

Roman Sordan

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

4,141
citations

304743

22
h-index

302126

39
g-index

43
all docs

43
docs citations

43
times ranked

8213
citing authors

#	ARTICLE	IF	CITATIONS
1	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015, 7, 4598-4810.	5.6	2,452
2	Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics. <i>Nature Communications</i> , 2017, 8, 1202.	12.8	324
3	Logic gates with a single graphene transistor. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	215
4	Integrated complementary graphene inverter. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	136
5	A Selective Electrochemical Approach to Carbon Nanotube Field-Effect Transistors. <i>Nano Letters</i> , 2004, 4, 827-830.	9.1	115
6	Elastic coupling between layers in two-dimensional materials. <i>Nature Materials</i> , 2015, 14, 714-720.	27.5	78
7	Gigahertz Integrated Graphene Ring Oscillators. <i>ACS Nano</i> , 2013, 7, 5588-5594.	14.6	67
8	Graphene Audio Voltage Amplifier. <i>Small</i> , 2012, 8, 357-361.	10.0	59
9	Cascading Wafer-Scale Integrated Graphene Complementary Inverters under Ambient Conditions. <i>Nano Letters</i> , 2012, 12, 3948-3953.	9.1	53
10	Suspended monolayer graphene under true uniaxial deformation. <i>Nanoscale</i> , 2015, 7, 13033-13042.	5.6	52
11	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. <i>Nature Electronics</i> , 2021, 4, 893-905.	26.0	52
12	Ultra-low contact resistance in graphene devices at the Dirac point. <i>2D Materials</i> , 2018, 5, 025014.	4.4	50
13	Inkjet Printed Circuits with 2D Semiconductor Inks for High-Performance Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100112.	5.1	46
14	Parallelization of thermochemical nanolithography. <i>Nanoscale</i> , 2014, 6, 1299-1304.	5.6	41
15	Ultra-scaled MoS ₂ transistors and circuits fabricated without nanolithography. <i>2D Materials</i> , 2020, 7, 015018.	4.4	41
16	High-Gain Graphene Transistors with a Thin AlO _x Top-Gate Oxide. <i>Scientific Reports</i> , 2017, 7, 2419.	3.3	36
17	A Graphene Nanoribbon Memory Cell. <i>Small</i> , 2010, 6, 2822-2825.	10.0	32
18	Hysteresis-Free Nanosecond Pulsed Electrical Characterization of Top-Gated Graphene Transistors. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 1583-1589.	3.0	31

#	ARTICLE	IF	CITATIONS
19	Performance Analysis of Flexible Ink-Jet Printed Humidity Sensors Based on Graphene Oxide. IEEE Sensors Journal, 2018, 18, 4378-4383.	4.7	29
20	Elastic properties of graphene suspended on a polymer substrate by e-beam exposure. New Journal of Physics, 2010, 12, 023034.	2.9	27
21	Emission Engineering in Germanium Nanoresonators. ACS Photonics, 2015, 2, 53-59.	6.6	27
22	Scaling of graphene integrated circuits. Nanoscale, 2015, 7, 8076-8083.	5.6	25
23	A Graphene-Edge Ferroelectric Molecular Switch. Nano Letters, 2018, 18, 4675-4683.	9.1	21
24	Vertical arrays of nanofluidic channels fabricated without nanolithography. Lab on A Chip, 2009, 9, 1556.	6.0	19
25	On-Chip Magnetic Platform for Single-Particle Manipulation with Integrated Electrical Feedback. Small, 2016, 12, 921-929.	10.0	15
26	Changing the Electronic Polarizability of Monolayer MoS ₂ by Perylene-Based Seeding Promoters. Advanced Materials Interfaces, 2020, 7, 2000791.	3.7	13
27	Homogeneity of Ge-rich nanostructures as characterized by chemical etching and transmission electron microscopy. Nanotechnology, 2012, 23, 045302.	2.6	11
28	Graphene: Graphene Audio Voltage Amplifier (Small 3/2012). Small, 2012, 8, 356-356.	10.0	10
29	Polymer-electrolyte gated graphene transistors for analog and digital phase detection. Applied Physics Letters, 2011, 99, 043307.	3.3	8
30	High-quality graphene flakes exfoliated on a flat hydrophobic polymer. Applied Physics Letters, 2018, 112, .	3.3	8
31	Ultrafast spectroscopic imaging of exfoliated graphene. Physica Status Solidi (B): Basic Research, 2012, 249, 2497-2499.	1.5	7
32	Graphene-Si CMOS oscillators. Nanoscale, 2019, 11, 3619-3625.	5.6	6
33	Rapid Selective Detection of Ascorbic Acid Using Graphene-Based Microfluidic Platform. IEEE Sensors Journal, 2021, 21, 16744-16753.	4.7	6
34	Graphene/Ge microcrystal photodetectors with enhanced infrared responsivity. APL Photonics, 2022, 7, .	5.7	6
35	Controlling the threshold voltage of a semiconductor field-effect transistor by gating its graphene gate. Npj 2D Materials and Applications, 2022, 6, .	7.9	6
36	Data storage: A Graphene Nanoribbon Memory Cell (Small 24/2010). Small, 2010, 6, 2821-2821.	10.0	5

#	ARTICLE	IF	CITATIONS
37	Nanolithographic Templates Using Diblock Copolymer Films on Chemically Heterogeneous Substrates. Journal of Nanoscience and Nanotechnology, 2010, 10, 6056-6061.	0.9	4
38	Size Evolution of Ordered SiGe Islands Grown by Surface Thermal Diffusion on Pit-Patterned Si(100) Surface. Nanoscale Research Letters, 2010, 5, 1921-1925.	5.7	3
39	Gigahertz multi-transistor graphene integrated circuits. , 2013, , .		3
40	Surface step structure of Ag ₁₃ OsO ₆ , experimental evidence for Ag ₁₃ cluster building blocks. Chemical Communications, 2004, , 462-463.	4.1	2
41	Surface Step Structure of Ag ₁₃ OsO ₆ , Experimental Evidence for Ag ₁₃ Cluster Building Blocks.. ChemInform, 2004, 35, no.	0.0	0
42	Advanced spectroscopies of graphene and 2D materials. , 2016, , .		0
43	PCB sensor for bacteria detection in saline. , 2017, , .		0