

Stephan Hofmann

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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	. <i>Proceedings of the IEEE</i> , 2012 , 100, 1486-1517	14.3	649
254	In situ observations of catalyst dynamics during surface-bound carbon nanotube nucleation. <i>Nano Letters</i> , 2007 , 7, 602-8	11.5	605
253	Surface diffusion: the low activation energy path for nanotube growth. <i>Physical Review Letters</i> , 2005 , 95, 036101	7.4	329
252	Low-temperature growth of carbon nanotubes by plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2003 , 83, 135-137	3.4	324
251	Raman spectroscopy of silicon nanowires. <i>Physical Review B</i> , 2003 , 68,	3.3	286
250	Revealing lithium-silicide phase transformations in nano-structured silicon-based lithium ion batteries via in situ NMR spectroscopy. <i>Nature Communications</i> , 2014 , 5, 3217	17.4	271
249	Catalytic chemical vapor deposition of single-wall carbon nanotubes at low temperatures. <i>Nano Letters</i> , 2006 , 6, 1107-12	11.5	267
248	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018 , 12, 11756-11784	16.7	239
247	In situ characterization of alloy catalysts for low-temperature graphene growth. <i>Nano Letters</i> , 2011 , 11, 4154-60	11.5	237
246	Interface dynamics and crystal phase switching in GaAs nanowires. <i>Nature</i> , 2016 , 531, 317-22	50.4	228
245	Ledge-flow-controlled catalyst interface dynamics during Si nanowire growth. <i>Nature Materials</i> , 2008 , 7, 372-5	27	227
244	Gold catalyzed growth of silicon nanowires by plasma enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2003 , 94, 6005-6012	2.5	225
243	In-situ X-ray Photoelectron Spectroscopy Study of Catalyst Support Interactions and Growth of Carbon Nanotube Forests. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12207-12213	3.8	224
242	Observing graphene grow: catalyst-graphene interactions during scalable graphene growth on polycrystalline copper. <i>Nano Letters</i> , 2013 , 13, 4769-78	11.5	198
241	Nanoscale zirconia as a nonmetallic catalyst for graphitization of carbon and growth of single- and multiwall carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12144-54	16.4	196
240	Metal oxide induced charge transfer doping and band alignment of graphene electrodes for efficient organic light emitting diodes. <i>Scientific Reports</i> , 2014 , 4, 5380	4.9	168
239	The Phase of Iron Catalyst Nanoparticles during Carbon Nanotube Growth. <i>Chemistry of Materials</i> , 2012 , 24, 4633-4640	9.6	158

238	State of Transition Metal Catalysts During Carbon Nanotube Growth. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1648-1656	3.8	155
237	Binder free three-dimensional sulphur/few-layer graphene foam cathode with enhanced high-rate capability for rechargeable lithium sulphur batteries. <i>Nanoscale</i> , 2014 , 6, 5746-53	7.7	151
236	In Situ Observations during Chemical Vapor Deposition of Hexagonal Boron Nitride on Polycrystalline Copper. <i>Chemistry of Materials</i> , 2014 , 26, 6380-6392	9.6	147
235	Direct growth of aligned carbon nanotube field emitter arrays onto plastic substrates. <i>Applied Physics Letters</i> , 2003 , 83, 4661-4663	3.4	145
234	Kinetic control of catalytic CVD for high-quality graphene at low temperatures. <i>ACS Nano</i> , 2012 , 6, 9996-10003	10.7	141
233	In situ observations of the atomistic mechanisms of Ni catalyzed low temperature graphene growth. <i>ACS Nano</i> , 2013 , 7, 7901-12	16.7	139
232	The Parameter Space of Graphene Chemical Vapor Deposition on Polycrystalline Cu. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22492-22501	3.8	137
231	Single-nanowire spectrometers. <i>Science</i> , 2019 , 365, 1017-1020	33.3	130
230	Growth of ultrahigh density vertically aligned carbon nanotube forests for interconnects. <i>ACS Nano</i> , 2010 , 4, 7431-6	16.7	125
229	Nucleation control for large, single crystalline domains of monolayer hexagonal boron nitride via Si-doped Fe catalysts. <i>Nano Letters</i> , 2015 , 15, 1867-75	11.5	121
228	Graphene-passivated nickel as an oxidation-resistant electrode for spintronics. <i>ACS Nano</i> , 2012 , 6, 10930-4	14.7	120
227	Effects of catalyst film thickness on plasma-enhanced carbon nanotube growth. <i>Journal of Applied Physics</i> , 2005 , 98, 034308	2.5	115
226	Long-Term Passivation of Strongly Interacting Metals with Single-Layer Graphene. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14358-66	16.4	114
225	Diffusion- and reaction-limited growth of carbon nanotube forests. <i>ACS Nano</i> , 2009 , 3, 3560-6	16.7	114
224	Understanding and Controlling Cu-Catalyzed Graphene Nucleation: The Role of Impurities, Roughness, and Oxygen Scavenging. <i>Chemistry of Materials</i> , 2016 , 28, 8905-8915	9.6	109
223	Acetylene: A Key Growth Precursor for Single-Walled Carbon Nanotube Forests. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17321-17325	3.8	108
222	Low-bias terahertz amplitude modulator based on split-ring resonators and graphene. <i>ACS Nano</i> , 2014 , 8, 2548-54	16.7	106
221	Cyclic Supersaturation and Triple Phase Boundary Dynamics in Germanium Nanowire Growth. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4413-4417	3.8	102

220	Controlling Catalyst Bulk Reservoir Effects for Monolayer Hexagonal Boron Nitride CVD. <i>Nano Letters</i> , 2016 , 16, 1250-61	11.5	97
219	Sub-nanometer atomic layer deposition for spintronics in magnetic tunnel junctions based on graphene spin-filtering membranes. <i>ACS Nano</i> , 2014 , 8, 7890-5	16.7	96
218	Magnetic tunnel junctions with monolayer hexagonal boron nitride tunnel barriers. <i>Applied Physics Letters</i> , 2016 , 108, 102404	3.4	95
217	Introducing carbon diffusion barriers for uniform, high-quality graphene growth from solid sources. <i>Nano Letters</i> , 2013 , 13, 4624-31	11.5	93
216	The influence of intercalated oxygen on the properties of graphene on polycrystalline Cu under various environmental conditions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25989-6003	3.6	91
215	CVD-Enabled Graphene Manufacture and Technology. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2714-21	4.1	89
214	Towards a general growth model for graphene CVD on transition metal catalysts. <i>Nanoscale</i> , 2016 , 8, 2149-58	7.7	87
213	Interdependency of subsurface carbon distribution and graphene-catalyst interaction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13698-708	16.4	84
212	Low-temperature synthesis of ZnSe nanowires and nanosaws by catalyst-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2005 , 86, 153103	3.4	82
211	Time Evolution of the Wettability of Supported Graphene under Ambient Air Exposure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2215-2224	3.8	81
210	On the mechanisms of Ni-catalysed graphene chemical vapour deposition. <i>ChemPhysChem</i> , 2012 , 13, 2544-9	3.2	81
209	Low-temperature plasma enhanced chemical vapour deposition of carbon nanotubes. <i>Diamond and Related Materials</i> , 2004 , 13, 1171-1176	3.5	77
208	Measuring the nonlinear refractive index of graphene using the optical Kerr effect method. <i>Optics Letters</i> , 2016 , 41, 3281-4	3	74
207	Thermal and chemical vapor deposition of Si nanowires: Shape control, dispersion, and electrical properties. <i>Journal of Applied Physics</i> , 2007 , 102, 034302	2.5	72
206	Extrinsic Cation Selectivity of 2D Membranes. <i>ACS Nano</i> , 2017 , 11, 1340-1346	16.7	71
205	Substrate-assisted nucleation of ultra-thin dielectric layers on graphene by atomic layer deposition. <i>Applied Physics Letters</i> , 2012 , 100, 173113	3.4	71
204	The role of precursor gases on the surface restructuring of catalyst films during carbon nanotube growth. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 1-5	3	71
203	Synthesis of nanostructures in nanowires using sequential catalyst reactions. <i>Nature Materials</i> , 2015 , 14, 820-5	27	70

202	High-Mobility, Wet-Transferred Graphene Grown by Chemical Vapor Deposition. <i>ACS Nano</i> , 2019 , 13, 8926-8935	16.7	70
201	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10595-10599	16.4	69
200	Dynamic catalyst restructuring during carbon nanotube growth. <i>ACS Nano</i> , 2010 , 4, 7587-95	16.7	68
199	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. <i>Nature Communications</i> , 2016 , 7, 12373	17.4	67
198	State of the catalyst during carbon nanotube growth. <i>Diamond and Related Materials</i> , 2009 , 18, 940-945	3.5	65
197	Highly chiral-selective growth of single-walled carbon nanotubes with a simple monometallic Co catalyst. <i>Physical Review B</i> , 2012 , 85,	3.3	64
196	Atmospheric pressure X-ray photoelectron spectroscopy apparatus: Bridging the pressure gap. <i>Review of Scientific Instruments</i> , 2016 , 87, 053121	1.7	63
195	Graphene-Based Ultrathin Flat Lenses. <i>ACS Photonics</i> , 2015 , 2, 200-207	6.3	62
194	Formation of metastable liquid catalyst during subeutectic growth of germanium nanowires. <i>Nano Letters</i> , 2010 , 10, 2972-6	11.5	62
193	Surface properties of vertically aligned carbon nanotube arrays. <i>Diamond and Related Materials</i> , 2008 , 17, 1518-1524	3.5	62
192	Graphene based plasmonic terahertz amplitude modulator operating above 100 MHz. <i>Applied Physics Letters</i> , 2016 , 108, 171101	3.4	60
191	Insulator-to-Metallic Spin-Filtering in 2D-Magnetic Tunnel Junctions Based on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2018 , 12, 4712-4718	16.7	59
190	Geometrical Effect in 2D Nanopores. <i>Nano Letters</i> , 2017 , 17, 4223-4230	11.5	58
189	High-k (k=30) amorphous hafnium oxide films from high rate room temperature deposition. <i>Applied Physics Letters</i> , 2011 , 98, 252903	3.4	57
188	Piezoelectric Materials for Energy Harvesting and Sensing Applications: Roadmap for Future Smart Materials. <i>Advanced Science</i> , 2021 , 8, e2100864	13.6	57
187	Active Control of Electromagnetically Induced Transparency in a Terahertz Metamaterial Array with Graphene for Continuous Resonance Frequency Tuning. <i>Advanced Optical Materials</i> , 2018 , 6, 1800570	8.1	56
186	In Situ Observations of Phase Transitions in Metastable Nickel (Carbide)/Carbon Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22571-22584	3.8	56
185	Support-Catalyst-Gas Interactions during Carbon Nanotube Growth on Metallic Ta Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4359-4369	3.8	55

184	Protecting nickel with graphene spin-filtering membranes: A single layer is enough. <i>Applied Physics Letters</i> , 2015 , 107, 012408	3.4	54
183	Raman Spectrum of silicon nanowires. <i>Materials Science and Engineering C</i> , 2003 , 23, 931-934	8.3	53
182	Low temperature synthesis of carbon nanofibres on carbon fibre matrices. <i>Carbon</i> , 2005 , 43, 2643-2648	10.4	52
181	Effects of polymethylmethacrylate-transfer residues on the growth of organic semiconductor molecules on chemical vapor deposited graphene. <i>Applied Physics Letters</i> , 2015 , 106, 103101	3.4	51
180	In Situ Graphene Growth Dynamics on Polycrystalline Catalyst Foils. <i>Nano Letters</i> , 2016 , 16, 6196-6206	11.5	51
179	Bio-inspired hierarchical polymer fiber-carbon nanotube adhesives. <i>Advanced Materials</i> , 2014 , 26, 1456-614	11.4	51
178	Organic light emitting diodes with environmentally and thermally stable doped graphene electrodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6940	7.1	51
177	Growth of vertically-aligned carbon nanotube forests on conductive cobalt disilicide support. <i>Journal of Applied Physics</i> , 2010 , 108, 024311	2.5	51
176	Use of carbon nanotubes for VLSI interconnects. <i>Diamond and Related Materials</i> , 2009 , 18, 957-962	3.5	51
175	Nanostructured hematite photoelectrochemical electrodes prepared by the low temperature thermal oxidation of iron. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1819-1825	6.4	49
174	Enhancing Photoluminescence and Mobilities in WS Monolayers with Oleic Acid Ligands. <i>Nano Letters</i> , 2019 , 19, 6299-6307	11.5	48
173	Understanding Capacitance Variation in Sub-nanometer Pores by in Situ Tuning of Interlayer Constrictions. <i>ACS Nano</i> , 2016 , 10, 747-54	16.7	47
172	Nanoscale Plasmon-Enhanced Spectroscopy in Memristive Switches. <i>Small</i> , 2016 , 12, 1334-41	11	45
171	Graphene Liquid Enclosure for Single-Molecule Analysis of Membrane Proteins in Whole Cells Using Electron Microscopy. <i>ACS Nano</i> , 2017 , 11, 11108-11117	16.7	44
170	Imaging of Optically Active Defects with Nanometer Resolution. <i>Nano Letters</i> , 2018 , 18, 1739-1744	11.5	44
169	Growth of aligned millimeter-long carbon nanotube by chemical vapor deposition. <i>Diamond and Related Materials</i> , 2008 , 17, 1447-1451	3.5	44
168	Synthesis and optical properties of silicon nanowires grown by different methods. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 85, 247-253	2.6	44
167	Adhesive Properties of Gecko-Inspired Mimetic via Micropatterned Carbon Nanotube Forests. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20047-20053	3.8	43

166	Measuring the proton selectivity of graphene membranes. <i>Applied Physics Letters</i> , 2015 , 107, 213104	3.4	42
165	Scalable silicon nanowire photodetectors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 38, 64-66	3	42
164	Controlling nanowire growth through electric field-induced deformation of the catalyst droplet. <i>Nature Communications</i> , 2016 , 7, 12271	17.4	41
163	Growth of high-density vertically aligned arrays of carbon nanotubes by plasma-assisted catalyst pretreatment. <i>Applied Physics Letters</i> , 2009 , 95, 173115	3.4	41
162	Free-standing graphene membranes on glass nanopores for ionic current measurements. <i>Applied Physics Letters</i> , 2015 , 106, 023119	3.4	40
161	Parameter Space of Atomic Layer Deposition of Ultrathin Oxides on Graphene. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30564-30575	9.5	40
160	Effects of pre-treatment and plasma enhancement on chemical vapor deposition of carbon nanotubes from ultra-thin catalyst films. <i>Diamond and Related Materials</i> , 2006 , 15, 1029-1035	3.5	38
159	Wide-Field Spectral Super-Resolution Mapping of Optically Active Defects in Hexagonal Boron Nitride. <i>Nano Letters</i> , 2019 , 19, 2516-2523	11.5	37
158	Twin plane re-entrant mechanism for catalytic nanowire growth. <i>Nano Letters</i> , 2014 , 14, 1288-92	11.5	36
157	Ni-silicide growth kinetics in Si and Si/SiO ₂ core/shell nanowires. <i>Nanotechnology</i> , 2011 , 22, 365305	3.4	36
156	Effect of Catalyst Pretreatment on Chirality-Selective Growth of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5773-5781	3.8	35
155	Engineering high charge transfer n-doping of graphene electrodes and its application to organic electronics. <i>Nanoscale</i> , 2015 , 7, 13135-42	7.7	34
154	Engineering the Photoresponse of InAs Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43993-44000	3.5	34
153	Manipulation of the catalyst-support interactions for inducing nanotube forest growth. <i>Journal of Applied Physics</i> , 2011 , 109, 044303-044303-7	2.5	34
152	Use of plasma treatment to grow carbon nanotube forests on TiN substrate. <i>Journal of Applied Physics</i> , 2011 , 109, 114312	2.5	33
151	Layered material platform for surface plasmon resonance biosensing. <i>Scientific Reports</i> , 2019 , 9, 20286	4.9	33
150	Direct measurement of the charge distribution along a biased carbon nanotube bundle using electron holography. <i>Applied Physics Letters</i> , 2011 , 98, 243101	3.4	32
149	Catalyst Interface Engineering for Improved 2D Film Lift-Off and Transfer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33072-33082	9.5	31

148	In-situ study of growth of carbon nanotube forests on conductive CoSi ₂ support. <i>Journal of Applied Physics</i> , 2011 , 109, 114314	2.5	31
147	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. <i>ACS Photonics</i> , 2016 , 3, 464-470	6.3	30
146	Selective growth of ZnSe and ZnCdSe nanowires by molecular beam epitaxy. <i>Nanotechnology</i> , 2005 , 16, S139-S142	3.4	30
145	Encapsulation of graphene transistors and vertical device integration by interface engineering with atomic layer deposited oxide. <i>2D Materials</i> , 2017 , 4, 011008	5.9	29
144	Low temperature growth of carbon nanotubes on tetrahedral amorphous carbon using Fe ₃ O ₄ catalyst. <i>Carbon</i> , 2015 , 81, 639-649	10.4	29
143	Mechanical characterization and cleaning of CVD single-layer h-BN resonators. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	29
142	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. <i>ACS Photonics</i> , 2016 , 3, 1747-1753	6.3	29
141	Influence of packing density and surface roughness of vertically-aligned carbon nanotubes on adhesive properties of gecko-inspired mimetics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3626-32	2.5	28
140	Introducing Overlapping Grain Boundaries in Chemical Vapor Deposited Hexagonal Boron Nitride Monolayer Films. <i>ACS Nano</i> , 2017 , 11, 4521-4527	16.7	27
139	CVD growth of carbon nanostructures from zirconia: mechanisms and a method for enhancing yield. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17808-17	16.4	27
138	Synthesis of individual single-walled carbon nanotube bridges controlled by support micromachining. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 603-608	2	27
137	Growth of aligned carbon nanofibres over large areas using colloidal catalysts at low temperatures. <i>Chemical Communications</i> , 2004 , 1416-7	5.8	27
136	Nickel Formate Route to the Growth of Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18446-18450	3.4	27
135	A Peeling Approach for Integrated Manufacturing of Large Monolayer h-BN Crystals. <i>ACS Nano</i> , 2019 , 13, 2114-2126	16.7	27
134	Terahertz Nanoscopy of Plasmonic Resonances with a Quantum Cascade Laser. <i>ACS Photonics</i> , 2017 , 4, 2150-2157	6.3	26
133	Raman spectral indicators of catalyst decoupling for transfer of CVD grown 2D materials. <i>Carbon</i> , 2017 , 117, 75-81	10.4	25
132	Metastable crystalline AuGe catalysts formed during isothermal germanium nanowire growth. <i>Physical Review Letters</i> , 2012 , 108, 255702	7.4	25
131	Submicron patterning of Co colloid catalyst for growth of vertically aligned carbon nanotubes. <i>Nanotechnology</i> , 2005 , 16, 1636-1640	3.4	25

130	Spectrally Resolved Photodynamics of Individual Emitters in Large-Area Monolayers of Hexagonal Boron Nitride. <i>ACS Nano</i> , 2019 , 13, 4538-4547	16.7	24
129	Applications of Carbon Nanotubes Grown by Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AH01	1.4	24
128	Electrochemically active Ir NPs on graphene for OER in acidic aqueous electrolyte investigated by in situ and ex situ spectroscopies. <i>Surface Science</i> , 2019 , 681, 1-8	1.8	24
127	Tunable Klein-like tunnelling of high-temperature superconducting pairs into graphene. <i>Nature Physics</i> , 2018 , 14, 25-29	16.2	23
126	Stretched Contact Printing of One-Dimensional Nanostructures for Hybrid Inorganic/Organic Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7118-7125	3.8	23
125	Applications of Carbon Nanotubes Grown by Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 01AH01	1.4	23
124	Robust mapping of electrical properties of graphene from terahertz time-domain spectroscopy with timing jitter correction. <i>Optics Express</i> , 2017 , 25, 2725-2732	3.3	22
123	Hafnia nanoparticles as a model system for graphene growth on a dielectric. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 341-343	2.5	22
122	Plasma restructuring of catalysts for chemical vapor deposition of carbon nanotubes. <i>Journal of Applied Physics</i> , 2009 , 105, 064304	2.5	22
121	Structure and growth mechanism of ZnSe nanowires. <i>Journal of Applied Physics</i> , 2008 , 104, 064302	2.5	22
120	Deterministic shape-selective synthesis of nanowires, nanoribbons and nanosaws by steady-state vapour-transport. <i>Nanotechnology</i> , 2006 , 17, 1046-51	3.4	22
119	Catalyst patterning methods for surface-bound chemical vapor deposition of carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1559-1567	2.6	22
118	Surface Electron-Hole Rich Species Active in the Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12524-12534	16.4	22
117	Graphene-Integrated Metamaterial Device for All-Electrical Polarization Control of Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , 2019 , 6, 1547-1555	6.3	21
116	Optimized Vertical Carbon Nanotube Forests for Multiplex Surface-Enhanced Raman Scattering Detection. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3486-92	6.4	21
115	Co-Catalytic Solid-State Reduction Applied to Carbon Nanotube Growth. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1107-1113	3.8	21
114	Wet catalyst assisted growth of carbon nanofibers on complex three-dimensional substrates. <i>Diamond and Related Materials</i> , 2005 , 14, 733-738	3.5	21
113	Nitrogen controlled iron catalyst phase during carbon nanotube growth. <i>Applied Physics Letters</i> , 2014 , 105, 143111	3.4	20

112	Design of gas diffusion electrodes using nanocarbon. <i>Journal of Power Sources</i> , 2008 , 176, 494-498	8.9	20
111	External amplitude and frequency modulation of a terahertz quantum cascade laser using metamaterial/graphene devices. <i>Scientific Reports</i> , 2017 , 7, 7657	4.9	19
110	Fast, Noncontact, Wafer-Scale, Atomic Layer Resolved Imaging of Two-Dimensional Materials by Ellipsometric Contrast Micrography. <i>ACS Nano</i> , 2018 , 12, 8555-8563	16.7	19
109	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. <i>Scientific Reports</i> , 2017 , 7, 10625	4.9	19
108	Chemical vapor deposition of carbon nanotube forests. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2315-2322	1.3	19
107	Carbon nanotube forest growth on NiTi shape memory alloy thin films for thermal actuation. <i>Thin Solid Films</i> , 2011 , 519, 6126-6129	2.2	19
106	Rational Passivation of Sulfur Vacancy Defects in Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2021 , 15, 8780-8789	16.7	19
105	High-density remote plasma sputtering of high-dielectric-constant amorphous hafnium oxide films. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 957-967	1.3	18
104	Controlled low-temperature growth of carbon nanofibres by plasma deposition. <i>New Journal of Physics</i> , 2003 , 5, 153-153	2.9	18
103	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 174001	3	17
102	Spin filtering by proximity effects at hybridized interfaces in spin-valves with 2D graphene barriers. <i>Nature Communications</i> , 2020 , 11, 5670	17.4	17
101	Tunable Anion-Selective Transport through Monolayer Graphene and Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020 , 14, 2729-2738	16.7	17
100	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> , 2018 , 61, 2052-2061	2.3	17
99	Reduced Graphene Oxide as a Monolithic Multifunctional Conductive Binder for Activated Carbon Supercapacitors. <i>ACS Omega</i> , 2018 , 3, 9246-9255	3.9	16
98	The role of the sp ² :sp ³ substrate content in carbon supported nanotube growth. <i>Carbon</i> , 2014 , 75, 327-334	13.4	16
97	Chemical vapour deposition of freestanding sub-60 nm graphene gyroids. <i>Applied Physics Letters</i> , 2017 , 111, 253103	3.4	16
96	Controlling Nanowire Growth by Light. <i>Nano Letters</i> , 2015 , 15, 7452-7	11.5	15
95	Electronic properties of CVD graphene: The role of grain boundaries, atmospheric doping, and encapsulation by ALD. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2321-2325	1.3	15

94	Visible Diffraction from Graphene and Its Application in Holograms. <i>Advanced Optical Materials</i> , 2013 , 1, 869-874	8.1	15
93	A Terahertz Chiral Metamaterial Modulator. <i>Advanced Optical Materials</i> , 2020 , 8, 2000581	8.1	15
92	Thirty Gigahertz Optoelectronic Mixing in Chemical Vapor Deposited Graphene. <i>Nano Letters</i> , 2016 , 16, 2988-93	11.5	15
91	Surface Crystallization of Liquid Au-Si and Its Impact on Catalysis. <i>Advanced Materials</i> , 2019 , 31, e1806544	11.4	15
90	Atomic layer deposited oxide films as protective interface layers for integrated graphene transfer. <i>Nanotechnology</i> , 2017 , 28, 485201	3.4	14
89	The Role and Control of Residual Bulk Oxygen in the Catalytic Growth of 2D Materials. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16257-16267	3.8	14
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