

# Han Wang

## List of Publications by Year in descending order

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papers

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50566

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138  
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138  
docs citations

138  
times ranked

22622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic Advantages of Organotin Molecular EUV Photoresists. ACS Applied Materials & Interfaces, 2022, 14, 5514-5524.	4.0	11
2	Defect tolerance in CsPbI <sub>3</sub> : reconstruction of the potential energy landscape and band degeneracy in spin-orbit coupling. Journal of Materials Chemistry A, 2022, 10, 3018-3024.	5.2	9
3	Low voltage control of magnetism in BaFe <sub>10.2</sub> Sc <sub>1.8</sub> O <sub>19</sub> /BaTiO <sub>3</sub> bilayer epitaxial thin film at temperatures up to 390 K. Applied Physics Letters, 2022, 120, 062401.	1.5	1
4	Defects in Statically Unstable Solids: The Case for Cubic Perovskite $\pm$ -CsPbI <sub>3</sub> . Chinese Physics Letters, 2022, 39, 046101.	1.3	12
5	Spin-Phonon Coupling in Ferromagnetic Monolayer Chromium Tribromide. Advanced Materials, 2022, 34, e2108506.	11.1	8
6	Monolayer Sc <sub>2</sub> CF <sub>2</sub> as a Potential Selective and Sensitive NO <sub>2</sub> Sensor: Insight from First-Principles Calculations. ACS Omega, 2022, 7, 9267-9275.	1.6	3
7	Conical intersection and coherent vibrational dynamics in alkyl iodides captured by attosecond transient absorption spectroscopy. Journal of Chemical Physics, 2022, 156, 114304.	1.2	10
8	Integration of Self-Assembled BaZrO <sub>3</sub> -Co Vertically Aligned Nanocomposites on Mica Substrates toward Flexible Spintronics. Crystal Growth and Design, 2022, 22, 718-725.	1.4	4
9	Circuit-Level Memory Technologies and Applications based on 2D Materials. Advanced Materials, 2022, 34, .	11.1	17
10	Orientation-Controlled Anisotropy in Single Crystals of Quasi-1D BaTiS <sub>3</sub> . Chemistry of Materials, 2022, 34, 5680-5689.	3.2	6
11	Activating Thick Buried p-GaN for Device Applications. IEEE Transactions on Electron Devices, 2022, 69, 4224-4230.	1.6	4
12	Roadmap on emerging hardware and technology for machine learning. Nanotechnology, 2021, 32, 012002.	1.3	104
13	Emerging low-dimensional materials for mid-infrared detection. Nano Research, 2021, 14, 1863-1877.	5.8	22
14	Real-time observation and control of optical chaos. Science Advances, 2021, 7, .	4.7	20
15	Electrical properties and charge compensation mechanisms of Cr-doped rutile, TiO <sub>2</sub> . Physical Chemistry Chemical Physics, 2021, 23, 22133-22146.	1.3	8
16	Backbonding contributions to small molecule chemisorption in a metal-organic framework with open copper( <i>scp</i> ) centers. Chemical Science, 2021, 12, 2156-2164.	3.7	21
17	Role of ALD Al <sub>2</sub> O <sub>3</sub> Surface Passivation on the Performance of p-Type Cu <sub>2</sub> O Thin Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 4156-4164.	4.0	31
18	Multifunctional Metal-Oxide Nanocomposite Thin Film with Plasmonic Au Nanopillars Embedded in Magnetic La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> Matrix. Nano Letters, 2021, 21, 1032-1039.	4.5	26

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19	Nano-optoelectrodes Integrated with Flexible Multifunctional Fiber Probes by High-Throughput Scalable Fabrication. ACS Applied Materials & Interfaces, 2021, 13, 9156-9165.	4.0	13
20	A Tantalum Disulfide Charge-Density-Wave Stochastic Artificial Neuron for Emulating Neural Statistical Properties. Nano Letters, 2021, 21, 3465-3472.	4.5	15
21	Ultra-high heating rate effects on the sintering of ceramic nanoparticles: an <i>in situ</i> TEM study. Materials Research Letters, 2021, 9, 373-381.	4.1	13
22	Mapping wave packet bifurcation at a conical intersection in CH3I by attosecond XUV transient absorption spectroscopy. Journal of Chemical Physics, 2021, 154, 234301.	1.2	18
23	Two-dimensional heterostructures and their device applications: progress, challenges and opportunities—review. Journal Physics D: Applied Physics, 2021, 54, 433001.	1.3	30
24	Reconfigurable Stochastic neurons based on tin oxide/MoS <sub>2</sub> hetero-memristors for simulated annealing and the Boltzmann machine. Nature Communications, 2021, 12, 5710.	5.8	14
25	Tri-Gate GaN Junction HEMTs: Physics and Performance Space. IEEE Transactions on Electron Devices, 2021, 68, 4854-4861.	1.6	14
26	Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces. Journal of Materials Chemistry A, 2021, 9, 8425-8434.	5.2	2
27	Magnetic anisotropy of iridium dimers on two-dimensional materials. Physical Chemistry Chemical Physics, 2020, 22, 238-244.	1.3	11
28	Tellurene Photodetector with High Gain and Wide Bandwidth. ACS Nano, 2020, 14, 303-310.	7.3	101
29	Field-assisted heating of Gd-doped ceria thin film. Journal of the American Ceramic Society, 2020, 103, 2309-2314.	1.9	11
30	Beyond Graphene: Low-Symmetry and Anisotropic 2D Materials. Journal of Applied Physics, 2020, 128, 140401.	1.1	13
31	Tri-gate GaN junction HEMT. Applied Physics Letters, 2020, 117, .	1.5	29
32	Tailorable Fe nanostructures and magnetic anisotropy in (La <sub>0.5</sub> Sr <sub>0.5</sub> FeO <sub>3</sub> ) <sub>1-x</sub> Fex thin films integrated on SrTiO <sub>3</sub> and silicon substrates. Materials Today Advances, 2020, 8, 100112.	2.5	8
33	Strain Effects on the Growth of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> (LSMO)–NiO Nanocomposite Thin Films via Substrate Control. ACS Omega, 2020, 5, 23793-23798.	1.6	5
34	Carrier Dynamics and Transfer across the CdS/MoS <sub>2</sub> Interface upon Optical Excitation. Journal of Physical Chemistry Letters, 2020, 11, 6544-6550.	2.1	13
35	Effective doping control in Sm-doped BiFeO <sub>3</sub> thin films <i>via</i> deposition temperature. RSC Advances, 2020, 10, 40229-40233.	1.7	5
36	Exchange Bias in a La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> /NiO Heterointerface Integrated on a Flexible Mica Substrate. ACS Applied Materials & Interfaces, 2020, 12, 39920-39925.	4.0	36

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37	A memristor-based hybrid analog-digital computing platform for mobile robotics. <i>Science Robotics</i> , 2020, 5, .	9.9	28
38	Ceramic Material Processing Towards Future Space Habitat: Electric Current-Assisted Sintering of Lunar Regolith Simulant. <i>Materials</i> , 2020, 13, 4128.	1.3	7
39	Revealing electronic state-switching at conical intersections in alkyl iodides by ultrafast XUV transient absorption spectroscopy. <i>Nature Communications</i> , 2020, 11, 4042.	5.8	40
40	Integration of highly anisotropic multiferroic BaTiO <sub>3</sub> ∕Fe nanocomposite thin films on Si towards device applications. <i>Nanoscale Advances</i> , 2020, 2, 4172-4178.	2.2	13
41	Flash sintering incubation kinetics. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	24
42	Origin of leakage current in vertical GaN devices with nonplanar regrown p-GaN. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	21
43	Temperature effect on mechanical response of flash-sintered ZnO by in-situ compression tests. <i>Acta Materialia</i> , 2020, 200, 699-709.	3.8	21
44	Memristive Device Characteristics Engineering by Controlling the Crystallinity of Switching Layer Materials. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1529-1537.	2.0	7
45	Ultrafast processes in photochromic material YH <sub>x</sub> O <sub>y</sub> studied by excited-state density functional theory simulation. <i>Science China Materials</i> , 2020, 63, 1579-1587.	3.5	14
46	High tunnelling electroresistance in a ferroelectric van der Waals heterojunction via giant barrier height modulation. <i>Nature Electronics</i> , 2020, 3, 466-472.	13.1	150
47	Lateral p-GaN/2DEG junction diodes by selective-area p-GaN trench-filling-regrowth in AlGaN/GaN. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	41
48	Emergence of Nontrivial Low-Energy Dirac Fermions in Antiferromagnetic EuCd <sub>2</sub> As <sub>2</sub> . <i>Advanced Materials</i> , 2020, 32, e1907565.	11.1	51
49	Fluidic Flow Assisted Deterministic Folding of Van der Waals Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1908691.	7.8	5
50	Room-Temperature Ferroelectric LiNb <sub>6</sub> Ba <sub>5</sub> Ti <sub>4</sub> O <sub>30</sub> Spinel Phase in a Nanocomposite Thin Film Form for Nonlinear Photonics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23076-23083.	4.0	6
51	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901990.	1.9	7
52	Investigating extreme ultraviolet radiation chemistry with first-principles quantum chemistry calculations. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2020, 19, .	1.0	4
53	Vertical Ga <sub>2</sub> O <sub>3</sub> Schottky Barrier Diodes With Small-Angle Beveled Field Plates: A Baliga's Figure-of-Merit of 0.6 GW/cm <sup>2</sup> . <i>IEEE Electron Device Letters</i> , 2019, 40, 1399-1402.	2.2	139
54	Two-Phase Room-Temperature Multiferroic Nanocomposite with BiMnO <sub>3</sub> -Tilted Nanopillars in the Bi <sub>2</sub> W <sub>1-x</sub> Mn <sub>x</sub> O <sub>6</sub> Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26261-26267.	4.0	9

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55	A combined multi-reference pump-probe simulation method with application to XUV signatures of ultrafast methyl iodide photodissociation. <i>Journal of Chemical Physics</i> , 2019, 151, 124106.	1.2	12
56	Integration of Hybrid Plasmonic Au@BaTiO <sub>3</sub> Metamaterial on Silicon Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45199-45206.	4.0	25
57	High strength, deformable nanotwinned Al-Co alloys. <i>Materials Research Letters</i> , 2019, 7, 33-39.	4.1	32
58	Semimetal or Semiconductor: The Nature of High Intrinsic Electrical Conductivity in TiS <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6996-7001.	2.1	27
59	Two-dimensional MoS <sub>2</sub> -enabled flexible rectenna for Wi-Fi-band wireless energy harvesting. <i>Nature</i> , 2019, 566, 368-372.	13.7	266
60	Multiferroic vertically aligned nanocomposite with CoFe <sub>2</sub> O <sub>4</sub> nanocones embedded in layered Bi <sub>2</sub> WO <sub>6</sub> matrix. <i>Materials Research Letters</i> , 2019, 7, 418-425.	4.1	14
61	Linear Dichroism Conversion in Quasi-1D Perovskite Chalcogenide. <i>Advanced Materials</i> , 2019, 31, e1902118.	11.1	41
62	Interface depended electronic and magnetic properties of vertical Cr <sub>3</sub> /WSe <sub>2</sub> heterostructures. <i>RSC Advances</i> , 2019, 9, 14766-14771.	1.7	27
63	Photoinduced Vacancy Ordering and Phase Transition in MoTe <sub>2</sub> . <i>Nano Letters</i> , 2019, 19, 3612-3617.	4.5	43
64	Design and Simulation of GaN Superjunction Transistors With 2-DEG Channels and Fin Channels. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019, 7, 1475-1484.	3.7	40
65	Black phosphorus and its isoelectronic materials. <i>Nature Reviews Physics</i> , 2019, 1, 306-317.	11.9	196
66	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by <i>in-situ</i> micromechanical testing at elevated temperatures. <i>Materials Research Letters</i> , 2019, 7, 194-202.	4.1	25
67	Probing ultrafast C-Br bond fission in the UV photochemistry of bromoform with core-to-valence transient absorption spectroscopy. <i>Structural Dynamics</i> , 2019, 6, 054304.	0.9	16
68	Superjunction Power Transistors with Interface Charges: A Case Study for GaN. <i>IEEE Journal of the Electron Devices Society</i> , 2019, , 1-1.	1.2	9
69	High-voltage vertical Ga <sub>2</sub> O <sub>3</sub> power rectifiers operational at high temperatures up to 600%K. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	58
70	Temperature-Dependent Transport in Ultrathin Black Phosphorus Field-Effect Transistors. <i>Nano Letters</i> , 2019, 19, 482-487.	4.5	17
71	Investigating EUV radiation chemistry with first principle quantum chemistry calculations. , 2019, , .		1
72	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. <i>Materials Horizons</i> , 2018, 5, 536-544.	6.4	57

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73	High breakdown electric field in $\hat{I}^2$ -Ga <sub>2</sub> O <sub>3</sub> /graphene vertical barristor heterostructure. Applied Physics Letters, 2018, 112, .	1.5	110
74	Microstructure, Magnetic, and Magnetoresistance Properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> :CuO Nanocomposite Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 5779-5784.	4.0	24
75	Ultra-strong nanotwinned Al–Ni solid solution alloys with significant plasticity. Nanoscale, 2018, 10, 22025-22034.	2.8	30
76	Multifunctional La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> (LSMO) Thin Films Integrated on Mica Substrates toward Flexible Spintronics and Electronics. ACS Applied Materials & Interfaces, 2018, 10, 42698-42705.	4.0	62
77	Epitaxial growth and electrical properties of VO <sub>2</sub> on [LaAlO <sub>3</sub> ] <sub>0.3</sub> [Sr <sub>2</sub> AlTaO <sub>6</sub> ] <sub>0.7</sub> (111) substrate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	6
78	Efficient learning and crossbar operations with atomically-thin 2-D material compound synapses. Journal of Applied Physics, 2018, 124, .	1.1	14
79	Molecule Sensing: Sculpting Extreme Electromagnetic Field Enhancement in Free Space for Molecule Sensing (Small 33/2018). Small, 2018, 14, 1870152.	5.2	2
80	Impact Ionization and Interface Trap Generation in 28-nm MOSFETs at Cryogenic Temperatures. IEEE Transactions on Device and Materials Reliability, 2018, 18, 456-462.	1.5	1
81	Confined Liquid-Phase Growth of Crystalline Compound Semiconductors on Any Substrate. ACS Nano, 2018, 12, 5158-5167.	7.3	19
82	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. Nature Communications, 2018, 9, 2063.	5.8	87
83	Atomically Thin CBRAM Enabled by 2-D Materials: Scaling Behaviors and Performance Limits. IEEE Transactions on Electron Devices, 2018, 65, 4160-4166.	1.6	19
84	Aligned Carbon Nanotube Synaptic Transistors for Large-Scale Neuromorphic Computing. ACS Nano, 2018, 12, 7352-7361.	7.3	128
85	Mid-wave and Long-Wave Infrared Linear Dichroism in a Hexagonal Perovskite Chalcogenide. Chemistry of Materials, 2018, 30, 4897-4901.	3.2	19
86	Sculpting Extreme Electromagnetic Field Enhancement in Free Space for Molecule Sensing. Small, 2018, 14, e1801146.	5.2	36
87	Enhanced Light Emission from the Ridge of Two-Dimensional InSe Flakes. Nano Letters, 2018, 18, 5078-5084.	4.5	35
88	Recent Progress on Stability and Passivation of Black Phosphorus. Advanced Materials, 2018, 30, e1704749.	11.1	248
89	Self-assembled vertically aligned Ni nanopillars in CeO <sub>2</sub> with anisotropic magnetic and transport properties for energy applications. Nanoscale, 2018, 10, 17182-17188.	2.8	34
90	Vertically Aligned Nanocomposite BaTiO <sub>3</sub> :YMnO <sub>3</sub> Thin Films with Room Temperature Multiferroic Properties toward Nanoscale Memory Devices. ACS Applied Nano Materials, 2018, 1, 2509-2514.	2.4	29

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91	Giant optical anisotropy in a quasi-one-dimensional crystal. Nature Photonics, 2018, 12, 392-396.	15.6	269
92	Efficient electrical control of thin-film black phosphorus bandgap. Nature Communications, 2017, 8, 14474.	5.8	249
93	Three-dimensional Pentagon Carbon with a genesis of emergent fermions. Nature Communications, 2017, 8, 15641.	5.8	104
94	Spatial-Temporal Imaging of Anisotropic Photocarrier Dynamics in Black Phosphorus. Nano Letters, 2017, 17, 3675-3680.	4.5	56
95	Theoretical prediction of a graphene-like structure of indium nitride: A promising excellent material for optoelectronics. Applied Materials Today, 2017, 7, 169-178.	2.3	27
96	Atomically Thin Femtojoule Memristive Device. Advanced Materials, 2017, 29, 1703232.	11.1	147
97	Emulating Bilingual Synaptic Response Using a Junction-Based Artificial Synaptic Device. ACS Nano, 2017, 11, 7156-7163.	7.3	106
98	Transport Properties and Device Prospects of Ultrathin Black Phosphorus on Hexagonal Boron Nitride. IEEE Transactions on Electron Devices, 2017, 64, 5163-5171.	1.6	16
99	Novel electronic devices based on low-symmetry two-dimensional materials. , 2017, , .		0
100	Nanoscopy of Black Phosphorus Degradation. Advanced Materials Interfaces, 2016, 3, 1600121.	1.9	67
101	Novel electronic and photonic properties of low-symmetry two-dimensional materials. , 2016, , .		1
102	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. Nano Research, 2016, 9, 1543-1560.	5.8	186
103	Vertical ambipolar barrier transistor based on black phosphorous-tin selenide van der waals heterojunction. , 2016, , .		0
104	Nanoscopy reveals surface-metallic black phosphorus. Light: Science and Applications, 2016, 5, e16162-e16162.	7.7	37
105	Low-symmetry two-dimensional materials for electronic and photonic applications. Nano Today, 2016, 11, 763-777.	6.2	113
106	The role of collective motion in the ultrafast charge transfer in van der Waals heterostructures. Nature Communications, 2016, 7, 11504.	5.8	103
107	Black Phosphorous: Nanoscopy of Black Phosphorus Degradation (Adv. Mater. Interfaces 12/2016). Advanced Materials Interfaces, 2016, 3, .	1.9	2
108	A Dynamically Reconfigurable Ambipolar Black Phosphorus Memory Device. ACS Nano, 2016, 10, 10428-10435.	7.3	97

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109	Monolayer Molybdenum Disulfide Nanoribbons with High Optical Anisotropy. <i>Advanced Optical Materials</i> , 2016, 4, 756-762.	3.6	74
110	Black Phosphorus Mid-Infrared Photodetectors with High Gain. <i>Nano Letters</i> , 2016, 16, 4648-4655.	4.5	616
111	Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. <i>Advanced Materials</i> , 2016, 28, 4991-4997.	11.1	281
112	Stacking Fault Enriching the Electronic and Transport Properties of Few-Layer Phosphorenes and Black Phosphorus. <i>Nano Letters</i> , 2016, 16, 1317-1322.	4.5	37
113	Black Arsenic-Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. <i>Advanced Materials</i> , 2015, 27, 4423-4429.	11.1	378
114	Two-dimensional materials for nanophotonics application. <i>Nanophotonics</i> , 2015, 4, 128-142.	2.9	97
115	Tunable Plasmon-Phonon Polaritons in Layered Graphene-Hexagonal Boron Nitride Heterostructures. <i>ACS Photonics</i> , 2015, 2, 907-912.	3.2	70
116	Synthesis of thin-film black phosphorus on a flexible substrate. <i>2D Materials</i> , 2015, 2, 031002.	2.0	124
117	Highly anisotropic and robust excitons in monolayer black phosphorus. <i>Nature Nanotechnology</i> , 2015, 10, 517-521.	15.6	1,204
118	The renaissance of black phosphorus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4523-4530.	3.3	1,143
119	Interlayer interactions in anisotropic atomically thin rhenium diselenide. <i>Nano Research</i> , 2015, 8, 3651-3661.	5.8	159
120	Two-dimensional material nanophotonics. <i>Nature Photonics</i> , 2014, 8, 899-907.	15.6	2,362
121	Black Phosphorus Radio-Frequency Transistors. <i>Nano Letters</i> , 2014, 14, 6424-6429.	4.5	307
122	Tunable optical properties of multilayer black phosphorus thin films. <i>Physical Review B</i> , 2014, 90, .	1.1	592
123	Rediscovering black phosphorus as an anisotropic layered material for optoelectronics and electronics. <i>Nature Communications</i> , 2014, 5, 4458.	5.8	2,866
124	Plasmons and Screening in Monolayer and Multilayer Black Phosphorus. <i>Physical Review Letters</i> , 2014, 113, 106802.	2.9	515
125	pH sensing properties of graphene solution-gated field-effect transistors. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	88
126	Synthesis and Transfer of Single-Layer Transition Metal Disulfides on Diverse Surfaces. <i>Nano Letters</i> , 2013, 13, 1852-1857.	4.5	612



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127	Two-dimensional materials for ubiquitous electronics. , 2013, , .		1
128	Integrated Circuits Based on Bilayer MoS <sub>2</sub> Transistors. Nano Letters, 2012, 12, 4674-4680.	4.5	1,526
129	Native defects in second-generation topological insulators: Effect of spin-orbit interaction on Bi <sub>2</sub> Se <sub>3</sub> . Physical Review B, 2012, 86, .	1.1	117
130	Graphene Electronics for RF Applications. IEEE Microwave Magazine, 2012, 13, 114-125.	0.7	39
131	Graphene electronics for RF applications. , 2011, , .		2
132	Compact Virtual-Source Current-Voltage Model for Top- and Back-Gated Graphene Field-Effect Transistors. IEEE Transactions on Electron Devices, 2011, 58, 1523-1533.	1.6	66
133	Impact of Graphene Interface Quality on Contact Resistance and RF Device Performance. IEEE Electron Device Letters, 2011, 32, 1008-1010.	2.2	126
134	Al <sub>2</sub> O <sub>3</sub> passivated InAlN/GaN HEMTs on SiC substrate with record current density and transconductance. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2440-2444.	0.8	55
135	Breakdown Voltage for Superjunction Power Devices With Charge Imbalance: An Analytical Model Valid for Both Punch Through and Non Punch Through Devices. IEEE Transactions on Electron Devices, 2009, 56, 3175-3183.	1.6	57