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### **In-Plane Directional MoS<sub>2</sub> Emitter Employing Dielectric Nanowire Cavity**

Alexey Kuznetsov, Maria Aleksandrovna Anikina, Adilet Nurlanbekovich Toksumakov,

Artem Nikolaevich Abramov, Vyacheslav Vsevolodovich Dremov, Eseniya Zavyalova,

Valeriy Mikhailovich Kondratev, Vladimir Victorovich Federov, Ivan Sergeevich Mukhin, Vasily Kravtsov,

Kostya Sergeevich Novoselov, Aleksey Vladimirovich Arsenin, Valentyn Sergeevich Volkov,

Davit Armenovich Ghazaryan, Alexey Dmitrievich Bolshakov

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### **Leveraging Femtosecond Laser Ablation for Tunable Near-Infrared Optical Properties in MoS<sub>2</sub>-Gold Nanocomposites**

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Alexey Kuznetsov, Prithu Roy, Dmitry V. Grudin, Valeriy M. Kondratev, Svetlana A. Kadinskaya,

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St. Petersburg State Polytechnical University Journal: Physics and Mathematics 2023 3.2

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**Gallium Phosphide Nanowires in a Free-Standing, Flexible, and Semitransparent Membrane for Large-Scale Infrared-to-Visible Light Conversion**

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