

Mark H Rummeli

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306 papers	15,817 citations	65 h-index	117 g-index
319 ext. papers	18,333 ext. citations	10.6 avg, IF	6.7 L-index

#	Paper	IF	Citations
306	Applications of 2D MXenes in energy conversion and storage systems. <i>Chemical Society Reviews</i> , 2019 , 48, 72-133	58.5	878
305	Can graphene be used as a substrate for Raman enhancement?. <i>Nano Letters</i> , 2010 , 10, 553-61	11.5	771
304	Synthesis of nitrogen-doped graphene using embedded carbon and nitrogen sources. <i>Advanced Materials</i> , 2011 , 23, 1020-4	24	653
303	Controlled growth of high-quality monolayer WS ₂ layers on sapphire and imaging its grain boundary. <i>ACS Nano</i> , 2013 , 7, 8963-71	16.7	586
302	Ultrathin two-dimensional atomic crystals as stable interfacial layer for improvement of lithium metal anode. <i>Nano Letters</i> , 2014 , 14, 6016-22	11.5	545
301	Silicon carbide-free graphene growth on silicon for lithium-ion battery with high volumetric energy density. <i>Nature Communications</i> , 2015 , 6, 7393	17.4	376
300	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. <i>Science Bulletin</i> , 2017 , 62, 1074-1080	10.6	326
299	Atomic resolution imaging and topography of boron nitride sheets produced by chemical exfoliation. <i>ACS Nano</i> , 2010 , 4, 1299-304	16.7	285
298	Direct low-temperature nanographene CVD synthesis over a dielectric insulator. <i>ACS Nano</i> , 2010 , 4, 4206-10	16.7	279
297	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. <i>Advanced Energy Materials</i> , 2018 , 8, 1702093	21.8	272
296	Free-standing single-atom-thick iron membranes suspended in graphene pores. <i>Science</i> , 2014 , 343, 1228-32	33.3	223
295	Synthesis challenges for graphene industry. <i>Nature Materials</i> , 2019 , 18, 520-524	27	217
294	Roll-to-Roll Green Transfer of CVD Graphene onto Plastic for a Transparent and Flexible Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2015 , 27, 5210-6	24	215
293	Direct imaging of rotational stacking faults in few layer graphene. <i>Nano Letters</i> , 2009 , 9, 102-6	11.5	204
292	Rational design of a binary metal alloy for chemical vapour deposition growth of uniform single-layer graphene. <i>Nature Communications</i> , 2011 , 2, 522	17.4	201
291	Structural transformations in graphene studied with high spatial and temporal resolution. <i>Nature Nanotechnology</i> , 2009 , 4, 500-4	28.7	191
290	A growth mechanism for free-standing vertical graphene. <i>Nano Letters</i> , 2014 , 14, 3064-71	11.5	182

289	van der Waals epitaxial growth of graphene on sapphire by chemical vapor deposition without a metal catalyst. <i>ACS Nano</i> , 2013 , 7, 385-95	16.7	182
288	Scalable Seashell-Based Chemical Vapor Deposition Growth of Three-Dimensional Graphene Foams for Oil-Water Separation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6360-3	16.4	177
287	Extremely Weak van der Waals Coupling in Vertical ReS ₂ Nanowalls for High-Current-Density Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 2616-23	24	169
286	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. <i>Chemical Reviews</i> , 2018 , 118, 9281-9343	68.1	160
285	Wearable energy sources based on 2D materials. <i>Chemical Society Reviews</i> , 2018 , 47, 3152-3188	58.5	158
284	Synthesis of boron-doped graphene monolayers using the sole solid feedstock by chemical vapor deposition. <i>Small</i> , 2013 , 9, 1316-20	11	157
283	Direct Chemical Vapor Deposition-Derived Graphene Glasses Targeting Wide Ranged Applications. <i>Nano Letters</i> , 2015 , 15, 5846-54	11.5	152
282	Carbon nanostructures as multi-functional drug delivery platforms. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 401-428	7.3	149
281	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. <i>Nano Research</i> , 2015 , 8, 3164-3176	10	131
280	Direct growth of high-quality graphene on high- κ dielectric SrTiO ₃ substrates. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6574-7	16.4	119
279	Size and shape control of colloidal copper(I) sulfide nanorods. <i>ACS Nano</i> , 2012 , 6, 5889-96	16.7	118
278	Novel catalysts, room temperature, and the importance of oxygen for the synthesis of single-walled carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 1209-15	11.5	116
277	Direct Growth of MoS ₂ /h-BN Heterostructures via a Sulfide-Resistant Alloy. <i>ACS Nano</i> , 2016 , 10, 2063-70	16.7	115
276	Graphene: Piecing it together. <i>Advanced Materials</i> , 2011 , 23, 4471-90	24	115
275	2D WC single crystal embedded in graphene for enhancing hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 33, 356-362	17.1	109
274	Tailoring N-Doped Single and Double Wall Carbon Nanotubes from a Nondiluted Carbon/Nitrogen Feedstock. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2879-2884	3.8	107
273	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. <i>Advanced Materials</i> , 2020 , 32, e2003425	24	106
272	Biotemplating Growth of Nepenthes-like N-Doped Graphene as a Bifunctional Polysulfide Scavenger for Li-S Batteries. <i>ACS Nano</i> , 2018 , 12, 10240-10250	16.7	104

271	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. <i>Synthetic Metals</i> , 2017 , 234, 53-85	3.6	103
270	CVD growth of large area smooth-edged graphene nanomesh by nanosphere lithography. <i>Scientific Reports</i> , 2013 , 3, 1238	4.9	102
269	Growing Uniform Graphene Disks and Films on Molten Glass for Heating Devices and Cell Culture. <i>Advanced Materials</i> , 2015 , 27, 7839-46	24	102
268	Twinned growth behaviour of two-dimensional materials. <i>Nature Communications</i> , 2016 , 7, 13911	17.4	101
267	Scalable chemical-vapour-deposition growth of three-dimensional graphene materials towards energy-related applications. <i>Chemical Society Reviews</i> , 2018 , 47, 3018-3036	58.5	98
266	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2014 , 72, 372-380	10.4	98
265	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy-Storage Material. <i>Advanced Energy Materials</i> , 2014 , 4, 1300645	21.8	90
264	Towards super-clean graphene. <i>Nature Communications</i> , 2019 , 10, 1912	17.4	89
263	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. <i>ACS Nano</i> , 2015 , 9, 11408-13	16.7	89
262	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO ₂ by Chemical Vapor Deposition. <i>ACS Nano</i> , 2017 , 11, 1946-1956	16.7	87
261	Evolutionary Chlorination of Graphene: From Charge-Transfer Complex to Covalent Bonding and Nonbonding. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 844-850	3.8	87
260	Oxide-driven carbon nanotube growth in supported catalyst CVD. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15772-3	16.4	87
259	Thermal decomposition of ferrocene as a method for production of single-walled carbon nanotubes without additional carbon sources. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20973-7	3.4	86
258	Investigating the graphitization mechanism of SiO ₂ (2) nanoparticles in chemical vapor deposition. <i>ACS Nano</i> , 2009 , 3, 4098-104	16.7	81
257	Direct in situ observations of single Fe atom catalytic processes and anomalous diffusion at graphene edges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15641-6	11.5	80
256	Direct growth of ultrafast transparent single-layer graphene defoggers. <i>Small</i> , 2015 , 11, 1840-6	11	78
255	Investigating the diameter-dependent stability of single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 1557-63	16.7	76
254	Liquid Metal: An Innovative Solution to Uniform Graphene Films. <i>Chemistry of Materials</i> , 2014 , 26, 3637-3643	36.3	75

253	Atomic structure of interconnected few-layer graphene domains. <i>ACS Nano</i> , 2011 , 5, 6610-8	16.7	73
252	Stranski-Krastanov and Volmer-Weber CVD Growth Regimes To Control the Stacking Order in Bilayer Graphene. <i>Nano Letters</i> , 2016 , 16, 6403-6410	11.5	73
251	Direct CVD Growth of Graphene on Traditional Glass: Methods and Mechanisms. <i>Advanced Materials</i> , 2019 , 31, e1803639	24	73
250	Understanding the catalyst-free transformation of amorphous carbon into graphene by current-induced annealing. <i>Scientific Reports</i> , 2013 , 3,	4.9	72
249	Growing three-dimensional biomorphic graphene powders using naturally abundant diatomite templates towards high solution processability. <i>Nature Communications</i> , 2016 , 7, 13440	17.4	71
248	Synthesis of carbon nanotubes with and without catalyst particles. <i>Nanoscale Research Letters</i> , 2011 , 6, 303	5	70
247	High-mobility graphene on liquid p-block elements by ultra-low-loss CVD growth. <i>Scientific Reports</i> , 2013 , 3, 2670	4.9	69
246	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
245	Supercritical carbon dioxide anchored Fe ₃ O ₄ nanoparticles on graphene foam and lithium battery performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22527-33	9.5	68
244	Shedding light on the crystallographic etching of multi-layer graphene at the atomic scale. <i>Nano Research</i> , 2009 , 2, 695-705	10	68
243	Confined crystals of the smallest phase-change material. <i>Nano Letters</i> , 2013 , 13, 4020-7	11.5	65
242	Synthesis, characterization, and electrical properties of nitrogen-doped single-walled carbon nanotubes with different nitrogen content. <i>Diamond and Related Materials</i> , 2010 , 19, 1199-1206	3.5	65
241	Graphene-Like ZnO: A Mini Review. <i>Crystals</i> , 2016 , 6, 100	2.3	64
240	Scalable Salt-Templated Synthesis of Nitrogen-Doped Graphene Nanosheets toward Printable Energy Storage. <i>ACS Nano</i> , 2019 , 13, 7517-7526	16.7	60
239	Nanosized carbon black combined with Ni ₂ O ₃ as "universal" catalysts for synergistically catalyzing carbonization of polyolefin wastes to synthesize carbon nanotubes and application for supercapacitors. <i>Environmental Science & Technology</i> , 2014 , 48, 4048-55	10.3	60
238	CVD growth of 1D and 2D sp ² carbon nanomaterials. <i>Journal of Materials Science</i> , 2016 , 51, 640-667	4.3	59
237	Graphene oxide-based drug delivery vehicles: functionalization, characterization, and cytotoxicity evaluation. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	59
236	A one step approach to B-doped single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5676		59

235	The catalytic potential of high-dielectrics for graphene formation. <i>Applied Physics Letters</i> , 2011 , 98, 073110	3.4	57
234	Seed-Assisted Growth of Single-Crystalline Patterned Graphene Domains on Hexagonal Boron Nitride by Chemical Vapor Deposition. <i>Nano Letters</i> , 2016 , 16, 6109-6116	11.5	56
233	Direct Chemical-Vapor-Deposition-Fabricated, Large-Scale Graphene Glass with High Carrier Mobility and Uniformity for Touch Panel Applications. <i>ACS Nano</i> , 2016 , 10, 11136-11144	16.7	56
232	Catalyst volume to surface area constraints for nucleating carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8234-41	3.4	55
231	Plasmon-Free Surface-Enhanced Raman Spectroscopy Using Metallic 2D Materials. <i>ACS Nano</i> , 2019 , 13, 8312-8319	16.7	54
230	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. <i>Advanced Materials</i> , 2018 , 30, 1704839	24	53
229	High Power Q-Switched Thulium Doped Fibre Laser using Carbon Nanotube Polymer Composite Saturable Absorber. <i>Scientific Reports</i> , 2016 , 6, 24220	4.9	53
228	On the Role of Vapor Trapping for Chemical Vapor Deposition (CVD) Grown Graphene over Copper. <i>Chemistry of Materials</i> , 2013 , 25, 4861-4866	9.6	52
227	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13363-13368	3.8	52
226	Amorphous carbon under 80 kV electron irradiation: a means to make or break graphene. <i>Advanced Materials</i> , 2012 , 24, 5630-5	24	52
225	Programmable sub-nanometer sculpting of graphene with electron beams. <i>ACS Nano</i> , 2012 , 6, 10327-34	16.7	49
224	Two-dimensional membrane as elastic shell with proof on the folds revealed by three-dimensional atomic mapping. <i>Nature Communications</i> , 2015 , 6, 8935	17.4	48
223	Isotope-Engineered Single-Wall Carbon Nanotubes; A Key Material for Magnetic Studies. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4094-4098	3.8	48
222	Single-wall-carbon-nanotube/single-carbon-chain molecular junctions. <i>Physical Review B</i> , 2010 , 81,	3.3	47
221	Examining co-based nanocrystals on graphene using low-voltage aberration-corrected transmission electron microscopy. <i>ACS Nano</i> , 2010 , 4, 470-6	16.7	47
220	A size dependent evaluation of the cytotoxicity and uptake of nanographene oxide. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2522-2529	7.3	46
219	A universal transfer route for graphene. <i>Nanoscale</i> , 2014 , 6, 889-96	7.7	46
218	CVD-grown horizontally aligned single-walled carbon nanotubes: synthesis routes and growth mechanisms. <i>Small</i> , 2012 , 8, 1973-92	11	46

217	A review of recent developments in Si/C composite materials for Li-ion batteries. <i>Energy Storage Materials</i> , 2021 , 34, 735-754	19.4	46
216	Direct Synthesis of Few-Layer Graphene on NaCl Crystals. <i>Small</i> , 2015 , 11, 6302-8	11	45
215	pH-dependent release of doxorubicin from fast photo-cross-linkable polymersomes based on benzophenone units. <i>Chemistry - A European Journal</i> , 2012 , 18, 12227-31	4.8	45
214	Nanoengineered Catalyst Particles as a Key for Tailor-Made Carbon Nanotubes. <i>Chemistry of Materials</i> , 2007 , 19, 5006-5009	9.6	45
213	Investigating the outskirts of Fe and Co catalyst particles in alumina-supported catalytic CVD carbon nanotube growth. <i>ACS Nano</i> , 2010 , 4, 1146-52	16.7	44
212	Isotropic Growth of Graphene toward Smoothing Stitching. <i>ACS Nano</i> , 2016 , 10, 7189-96	16.7	43
211	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14446-14451	16.4	43
210	Ultra-smooth glassy graphene thin films for flexible transparent circuits. <i>Science Advances</i> , 2016 , 2, e1601434	16.7	43
209	Electron-Driven In Situ Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. <i>ACS Nano</i> , 2019 , 13, 978-995	16.7	42
208	Ultrafast Self-Limited Growth of Strictly Monolayer WSe Crystals. <i>Small</i> , 2016 , 12, 5741-5749	11	42
207	Atomic resolution imaging of the edges of catalytically etched suspended few-layer graphene. <i>ACS Nano</i> , 2011 , 5, 1975-83	16.7	42
206	Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 459-490	3.5	41
205	Direct Chemical Vapor Deposition Growth of Graphene on Insulating Substrates. <i>ChemNanoMat</i> , 2016 , 2, 9-18	3.5	41
204	Bandgap tuning of two-dimensional materials by sphere diameter engineering. <i>Nature Materials</i> , 2020 , 19, 528-533	27	40
203	Few-layer graphene shells and nonmagnetic encapsulates: a versatile and nontoxic carbon nanomaterial. <i>ACS Nano</i> , 2013 , 7, 10552-62	16.7	40
202	High-Quality Double-Walled Carbon Nanotubes Grown by a Cold-Walled Radio Frequency Chemical Vapor Deposition Process. <i>Chemistry of Materials</i> , 2008 , 20, 3466-3472	9.6	40
201	Self-Aligned Single-Crystalline Hexagonal Boron Nitride Arrays: Toward Higher Integrated Electronic Devices. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500223	6.4	38
200	Low voltage transmission electron microscopy of graphene. <i>Small</i> , 2015 , 11, 515-42	11	37

199	Universal Substrate-Trapping Strategy To Grow Strictly Monolayer Transition Metal Dichalcogenides Crystals. <i>Chemistry of Materials</i> , 2017 , 29, 6095-6103	9.6	36
198	Revealing the Small-Bundle Internal Structure of Vertically Aligned Single-Walled Carbon Nanotube Films. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17861-17864	3.8	36
197	Edge-to-Edge Oriented Self-Assembly of ReS ₂ Nanoflakes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11101-4	16.4	35
196	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1904457	15.6	35
195	Synthesis and toxicity characterization of carbon coated iron oxide nanoparticles with highly defined size distributions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 160-9	4	35
194	One-dimensional confined motion of single metal atoms inside double-walled carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 102, 195504	7.4	32
193	Examining the Edges of Multi-Layer Graphene Sheets. <i>Chemistry of Materials</i> , 2009 , 21, 2418-2421	9.6	32
192	Catalyst size dependencies for carbon nanotube synthesis. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3911-3915	1.3	32
191	Lattice expansion in seamless bilayer graphene constrictions at high bias. <i>Nano Letters</i> , 2012 , 12, 4455-9	11.5	31
190	The polycyclic aromatic hydrocarbon concentrations in soils in the Region of Valasske Mezirici, the Czech Republic. <i>Geochemical Transactions</i> , 2009 , 10, 12	3	31
189	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. <i>Nature Communications</i> , 2021 , 12, 2391	17.4	31
188	Iodine-Mediated Chemical Vapor Deposition Growth of Metastable Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , 2017 , 29, 4641-4644	9.6	30
187	Copper-Containing Carbon Feedstock for Growing Superclean Graphene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7670-7674	16.4	30
186	Catalyst poisoning by amorphous carbon during carbon nanotube growth: fact or fiction?. <i>ACS Nano</i> , 2011 , 5, 8928-34	16.7	29
185	Theoretical Insight into High-Efficiency Triple-Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. <i>Solar Rrl</i> , 2021 , 5, 2000800	7.1	29
184	Fast and uniform growth of graphene glass using confined-flow chemical vapor deposition and its unique applications. <i>Nano Research</i> , 2016 , 9, 3048-3055	10	28
183	Clean and efficient transfer of CVD-grown graphene by electrochemical etching of metal substrate. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 688, 243-248	4.1	28
182	Human-Like Sensing and Reflexes of Graphene-Based Films. <i>Advanced Science</i> , 2016 , 3, 1600130	13.6	28

181	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. <i>RSC Advances</i> , 2015 , 5, 60884-60891	3.7	27
180	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2015 , 27, 5964-5973	9.6	27
179	Single Cr atom catalytic growth of graphene. <i>Nano Research</i> , 2018 , 11, 2405-2411	10	27
178	Insights into the Early Growth of Homogeneous Single-Layer Graphene over NiMo Binary Substrates. <i>Chemistry of Materials</i> , 2013 , 25, 3880-3887	9.6	27
177	The use of aliphatic alcohol chain length to control the nitrogen type and content in nitrogen doped carbon nanotubes. <i>Carbon</i> , 2013 , 52, 316-325	10.4	27
176	The formation of stacked-cup carbon nanotubes using chemical vapor deposition from ethanol over silica. <i>Carbon</i> , 2010 , 48, 3175-3181	10.4	27
175	Unveiling the Atomic Structure of Single-Wall Boron Nanotubes. <i>Advanced Functional Materials</i> , 2014 , 24, 4127-4134	15.6	26
174	Electron paramagnetic resonance investigation of purified catalyst-free single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 7708-16	16.7	26
173	Enhancement of the structure stability of MOF-5 confined to multiwalled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2664-2668	1.3	26
172	Preparation of organovermiculites using HDTMA: structure and sorptive properties using naphthalene. <i>Journal of Colloid and Interface Science</i> , 2008 , 327, 341-7	9.3	26
171	Graphene Glass Inducing Multidomain Orientations in Cholesteric Liquid Crystal Devices toward Wide Viewing Angles. <i>ACS Nano</i> , 2018 , 12, 6443-6451	16.7	26
170	Li-storage performance of binder-free and flexible iron fluoride@graphene cathodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23930-23935	13	25
169	Carbon-nanotube-based stimuli-responsive controlled-release system. <i>Chemistry - A European Journal</i> , 2011 , 17, 4454-9	4.8	25
168	Structural distortions in few-layer graphene creases. <i>ACS Nano</i> , 2011 , 5, 9984-91	16.7	25
167	Graphene synthesis: On-the-spot growth. <i>Nature Materials</i> , 2016 , 15, 9-10	27	24
166	In situ observations of self-repairing single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 81,	3.3	24
165	Examining the stability of folded graphene edges against electron beam induced sputtering with atomic resolution. <i>Nanotechnology</i> , 2010 , 21, 325702	3.4	24
164	High-performance field effect transistors from solution processed carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 6659-64	16.7	24

163	Capturing the motion of molecular nanomaterials encapsulated within carbon nanotubes with ultrahigh temporal resolution. <i>ACS Nano</i> , 2009 , 3, 3037-44	16.7	24
162	Resonant Raman spectroscopy on enriched ¹³ C carbon nanotubes. <i>Carbon</i> , 2011 , 49, 4719-4723	10.4	24
161	Chemical vapor deposition of functionalized single-walled carbon nanotubes with defined nitrogen doping. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4051-4055	1.3	24
160	Highly Conductive Nitrogen-Doped Graphene Grown on Glass toward Electrochromic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32622-32630	9.5	24
159	Phosphorus-Based Composites as Anode Materials for Advanced Alkali Metal Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2004648	15.6	23
158	New Frontiers in Electron Beam-Driven Chemistry in and around Graphene. <i>Advanced Materials</i> , 2019 , 31, e1800715	24	22
157	CO ₂ enhanced chemical vapor deposition growth of few-layer graphene over NiO(x). <i>ACS Nano</i> , 2014 , 8, 9224-32	16.7	22
156	Size-dependent nanographene oxide as a platform for efficient carboplatin release. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 6107-6114	7.3	22
155	Understanding high-yield catalyst-free growth of horizontally aligned single-walled carbon nanotubes nucleated by activated C ₆₀ species. <i>ACS Nano</i> , 2012 , 6, 10825-34	16.7	22
154	On the catalytic hydrogenation of graphite for graphene nanoribbon fabrication. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2540-2544	1.3	22
153	Graphene Coating of Silicon Nanoparticles with CO ₂ -Enhanced Chemical Vapor Deposition. <i>Small</i> , 2016 , 12, 658-67	11	22
152	Controllable Sliding Transfer of Wafer-Size Graphene. <i>Advanced Science</i> , 2016 , 3, 1600006	13.6	21
151	Dominantly epitaxial growth of graphene on Ni (1 1 1) substrate. <i>Applied Surface Science</i> , 2014 , 314, 4904-499	16.7	21
150	Graphene transfer methods: A review. <i>Nano Research</i> , 2021 , 14, 3756	10	21
149	Growth of Uniform Monolayer Graphene Using Iron-Group Metals via the Formation of an Antiperovskite Layer. <i>Chemistry of Materials</i> , 2015 , 27, 8230-8236	9.6	20
148	Self-assembly formation of multi-walled carbon nanotubes on gold surfaces. <i>Nanoscale</i> , 2010 , 2, 2835-40	7.7	20
147	Synergized Multimetal Oxides with Amorphous/Crystalline Heterostructure as Efficient Electrocatalysts for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100110	21.8	20
146	Thermal conductivity of mechanically joined semiconducting/metal nanomembrane superlattices. <i>Nano Letters</i> , 2014 , 14, 2387-93	11.5	19

145	Advances and Trends in Chemically Doped Graphene. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000999	4.6	19
144	Dispersibility of vapor phase oxygen and nitrogen functionalized multi-walled carbon nanotubes in various organic solvents. <i>Scientific Reports</i> , 2016 , 6, 26208	4.9	18
143	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9185-93	9.5	18
142	Electroless copper deposition on (3-mercaptopropyl)triethoxysilane-coated silica and alumina nanoparticles. <i>Electrochimica Acta</i> , 2013 , 114, 521-526	6.7	18
141	Novel catalysts for low temperature synthesis of single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3101-3105	1.3	18
140	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. <i>Nano-Micro Letters</i> , 2021 , 13, 143	19.5	18
139	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902024	4.6	17
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125	Batch synthesis of transfer-free graphene with wafer-scale uniformity. <i>Nano Research</i> , 2020 , 13, 1564-1570	10	13
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121	In Situ Formation of Free-Standing Single-Atom-Thick Antiferromagnetic Chromium Membranes. <i>Nano Letters</i> , 2020 , 20, 4354-4361	11.5	12
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70	Adsorption-Free Growth of Ultra-Thin Molybdenum Membranes with a Low-Symmetry Rectangular Lattice Structure. <i>Small</i> , 2020 , 16, e2001325	11	6
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60	Graphene on graphene formation from PMMA residues during annealing. <i>Vacuum</i> , 2017 , 137, 191-194	3.7	5
59	Regulation of Two-Dimensional Lattice Deformation Recovery. <i>IScience</i> , 2019 , 13, 277-283	6.1	5
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56	In situ observations of Pt nanoparticles coalescing inside carbon nanotubes. <i>RSC Advances</i> , 2014 , 4, 49443-49445	3.7	5

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54	Characterisation Techniques 2013 , 229-332		5
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47	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene.. <i>Nanotechnology</i> , 2022 ,	3.4	5
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40	Oxide catalysts for carbon nanotube and few layer graphene formation. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2530-2533	1.3	4
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38	Large-Area Single-Crystal Graphene via Self-Organization at the Macroscale. <i>Advanced Materials</i> , 2020 , 32, e2002755	24	4

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35	Single-walled carbon nanotubes fractionation via electrophoresis. <i>Polish Journal of Chemical Technology</i> , 2011 , 13, 1-4	1	3
34	Separation of surfactant functionalized single-walled carbon nanotubes via free solution electrophoresis method. <i>Open Physics</i> , 2011 , 9,	1.3	3
33	Growth of catalyst-assisted and catalyst-free horizontally aligned single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2467-2470	1.3	3
32	Unravelling the mechanisms behind mixed catalysts for the high yield production of single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 3839-44	16.7	3
31	Tracking down the catalytic hydrogenation of multilayer graphene. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2731-2734		3
30	Toward stable lithium-ion batteries: Accelerating the transfer and alloying reactions of Sn-based anodes via coordination atom regulation and carbon hybridization. <i>Journal of Power Sources</i> , 2022 , 519, 230778	8.9	3
29	A comparative study on simple and practical chemical gas sensors from chemically modified graphene films. <i>Materials Research Express</i> , 2019 , 6, 015607	1.7	3
28	Room temperature single-step synthesis of metal decorated boron-rich nanowires via laser ablation. <i>Nano Convergence</i> , 2019 , 6, 14	9.2	2
27	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie</i> , 2019 , 131, 14588-14593	3.6	2
26	Spatial recognition of defects and tube type in carbon nanotube field effect transistors using electrostatic force microscopy. <i>Nanotechnology</i> , 2013 , 24, 235708	3.4	2
25	Advanced red phosphorus/carbon composites with practical application potential for sodium ion batteries. <i>Energy Storage Materials</i> , 2022 , 46, 20-28	19.4	2
24	Mechanistic Probing of Encapsulation and Confined Growth of Lithium Crystals in Carbonaceous Nanotubes. <i>Advanced Materials</i> , 2021 , e2105228	24	2
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22	Facile production of ultra-fine silicon nanoparticles. <i>Royal Society Open Science</i> , 2020 , 7, 200736	3.3	2
21	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. <i>Scientific Reports</i> , 2016 , 6, 22524	4.9	2
20	Charge Density Waves Driven by Peierls Instability at the Interface of Two-Dimensional Lateral Heterostructures. <i>Small</i> , 2018 , 14, e1803040	11	2

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18	A cheap and quickly adaptable in situ electrical contacting TEM sample holder design. <i>Ultramicroscopy</i> , 2014 , 139, 1-4	3.1	1
17	Novel method controlled synthesis of silica coated carbon nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 462-465	1.6	1
16	High resolution X-ray absorption on metallicity selected C60 peapods, single-, and double walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2544-2547	1.3	1
15	Low temperature CVD growth of graphene nano-flakes directly on high K dielectrics. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1284, 19		1
14	Quasistatic Equilibrium Chemical Vapor Deposition of Graphene. <i>Advanced Materials Interfaces</i> , 2015 , 4.6	1500	1
13	T2- and T1 relaxivities and magnetic hyperthermia of iron-oxide nanoparticles combined with paramagnetic Gd complexes. <i>Journal of Chemical Sciences</i> , 2021 , 133, 1	1.8	1
12	Direct synthesis of large-area Al-doped graphene by chemical vapor deposition: Advancing the substitutionally doped graphene family. <i>Nano Research</i> , 2021 , 14, 1	10	1
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10	Tailoring the stoichiometry of CN nanosheets under electron beam irradiation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4747-4756	3.6	1
9	Eliminating Graphite Exfoliation with an Artificial Solid Electrolyte Interphase for Stable Lithium-Ion Batteries. <i>Small</i> , 2022 , e2107460	11	1
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7	RETRACTED Electron-driven engineering of graphene. <i>Journal of Materials Research</i> , 2013 , 1-7	2.5	0
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2	In-situ Observations of Restructuring Carbon Nanotubes via Low-voltage Aberration-corrected Transmission Electron Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1284, 101		

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