

# Stephan Hofmann

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

255  
papers

13,070  
citations

62  
h-index

105  
g-index

285  
ext. papers

14,698  
ext. citations

7.4  
avg, IF

6.23  
L-index

#	Paper	IF	Citations
255	Evidence of synergistic electrocatalysis at a cobalt oxide-graphene interface through nanochemical mapping of scanning transmission X-ray microscopy. <i>Chinese Journal of Physics</i> , <b>2022</b> , 76, 135-144	3.5	0
254	Realization of electronic grade graphene and h-BN <b>2022</b> , 119-157		
253	Terahertz Metamaterial Optoelectronic Modulators with GHz Reconfiguration Speed. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2022</b> , 1-1	3.4	2
252	A highly stable, nanotube-enhanced, CMOS-MEMS thermal emitter for mid-IR gas sensing. <i>Scientific Reports</i> , <b>2021</b> , 11, 22915	4.9	2
251	Lateral Extensions to Nanowires for Controlling Nickel Silicidation Kinetics: Improving Contact Uniformity of Nanoelectronic Devices. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 4371-4378	5.6	2
250	Rational Passivation of Sulfur Vacancy Defects in Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Nano</i> , <b>2021</b> , 15, 8780-8789	16.7	19
249	Plasma-Enhanced Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> on Graphene Using Monolayer hBN as Interfacial Layer. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100489	6.8	3
248	High-yield parallel fabrication of quantum-dot monolayer single-electron devices displaying Coulomb staircase, contacted by graphene. <i>Nature Communications</i> , <b>2021</b> , 12, 4307	17.4	
247	Piezoelectric Materials for Energy Harvesting and Sensing Applications: Roadmap for Future Smart Materials. <i>Advanced Science</i> , <b>2021</b> , 8, e2100864	13.6	57
246	Surface Electron-Hole Rich Species Active in the Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12524-12534	16.4	22
245	Giant photoluminescence enhancement in MoSe monolayers treated with oleic acid ligands. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4216-4225	5.1	2
244	Spin filtering by proximity effects at hybridized interfaces in spin-valves with 2D graphene barriers. <i>Nature Communications</i> , <b>2020</b> , 11, 5670	17.4	17
243	Graphene-passivated nickel as an efficient hole-injecting electrode for large area organic semiconductor devices. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 163301	3.4	2
242	Localized Nanoresonator Mode in Plasmonic Microcavities. <i>Physical Review Letters</i> , <b>2020</b> , 124, 093901	7.4	5
241	Through-substrate terahertz time-domain reflection spectroscopy for environmental graphene conductivity mapping. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 021105	3.4	7
240	Oxidising and carburising catalyst conditioning for the controlled growth and transfer of large crystal monolayer hexagonal boron nitride. <i>2D Materials</i> , <b>2020</b> , 7, 024005	5.9	7
239	Tunable Anion-Selective Transport through Monolayer Graphene and Hexagonal Boron Nitride. <i>ACS Nano</i> , <b>2020</b> , 14, 2729-2738	16.7	17

238	Active metamaterial polarization modulators for the Terahertz frequency range. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1571, 012003	0.3	1
237	Integrated Wafer Scale Growth of Single Crystal Metal Films and High Quality Graphene. <i>ACS Nano</i> , <b>2020</b> , 14, 13593-13601	16.7	11
236	Catalytically mediated epitaxy of 3D semiconductors on van der Waals substrates. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 031402	17.3	6
235	Understanding metal organic chemical vapour deposition of monolayer WS: the enhancing role of Au substrate for simple organosulfur precursors. <i>Nanoscale</i> , <b>2020</b> , 12, 22234-22244	7.7	8
234	Mechanical properties of the hollow-wall graphene gyroid lattice. <i>Acta Materialia</i> , <b>2020</b> , 201, 254-265	8.4	6
233	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. <i>ACS Nano</i> , <b>2020</b> , 14, 15293-15305	16.7	2
232	Crystal Orientation Dependent Oxidation Modes at the Buried Graphene-Cu Interface. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7766-7776	9.6	8
231	A Terahertz Chiral Metamaterial Modulator. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000581	8.1	15
230	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 041105	3.4	5
229	Long-Range Propagation and Interference of d-Wave Superconducting Pairs in Graphene. <i>Physical Review Letters</i> , <b>2020</b> , 125, 087002	7.4	3
228	Nanoparticle Dynamics in Oxide-Based Memristive Devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900587	1.6	1
227	Ordered graphitic microfoams via shrinkage and catalytic conversion of polymer scaffolds. <i>APL Materials</i> , <b>2020</b> , 8, 021106	5.7	3
226	Single-nanowire spectrometers. <i>Science</i> , <b>2019</b> , 365, 1017-1020	33.3	130
225	Graphene-Integrated Metamaterial Device for All-Electrical Polarization Control of Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , <b>2019</b> , 6, 1547-1555	6.3	21
224	The Role and Control of Residual Bulk Oxygen in the Catalytic Growth of 2D Materials. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 16257-16267	3.8	14
223	Wide-Field Spectral Super-Resolution Mapping of Optically Active Defects in Hexagonal Boron Nitride. <i>Nano Letters</i> , <b>2019</b> , 19, 2516-2523	11.5	37
222	Spectrally Resolved Photodynamics of Individual Emitters in Large-Area Monolayers of Hexagonal Boron Nitride. <i>ACS Nano</i> , <b>2019</b> , 13, 4538-4547	16.7	24
221	Enhancing Photoluminescence and Mobilities in WS Monolayers with Oleic Acid Ligands. <i>Nano Letters</i> , <b>2019</b> , 19, 6299-6307	11.5	48

220	Reactive intercalation and oxidation at the buried graphene-germanium interface. <i>APL Materials</i> , <b>2019</b> , 7, 071107	5.7	10
219	High-Mobility, Wet-Transferred Graphene Grown by Chemical Vapor Deposition. <i>ACS Nano</i> , <b>2019</b> , 13, 8926-8935	16.7	70
218	In situ TEM Approaches to Controlling the Growth of Semiconductors on 2D Materials. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1424-1425	0.5	
217	Waveguide-Based Platform for Large-FOV Imaging of Optically Active Defects in 2D Materials. <i>ACS Photonics</i> , <b>2019</b> , 6, 3100-3107	6.3	5
216	Correlative Fluorescence and Electron Microscopy of Graphene-Enclosed Whole Cells for High Resolution Analysis of Cellular Proteins. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 5-6	0.5	
215	Nonequilibrium properties of graphene probed by superconducting tunnel spectroscopy. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
214	Layered material platform for surface plasmon resonance biosensing. <i>Scientific Reports</i> , <b>2019</b> , 9, 20286	4.9	33
213	Electrochemically active Ir NPs on graphene for OER in acidic aqueous electrolyte investigated by in situ and ex situ spectroscopies. <i>Surface Science</i> , <b>2019</b> , 681, 1-8	1.8	24
212	A Peeling Approach for Integrated Manufacturing of Large Monolayer h-BN Crystals. <i>ACS Nano</i> , <b>2019</b> , 13, 2114-2126	16.7	27
211	Surface Crystallization of Liquid Au-Si and Its Impact on Catalysis. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806544	14	15
210	Insulator-to-Metallic Spin-Filtering in 2D-Magnetic Tunnel Junctions Based on Hexagonal Boron Nitride. <i>ACS Nano</i> , <b>2018</b> , 12, 4712-4718	16.7	59
209	Imaging of Optically Active Defects with Nanometer Resolution. <i>Nano Letters</i> , <b>2018</b> , 18, 1739-1744	11.5	44
208	Dirac-Point Shift by Carrier Injection Barrier in Graphene Field-Effect Transistor Operation at Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10618-10621	9.5	3
207	Tunable Klein-like tunnelling of high-temperature superconducting pairs into graphene. <i>Nature Physics</i> , <b>2018</b> , 14, 25-29	16.2	23
206	Fast, Noncontact, Wafer-Scale, Atomic Layer Resolved Imaging of Two-Dimensional Materials by Ellipsometric Contrast Micrography. <i>ACS Nano</i> , <b>2018</b> , 12, 8555-8563	16.7	19
205	Nondestructive Thickness Mapping of Wafer-Scale Hexagonal Boron Nitride Down to a Monolayer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 25804-25810	9.5	11
204	Reduced Graphene Oxide as a Monolithic Multifunctional Conductive Binder for Activated Carbon Supercapacitors. <i>ACS Omega</i> , <b>2018</b> , 3, 9246-9255	3.9	16
203	Compressive behavior and failure mechanisms of freestanding and composite 3D graphitic foams. <i>Acta Materialia</i> , <b>2018</b> , 159, 187-196	8.4	6

202	Active Control of Electromagnetically Induced Transparency in a Terahertz Metamaterial Array with Graphene for Continuous Resonance Frequency Tuning. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800570	8.1	56
201	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 10755-10759	3.6	14
200	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10595-10599	16.4	69
199	The Role of Adsorbed and Subsurface Carbon Species for the Selective Alkyne Hydrogenation Over a Pd-Black Catalyst: An Study of Bulk and Surface. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 2052-2061	2.3	17
198	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , <b>2018</b> , 12, 11756-11784	16.7	239
197	Amplitude stabilization and active control of a terahertz quantum cascade laser with a graphene loaded split-ring-resonator array. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 201102	3.4	5
196	Measuring the thermal properties of anisotropic materials using beam-offset frequency domain thermoreflectance. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 245110	2.5	12
195	Laser-induced reduction and in-situ optical spectroscopy of individual plasmonic copper nanoparticles for catalytic reactions. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 071111	3.4	8
194	Extrinsic Cation Selectivity of 2D Membranes. <i>ACS Nano</i> , <b>2017</b> , 11, 1340-1346	16.7	71
193	Raman spectral indicators of catalyst decoupling for transfer of CVD grown 2D materials. <i>Carbon</i> , <b>2017</b> , 117, 75-81	10.4	25
192	Introducing Overlapping Grain Boundaries in Chemical Vapor Deposited Hexagonal Boron Nitride Monolayer Films. <i>ACS Nano</i> , <b>2017</b> , 11, 4521-4527	16.7	27
191	Encapsulation of graphene transistors and vertical device integration by interface engineering with atomic layer deposited oxide. <i>2D Materials</i> , <b>2017</b> , 4, 011008	5.9	29
190	Geometrical Effect in 2D Nanopores. <i>Nano Letters</i> , <b>2017</b> , 17, 4223-4230	11.5	58
189	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 174001	3	17
188	Graphene-based nanolaminates as ultra-high permeation barriers. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	11
187	Graphene Liquid Enclosure for Single-Molecule Analysis of Membrane Proteins in Whole Cells Using Electron Microscopy. <i>ACS Nano</i> , <b>2017</b> , 11, 11108-11117	16.7	44
186	Preface for a special issue on 2D materials: growth, characterisation, properties and devices. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 440401	3	1
185	External amplitude and frequency modulation of a terahertz quantum cascade laser using metamaterial/graphene devices. <i>Scientific Reports</i> , <b>2017</b> , 7, 7657	4.9	19

184	Atomic layer deposited oxide films as protective interface layers for integrated graphene transfer. <i>Nanotechnology</i> , <b>2017</b> , 28, 485201	3.4	14
183	Terahertz Nanoscopy of Plasmonic Resonances with a Quantum Cascade Laser. <i>ACS Photonics</i> , <b>2017</b> , 4, 2150-2157	6.3	26
182	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. <i>Scientific Reports</i> , <b>2017</b> , 7, 10625	4.9	19
181	From Growth Surface to Device Interface: Preserving Metallic Fe under Monolayer Hexagonal Boron Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29973-29981	9.5	13
180	Engineering the Photoresponse of InAs Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43993-44000	3.5	15
179	Embedded nanoparticle dynamics and their influence on switching behaviour of resistive memory devices. <i>Nanoscale</i> , <b>2017</b> , 9, 17494-17504	7.7	13
178	Mechanisms of titania nanoparticle mediated growth of turbostratic carbon nanotubes and nanofibers. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 014301	2.5	4
177	Mechanical characterization and cleaning of CVD single-layer h-BN resonators. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	29
176	Graphene Enclosure Facilitates Single-Molecule Analysis of ErBB2 Receptors in Intact, Hydrated Eukaryotic Cells by Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1304-1305	0.5	1
175	Chemical vapour deposition of freestanding sub-60 nm graphene gyroids. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 253103	3.4	16
174	Robust mapping of electrical properties of graphene from terahertz time-domain spectroscopy with timing jitter correction. <i>Optics Express</i> , <b>2017</b> , 25, 2725-2732	3.3	22
173	Tunable Photoresponse in InAs Nanowire Photodetectors Through Surface-State Engineering <b>2017</b>	1	1
172	Studying biological samples in their native liquid environment using electron microscopy <b>2016</b> , 165-166	1	1
171	In Situ Graphene Growth Dynamics on Polycrystalline Catalyst Foils. <i>Nano Letters</i> , <b>2016</b> , 16, 6196-6206	11.5	51
170	Electronic properties of CVD graphene: The role of grain boundaries, atmospheric doping, and encapsulation by ALD. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 2321-2325	1.3	15
169	Understanding and Controlling Cu-Catalyzed Graphene Nucleation: The Role of Impurities, Roughness, and Oxygen Scavenging. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8905-8915	9.6	109
168	Measuring the nonlinear refractive index of graphene using the optical Kerr effect method. <i>Optics Letters</i> , <b>2016</b> , 41, 3281-4	3	74
167	Catalyst Interface Engineering for Improved 2D Film Lift-Off and Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33072-33082	9.5	31

166	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. <i>Nature Communications</i> , <b>2016</b> , 7, 12373	17.4	67
165	Controlling nanowire growth through electric field-induced deformation of the catalyst droplet. <i>Nature Communications</i> , <b>2016</b> , 7, 12271	17.4	41
164	Time Evolution of the Wettability of Supported Graphene under Ambient Air Exposure. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 2215-2224	3.8	81
163	Controlling Catalyst Bulk Reservoir Effects for Monolayer Hexagonal Boron Nitride CVD. <i>Nano Letters</i> , <b>2016</b> , 16, 1250-61	11.5	97
162	Interface dynamics and crystal phase switching in GaAs nanowires. <i>Nature</i> , <b>2016</b> , 531, 317-22	50.4	228
161	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. <i>ACS Photonics</i> , <b>2016</b> , 3, 464-470	6.3	30
160	Towards a general growth model for graphene CVD on transition metal catalysts. <i>Nanoscale</i> , <b>2016</b> , 8, 2149-58	7.7	87
159	Understanding Capacitance Variation in Sub-nanometer Pores by in Situ Tuning of Interlayer Constrictions. <i>ACS Nano</i> , <b>2016</b> , 10, 747-54	16.7	47
158	Electron Microscopy of Single Cells in Liquid for Stoichiometric Analysis of Transmembrane Proteins. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 74-75	0.5	2
157	Towards a Graphene-Based Low Intensity Photon Counting Photodetector. <i>Sensors</i> , <b>2016</b> , 16,	3.8	3
156	Magnetic tunnel junctions with monolayer hexagonal boron nitride tunnel barriers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 102404	3.4	95
155	Atmospheric pressure X-ray photoelectron spectroscopy apparatus: Bridging the pressure gap. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 053121	1.7	63
154	Graphene based plasmonic terahertz amplitude modulator operating above 100 MHz. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 171101	3.4	60
153	Stabilizing a graphene platform toward discrete components. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 253110	3.4	10
152	Nanoscale Plasmon-Enhanced Spectroscopy in Memristive Switches. <i>Small</i> , <b>2016</b> , 12, 1334-41	11	45
151	Thirty Gigahertz Optoelectronic Mixing in Chemical Vapor Deposited Graphene. <i>Nano Letters</i> , <b>2016</b> , 16, 2988-93	11.5	15
150	Fast terahertz optoelectronic amplitude modulator based on plasmonic metamaterial antenna arrays and graphene <b>2016</b> ,	2	
149	In Situ Observations of Phase Transitions in Metastable Nickel (Carbide)/Carbon Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 22571-22584	3.8	56

148	Parameter Space of Atomic Layer Deposition of Ultrathin Oxides on Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 30564-30575	9.5	40
147	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. <i>ACS Photonics</i> , <b>2016</b> , 3, 1747-1753	6.3	29
146	Multifunctional oxides for integrated manufacturing of efficient graphene electrodes for organic electronics. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 063304	3.4	13
145	Hybrid graphene nematic liquid crystal light scattering device. <i>Nanoscale</i> , <b>2015</b> , 7, 14114-20	7.7	9
144	Engineering high charge transfer n-doping of graphene electrodes and its application to organic electronics. <i>Nanoscale</i> , <b>2015</b> , 7, 13135-42	7.7	34
143	Graphene and chiral nematic liquid crystals: a focus on lasing. <i>RSC Advances</i> , <b>2015</b> , 5, 57437-57443	3.7	6
142	Synthesis of nanostructures in nanowires using sequential catalyst reactions. <i>Nature Materials</i> , <b>2015</b> , 14, 820-5	27	70
141	CVD-Enabled Graphene Manufacture and Technology. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2714-2721	6.21	89
140	Long-Term Passivation of Strongly Interacting Metals with Single-Layer Graphene. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14358-66	16.4	114
139	Controlling Nanowire Growth by Light. <i>Nano Letters</i> , <b>2015</b> , 15, 7452-7	11.5	15
138	Effects of polymethylmethacrylate-transfer residues on the growth of organic semiconductor molecules on chemical vapor deposited graphene. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 103101	3.4	51
137	Protecting nickel with graphene spin-filtering membranes: A single layer is enough. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 012408	3.4	54
136	Low temperature growth of carbon nanotubes on tetrahedral amorphous carbon using Fe <sup>III</sup> catalyst. <i>Carbon</i> , <b>2015</b> , 81, 639-649	10.4	29
135	Measuring the proton selectivity of graphene membranes. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 213104	3.4	42
134	Building and Imaging Silicide Nanostructures in Nanowires. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1505-1506	15.5	1
133	Nucleation control for large, single crystalline domains of monolayer hexagonal boron nitride via Si-doped Fe catalysts. <i>Nano Letters</i> , <b>2015</b> , 15, 1867-75	11.5	121
132	Influence of packing density and surface roughness of vertically-aligned carbon nanotubes on adhesive properties of gecko-inspired mimetics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3626-32-32-28	9.5	28
131	Engineered pixels using active plasmonic holograms with liquid crystals. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 125-129	2.5	11

130	Free-standing graphene membranes on glass nanopores for ionic current measurements. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 023119	3.4	40
129	Graphene-Based Ultrathin Flat Lenses. <i>ACS Photonics</i> , <b>2015</b> , 2, 200-207	6.3	62
128	Metal oxide induced charge transfer doping and band alignment of graphene electrodes for efficient organic light emitting diodes. <i>Scientific Reports</i> , <b>2014</b> , 4, 5380	4.9	168
127	Bio-inspired hierarchical polymer fiber-carbon nanotube adhesives. <i>Advanced Materials</i> , <b>2014</b> , 26, 1456-614	51	
126	The role of the sp <sub>2</sub> :sp <sub>3</sub> substrate content in carbon supported nanotube growth. <i>Carbon</i> , <b>2014</b> , 75, 327-334	16	
125	Low-bias terahertz amplitude modulator based on split-ring resonators and graphene. <i>ACS Nano</i> , <b>2014</b> , 8, 2548-54	16.7	106
124	Revealing lithium-silicide phase transformations in nano-structured silicon-based lithium ion batteries via in situ NMR spectroscopy. <i>Nature Communications</i> , <b>2014</b> , 5, 3217	17.4	271
123	EBSD study of substrate-mediated growth of hexagonal boron nitride. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 522, 012070	0.3	2
122	The influence of intercalated oxygen on the properties of graphene on polycrystalline Cu under various environmental conditions. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 25989-6003	3.6	91
121	Effect of Catalyst Pretreatment on Chirality-Selective Growth of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 5773-5781	3.8	35
120	Twin plane re-entrant mechanism for catalytic nanowire growth. <i>Nano Letters</i> , <b>2014</b> , 14, 1288-92	11.5	36
119	Organic light emitting diodes with environmentally and thermally stable doped graphene electrodes. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 6940	7.1	51
118	Binder free three-dimensional sulphur/few-layer graphene foam cathode with enhanced high-rate capability for rechargeable lithium sulphur batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 5746-53	7.7	151
117	Interdependency of subsurface carbon distribution and graphene-catalyst interaction. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13698-708	16.4	84
116	Co-catalytic absorption layers for controlled laser-induced chemical vapor deposition of carbon nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4025-32	9.5	12
115	Sub-nanometer atomic layer deposition for spintronics in magnetic tunnel junctions based on graphene spin-filtering membranes. <i>ACS Nano</i> , <b>2014</b> , 8, 7890-5	16.7	96
114	CVD growth of carbon nanostructures from zirconia: mechanisms and a method for enhancing yield. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17808-17	16.4	27
113	Nitrogen controlled iron catalyst phase during carbon nanotube growth. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 143111	3.4	20

112	In Situ Observations during Chemical Vapor Deposition of Hexagonal Boron Nitride on Polycrystalline Copper. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6380-6392	9.6	147
111	Terahertz optical modulator based on metamaterial split-ring resonators and graphene. <i>Optical Engineering</i> , <b>2014</b> , 53, 057108	1.1	14
110	Catalyst composition and impurity-dependent kinetics of nanowire heteroepitaxy. <i>ACS Nano</i> , <b>2013</b> , 7, 7689-97	16.7	10
109	In situ observations of the atomistic mechanisms of Ni catalyzed low temperature graphene growth. <i>ACS Nano</i> , <b>2013</b> , 7, 7901-12	16.7	139
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