**Joint International Conference on The 8th ICMAP & The 9th ISFM**

**January 17-20, 2021 | Online Conference**

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**[MB3] 2D Materials and Their Application to Nano/Micro Devices V**

<table>
<thead>
<tr>
<th>Date / Time</th>
<th>January 18 (Mon.), 2021 / 16:10-17:30</th>
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<tr>
<td>Place</td>
<td>Channel B</td>
</tr>
<tr>
<td>Session Chair(s)</td>
<td>Jae Bum Choo (Chung-Ang Univ., Korea)</td>
</tr>
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**[MB3-1] Invited 16:10-16:40**

**Valley Magnetic Domain: A New Pathway to Valleytronics**

Jae Dong Lee  
*DGIST, Korea*

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**[MB3-2] 16:40-17:00**

**Hardware-Based Cryptographic Primitives Using MoS₂**

Jaeseo Park¹, Jung Woo Leem², Zahyun Ku³, Jun Oh Kim¹, Won Chegal¹, Sangwoo Kang¹, and Young L. Kim²  
¹KRISS, Korea, ²Purdue Univ., USA, ³AFRL, USA

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**[MB3-3] Invited 17:00-17:30**

**Nanoplasmonic Microdevice Platforms for In Vitro Diagnostics**

Jaebum Choo  
*Chung-Ang Univ., Korea*