

# Rusen Yan

## List of Publications by Year in descending order

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31  
papers

4,308  
citations

361296

20  
h-index

642610

23  
g-index

32  
all docs

32  
docs citations

32  
times ranked

7337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Beam Epitaxy of Transition Metal Nitrides for Superconducting Device Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900675.	0.8	16
2	Room-Temperature Graphene-Nanoribbon Tunneling Field-Effect Transistors. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	26
3	Thickness dependence of superconductivity in ultrathin NbS <sub>2</sub> . <i>Applied Physics Express</i> , 2019, 12, 023008.	1.1	48
4	GaN/NbN epitaxial semiconductor/superconductor heterostructures. <i>Nature</i> , 2018, 555, 183-189.	13.7	116
5	Band offset and electron affinity of MBE-grown SnSe <sub>2</sub> . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	13
6	Room temperature microwave oscillations in GaN/AlN resonant tunneling diodes with peak current densities up to 220 kA/cm <sup>2</sup> . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	51
7	Tunneling devices over van der Waals bonded hetero-interface. , 2017, , .		0
8	S-shaped negative differential resistance in III-Nitride blue quantum-well laser diodes grown by plasma-assisted MBE. , 2017, , .		1
9	Near-field Enhancement and Optimal Performance in Metamaterial Terahertz Modulators Based on 2D-materials. , 2016, , .		0
10	Two-dimensional heterojunction interlayer tunnel FET (Thin-TFET): From theory to applications. , 2016, , .		14
11	Exceptional Terahertz Wave Modulation in Graphene Enhanced by Frequency Selective Surfaces. <i>ACS Photonics</i> , 2016, 3, 315-323.	3.2	67
12	THz devices based on 2D electron systems. , 2015, , .		1
13	Esaki Diodes in van der Waals Heterojunctions with Broken-Gap Energy Band Alignment. <i>Nano Letters</i> , 2015, 15, 5791-5798.	4.5	319
14	Thermal Conductivity of Monolayer Molybdenum Disulfide Obtained from Temperature-Dependent Raman Spectroscopy. <i>ACS Nano</i> , 2014, 8, 986-993.	7.3	666
15	Direct Measurement of Dirac Point Energy at the Graphene/Oxide Interface. <i>Nano Letters</i> , 2013, 13, 131-136.	4.5	67
16	Exciton Dynamics in Suspended Monolayer and Few-Layer MoS <sub>2</sub> 2D Crystals. <i>ACS Nano</i> , 2013, 7, 1072-1080.	7.3	686
17	Comparative study of chemically synthesized and exfoliated multilayer MoS <sub>2</sub> field-effect transistors. <i>Applied Physics Letters</i> , 2013, 102, 043116.	1.5	35
18	Graphene for Reconfigurable Terahertz Optoelectronics. <i>Proceedings of the IEEE</i> , 2013, 101, 1705-1716.	16.4	114

#	ARTICLE	IF	CITATIONS
19	Tunable Graphene-based Metamaterial Terahertz Modulators. , 2013, , .		2
20	Terahertz imaging employing graphene modulator arrays. Optics Express, 2013, 21, 2324.	1.7	113
21	Near-field enhanced graphene terahertz modulator. , 2013, , .		1
22	Graphene as transparent electrode for direct observation of hole photoemission from silicon to oxide. Applied Physics Letters, 2013, 102, .	1.5	24
23	A new class of electrically tunable metamaterial terahertz modulators. Optics Express, 2012, 20, 28664.	1.7	102
24	Exceptional tunability of THz reflectance in graphene structures. , 2012, , .		6
25	Extraordinary Control of Terahertz Beam Reflectance in Graphene Electro-absorption Modulators. Nano Letters, 2012, 12, 4518-4522.	4.5	235
26	First demonstration of two-dimensional WS <sub>2</sub> transistors exhibiting 10 <sup>5</sup> room temperature modulation and ambipolar behavior. , 2012, , .		2
27	Transistors with chemically synthesized layered semiconductor WS <sub>2</sub> exhibiting 10 <sup>5</sup> room temperature modulation and ambipolar behavior. Applied Physics Letters, 2012, 101, .	1.5	237
28	Efficient terahertz electro-absorption modulation employing graphene plasmonic structures. Applied Physics Letters, 2012, 101, .	1.5	103
29	Determination of graphene work function and graphene-insulator-semiconductor band alignment by internal photoemission spectroscopy. Applied Physics Letters, 2012, 101, .	1.5	166
30	Broadband graphene terahertz modulators enabled by intraband transitions. Nature Communications, 2012, 3, 780.	5.8	893
31	Unique prospects for graphene-based terahertz modulators. Applied Physics Letters, 2011, 99, .	1.5	183