

Roman Sordan

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

4,141
citations

304602

22
h-index

302012

39
g-index

43
all docs

43
docs citations

43
times ranked

8213
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene/Ge microcrystal photodetectors with enhanced infrared responsivity. APL Photonics, 2022, 7, .	3.0	6
2	Controlling the threshold voltage of a semiconductor field-effect transistor by gating its graphene gate. Npj 2D Materials and Applications, 2022, 6, .	3.9	6
3	Inkjet Printed Circuits with 2D Semiconductor Inks for High-Performance Electronics. Advanced Electronic Materials, 2021, 7, 2100112.	2.6	46
4	Rapid Selective Detection of Ascorbic Acid Using Graphene-Based Microfluidic Platform. IEEE Sensors Journal, 2021, 21, 16744-16753.	2.4	6
5	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. Nature Electronics, 2021, 4, 893-905.	13.1	52
6	Ultra-scaled MoS ₂ transistors and circuits fabricated without nanolithography. 2D Materials, 2020, 7, 015018.	2.0	41
7	Changing the Electronic Polarizability of Monolayer MoS ₂ by Perylene-Based Seeding Promoters. Advanced Materials Interfaces, 2020, 7, 2000791.	1.9	13
8	Graphene-Si CMOS oscillators. Nanoscale, 2019, 11, 3619-3625.	2.8	6
9	Ultra-low contact resistance in graphene devices at the Dirac point. 2D Materials, 2018, 5, 025014.	2.0	50
10	High-quality graphene flakes exfoliated on a flat hydrophobic polymer. Applied Physics Letters, 2018, 112, .	1.5	8
11	A Graphene-Edge Ferroelectric Molecular Switch. Nano Letters, 2018, 18, 4675-4683.	4.5	21
12	Performance Analysis of Flexible Ink-Jet Printed Humidity Sensors Based on Graphene Oxide. IEEE Sensors Journal, 2018, 18, 4378-4383.	2.4	29
13	High-Gain Graphene Transistors with a Thin AlO _x Top-Gate Oxide. Scientific Reports, 2017, 7, 2419.	1.6	36
14	Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics. Nature Communications, 2017, 8, 1202.	5.8	324
15	PCB sensor for bacteria detection in saline. , 2017, , .		0
16	On-Chip Magnetic Platform for Single-Particle Manipulation with Integrated Electrical Feedback. Small, 2016, 12, 921-929.	5.2	15
17	Advanced spectroscopies of graphene and 2D materials. , 2016, , .		0
18	Suspended monolayer graphene under true uniaxial deformation. Nanoscale, 2015, 7, 13033-13042.	2.8	52

#	ARTICLE	IF	CITATIONS
19	Elastic coupling between layers in two-dimensional materials. <i>Nature Materials</i> , 2015, 14, 714-720.	13.3	78
20	Scaling of graphene integrated circuits. <i>Nanoscale</i> , 2015, 7, 8076-8083.	2.8	25
21	Emission Engineering in Germanium Nanoresonators. <i>ACS Photonics</i> , 2015, 2, 53-59.	3.2	27
22	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015, 7, 4598-4810.	2.8	2,452
23	Hysteresis-Free Nanosecond Pulsed Electrical Characterization of Top-Gated Graphene Transistors. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 1583-1589.	1.6	31
24	Parallelization of thermochemical nanolithography. <i>Nanoscale</i> , 2014, 6, 1299-1304.	2.8	41
25	Gigahertz Integrated Graphene Ring Oscillators. <i>ACS Nano</i> , 2013, 7, 5588-5594.	7.3	67
26	Gigahertz multi-transistor graphene integrated circuits. , 2013, , .		3
27	Ultrafast spectroscopic imaging of exfoliated graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2497-2499.	0.7	7
28	Homogeneity of Ge-rich nanostructures as characterized by chemical etching and transmission electron microscopy. <i>Nanotechnology</i> , 2012, 23, 045302.	1.3	11
29	Cascading Wafer-Scale Integrated Graphene Complementary Inverters under Ambient Conditions. <i>Nano Letters</i> , 2012, 12, 3948-3953.	4.5	53
30	Graphene Audio Voltage Amplifier. <i>Small</i> , 2012, 8, 357-361.	5.2	59
31	Graphene: Graphene Audio Voltage Amplifier (<i>Small</i> 3/2012). <i>Small</i> , 2012, 8, 356-356.	5.2	10
32	Polymer-electrolyte gated graphene transistors for analog and digital phase detection. <i>Applied Physics Letters</i> , 2011, 99, 043307.	1.5	8
33	Size Evolution of Ordered SiGe Islands Grown by Surface Thermal Diffusion on Pit-Patterned Si(100) Surface. <i>Nanoscale Research Letters</i> , 2010, 5, 1921-1925.	3.1	3
34	A Graphene Nanoribbon Memory Cell. <i>Small</i> , 2010, 6, 2822-2825.	5.2	32
35	Data storage: A Graphene Nanoribbon Memory Cell (<i>Small</i> 24/2010). <i>Small</i> , 2010, 6, 2821-2821.	5.2	5
36	Elastic properties of graphene suspended on a polymer substrate by e-beam exposure. <i>New Journal of Physics</i> , 2010, 12, 023034.	1.2	27

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37	Nanolithographic Templates Using Diblock Copolymer Films on Chemically Heterogeneous Substrates. Journal of Nanoscience and Nanotechnology, 2010, 10, 6056-6061.	0.9	4
38	Integrated complementary graphene inverter. Applied Physics Letters, 2009, 94, .	1.5	136
39	Vertical arrays of nanofluidic channels fabricated without nanolithography. Lab on A Chip, 2009, 9, 1556.	3.1	19
40	Logic gates with a single graphene transistor. Applied Physics Letters, 2009, 94, .	1.5	215
41	A Selective Electrochemical Approach to Carbon Nanotube Field-Effect Transistors. Nano Letters, 2004, 4, 827-830.	4.5	115
42	Surface Step Structure of Ag ₁₃ OsO ₆ , Experimental Evidence for Ag ₁₃ Cluster Building Blocks.. ChemInform, 2004, 35, no.	0.1	0
43	Surface step structure of Ag ₁₃ OsO ₆ , experimental evidence for Ag ₁₃ cluster building blocks. Chemical Communications, 2004, , 462-463.	2.2	2