

# Alexey Tarasov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8527311/publications.pdf>

Version: 2024-02-01

24  
papers

1,350  
citations

394286

19  
h-index

677027

22  
g-index

24  
all docs

24  
docs citations

24  
times ranked

2779  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Doping of Large-Area Trilayer MoS <sub>2</sub> with Molecular Reductants and Oxidants. <i>Advanced Materials</i> , 2015, 27, 1175-1181.	11.1	183
2	Graphene Transistors Are Insensitive to pH Changes in Solution. <i>Nano Letters</i> , 2011, 11, 3597-3600.	4.5	157
3	Flexible MoS <sub>2</sub> Field-Effect Transistors for Gate-Tunable Piezoresistive Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12850-12855.	4.0	127
4	Understanding the Electrolyte Background for Biochemical Sensing with Ion-Sensitive Field-Effect Transistors. <i>ACS Nano</i> , 2012, 6, 9291-9298.	7.3	105
5	Highly Uniform Trilayer Molybdenum Disulfide for Wafer-Scale Device Fabrication. <i>Advanced Functional Materials</i> , 2014, 24, 6389-6400.	7.8	99
6	Selective Sodium Sensing with Gold-Coated Silicon Nanowire Field-Effect Transistors in a Differential Setup. <i>ACS Nano</i> , 2013, 7, 5978-5983.	7.3	88
7	A potentiometric biosensor for rapid on-site disease diagnostics. <i>Biosensors and Bioelectronics</i> , 2016, 79, 669-678.	5.3	81
8	Highly sensitive, selective and label-free protein detection in physiological solutions using carbon nanotube transistors with nanobody receptors. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1507-1516.	4.0	62
9	Field-effect transistors based on wafer-scale, highly uniform few-layer p-type WSe <sub>2</sub> . <i>Nanoscale</i> , 2016, 8, 2268-2276.	2.8	58
10	Direct, Label-Free, and Rapid Transistor-Based Immunodetection in Whole Serum. <i>ACS Sensors</i> , 2017, 2, 1278-1286.	4.0	52
11	Graphene-Based Electronic Immunosensor with Femtomolar Detection Limit in Whole Serum. <i>Advanced Materials Technologies</i> , 2018, 3, 1800186.	3.0	51
12	Enhanced Resonant Tunneling in Symmetric 2D Semiconductor Vertical Heterostructure Transistors. <i>ACS Nano</i> , 2015, 9, 5000-5008.	7.3	50
13	Investigation of the dominant 1/f noise source in silicon nanowire sensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 270-275.	4.0	46
14	Analytical Model To Describe the Effect of Polyethylene Glycol on Ionic Screening of Analyte Charges in Transistor-Based Immunosensing. <i>ACS Sensors</i> , 2019, 4, 874-882.	4.0	38
15	Gold-coated graphene field-effect transistors for quantitative analysis of protein-antibody interactions. <i>2D Materials</i> , 2015, 2, 044008.	2.0	32
16	Resonant Light-Induced Heating in Hybrid Cavity-Coupled 2D Transition-Metal Dichalcogenides. <i>ACS Photonics</i> , 2016, 3, 700-707.	3.2	27
17	Solution-Processed Doping of Trilayer WSe <sub>2</sub> with Redox-Active Molecules. <i>Chemistry of Materials</i> , 2017, 29, 7296-7304.	3.2	25
18	A transistor-based label-free immunosensor for rapid detection of tau protein. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112129.	5.3	25

#	ARTICLE	IF	CITATIONS
19	Competing surface reactions limiting the performance of ion-sensitive field-effect transistors. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 500-507.	4.0	22
20	Challenges and Opportunities of Tip-Enhanced Raman Spectroscopy in Liquids. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21321-21340.	1.5	11
21	Transistor-based immunosensing in human serum samples without on-site calibration. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 153-158.	4.0	8
22	Graphene Biosensors: Graphene-Based Electronic Immunosensor with Femtomolar Detection Limit in Whole Serum ( <i>Adv. Mater. Technol.</i> 12/2018). <i>Advanced Materials Technologies</i> , 2018, 3, 1870046.	3.0	3
23	Sensing with liquid-gated graphene field-effect transistors. , 2012, , .		0
24	Observation of Direct Electron Transfer from Glucose Dehydrogenase to Single Sheet Graphene Electrode. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0