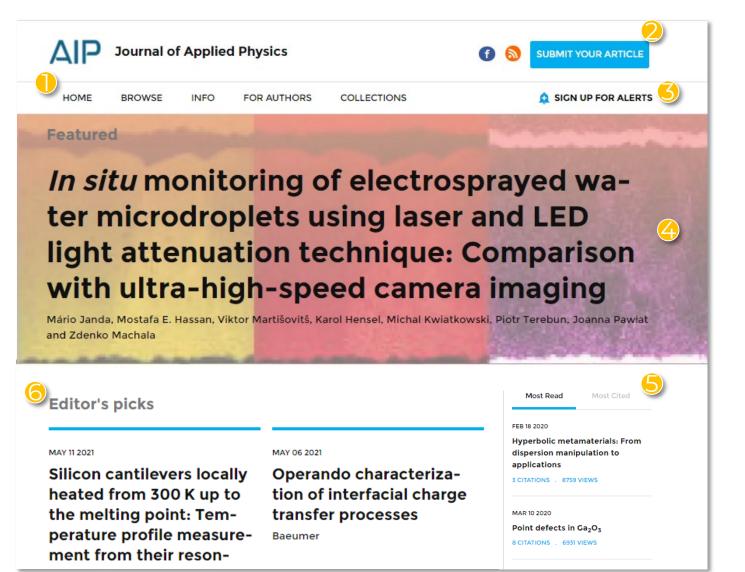
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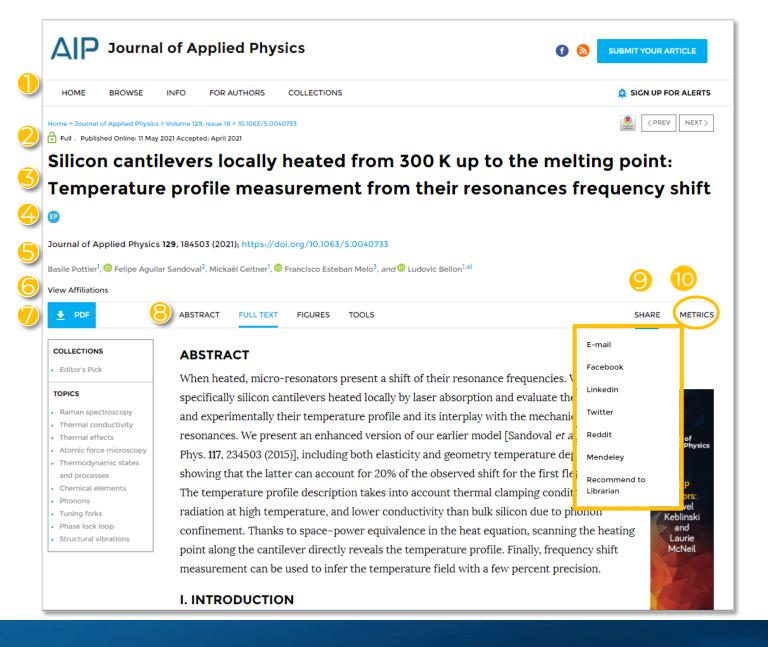




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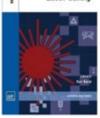






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LASER HAZARD CLASSIFICATION

The role of laser hazard classification cannot be understated

- It gives the user a heads-up on the potential hazard of the laser or laser system

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. It tells the safety professional the level of training and controls that need to be in place or

Of course, in a research setting, laser classification is only the start. Once the beam leaves the laser or lasers, all sorts of manipulations can take place that affect the actual hazard of the

In simple terms, the overall laser hazard classification is based on output and visibility of the beam. As to who classifies lasers, while there is much agreement on class definitions, we have competing groups.

In their respective laser standards, the American National Standards Institute (ANSI) in the United States and the International Electrotechnical Commission (IEC) in the rest of the world define the meanings of each laser class. But for many, the most important organizations on laser hazard classification are the regulatory bodies who set laser product requirements.

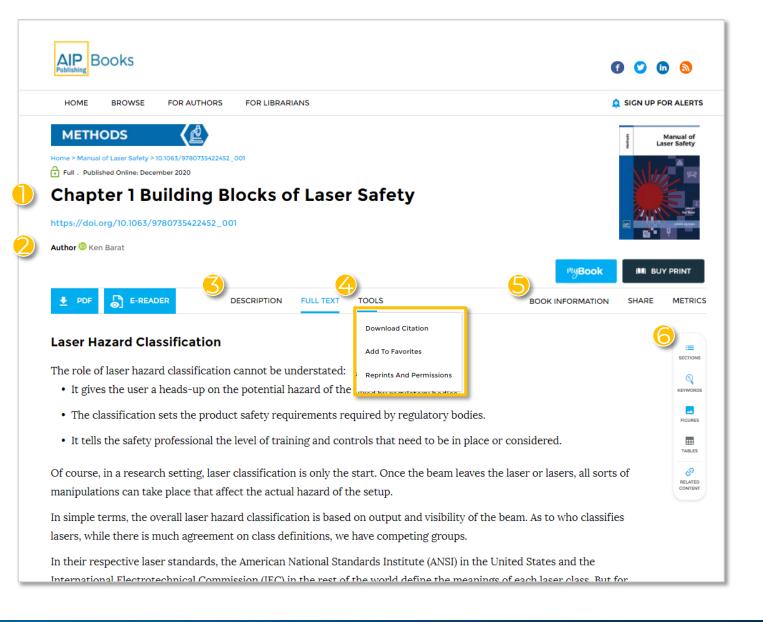
Take the Center for Devices and Radiological Health (CDRH), an agency under the U.S. Food and Drug Administration (FDA), While the ANSI standard allows Class 3R lasers to be visible or invisible, CDRH only recognizes visible Class 3R lasers (a laser system CDRH still calls 3A). So, If 1 am manufacturing 3R lasers and hope to self them, they will all be visible, regardless of what ANSI allows. With that said, let's give the most useful definition of each laser class. But

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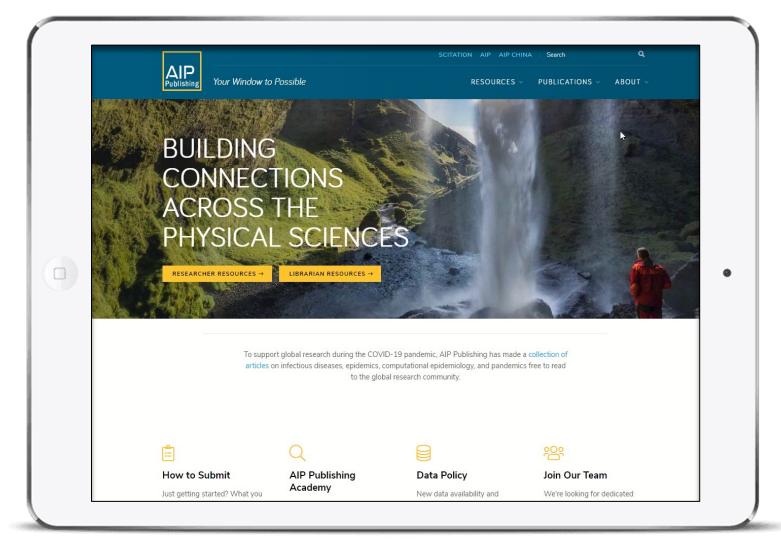


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