Stephan Hofmann

List of Publications by Year
in descending order

279 papers	16,169 citations	13099 68 h-index	19749 117 g-index
285 all docs	285 docs citations	285 times ranked	18944 citing authors

#	Article	IF	Citations
1	Evidence of synergistic electrocatalysis at a cobalt oxideâ€“graphene interface through nanochemical mapping of scanning transmission X-ray microscopy. Chinese Journal of Physics, 2022, 76, 135-144.	3.9	3
2	Empirical Parameter to Compare Moleculeâ€“Electrode Interfaces in Large-Area Molecular Junctions. ACS Physical Chemistry Au, 2022, 2, 179-190.	4.0	8
3	Giant Magnetoresistance in a Chemical Vapor Deposition Graphene Constriction. ACS Nano, 2022, , .	14.6	0
4	Realization of electronic grade graphene and h-BN. , 2022, , 119-157.		0
5	Terahertz Metamaterial Optoelectronic Modulators With GHz Reconfiguration Speed. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 520-526.	3.1	13
6	Active Terahertz Modulator and Slow Light Metamaterial Devices with Hybrid Graphene-superconductor Coupled Split-ring Resonator Arrays. , 2022, , .		1
7	Tracking interfacial changes of graphene/Ge(1 1 0) during in-vacuum annealing. Applied Surface Science, 2022, 602, 154291.	6.1	2
8	Lateral Extensions to Nanowires for Controlling Nickel Silicidation Kinetics: Improving Contact Uniformity of Nanoelectronic Devices. ACS Applied Nano Materials, 2021, 4, 4371-4378.	5.0	9
9	Rational Passivation of Sulfur Vacancy Defects in Two-Dimensional Transition Metal Dichalcogenides. ACS Nano, 2021, 15, 8780-8789.	14.6	52
10	Growth and Characterisation Studies of Eu3O4 Thin Films Grown on Si/SiO2 and Graphene. Nanomaterials, 2021, 11, 1598.	4.1	3
11	Plasmaâ€Enhanced Atomic Layer Deposition of Al₂O₃ on Graphene Using Monolayer hBN as Interfacial Layer. Advanced Materials Technologies, 2021, 6, 2100489.	5.8	7
12	High-yield parallel fabrication of quantum-dot monolayer single-electron devices displaying Coulomb staircase, contacted by graphene. Nature Communications, 2021, 12, 4307.	12.8	2
13	Piezoelectric Materials for Energy Harvesting and Sensing Applications: Roadmap for Future Smart Materials. Advanced Science, 2021, 8, e2100864.	11.2	259
14	Quantum Emitter Localization in Layer-Engineered Hexagonal Boron Nitride. ACS Nano, 2021, 15, 13591-13603.	14.6	27
15	Surface Electron-Hole Rich Species Active in the Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2021, 143, 12524-12534.	13.7	62
16	Giant photoluminescence enhancement in MoSe₂ monolayers treated with oleic acid ligands. Nanoscale Advances, 2021, 3, 4216-4225.	4.6	14
17	Graphene-based External Optoelectronic Terahertz Modulators for High Speed Wireless Communications. , 2021, , .		2
18	Active Terahertz Modulator and Slow Light Metamaterial Devices with Hybrid Grapheneâ€“Superconductor Photonic Integrated Circuits. Nanomaterials, 2021, 11, 2999.	4.1	19

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19	A highly stable, nanotube-enhanced, CMOS-MEMS thermal emitter for mid-IR gas sensing. Scientific Reports, 2021, 11, 22915.	3.3	11
20	Nanoparticle Dynamics in Oxideâ€Based Memristive Devices. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900587.	1.8	3
21	Oxidising and carburising catalyst conditioning for the controlled growth and transfer of large crystal monolayer hexagonal boron nitride. 2D Materials, 2020, 7, 024005.	4.4	13
22	Tunable Anion-Selective Transport through Monolayer Graphene and Hexagonal Boron Nitride. ACS Nano, 2020, 14, 2729-2738.	14.6	36
23	Active metamaterial polarization modulators for the Terahertz frequency range. Journal of Physics: Conference Series, 2020, 1571, 012003.	0.4	1
24	Integrated Wafer Scale Growth of Single Crystal Metal Films and High Quality Graphene. ACS Nano, 2020, 14, 13593-13601.	14.6	23
25	Catalytically mediated epitaxy of 3D semiconductors on van der Waals substrates. Applied Physics Reviews, 2020, 7, .	11.3	15
26	Understanding metal organic chemical vapour deposition of monolayer WS₂: the enhancing role of Au substrate for simple organosulfur precursors. Nanoscale, 2020, 12, 22234-22244.	5.6	13
27	Mechanical properties of the hollow-wall graphene gyroid lattice. Acta Materialia, 2020, 201, 254-265.	7.9	10
28	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. ACS Nano, 2020, 14, 15293-15305.	14.6	5
29	Crystal Orientation Dependent Oxidation Modes at the Buried Grapheneâ€"Cu Interface. Chemistry of Materials, 2020, 32, 7766-7776.	6.7	19
30	A Terahertz Chiral Metamaterial Modulator. Advanced Optical Materials, 2020, 8, 2000581.	7.3	46
31	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. Applied Physics Letters, 2020, 117, .	3.3	13
32	Long-Range Propagation and Interference of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi></mml:mrow></mml:math> -wave Superconducting Pairs in Graphene. Physical Review Letters, 2020, 125, 087002.	7.8	12
33	Spin filtering by proximity effects at hybridized interfaces in spin-valves with 2D graphene barriers. Nature Communications, 2020, 11, 5670.	12.8	37
34	Graphene-passivated nickel as an efficient hole-injecting electrode for large area organic semiconductor devices. Applied Physics Letters, 2020, 116, .	3.3	3
35	Localized Nanoresonator Mode in Plasmonic Microcavities. Physical Review Letters, 2020, 124, 093901.	7.8	8
36	Through-substrate terahertz time-domain reflection spectroscopy for environmental graphene conductivity mapping. Applied Physics Letters, 2020, 116, .	3.3	19

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37	Ordered graphitic microfoams via shrinkage and catalytic conversion of polymer scaffolds. APL Materials, 2020, 8, 021106.	5.1	4
38	Double Layer Active Terahertz Chiral Metamaterial/graphene Modulators. , 2020, , .		0
39	Environmental graphene conductivity sensing using terahertz time-domain reflection spectroscopy. , 2020, , .		0
40	Enhancing Photoluminescence and Mobilities in WS₂ Monolayers with Oleic Acid Ligands. Nano Letters, 2019, 19, 6299-6307.	9.1	80
41	Reactive intercalation and oxidation at the buried graphene-germanium interface. APL Materials, 2019, 7, .	5.1	16
42	High-Mobility, Wet-Transferred Graphene Grown by Chemical Vapor Deposition. ACS Nano, 2019, 13, 8926-8935.	14.6	132
43	In situ TEM Approaches to Controlling the Growth of Semiconductors on 2D Materials. Microscopy and Microanalysis, 2019, 25, 1424-1425.	0.4	0
44	Terahertz Polarisation Modulator by Electronic Control of Graphene Loaded Chiral Metamaterial Device. , 2019, , .		0
45	Waveguide-Based Platform for Large-FOV Imaging of Optically Active Defects in 2D Materials. ACS Photonics, 2019, 6, 3100-3107.	6.6	11
46	Single-nanowire spectrometers. Science, 2019, 365, 1017-1020.	12.6	291
47	Metamaterial/graphene active terahertz modulators. , 2019, , .		1
48	Graphene-Integrated Metamaterial Device for All-Electrical Polarization Control of Terahertz Quantum Cascade Lasers. ACS Photonics, 2019, 6, 1547-1555.	6.6	45
49	The Role and Control of Residual Bulk Oxygen in the Catalytic Growth of 2D Materials. Journal of Physical Chemistry C, 2019, 123, 16257-16267.	3.1	21
50	Wide-Field Spectral Super-Resolution Mapping of Optically Active Defects in Hexagonal Boron Nitride. Nano Letters, 2019, 19, 2516-2523.	9.1	63
51	Spectrally Resolved Photodynamics of Individual Emitters in Large-Area Monolayers of Hexagonal Boron Nitride. ACS Nano, 2019, 13, 4538-4547.	14.6	47
52	Correlative Fluorescence and Electron Microscopy of Graphene-Enclosed Whole Cells for High Resolution Analysis of Cellular Proteins. Microscopy and Microanalysis, 2019, 25, 5-6.	0.4	0
53	Nonequilibrium properties of graphene probed by superconducting tunnel spectroscopy. Physical Review B, 2019, 99, .	3.2	3
54	Layered material platform for surface plasmon resonance biosensing. Scientific Reports, 2019, 9, 20286.	3.3	55

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55	Electrochemically active Ir NPs on graphene for OER in acidic aqueous electrolyte investigated by in situ and ex situ spectroscopies. Surface Science, 2019, 681, 1-8.	1.9	33
56	A Peeling Approach for Integrated Manufacturing of Large Monolayer h-BN Crystals. ACS Nano, 2019, 13, 2114-2126.	14.6	35
57	Surface Crystallization of Liquid Auâ€"Si and Its Impact on Catalysis. Advanced Materials, 2019, 31, 1806544.	21.0	23
58	Insulator-to-Metallic Spin-Filtering in 2D-Magnetic Tunnel Junctions Based on Hexagonal Boron Nitride. ACS Nano, 2018, 12, 4712-4718.	14.6	88
59	Imaging of Optically Active Defects with Nanometer Resolution. Nano Letters, 2018, 18, 1739-1744.	9.1	61
60	Dirac-Point Shift by Carrier Injection Barrier in Graphene Field-Effect Transistor Operation at Room Temperature. ACS Applied Materials & Interfaces, 2018, 10, 10618-10621.	8.0	5
61	Tunable Klein-like tunnelling of high-temperature superconducting pairs into graphene. Nature Physics, 2018, 14, 25-29.	16.7	39
62	Graphene Conductivity Mapping using Terahertz Time-Domain Reflection Spectroscopy. , 2018, , .		0
63	The Role of Adsorbed and Subsurface Carbon Species for the Selective Alkyne Hydrogenation Over a Pd-Black Catalyst: An Operando Study of Bulk and Surface. Topics in Catalysis, 2018, 61, 2052-2061.	2.8	23
64	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. ACS Nano, 2018, 12, 11756-11784.	14.6	388
65	Active Frequency Modulation of Metamaterial/Graphene Optoelectronic Device Using Coupled Resonators. , 2018, , .		0
66	Amplitude stabilization and active control of a terahertz quantum cascade laser with a graphene loaded split-ring-resonator array. Applied Physics Letters, 2018, 112, .	3.3	12
67	Measuring the thermal properties of anisotropic materials using beam-offset frequency domain thermoreflectance. Journal of Applied Physics, 2018, 123, .	2.5	18
68	Fast, Noncontact, Wafer-Scale, Atomic Layer Resolved Imaging of Two-Dimensional Materials by Ellipsometric Contrast Micrography. ACS Nano, 2018, 12, 8555-8563.	14.6	31
69	Nondestructive Thickness Mapping of Wafer-Scale Hexagonal Boron Nitride Down to a Monolayer. ACS Applied Materials & Interfaces, 2018, 10, 25804-25810.	8.0	17
70	Reduced Graphene Oxide as a Monolithic Multifunctional Conductive Binder for Activated Carbon Supercapacitors. ACS Omega, 2018, 3, 9246-9255.	3.5	21
71	Compressive behavior and failure mechanisms of freestanding and composite 3D graphitic foams. Acta Materialia, 2018, 159, 187-196.	7.9	10
72	Active Control of Electromagnetically Induced Transparency in a Terahertz Metamaterial Array with Graphene for Continuous Resonance Frequency Tuning. Advanced Optical Materials, 2018, 6, 1800570.	7.3	85

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73	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. Angewandte Chemie, 2018, 130, 10755-10759.	2.0	16
74	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. Angewandte Chemie - International Edition, 2018, 57, 10595-10599.	13.8	93
75	Metamaterial/graphene amplitude and frequency modulators for the active control of terahertz quantum cascade lasers. , 2018, , .		0
76	Laser-induced reduction and in-situ optical spectroscopy of individual plasmonic copper nanoparticles for catalytic reactions. Applied Physics Letters, 2017, 110, .	3.3	9
77	Extrinsic Cation Selectivity of 2D Membranes. ACS Nano, 2017, 11, 1340-1346.	14.6	105
78	Raman spectral indicators of catalyst decoupling for transfer of CVD grown 2D materials. Carbon, 2017, 117, 75-81.	10.3	33
79	Introducing Overlapping Grain Boundaries in Chemical Vapor Deposited Hexagonal Boron Nitride Monolayer Films. ACS Nano, 2017, 11, 4521-4527.	14.6	35
80	Encapsulation of graphene transistors and vertical device integration by interface engineering with atomic layer deposited oxide. 2D Materials, 2017, 4, 011008.	4.4	39
81	Geometrical Effect in 2D Nanopores. Nano Letters, 2017, 17, 4223-4230.	9.1	87
82	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. Journal Physics D: Applied Physics, 2017, 50, 174001.	2.8	22
83	Graphene-based nanolaminates as ultra-high permeation barriers. Npj 2D Materials and Applications, 2017, 1, .	7.9	21
84	Graphene Liquid Enclosure for Single-Molecule Analysis of Membrane Proteins in Whole Cells Using Electron Microscopy. ACS Nano, 2017, 11, 11108-11117.	14.6	59
85	Preface for a special issue on 2D materials: growth, characterisation, properties and devices. Journal Physics D: Applied Physics, 2017, 50, 440401.	2.8	1
86	External amplitude and frequency modulation of a terahertz quantum cascade laser using metamaterial/graphene devices. Scientific Reports, 2017, 7, 7657.	3.3	27
87	Atomic layer deposited oxide films as protective interface layers for integrated graphene transfer. Nanotechnology, 2017, 28, 485201.	2.6	18
88	Terahertz Nanoscopy of Plasmonic Resonances with a Quantum Cascade Laser. ACS Photonics, 2017, 4, 2150-2157.	6.6	44
89	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. Scientific Reports, 2017, 7, 10625.	3.3	35
90	From Growth Surface to Device Interface: Preserving Metallic Fe under Monolayer Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2017, 9, 29973-29981.	8.0	16

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91	Engineering the Photoresponse of InAs Nanowires. ACS Applied Materials & Interfaces, 2017, 9, 43993-44000.	8.0	49
92	Embedded nanoparticle dynamics and their influence on switching behaviour of resistive memory devices. Nanoscale, 2017, 9, 17494-17504.	5.6	15
93	Mechanisms of titania nanoparticle mediated growth of turbostratic carbon nanotubes and nanofibers. Journal of Applied Physics, 2017, 122, 014301.	2.5	4
94	Mechanical characterization and cleaning of CVD single-layer h-BN resonators. Npj 2D Materials and Applications, 2017, 1, .	7.9	40
95	Graphene Enclosure Facilitates Single-Molecule Analysis of ErbB2 Receptors in Intact, Hydrated Eukaryotic Cells by Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1304-1305.	0.4	0
96	Chemical vapour deposition of freestanding sub-60â€‰nm graphene gyroids. Applied Physics Letters, 2017, 111, .	3.3	18
97	Robust mapping of electrical properties of graphene from terahertz time-domain spectroscopy with timing jitter correction. Optics Express, 2017, 25, 2725.	3.4	32
98	100 % Amplitude modulation of an external cavity terahertz QCL using an optoelectronic chopper based on metamaterials and graphene. , 2017, , .		1
99	Tunable Photoresponse in InAs Nanowire Photodetectors Through Surface-State Engineering. , 2017, , .		1
100	Optoelectronic Control of an External Cavity Quantum Cascade Laser Using a Graphene Loaded Metamaterial Array. , 2017, , .		0
101	Electron Microscopy of Single Cells in Liquid for Stoichiometric Analysis of Transmembrane Proteins. Microscopy and Microanalysis, 2016, 22, 74-75.	0.4	2
102	Towards a Graphene-Based Low Intensity Photon Counting Photodetector. Sensors, 2016, 16, 1351.	3.8	3
103	Magnetic tunnel junctions with monolayer hexagonal boron nitride tunnel barriers. Applied Physics Letters, 2016, 108, .	3.3	118
104	Atmospheric pressure X-ray photoelectron spectroscopy apparatus: Bridging the pressure gap. Review of Scientific Instruments, 2016, 87, 053121.	1.3	76
105	Graphene based plasmonic terahertz amplitude modulator operating above 100â€‰MHz. Applied Physics Letters, 2016, 108, .	3.3	83
106	Stabilizing a graphene platform toward discrete components. Applied Physics Letters, 2016, 109, 253110.	3.3	16
107	Nanoscale Plasmonâ€Enhanced Spectroscopy in Memristive Switches. Small, 2016, 12, 1334-1341.	10.0	57
108	Thirty Gigahertz Optoelectronic Mixing in Chemical Vapor Deposited Graphene. Nano Letters, 2016, 16, 2988-2993.	9.1	26

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109	Fast terahertz optoelectronic amplitude modulator based on plasmonic metamaterial antenna arrays and graphene. Proceedings of SPIE, 2016, , .	0.8	2
110	In Situ Observations of Phase Transitions in Metastable Nickel (Carbide)/Carbon Nanocomposites. Journal of Physical Chemistry C, 2016, 120, 22571-22584.	3.1	80
111	Parameter Space of Atomic Layer Deposition of Ultrathin Oxides on Graphene. ACS Applied Materials & Interfaces, 2016, 8, 30564-30575.	8.0	47
112	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. ACS Photonics, 2016, 3, 1747-1753.	6.6	42
113	In Situ Graphene Growth Dynamics on Polycrystalline Catalyst Foils. Nano Letters, 2016, 16, 6196-6206.	9.1	62
114	Electronic properties of CVD graphene: The role of grain boundaries, atmospheric doping, and encapsulation by ALD. Physica Status Solidi (B): Basic Research, 2016, 253, 2321-2325.	1.5	17
115	Understanding and Controlling Cu-Catalyzed Graphene Nucleation: The Role of Impurities, Roughness, and Oxygen Scavenging. Chemistry of Materials, 2016, 28, 8905-8915.	6.7	128
116	Measuring the nonlinear refractive index of graphene using the optical Kerr effect method. Optics Letters, 2016, 41, 3281.	3.3	92
117	Catalyst Interface Engineering for Improved 2D Film Lift-Off and Transfer. ACS Applied Materials & Interfaces, 2016, 8, 33072-33082.	8.0	40
118	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. Nature Communications, 2016, 7, 12373.	12.8	81
119	Controlling nanowire growth through electric field-induced deformation of the catalyst droplet. Nature Communications, 2016, 7, 12271.	12.8	49
120	Time Evolution of the Wettability of Supported Graphene under Ambient Air Exposure. Journal of Physical Chemistry C, 2016, 120, 2215-2224.	3.1	108
121	Controlling Catalyst Bulk Reservoir Effects for Monolayer Hexagonal Boron Nitride CVD. Nano Letters, 2016, 16, 1250-1261.	9.1	114
122	Interface dynamics and crystal phase switching in GaAs nanowires. Nature, 2016, 531, 317-322.	27.8	272
123	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. ACS Photonics, 2016, 3, 464-470.	6.6	37
124	Low-bias gate tunable terahertz plasmonic signatures in chemical vapour deposited graphene of varying grain size. Proceedings of SPIE, 2016, , .	0.8	0
125	Towards a general growth model for graphene CVD on transition metal catalysts. Nanoscale, 2016, 8, 2149-2158.	5.6	114
126	Understanding Capacitance Variation in Sub-nanometer Pores by in Situ Tuning of Interlayer Constrictions. ACS Nano, 2016, 10, 747-754.	14.6	64

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127	Measuring the proton selectivity of graphene membranes. Applied Physics Letters, 2015, 107, .	3.3	56
128	Building and Imaging Silicide Nanostructures in Nanowires. Microscopy and Microanalysis, 2015, 21, 1505-1506.	0.4	0
129	Nucleation Control for Large, Single Crystalline Domains of Monolayer Hexagonal Boron Nitride via Si-Doped Fe Catalysts. Nano Letters, 2015, 15, 1867-1875.	9.1	139
130	Influence of Packing Density and Surface Roughness of Vertically-Aligned Carbon Nanotubes on Adhesive Properties of Gecko-Inspired Mimetics. ACS Applied Materials & Interfaces, 2015, 7, 3626-3632.	8.0	33
131	Engineered pixels using active plasmonic holograms with liquid crystals. Physica Status Solidi - Rapid Research Letters, 2015, 9, 125-129.	2.4	13
132	Free-standing graphene membranes on glass nanopores for ionic current measurements. Applied Physics Letters, 2015, 106, .	3.3	45
133	Graphene-Based Ultrathin Flat Lenses. ACS Photonics, 2015, 2, 200-207.	6.6	70
134	Multifunctional oxides for integrated manufacturing of efficient graphene electrodes for organic electronics. Applied Physics Letters, 2015, 106, .	3.3	19
135	Hybrid graphene nematic liquid crystal light scattering device. Nanoscale, 2015, 7, 14114-14120.	5.6	12
136	Engineering high charge transfer n-doping of graphene electrodes and its application to organic electronics. Nanoscale, 2015, 7, 13135-13142.	5.6	43
137	Graphene and chiral nematic liquid crystals: a focus on lasing. RSC Advances, 2015, 5, 57437-57443.	3.6	6
138	Synthesis of nanostructures in nanowires using sequential catalyst reactions. Nature Materials, 2015, 14, 820-825.	27.5	82
139	CVD-Enabled Graphene Manufacture and Technology. Journal of Physical Chemistry Letters, 2015, 6, 2714-2721.	4.6	100
140	Long-Term Passivation of Strongly Interacting Metals with Single-Layer Graphene. Journal of the American Chemical Society, 2015, 137, 14358-14366.	13.7	133
141	Controlling Nanowire Growth by Light. Nano Letters, 2015, 15, 7452-7457.	9.1	16
142	Effects of polymethylmethacrylate-transfer residues on the growth of organic semiconductor molecules on chemical vapor deposited graphene. Applied Physics Letters, 2015, 106, .	3.3	54
143	Protecting nickel with graphene spin-filtering membranes: A single layer is enough. Applied Physics Letters, 2015, 107, .	3.3	65
144	Low temperature growth of carbon nanotubes on tetrahedral amorphous carbon using Feâ€“Cu catalyst. Carbon, 2015, 81, 639-649.	10.3	30

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145	CVD Growth of Carbon Nanostructures from Zirconia: Mechanisms and a Method for Enhancing Yield. Journal of the American Chemical Society, 2014, 136, 17808-17817.	13.7	30
146	Nitrogen controlled iron catalyst phase during carbon nanotube growth. Applied Physics Letters, 2014, 105, .	3.3	22
147	In Situ Observations during Chemical Vapor Deposition of Hexagonal Boron Nitride on Polycrystalline Copper. Chemistry of Materials, 2014, 26, 6380-6392.	6.7	190
148	Graphene-based optical modulator realized in metamaterial split-ring resonators operating in the THz frequency range. , 2014, , .		1
149	Terahertz optical modulator based on metamaterial split-ring resonators and graphene. Optical Engineering, 2014, 53, 057108.	1.0	17
150	Bioâ€Inspired Hierarchical Polymer Fiberâ€"Carbon Nanotube Adhesives. Advanced Materials, 2014, 26, 1456-1461.	21.0	61
151	The role of the sp2:sp3 substrate content in carbon supported nanotube growth. Carbon, 2014, 75, 327-334.	10.3	17
152	Low-Bias Terahertz Amplitude Modulator Based on Split-Ring Resonators and Graphene. ACS Nano, 2014, 8, 2548-2554.	14.6	131
153	Revealing lithiumâ€"silicide phase transformations in nano-structured silicon-based lithium ion batteries via in situ NMR spectroscopy. Nature Communications, 2014, 5, 3217.	12.8	332
154	EBSD study of substrate-mediated growth of hexagonal boron nitride. Journal of Physics: Conference Series, 2014, 522, 012070.	0.4	2
155	The influence of intercalated oxygen on the properties of graphene on polycrystalline Cu under various environmental conditions. Physical Chemistry Chemical Physics, 2014, 16, 25989-26003.	2.8	108
156	Effect of Catalyst Pretreatment on Chirality-Selective Growth of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 5773-5781.	3.1	37
157	Twin Plane Re-entrant Mechanism for Catalytic Nanowire Growth. Nano Letters, 2014, 14, 1288-1292.	9.1	41
158	Organic light emitting diodes with environmentally and thermally stable doped graphene electrodes. Journal of Materials Chemistry C, 2014, 2, 6940.	5.5	59
159	Binder free three-dimensional sulphur/few-layer graphene foam cathode with enhanced high-rate capability for rechargeable lithium sulphur batteries. Nanoscale, 2014, 6, 5746-5753.	5.6	166
160	Interdependency of Subsurface Carbon Distribution and Grapheneâ€"Catalyst Interaction. Journal of the American Chemical Society, 2014, 136, 13698-13708.	13.7	95
161	Co-catalytic Absorption Layers for Controlled Laser-Induced Chemical Vapor Deposition of Carbon Nanotubes. ACS Applied Materials & Interfaces, 2014, 6, 4025-4032.	8.0	14
162	Sub-nanometer Atomic Layer Deposition for Spintronics in Magnetic Tunnel Junctions Based on Graphene Spin-Filtering Membranes. ACS Nano, 2014, 8, 7890-7895.	14.6	109

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163	Metal Oxide Induced Charge Transfer Doping and Band Alignment of Graphene Electrodes for Efficient Organic Light Emitting Diodes. Scientific Reports, 2014, 4, 5380.	3.3	202
164	Catalyst Composition and Impurity-Dependent Kinetics of Nanowire Heteroepitaxy. ACS Nano, 2013, 7, 7689-7697.	14.6	11
165	In Situ Observations of the Atomistic Mechanisms of Ni Catalyzed Low Temperature Graphene Growth. ACS Nano, 2013, 7, 7901-7912.	14.6	163
166	Probing the electronic structure of multi-walled carbon nanotubes by transient optical transmittivity. Carbon, 2013, 57, 50-58.	10.3	8
167	Visible Diffraction from Graphene and Its Application in Holograms. Advanced Optical Materials, 2013, 1, 869-874.	7.3	17
168	Observing Graphene Grow: Catalystâ€"Graphene Interactions during Scalable Graphene Growth on Polycrystalline Copper. Nano Letters, 2013, 13, 4769-4778.	9.1	231
169	Introducing Carbon Diffusion Barriers for Uniform, High-Quality Graphene Growth from Solid Sources. Nano Letters, 2013, 13, 4624-4631.	9.1	104
170	Intrinsic terahertz plasmon signatures in chemical vapour deposited graphene. Applied Physics Letters, 2013, 103, 121110.	3.3	12
171	Tantalum-oxide catalysed chemical vapour deposition of single- and multi-walled carbon nanotubes. RSC Advances, 2013, 3, 4086.	3.6	15
172	Transient reflectivity on vertically aligned single-wall carbon nanotubes. Thin Solid Films, 2013, 543, 51-55.	1.8	3
173	Synthesis of carbon nanotubes and graphene for VLSI interconnects. Microelectronic Engineering, 2013, 107, 210-218.	2.4	15
174	Elastic Properties of Crystallineâ€"Amorphous Coreâ€"Shell Silicon Nanowires. Journal of Physical Chemistry C, 2013, 117, 4219-4226.	3.1	9
175	(Invited) All-Chemical Vapor Deposited Graphene/Silicon Nitride TFTs. ECS Transactions, 2013, 50, 217-221.	0.5	1
176	Highâ€density remote plasma sputtering of highâ€dielectricâ€constant amorphous hafnium oxide films. Physica Status Solidi (B): Basic Research, 2013, 250, 957-967.	1.5	25
177	Substrate-assisted nucleation of ultra-thin dielectric layers on graphene by atomic layer deposition. Applied Physics Letters, 2012, 100, .	3.3	78
178	Metastable Crystalline AuGe Catalysts Formed During Isothermal Germanium Nanowire Growth. Physical Review Letters, 2012, 108, 255702.	7.8	26
179	Plasma stabilisation of metallic nanoparticles on silicon for the growth of carbon nanotubes. Journal of Applied Physics, 2012, 112, 034303.	2.5	13
180	Graphene-Passivated Nickel as an Oxidation-Resistant Electrode for Spintronics. ACS Nano, 2012, 6, 10930-10934.	14.6	138

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181	The Phase of Iron Catalyst Nanoparticles during Carbon Nanotube Growth. Chemistry of Materials, 2012, 24, 4633-4640.	6.7	180
182	Optical feedback mechanisms in laser induced growth of carbon nanotube forests. Applied Physics Letters, 2012, 100, 013112.	3.3	8
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