

Herre S J Van Der Zant

List of Publications by Year in descending order

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312
papers

32,688
citations

4658

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all docs

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docs citations

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times ranked

29948
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical conductance tunability of a porphyrin-cyclophane single-molecule junction. <i>Nanoscale</i> , 2022, 14, 984-992.	5.6	10
2	Self-Sealing Complex Oxide Resonators. <i>Nano Letters</i> , 2022, 22, 1475-1482.	9.1	10
3	Magnetic-Field Universality of the Kondo Effect Revealed by Thermocurrent Spectroscopy. <i>Physical Review Letters</i> , 2022, 128, 147701.	7.8	11
4	Tunable Strong Coupling of Mechanical Resonance between Spatially Separated FePS ₃ Nanodrums. <i>Nano Letters</i> , 2022, 22, 36-42.	9.1	13
5	Spin-Crossover in Supramolecular Iron(II)-2,6-bis(1 <i>H</i> -Pyrazol-1-yl)pyridine Complexes: Toward Spin-State Switchable Single-Molecule Junctions. <i>ACS Omega</i> , 2022, 7, 13654-13666.	3.5	6
6	Ferritin-Based Single-Electron Devices. <i>Biomolecules</i> , 2022, 12, 705.	4.0	2
7	Benchmark Study of Alkane Molecular Chains. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8801-8806.	3.1	5
8	Mechanical compression in cofacial porphyrin cyclophane pincers. <i>Chemical Science</i> , 2022, 13, 8017-8024.	7.4	7
9	Nanomechanical probing and strain tuning of the Curie temperature in suspended Cr ₂ Ge ₂ Te ₆ -based heterostructures. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	21
10	Porphyrins as building blocks for single-molecule devices. <i>Nanoscale</i> , 2021, 13, 15500-15525.	5.6	22
11	Conformation-dependent charge transport through short peptides. <i>Nanoscale</i> , 2021, 13, 3002-3009.	5.6	18
12	Tuning nonlinear damping in graphene nanoresonators by parametric-direct internal resonance. <i>Nature Communications</i> , 2021, 12, 1099.	12.8	49
13	Benchmark and application of unsupervised classification approaches for univariate data. <i>Communications Physics</i> , 2021, 4, .	5.3	19
14	Complete mapping of the thermoelectric properties of a single molecule. <i>Nature Nanotechnology</i> , 2021, 16, 426-430.	31.5	44
15	Study of charge density waves in suspended 2H-TaS ₂ and 2H-TaSe ₂ by nanomechanical resonance. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	14
16	Controlling the anisotropy of a van der Waals antiferromagnet with light. <i>Science Advances</i> , 2021, 7, .	10.3	59
17	Integrating van der Waals materials on paper substrates for electrical and optical applications. <i>Applied Materials Today</i> , 2021, 23, 101012.	4.3	9
18	Substitution Pattern Controlled Quantum Interference in [2.2]Paracyclophane-Based Single-Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2021, 143, 13944-13951.	13.7	24

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19	Squeeze-Film Effect on Atomically Thin Resonators in the High-Pressure Limit. <i>Nano Letters</i> , 2021, 21, 7617-7624.	9.1	5
20	Dynamics of 2D material membranes. <i>2D Materials</i> , 2021, 8, 042001.	4.4	41
21	Integrating superconducting van der Waals materials on paper substrates. <i>Materials Advances</i> , 2021, 2, 3274-3281.	5.4	6
22	Semi-permeability of graphene nanodrums in sucrose solution. <i>2D Materials</i> , 2021, 8, 015031.	4.4	3
23	Chemical Design and Magnetic Ordering in Thin Layers of 2D Metal-Organic Frameworks (MOFs). <i>Journal of the American Chemical Society</i> , 2021, 143, 18502-18510.	13.7	22
24	Controlling the Entropy of a Single-Molecule Junction. <i>Nano Letters</i> , 2021, 21, 9715-9719.	9.1	9
25	Multi-terminal electronic transport in boron nitride encapsulated TiS ₃ nanosheets. <i>2D Materials</i> , 2020, 7, 015009.	4.4	14
26	Mechanical Fixation by Porphyrin Connection: Synthesis and Transport Studies of a Bicyclic Dimer. <i>Journal of Organic Chemistry</i> , 2020, 85, 118-128.	3.2	6
27	Single-Molecule Transport of Fullerene-Based Curcuminoids. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2698-2704.	3.1	6
28	Ultrathin complex oxide nanomechanical resonators. <i>Communications Physics</i> , 2020, 3, .	5.3	24
29	High-frequency gas effusion through nanopores in suspended graphene. <i>Nature Communications</i> , 2020, 11, 6025.	12.8	21
30	Sensitive capacitive pressure sensors based on graphene membrane arrays. <i>Microsystems and Nanoengineering</i> , 2020, 6, 102.	7.0	44
31	Drawing WS ₂ thermal sensors on paper substrates. <i>Nanoscale</i> , 2020, 12, 22091-22096.	5.6	14
32	Intermolecular Effects on Tunneling through Acenes in Large-Area and Single-Molecule Junctions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22776-22783.	3.1	20
33	Anisotropic magnetoresistance in spin-orbit semimetal Sb_3Te_2 . <i>European Physical Journal Plus</i> , 2020, 135, 627.	2.6	6
34	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS ₃ Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. <i>ACS Applied Nano Materials</i> , 2020, 3, 8794-8802.	5.0	15
35	Synthesis and Transport Studies of a Cofacial Porphyrin Cyclophane. <i>Journal of Organic Chemistry</i> , 2020, 85, 15072-15081.	3.2	5
36	Magnetic and electronic phase transitions probed by nanomechanical resonators. <i>Nature Communications</i> , 2020, 11, 2698.	12.8	69

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37	Single-molecule functionality in electronic components based on orbital resonances. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12849-12866.	2.8	17
38	A Mechanically Tunable Quantum Dot in a Graphene Break Junction. <i>Nano Letters</i> , 2020, 20, 4924-4931.	9.1	9
39	MoS ₂ -on-paper optoelectronics: drawing photodetectors with van der Waals semiconductors beyond graphite. <i>Nanoscale</i> , 2020, 12, 19068-19074.	5.6	34
40	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. <i>Nano Letters</i> , 2020, 20, 1141-1147.	9.1	25
41	Single-Material Graphene Thermocouples. <i>Advanced Functional Materials</i> , 2020, 30, 2000574.	14.9	21
42	Tunable Photodetectors via In Situ Thermal Conversion of TiS ₃ to TiO ₂ . <i>Nanomaterials</i> , 2020, 10, 711.	4.1	14
43	Nonequilibrium thermodynamics of acoustic phonons in suspended graphene. <i>Physical Review Research</i> , 2020, 2, .	3.6	13
44	Nanoelectromechanical Sensors Based on Suspended 2D Materials. <i>Research</i> , 2020, 2020, 8748602.	5.7	93
45	Trapping and electrical characterization of single core/shell iron-based nanoparticles in self-aligned nanogaps. <i>Applied Physics Letters</i> , 2019, 115, 063104.	3.3	3
46	Highly Anisotropic Mechanical and Optical Properties of 2D Layered As ₂ S ₃ Membranes. <i>ACS Nano</i> , 2019, 13, 10845-10851.	14.6	60
47	Sealing Graphene Nanodrums. <i>Nano Letters</i> , 2019, 19, 5313-5318.	9.1	41
48	Unravelling the conductance path through single-porphyrin junctions. <i>Chemical Science</i> , 2019, 10, 8299-8305.	7.4	30
49	Can One Define the Conductance of Amino Acids?. <i>Biomolecules</i> , 2019, 9, 580.	4.0	29
50	Large Tunability of Strain in WO ₃ Single-Crystal Microresonators Controlled by Exposure to H ₂ Gas. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44438-44443.	8.0	9
51	Efficient heating of single-molecule junctions for thermoelectric studies at cryogenic temperatures. <i>Applied Physics Letters</i> , 2019, 115, 073103.	3.3	11
52	Mass measurement of graphene using quartz crystal microbalances. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	10
53	A highly conductive fibre network enables centimetre-scale electron transport in multicellular cable bacteria. <i>Nature Communications</i> , 2019, 10, 4120.	12.8	91
54	Robust graphene-based molecular devices. <i>Nature Nanotechnology</i> , 2019, 14, 957-961.	31.5	50

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55	High-Frequency Stochastic Switching of Graphene Resonators Near Room Temperature. <i>Nano Letters</i> , 2019, 19, 1282-1288.	9.1	39
56	Single-molecule quantum-transport phenomena in break junctions. <i>Nature Reviews Physics</i> , 2019, 1, 381-396.	26.6	209
57	Thickness-Dependent Refractive Index of 1L, 2L, and 3L MoS ₂ , MoSe ₂ , WS ₂ , and WSe ₂ . <i>Advanced Optical Materials</i> , 2019, 7, 1900239.	7.3	155
58	Ground-State Spin Blockade in a Single-Molecule Junction. <i>Physical Review Letters</i> , 2019, 122, 197701.	7.8	33
59	Enhanced Separation Concept (ESC): Removing the Functional Subunit from the Electrode by Molecular Design. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 5334-5343.	2.4	11
60	A reference-free clustering method for the analysis of molecular break-junction measurements. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	57
61	Atomically thin p-n junctions based on two-dimensional materials. <i>Chemical Society Reviews</i> , 2018, 47, 3339-3358.	38.1	231
62	On-chip Heaters for Tension Tuning of Graphene Nanodrums. <i>Nano Letters</i> , 2018, 18, 2852-2858.	9.1	27
63	Spin-state dependent conductance switching in single molecule-graphene junctions. <i>Nanoscale</i> , 2018, 10, 7905-7911.	5.6	46
64	Graphene mechanical pixels for Interferometric Modulator Displays. <i>Nature Communications</i> , 2018, 9, 4837.	12.8	16
65	Mechanically controlled quantum interference in graphene break junctions. <i>Nature Nanotechnology</i> , 2018, 13, 1126-1131.	31.5	73
66	Spin signatures in the electrical response of graphene nanogaps. <i>Nanoscale</i> , 2018, 10, 18169-18177.	5.6	10
67	Graphene gas pumps. <i>2D Materials</i> , 2018, 5, 031009.	4.4	15
68	Opto-thermally excited multimode parametric resonance in graphene membranes. <i>Scientific Reports</i> , 2018, 8, 9366.	3.3	42
69	Electric-field induced bistability in single-molecule conductance measurements for boron coordinated curcuminoid compounds. <i>Chemical Science</i> , 2018, 9, 6988-6996.	7.4	16
70	Isorecticular two-dimensional magnetic coordination polymers prepared through pre-synthetic ligand functionalization. <i>Nature Chemistry</i> , 2018, 10, 1001-1007.	13.6	94
71	Massively parallel fabrication of crack-defined gold break junctions featuring sub-3-nm gaps for molecular devices. <i>Nature Communications</i> , 2018, 9, 3433.	12.8	59
72	Large Conductance Variations in a Mechanosensitive Single-Molecule Junction. <i>Nano Letters</i> , 2018, 18, 5981-5988.	9.1	69

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73	Quantum Transport through a Single Conjugated Rigid Molecule, a Mechanical Break Junction Study. Accounts of Chemical Research, 2018, 51, 1359-1367.	15.6	40
74	Large birefringence and linear dichroism in TiS ₃ nanosheets. Nanoscale, 2018, 10, 12424-12429.	5.6	40
75	Transient thermal characterization of suspended monolayer MoS_2 . Physical Review Materials, 2018, 2, .		
76	Franckeite as a naturally occurring van der Waals heterostructure. Nature Communications, 2017, 8, 14409.	12.8	103
77	Direct and parametric synchronization of a graphene self-oscillator. Applied Physics Letters, 2017, 110, .	3.3	18
78	Electronics and optoelectronics of quasi-1D layered transition metal trichalcogenides. 2D Materials, 2017, 4, 022003.	4.4	146
79	Redox-Induced Gating of the Exchange Interactions in a Single Organic Diradical. ACS Nano, 2017, 11, 5879-5883.	14.6	50
80	Very large scale characterization of graphene mechanical devices using a colorimetry technique. Nanoscale, 2017, 9, 7559-7564.	5.6	14
81	Proximity-Induced Shiba States in a Molecular Junction. Physical Review Letters, 2017, 118, 117001.	7.8	44
82	Phase Transitions in Spin-Crossover Thin Films Probed by Graphene Transport Measurements. Nano Letters, 2017, 17, 186-193.	9.1	90
83	Design of an efficient coherent multi-site single-molecule rectifier. Physical Chemistry Chemical Physics, 2017, 19, 29187-29194.	2.8	14
84	Nonlinear dynamic characterization of two-dimensional materials. Nature Communications, 2017, 8, 1253.	12.8	96
85	Optomechanics for thermal characterization of suspended graphene. Physical Review B, 2017, 96, .	3.2	38
86	Suspended graphene beams with tunable gap for squeeze-film pressure sensing. , 2017, , .		9
87	Static Capacitive Pressure Sensing Using a Single Graphene Drum. ACS Applied Materials & Interfaces, 2017, 9, 43205-43210.	8.0	47
88	Graphene gas osmometers. 2D Materials, 2017, 4, 011002.	4.4	23
89	Amplitude calibration of 2D mechanical resonators by nonlinear optical transduction. Applied Physics Letters, 2017, 111, 253104.	3.3	14
90	Insulator-protected mechanically controlled break junctions for measuring single-molecule conductance in aqueous environments. Applied Physics Letters, 2016, 109, .	3.3	10

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91	Centimeter-Scale Synthesis of Ultrathin Layered MoO ₃ by van der Waals Epitaxy. <i>Chemistry of Materials</i> , 2016, 28, 4042-4051.	6.7	100
92	A gate-tunable single-molecule diode. <i>Nanoscale</i> , 2016, 8, 8919-8923.	5.6	76
93	Stretching-Induced Conductance Increase in a Spin-Crossover Molecule. <i>Nano Letters</i> , 2016, 16, 4733-4737.	9.1	96
94	Colorimetry Technique for Scalable Characterization of Suspended Graphene. <i>Nano Letters</i> , 2016, 16, 6792-6796.	9.1	23
95	Mechanically controlled quantum interference in individual π -stacked dimers. <i>Nature Chemistry</i> , 2016, 8, 1099-1104.	13.6	190
96	Transition from Strong to Weak Electronic Coupling in a Single-Molecule Junction. <i>Physical Review Letters</i> , 2016, 117, 126804.	7.8	36
97	Multiscale Approach to the Study of the Electronic Properties of Two Thiophene Curcuminoid Molecules. <i>Chemistry - A European Journal</i> , 2016, 22, 12808-12818.	3.3	18
98	Titanium trisulfide (TiS ₃): a 2D semiconductor with quasi-1D optical and electronic properties. <i>Scientific Reports</i> , 2016, 6, 22214.	3.3	107
99	Enhanced superconductivity in atomically thin TaS ₂ . <i>Nature Communications</i> , 2016, 7, 11043.	12.8	285
100	Synthesis of 1,2-biphenylethane based single-molecule diodes. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2439-2443.	2.8	11
101	Precise and reversible band gap tuning in single-layer MoSe ₂ by uniaxial strain. <i>Nanoscale</i> , 2016, 8, 2589-2593.	5.6	159
102	Visualizing the Motion of Graphene Nanodrums. <i>Nano Letters</i> , 2016, 16, 2768-2773.	9.1	74
103	Exchange Coupling Inversion in a High-Spin Organic Triradical Molecule. <i>Nano Letters</i> , 2016, 16, 2066-2071.	9.1	60
104	Sequential Electron Transport and Vibrational Excitations in an Organic Molecule Coupled to Few-Layer Graphene Electrodes. <i>ACS Nano</i> , 2016, 10, 2521-2527.	14.6	47
105	Graphene Squeeze-Film Pressure Sensors. <i>Nano Letters</i> , 2016, 16, 568-571.	9.1	143
106	Electron-vibron coupling effects on electron transport via a single-molecule magnet. <i>Physical Review B</i> , 2015, 91, .	3.2	13
107	Image effects in transport at metal-molecule interfaces. <i>Journal of Chemical Physics</i> , 2015, 143, 174106.	3.0	15
108	High-quality-factor tantalum oxide nanomechanical resonators by laser oxidation of TaSe ₂ . <i>Nano Research</i> , 2015, 8, 2842-2849.	10.4	27

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109	Single-Molecule Spin Switch Based on Voltage-Triggered Distortion of the Coordination Sphere. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13425-13430.	13.8	138
110	Single-Molecule Break Junctions Based on a Perylene-Diimide Cyano-Functionalized (PDI8-CN2) Derivative. <i>Nanoscale Research Letters</i> , 2015, 10, 1011.	5.7	11
111	Electrical properties and mechanical stability of anchoring groups for single-molecule electronics. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1558-1567.	2.8	69
112	Probing the local environment of a single OPE3 molecule using inelastic tunneling electron spectroscopy. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2477-2484.	2.8	12
113	Tracking molecular resonance forms of donor-acceptor push-pull molecules by single-molecule conductance experiments. <i>Nature Communications</i> , 2015, 6, 10233.	12.8	36
114	Single-Molecule Resonant Tunneling Diode. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5697-5702.	3.1	46
115	Environmental instability of few-layer black phosphorus. <i>2D Materials</i> , 2015, 2, 011002.	4.4	818
116	Spin Switching in Electronic Devices Based on 2D Assemblies of Spin-Crossover Nanoparticles. <i>Advanced Materials</i> , 2015, 27, 1288-1293.	21.0	102
117	Probing transverse magnetic anisotropy by electronic transport through a single-molecule magnet. <i>Physical Review B</i> , 2015, 91, .	3.2	27
118	Observing magnetic anisotropy in electronic transport through individual single-molecule magnets. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 113202.	1.8	22
119	Electric-Field Control of Interfering Transport Pathways in a Single-Molecule Anthraquinone Transistor. <i>Nano Letters</i> , 2015, 15, 5569-5573.	9.1	59
120	Photocurrent generation with two-dimensional van der Waals semiconductors. <i>Chemical Society Reviews</i> , 2015, 44, 3691-3718.	38.1	802
121	Kondo Effect in a Neutral and Stable All Organic Radical Single Molecule Break Junction. <i>Nano Letters</i> , 2015, 15, 3109-3114.	9.1	117
122	Control of biaxial strain in single-layer molybdenite using local thermal expansion of the substrate. <i>2D Materials</i> , 2015, 2, 015006.	4.4	149
123	TiS ₃ Transistors with Tailored Morphology and Electrical Properties. <i>Advanced Materials</i> , 2015, 27, 2595-2601.	21.0	193
124	Pick-up and drop transfer of diamond nanosheets. <i>Nanotechnology</i> , 2015, 26, 125706.	2.6	10
125	Single-photon emission from localized excitons in an atomically thin semiconductor. <i>Optica</i> , 2015, 2, 347.	9.3	378
126	Observing the semiconducting band-gap alignment of MoS ₂ layers of different atomic thicknesses using a MoS ₂ /SiO ₂ /Si heterojunction tunnel diode. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	8

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127	Temperature-Dependent Raman Spectroscopy of Titanium Trisulfide (TiS ₃) Nanoribbons and Nanosheets. ACS Applied Materials & Interfaces, 2015, 7, 24185-24190.	8.0	89
128	Superconducting molybdenum-rhenium electrodes for single-molecule transport studies. Applied Physics Letters, 2015, 106, .	3.3	9
129	High charge mobility in two-dimensional percolative networks of PbSe quantum dots connected by atomic bonds. Nature Communications, 2015, 6, 8195.	12.8	125
130	Gate-tunable diode and photovoltaic effect in an organic 2D layered material junction. Nanoscale, 2015, 7, 15442-15449.	5.6	84
131	Gate Controlled Photocurrent Generation Mechanisms in High-Gain In ₂ Se ₃ Phototransistors. Nano Letters, 2015, 15, 7853-7858.	9.1	347
132	Mechanics of freely suspended ultrathin layered materials. Annalen Der Physik, 2015, 527, 27-44.	2.4	145
133	Single-molecule transistors. Chemical Society Reviews, 2015, 44, 902-919.	38.1	282
134	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	5.6	2,452
135	Single Photon Emission from Localized Excitons in Monolayer WSe ₂ . , 2015, , .		0
136	Deterministic transfer of two-dimensional materials by all-dry viscoelastic stamping. 2D Materials, 2014, 1, 011002.	4.4	1,375
137	Note: Long-range scanning tunneling microscope for the study of nanostructures on insulating substrates. Review of Scientific Instruments, 2014, 85, 026105.	1.3	2
138	Ultrahigh Photoresponse of Few-Layer TiS ₃ Nanoribbon Transistors. Advanced Optical Materials, 2014, 2, 641-645.	7.3	189
139	Folded MoS ₂ layers with reduced interlayer coupling. Nano Research, 2014, 7, 572-578.	10.4	71
140	The effect of the substrate on the Raman and photoluminescence emission of single-layer MoS ₂ . Nano Research, 2014, 7, 561-571.	10.4	497
141	Franck-Condon Blockade in a Single-Molecule Transistor. Nano Letters, 2014, 14, 3191-3196.	9.1	102
142	Fabrication of hybrid molecular devices using multi-layer graphene break junctions. Journal of Physics Condensed Matter, 2014, 26, 474205.	1.8	20
143	Time-domain response of atomically thin MoS ₂ nanomechanical resonators. Applied Physics Letters, 2014, 105, .	3.3	37
144	A Comprehensive Study of Extended Tetrathiafulvalene Cruciform Molecules for Molecular Electronics: Synthesis and Electrical Transport Measurements. Journal of the American Chemical Society, 2014, 136, 16497-16507.	13.7	55

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145	Photovoltaic and Photothermoelectric Effect in a Double-Gated WSe ₂ Device. Nano Letters, 2014, 14, 5846-5852.	9.1	232
146	Contactless Photoconductance Study on Undoped and Doped Nanocrystalline Diamond Films. ACS Applied Materials & Interfaces, 2014, 6, 11368-11375.	8.0	5
147	Large negative differential conductance in single-molecule break junctions. Nature Nanotechnology, 2014, 9, 830-834.	31.5	170
148	Photovoltaic effect in few-layer black phosphorus PN junctions defined by local electrostatic gating. Nature Communications, 2014, 5, 4651.	12.8	643
149	Fast and Broadband Photoresponse of Few-Layer Black Phosphorus Field-Effect Transistors. Nano Letters, 2014, 14, 3347-3352.	9.1	1,510
150	Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001.	4.4	1,411
151	Long-range orientation and atomic attachment of nanocrystals in 2D honeycomb superlattices. Science, 2014, 344, 1377-1380.	12.6	343
152	Effect of Metal Complexation on the Conductance of Single-Molecular Wires Measured at Room Temperature. Journal of the American Chemical Society, 2014, 136, 8314-8322.	13.7	45
153	Submicrosecond-timescale readout of carbon nanotube mechanical motion. Applied Physics Letters, 2013, 103, .	3.3	9
154	Quantum interference effects at room temperature in OPV-based single-molecule junctions. Nanoscale Research Letters, 2013, 8, 234.	5.7	48
155	Single-layer MoS ₂ Mechanical Resonators. Advanced Materials, 2013, 25, 6719-6723.	21.0	201
156	Local Strain Engineering in Atomically Thin MoS ₂ . Nano Letters, 2013, 13, 5361-5366.	9.1	1,041
157	Hydrogen termination of CVD diamond films by high-temperature annealing at atmospheric pressure. Journal of Chemical Physics, 2013, 138, 234707.	3.0	21
158	Stochastic switching of cantilever motion. Nature Communications, 2013, 4, 2624.	12.8	42
159	<i>In Situ</i> Transmission Electron Microscopy Imaging of Electromigration in Platinum Nanowires. Microscopy and Microanalysis, 2013, 19, 43-48.	0.4	10
160	Large and Tunable Photothermoelectric Effect in Single-Layer MoS ₂ . Nano Letters, 2013, 13, 358-363.	9.1	566
161	Large tunable image-charge effects in single-molecule junctions. Nature Nanotechnology, 2013, 8, 282-287.	31.5	258
162	Signatures of Quantum Interference Effects on Charge Transport Through a Single Benzene Ring. Angewandte Chemie - International Edition, 2013, 52, 3152-3155.	13.8	204

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163	Fast and reliable identification of atomically thin layers of TaSe ₂ crystals. Nano Research, 2013, 6, 191-199.	10.4	62
164	Self-sustained oscillations of a torsional SQUID resonator induced by Lorentz-force back-action. Nature Communications, 2013, 4, 1803.	12.8	17
165	Bonding and Electronic Transport Properties of Fullerene and Fullerene Derivatives in Break-Junction Geometries. Small, 2013, 9, 209-214.	10.0	22
166	A New Class of Extended Tetrathiafulvalene Cruciform Molecules for Molecular Electronics with Dithiafulvene- π -Dithiolate Anchoring Groups. Advanced Materials, 2013, 25, 405-409.	21.0	23
167	Wide-bandwidth charge sensitivity with a radio-frequency field-effect transistor. Applied Physics Letters, 2013, 103, 143102.	3.3	9
168	Nonlinear dynamics of a microelectromechanical oscillator with delayed feedback. Physical Review B, 2013, 88, .	3.2	11
169	Statistical analysis of single-molecule breaking traces. Physica Status Solidi (B): Basic Research, 2013, 250, 2431-2436.	1.5	56
170	Coupling carbon nanotube mechanics to a superconducting circuit. Scientific Reports, 2012, 2, 599.	3.3	52
171	Strongly coupled modes in a weakly driven micromechanical resonator. Applied Physics Letters, 2012, 101, .	3.3	32
172	Probing the charge of a quantum dot with a nanomechanical resonator. Physical Review B, 2012, 86, .	3.2	49
173	Manipulation of organic polyradicals in a single-molecule transistor. Physical Review B, 2012, 86, .	3.2	21
174	Probing optical transitions. Nature Photonics, 2012, 6, 721-722.	31.4	0
175	Current-induced nanogap formation and graphitization in boron-doped diamond films. Applied Physics Letters, 2012, 101, 193106.	3.3	4
176	Quantum Dots at Room Temperature Carved out from Few-Layer Graphene. Nano Letters, 2012, 12, 6096-6100.	9.1	72
177	Elastic Properties of Freely Suspended MoS ₂ Nanosheets. Advanced Materials, 2012, 24, 772-775.	21.0	905
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