

# Byunghoon Ryu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

16  
papers

247  
citations

7  
h-index

15  
g-index

19  
ext. papers

354  
ext. citations

10.4  
avg, IF

3.14  
L-index

#	Paper	IF	Citations
16	Few-Layer MoS Photodetector Arrays for Ultrasensitive On-Chip Enzymatic Colorimetric Analysis. <i>ACS Nano</i> , <b>2021</b> , 15, 7722-7734	16.7	8
15	Near-Infrared Multilayer MoS <sub>2</sub> Photoconductivity-Enabled Ultrasensitive Homogeneous Plasmonic Colorimetric Biosensing (Adv. Mater. Interfaces 24/2021). <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2170145	4.6	1
14	Biosensors: An Integrated Plasm-Photoelectronic Nanostructure Biosensor Detects an Infection Biomarker Accompanying Cell Death in Neutrophils (Small 1/2020). <i>Small</i> , <b>2020</b> , 16, 2070004	11	0
13	Improvement of analogue switching characteristics of MoS <sub>2</sub> memristors through plasma treatment. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 135305	3	6
12	An Integrated Plasm-Photoelectronic Nanostructure Biosensor Detects an Infection Biomarker Accompanying Cell Death in Neutrophils. <i>Small</i> , <b>2020</b> , 16, e1905611	11	17
11	A study on MoS <sub>2</sub> -based multilevel transistor memories for neuromorphic computing. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 213102	3.4	1
10	Inkjet-defined site-selective (IDSS) growth for controllable production of in-plane and out-of-plane MoS device arrays. <i>Nanoscale</i> , <b>2020</b> , 12, 16917-16927	7.7	0
9	Integrated on-site collection and detection of airborne microparticles for smartphone-based micro-climate quality control. <i>Analyst, The</i> , <b>2020</b> , 145, 6283-6290	5	2
8	Rubbing-Induced Site-Selective Growth of MoS Device Patterns. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43774-43784	9.5	10
7	MoS Memristors Exhibiting Variable Switching Characteristics toward Biorealistic Synaptic Emulation. <i>ACS Nano</i> , <b>2018</b> , 12, 9240-9252	16.7	119
6	Cyclewise Operation of Printed MoS Transistor Biosensors for Rapid Biomolecule Quantification at Femtomolar Levels. <i>ACS Sensors</i> , <b>2017</b> , 2, 274-281	9.2	27
5	Biotunable Nanoplasmonic Filter on Few-Layer MoS for Rapid and Highly Sensitive Cytokine Optoelectronic Immunosensing. <i>ACS Nano</i> , <b>2017</b> , 11, 5697-5705	16.7	35
4	Fabrication of prebent MoS <sub>2</sub> biosensors on flexible substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 06G805	1.3	6
3	Nanofluidic/nanoelectronic study on solvent-processed nanoscale organic transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 06G801	1.3	0
2	Nanoimprint-assisted shear exfoliation plus transfer printing for producing transition metal dichalcogenide heterostructures. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 06KA01	1.3	7
1	Near-Infrared Multilayer MoS <sub>2</sub> Photoconductivity-Enabled Ultrasensitive Homogeneous Plasmonic Colorimetric Biosensing. <i>Advanced Materials Interfaces</i> , 2101291	4.6	1