

# Rajesh K Ulaganathan

## List of Publications by Year in descending order

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19  
papers

1,074  
citations

623574

14  
h-index

839398

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

2104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic Electron Mobility Exceeding $10^3 \text{ cm}^2/(\text{V s})$ in Multilayer InSe FETs. Nano Letters, 2015, 15, 3815-3819.	4.5	354
2	Three-Dimensional Heterostructures of $\text{MoS}_2$ Nanosheets on Conducting $\text{MoO}_2$ as an Efficient Electrocatalyst To Enhance Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2015, 7, 23328-23335.	4.0	150
3	High photosensitivity and broad spectral response of multi-layered germanium sulfide transistors. Nanoscale, 2016, 8, 2284-2292.	2.8	129
4	Ultra-thin Layered Ternary Single Crystals $[\text{Sn}(\text{S}_x\text{Se}_{1-x})_2]$ with Bandgap Engineering for High Performance Phototransistors on Versatile Substrates. Advanced Functional Materials, 2016, 26, 3630-3638.	7.8	77
5	Ultrasensitive tunability of the direct bandgap of 2D InSe flakes via strain engineering. 2D Materials, 2018, 5, 021002.	2.0	75
6	Tuning Rashba Spin-Orbit Coupling in Gated Multilayer InSe. Nano Letters, 2018, 18, 4403-4408.	4.5	58
7	Enhanced Light Emission from the Ridge of Two-Dimensional InSe Flakes. Nano Letters, 2018, 18, 5078-5084.	4.5	35
8	A Bi-Anti-Ambipolar Field Effect Transistor. ACS Nano, 2021, 15, 8686-8693.	7.3	30
9	High-Performance Flexible Broadband Photodetectors Based on 2D Hafnium Selenosulfide Nanosheets. Advanced Electronic Materials, 2020, 6, 1900794.	2.6	24
10	Hybrid InSe Nanosheets and $\text{MoS}_2$ Quantum Dots for High-Performance Broadband Photodetectors and Photovoltaic Cells. Advanced Materials Interfaces, 2019, 6, 1801336.	1.9	23
11	One-Step Synthesis of Antioxidative Graphene-Wrapped Copper Nanoparticles on Flexible Substrates for Electronic and Electrocatalytic Applications. ACS Applied Materials & Interfaces, 2017, 9, 25067-25072.	4.0	21
12	Lipid-Modified Graphene-Transistor Biosensor for Monitoring Amyloid- $\beta^2$ Aggregation. ACS Applied Materials & Interfaces, 2018, 10, 12311-12316.	4.0	21
13	Sn-Doping Enhanced Ultrahigh Mobility $\text{In}_{1-x}\text{Sn}_x\text{Se}$ Phototransistor. ACS Applied Materials & Interfaces, 2019, 11, 24269-24278.	4.0	17
14	Staggered band offset induced high performance opto-electronic devices: Atomically thin vertically stacked GaSe-SnS <sub>2</sub> van der Waals p-n heterostructures. Applied Surface Science, 2021, 535, 147480.	3.1	16
15	Modulating Charge Separation with Hexagonal Boron Nitride Mediation in Vertical Van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 26213-26221.	4.0	14
16	Ultra-high performance flexible piezopotential gated $\text{In}_x\text{Sn}_{1-x}\text{Se}$ phototransistor. Nanoscale, 2018, 10, 18642-18650.	2.8	13
17	Stable Formamidinium-Based Centimeter Long Two-Dimensional Lead Halide Perovskite Single-Crystal for Long-Live Optoelectronic Applications. Advanced Functional Materials, 0, , 2112277.	7.8	8
18	Silicon-based two-dimensional chalcogenide of p-type semiconducting silicon telluride nanosheets for ultrahigh sensitive photodetector applications. Journal of Materials Chemistry C, 2021, 9, 10478-10486.	2.7	5

#	ARTICLE	IF	CITATIONS
19	Electron-electron interactions in the two-dimensional semiconductor InSe. Physical Review B, 2020, 102, .	1.1	4