Mark H Rummeli

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.

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	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. *Materials Advances*, **2022**, 3, 1497-1505	3.3	5
305	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene.. *Nanotechnology*, **2022**,	3.4	5
304	Applications of nanogenerators for biomedical engineering and healthcare systems. *Informa Materly*, **2022**, 4,	23.1	13
303	Toward stable lithium-ion batteries: Accelerating the transfer and alloying reactions of Sn-based anodes via coordination atom regulation and carbon hybridization. *Journal of Power Sources*, **2022**, 519, 230778	8.9	3
302	Advanced red phosphorus/carbon composites with practical application potential for sodium ion batteries. *Energy Storage Materials*, **2022**, 46, 20-28	19.4	2
301	Direct insight into sulfiphilicity-lithiophilicity design of bifunctional heteroatom-doped graphene mediator toward durable Li-S batteries. *Journal of Energy Chemistry*, **2022**, 66, 474-482	12	7
300	Eliminating Graphite Exfoliation with an Artificial Solid Electrolyte Interphase for Stable Lithium-Ion Batteries.. *Small*, **2022**, e2107460	11	1
299	Boosting K + Capacitive Storage in Dual-Doped Carbon Crumples with BN Moiety via a General Protic-Salt Synthetic Strategy. *Advanced Functional Materials*, **2022**, 32, 2109969	15.6	5
298	Accelerating O-Redox Kinetics with Carbon Nanotubes for Stable Lithium-Rich Cathodes.. *Small Methods*, **2022**, e2200449	12.8	
297	Ru clusters anchored on Magn phase Ti4O7 nanofibers enables flexible and highly efficient Li O2 batteries. *Energy Storage Materials*, **2022**, 50, 355-364	19.4	1
296	Mildly Oxidized MXene (TiC, NbC, and VC) Electrocatalyst via a Generic Strategy Enables Longevous Li-O Battery under a High Rate. *ACS Nano*, **2021**,	16.7	9
295	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. *Informa Materly*, **2021**, 3, 1455	23.1	7
294	Recent Progress on Two-Dimensional Materials. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2021**, 2108017-0	3.8	69
293	Mechanistic Probing of Encapsulation and Confined Growth of Lithium Crystals in Carbonaceous Nanotubes. *Advanced Materials*, **2021**, e2105228	24	2
292	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. *ACS Sensors*, **2021**, 6, 3841-3881	9.2	7
291	The Mechanism of Graphene Vapor-Solid Growth on Insulating Substrates. *ACS Nano*, **2021**, 15, 7399-7408	16.7	8
290	T2- and T1 relaxivities and magnetic hyperthermia of iron-oxide nanoparticles combined with paramagnetic Gd complexes. *Journal of Chemical Sciences*, **2021**, 133, 1	1.8	1

289	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. *Nature Communications*, **2021**, 12, 2391	17.4	31
288	Synergized Multimetal Oxides with Amorphous/Crystalline Heterostructure as Efficient Electrocatalysts for Lithium–Oxygen Batteries. *Advanced Energy Materials*, **2021**, 11, 2100110	21.8	20
287	Revealing the Various Electrochemical Behaviors of Sn4P3 Binary Alloy Anodes in Alkali Metal Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2102047	15.6	11
286	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. *Nano-Micro Letters*, **2021**, 13, 143	19.5	18
285	Controllable Synthesis of Wafer-Scale Graphene Films: Challenges, Status, and Perspectives. *Small*, **2021**, 17, e2008017	11	11
284	A review of recent developments in Si/C composite materials for Li-ion batteries. *Energy Storage Materials*, **2021**, 34, 735-754	19.4	46
283	In-situ observations of novel single-atom thick 2D tin membranes embedded in graphene. *Nano Research*, **2021**, 14, 747-753	10	6
282	Oxygen-assisted direct growth of large-domain and high-quality graphene on glass targeting advanced optical filter applications. *Nano Research*, **2021**, 14, 260-267	10	10
281	Tailoring the stoichiometry of CN nanosheets under electron beam irradiation. *Physical Chemistry Chemical Physics*, **2021**, 23, 4747-4756	3.6	1
280	Graphene transfer methods: A review. *Nano Research*, **2021**, 14, 3756	10	21
279	Theoretical Insight into High-Efficiency Triple-Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. *Solar Rrl*, **2021**, 5, 2000800	7.1	29
278	On the Catalytic Activity of Sn Monomers and Dimers at Graphene Edges and the Synchronized Edge Dependence of Diffusing Atoms in Sn Dimers. *Advanced Functional Materials*, **2021**, 31, 2104340	15.6	0
277	In Situ Fabrication of Freestanding Single-Atom-Thick 2D Metal/Metallene and 2D Metal/ Metallene Oxide Membranes: Recent Developments. *Advanced Science*, **2021**, 8, e2100619	13.6	8
276	Mechanistic Probing of Encapsulation and Confined Growth of Lithium Crystals in Carbonaceous Nanotubes (Adv. Mater. 51/2021). *Advanced Materials*, **2021**, 33, 2170407	24	0
275	In Situ Formation of Free-Standing Single-Atom-Thick Antiferromagnetic Chromium Membranes. *Nano Letters*, **2020**, 20, 4354-4361	11.5	12
274	Adsorption-Free Growth of Ultra-Thin Molybdenum Membranes with a Low-Symmetry Rectangular Lattice Structure. *Small*, **2020**, 16, e2001325	11	6
273	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. *Advanced Materials*, **2020**, 32, e2003425	24	106
272	Natural Biopolymers for Flexible Sensing and Energy Devices. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 459-490	3.5	41

271	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. *Advanced Materials Interfaces*, **2020**, 7, 1902024	4.6	17
270	Bandgap tuning of two-dimensional materials by sphere diameter engineering. *Nature Materials*, **2020**, 19, 528-533	27	40
269	In Situ N-Doped Graphene and Mo Nanoribbon Formation from Mo Ti C MXene Monolayers. *Small*, **2020**, 16, e1907115	11	6
268	Batch synthesis of transfer-free graphene with wafer-scale uniformity. *Nano Research*, **2020**, 13, 1564-1570	10	13
267	Phosphorus-Based Composites as Anode Materials for Advanced Alkali Metal Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 2004648	15.6	23
266	ROS-generation and cellular uptake behavior of amino-silica nanoparticles arisen from their uploading by both iron-oxides and hexamolybdenum clusters. *Materials Science and Engineering C*, **2020**, 117, 111305	8.3	7
265	Advances and Trends in Chemically Doped Graphene. *Advanced Materials Interfaces*, **2020**, 7, 2000999	4.6	19
264	Facile production of ultra-fine silicon nanoparticles. *Royal Society Open Science*, **2020**, 7, 200736	3.3	2
263	Large-Area Single-Crystal Graphene via Self-Organization at the Macroscale. *Advanced Materials*, **2020**, 32, e2002755	24	4
262	In Situ Observations of Freestanding Single-Atom-Thick Gold Nanoribbons Suspended in Graphene. *Advanced Materials Interfaces*, **2020**, 7, 2000436	4.6	5
261	Room temperature single-step synthesis of metal decorated boron-rich nanowires via laser ablation. *Nano Convergence*, **2019**, 6, 14	9.2	2
260	Electron-Driven In Situ Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. *ACS Nano*, **2019**, 13, 978-995	16.7	42
259	Growth of 12-inch uniform monolayer graphene film on molten glass and its application in PbI2-based photodetector. *Nano Research*, **2019**, 12, 1888-1893	10	6
258	Scalable Salt-Templated Synthesis of Nitrogen-Doped Graphene Nanosheets toward Printable Energy Storage. *ACS Nano*, **2019**, 13, 7517-7526	16.7	60
257	Synthesis challenges for graphene industry. *Nature Materials*, **2019**, 18, 520-524	27	217
256	Towards super-clean graphene. *Nature Communications*, **2019**, 10, 1912	17.4	89
255	Copper-Containing Carbon Feedstock for Growing Superclean Graphene. *Journal of the American Chemical Society*, **2019**, 141, 7670-7674	16.4	30
254	Direct chemical vapor deposition synthesis of large area single-layer brominated graphene.. *RSC Advances*, **2019**, 9, 13527-13532	3.7	7

253	Rapid synthesis of pristine graphene inside a transmission electron microscope using gold as catalyst. *Communications Chemistry*, **2019**, 2,	6.3	4
252	Regulation of Two-Dimensional Lattice Deformation Recovery. *IScience*, **2019**, 13, 277-283	6.1	5
251	New Frontiers in Electron Beam-Driven Chemistry in and around Graphene. *Advanced Materials*, **2019**, 31, e1800715	24	22
250	Fluorescent magnetic nanoparticles for modulating the level of intracellular Ca in motoneurons. *Nanoscale*, **2019**, 11, 16103-16113	7.7	7
249	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. *Angewandte Chemie - International Edition*, **2019**, 58, 14446-14451	16.4	43
248	Plasmon-Free Surface-Enhanced Raman Spectroscopy Using Metallic 2D Materials. *ACS Nano*, **2019**, 13, 8312-8319	16.7	54
247	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. *Angewandte Chemie*, **2019**, 131, 14588-14593	3.6	2
246	Wax-assisted crack-free transfer of monolayer CVD graphene: Extending from standalone to supported copper substrates. *Applied Surface Science*, **2019**, 493, 81-86	6.7	8
245	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. *Advanced Functional Materials*, **2019**, 29, 1904457	15.6	35
244	Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. *Angewandte Chemie - International Edition*, **2019**, 58,	16.4	1
243	Low pressure chemical vapor deposition synthesis of large area hetero-doped mono- and few- layer graphene with nitrogen and oxygen species. *Materials Research Express*, **2019**, 6, 055604	1.7	6
242	Applications of 2D MXenes in energy conversion and storage systems. *Chemical Society Reviews*, **2019**, 48, 72-133	58.5	878
241	Direct CVD Growth of Graphene on Traditional Glass: Methods and Mechanisms. *Advanced Materials* , **2019**, 31, e1803639	24	73
240	A comparative study on simple and practical chemical gas sensors from chemically modified graphene films. *Materials Research Express*, **2019**, 6, 015607	1.7	3
239	Scalable chemical-vapour-deposition growth of three-dimensional graphene materials towards energy-related applications. *Chemical Society Reviews*, **2018**, 47, 3018-3036	58.5	98
238	Facile graphitization of silicon nano-particles with ethanol based chemical vapor deposition. *Nano Structures Nano Objects*, **2018**, 16, 38-44	5.6	17
237	Wearable energy sources based on 2D materials. *Chemical Society Reviews*, **2018**, 47, 3152-3188	58.5	158
236	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. *Advanced Materials*, **2018**, 30, 1704839	24	53

235	Single Cr atom catalytic growth of graphene. *Nano Research*, **2018**, 11, 2405-2411	10	27
234	In Situ Room Temperature Electron-Beam Driven Graphene Growth from Hydrocarbon Contamination in a Transmission Electron Microscope. *Materials*, **2018**, 11,	3.5	12
233	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. *Advanced Energy Materials*, **2018**, 8, 1702093	21.8	272
232	Charge Density Waves Driven by Peierls Instability at the Interface of Two-Dimensional Lateral Heterostructures. *Small*, **2018**, 14, e1803040	11	2
231	Biotemplating Growth of Nepenthes-like N-Doped Graphene as a Bifunctional Polysulfide Scavenger for Li-S Batteries. *ACS Nano*, **2018**, 12, 10240-10250	16.7	104
230	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. *Chemical Reviews*, **2018**, 118, 9281-9343	68.1	160
229	Highly Conductive Nitrogen-Doped Graphene Grown on Glass toward Electrochromic Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 32622-32630	9.5	24
228	Graphene Glass Inducing Multidomain Orientations in Cholesteric Liquid Crystal Devices toward Wide Viewing Angles. *ACS Nano*, **2018**, 12, 6443-6451	16.7	26
227	Direct Growth of 5 in. Uniform Hexagonal Boron Nitride on Glass for High-Performance Deep-Ultraviolet Light-Emitting Diodes. *Advanced Materials Interfaces*, **2018**, 5, 1800662	4.6	11
226	Size and time dependent internalization of label-free nano-graphene oxide in human macrophages. *Nano Research*, **2017**, 10, 1980-1995	10	12
225	2D WC single crystal embedded in graphene for enhancing hydrogen evolution reaction. *Nano Energy*, **2017**, 33, 356-362	17.1	109
224	Graphene on graphene formation from PMMA residues during annealing. *Vacuum*, **2017**, 137, 191-194	3.7	5
223	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO by Chemical Vapor Deposition. *ACS Nano*, **2017**, 11, 1946-1956	16.7	87
222	Iodine-Mediated Chemical Vapor Deposition Growth of Metastable Transition Metal Dichalcogenides. *Chemistry of Materials*, **2017**, 29, 4641-4644	9.6	30
221	Self-Supported PtAuCu@Cu2O/Pt Hybrid Nanobranch as a Robust Electrocatalyst for the Oxygen Reduction Reaction. *ChemElectroChem*, **2017**, 4, 1554-1559	4.3	9
220	Electrical Breakdown of Suspended Mono- and Few-Layer Tungsten Disulfide via Sulfur Depletion Identified by in Situ Atomic Imaging. *ACS Nano*, **2017**, 11, 9435-9444	16.7	14
219	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. *Synthetic Metals*, **2017**, 234, 53-85	3.6	103
218	Universal Substrate-Trapping Strategy To Grow Strictly Monolayer Transition Metal Dichalcogenides Crystals. *Chemistry of Materials*, **2017**, 29, 6095-6103	9.6	36

217	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. *Science Bulletin*, **2017**, 62, 1074-1080	10.6	326
216	In Situ Electron Driven Carbon Nanopillar-Fullerene Transformation through Cr Atom Mediation. *Nano Letters*, **2017**, 17, 4725-4732	11.5	10
215	Ternary CNTs@TiO2/CoO Nanotube Composites: Improved Anode Materials for High Performance Lithium Ion Batteries. *Materials*, **2017**, 10,	3.5	12
214	Seed-Assisted Growth of Single-Crystalline Patterned Graphene Domains on Hexagonal Boron Nitride by Chemical Vapor Deposition. *Nano Letters*, **2016**, 16, 6109-6116	11.5	56
213	Edge-to-Edge Oriented Self-Assembly of ReS2 Nanoflakes. *Journal of the American Chemical Society* , **2016**, 138, 11101-4	16.4	35
212	Ultrafast Self-Limited Growth of Strictly Monolayer WSe Crystals. *Small*, **2016**, 12, 5741-5749	11	42
211	Fast and uniform growth of graphene glass using confined-flow chemical vapor deposition and its unique applications. *Nano Research*, **2016**, 9, 3048-3055	10	28
210	Direct Chemical-Vapor-Deposition-Fabricated, Large-Scale Graphene Glass with High Carrier Mobility and Uniformity for Touch Panel Applications. *ACS Nano*, **2016**, 10, 11136-11144	16.7	56
209	Current Progress in the Chemical Vapor Deposition of Type-Selected Horizontally Aligned Single-Walled Carbon Nanotubes. *ACS Nano*, **2016**, 10, 7248-66	16.7	14
208	Isotropic Growth of Graphene toward Smoothing Stitching. *ACS Nano*, **2016**, 10, 7189-96	16.7	43
207	Dispersibility of vapor phase oxygen and nitrogen functionalized multi-walled carbon nanotubes in various organic solvents. *Scientific Reports*, **2016**, 6, 26208	4.9	18
206	Growing three-dimensional biomorphic graphene powders using naturally abundant diatomite templates towards high solution processability. *Nature Communications*, **2016**, 7, 13440	17.4	71
205	High Power Q-Switched Thulium Doped Fibre Laser using Carbon Nanotube Polymer Composite Saturable Absorber. *Scientific Reports*, **2016**, 6, 24220	4.9	53
204	Direct Growth of MoS2/h-BN Heterostructures via a Sulfide-Resistant Alloy. *ACS Nano*, **2016**, 10, 2063-70	16.7	115
203	Amphiphiles with polyethyleneoxide/polyethylenecarbonate chains for hydrophilic coating of iron oxide cores, loading by Gd(III) ions and tuning R2/R1 ratio. *Reactive and Functional Polymers*, **2016**, 99, 107-113	4.6	5
202	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2016**, 8, 9185-93	9.5	18
201	Controllable Sliding Transfer of Wafer-Size Graphene. *Advanced Science*, **2016**, 3, 1600006	13.6	21
200	Residue reduction and intersurface interaction on single graphene sheets. *Carbon*, **2016**, 100, 345-350	10.4	7

199	A pinecone-inspired nanostructure design for long-cycle and high performance Si anodes. *Journal of Materials Chemistry A*, **2016**, 4, 5395-5401	13	10
198	Electrical Properties of Hybrid Nanomembrane/Nanoparticle Heterojunctions: The Role of Inhomogeneous Arrays. *Journal of Physical Chemistry C*, **2016**, 120, 6891-6899	3.8	7
197	Graphene synthesis: On-the-spot growth. *Nature Materials*, **2016**, 15, 9-10	27	24
196	CVD growth of 1D and 2D sp2 carbon nanomaterials. *Journal of Materials Science*, **2016**, 51, 640-667	4.3	59
195	Impact of heating mode in synthesis of monodisperse iron-oxide nanoparticles via oleate decomposition. *Journal of the Iranian Chemical Society*, **2016**, 13, 299-305	2	7
194	Graphene-Like ZnO: A Mini Review. *Crystals*, **2016**, 6, 100	2.3	64
193	Graphene Coating of Silicon Nanoparticles with CO2 -Enhanced Chemical Vapor Deposition. *Small*, **2016**, 12, 658-67	11	22
192	Extremely Weak van der Waals Coupling in Vertical ReS2 Nanowalls for High-Current-Density Lithium-Ion Batteries. *Advanced Materials*, **2016**, 28, 2616-23	24	169
191	Nanoparticles for Nanocomposites and Their Characterization: Selected Peer-Reviewed Articles from NanoOstrava 2015. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 7781-7782	1.3	1
190	Ultra-smooth glassy graphene thin films for flexible transparent circuits. *Science Advances*, **2016**, 2, e1601534	14.4	43
189	Negative Electro-conductance in Suspended 2D WS Nanoscale Devices. *ACS Applied Materials & Interfaces*, **2016**, 8, 32963-32970	9.5	9
188	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. *Scientific Reports*, **2016**, 6, 22524	4.9	2
187	Twinned growth behaviour of two-dimensional materials. *Nature Communications*, **2016**, 7, 13911	17.4	101
186	Electron-Driven Metal Oxide Effusion and Graphene Gasification at Room Temperature. *ACS Nano*, **2016**, 10, 6323-30	16.7	11
185	Scalable Seashell-Based Chemical Vapor Deposition Growth of Three-Dimensional Graphene Foams for Oil-Water Separation. *Journal of the American Chemical Society*, **2016**, 138, 6360-3	16.4	177
184	Comparison of Selected Oxidative Methods for Carbon Nanotubes: Structure and Functionalization Study. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 7822-7825	1.3	4
183	Stranski-Krastanov and Volmer-Weber CVD Growth Regimes To Control the Stacking Order in Bilayer Graphene. *Nano Letters*, **2016**, 16, 6403-6410	11.5	73
182	Human-Like Sensing and Reflexes of Graphene-Based Films. *Advanced Science*, **2016**, 3, 1600130	13.6	28

181	Direct Chemical Vapor Deposition Growth of Graphene on Insulating Substrates. *ChemNanoMat*, **2016**, 2, 9-18	3.5	41
180	A size dependent evaluation of the cytotoxicity and uptake of nanographene oxide. *Journal of Materials Chemistry B*, **2015**, 3, 2522-2529	7.3	46
179	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. *RSC Advances*, **2015**, 5, 60884-60891	3.7	27
178	Vertical Graphene Growth from Amorphous Carbon Films Using Oxidizing Gases. *Journal of Physical Chemistry C*, **2015**, 119, 17965-17970	3.8	7
177	Silicon carbide-free graphene growth on silicon for lithium-ion battery with high volumetric energy density. *Nature Communications*, **2015**, 6, 7393	17.4	376
176	Li-storage performance of binder-free and flexible iron fluoride@graphene cathodes. *Journal of Materials Chemistry A*, **2015**, 3, 23930-23935	13	25
175	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. *ACS Nano*, **2015**, 9, 11408-13	16.7	89
174	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. *Chemistry of Materials*, **2015**, 27, 5964-5973	9.6	27
173	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. *Nano Research*, **2015**, 8, 3164-3176	10	131
172	Direct Chemical Vapor Deposition-Derived Graphene Glasses Targeting Wide Ranged Applications. *Nano Letters*, **2015**, 15, 5846-54	11.5	152
171	Two-dimensional membrane as elastic shell with proof on the folds revealed by three-dimensional atomic mapping. *Nature Communications*, **2015**, 6, 8935	17.4	48
170	Growth of Uniform Monolayer Graphene Using Iron-Group Metals via the Formation of an Antiperovskite Layer. *Chemistry of Materials*, **2015**, 27, 8230-8236	9.6	20
169	Low voltage transmission electron microscopy of graphene. *Small*, **2015**, 11, 515-42	11	37
168	Direct growth of ultrafast transparent single-layer graphene defoggers. *Small*, **2015**, 11, 1840-6	11	78
167	Monitoring microbial metabolites using an inductively coupled resonance circuit. *Scientific Reports*, **2015**, 5, 12878	4.9	14
166	Self-Aligned Single-Crystalline Hexagonal Boron Nitride Arrays: Toward Higher Integrated Electronic Devices. *Advanced Electronic Materials*, **2015**, 1, 1500223	6.4	38
165	Observation of Electrochemically Driven Elemental Segregation in a Si Alloy Thin-Film Anode and its Effects on Cyclic Stability for Li-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1501136	21.8	14
164	Roll-to-Roll Green Transfer of CVD Graphene onto Plastic for a Transparent and Flexible Triboelectric Nanogenerator. *Advanced Materials*, **2015**, 27, 5210-6	24	215

163	Direct Synthesis of Few-Layer Graphene on NaCl Crystals. *Small*, **2015**, 11, 6302-8	11	45
162	Growing Uniform Graphene Disks and Films on Molten Glass for Heating Devices and Cell Culture. *Advanced Materials*, **2015**, 27, 7839-46	24	102
161	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. *Journal of Physical Chemistry C*, **2015**, 119, 13363-13368	3.8	52
160	Free-standing single-atom-thick iron membranes suspended in graphene pores. *Science*, **2014**, 343, 1228-32	33.5	223
159	Water transverse relaxation rates in aqueous dispersions of superparamagnetic iron oxide nanoclusters with diverse hydrophilic coating. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 443, 450-458	5.1	12
158	Unveiling the Atomic Structure of Single-Wall Boron Nanotubes. *Advanced Functional Materials*, **2014**, 24, 4127-4134	15.6	26
157	Thermal conductivity of mechanically joined semiconducting/metal nanomembrane superlattices. *Nano Letters*, **2014**, 14, 2387-93	11.5	19
156	Nanoporous and highly active silicon carbide supported CeO□catalysts for the methane oxidation reaction. *Small*, **2014**, 10, 316-22	11	12
155	Room temperature in situ growth of B/BOx nanowires and BOx nanotubes. *Nano Letters*, **2014**, 14, 799-805	11.5	12
154	Liquid Metal: An Innovative Solution to Uniform Graphene Films. *Chemistry of Materials*, **2014**, 26, 3637-3643	9.6	75
153	Direct growth of high-quality graphene on high-□dielectric SrTiO□substrates. *Journal of the American Chemical Society*, **2014**, 136, 6574-7	16.4	119
152	A universal transfer route for graphene. *Nanoscale*, **2014**, 6, 889-96	7.7	46
151	Synthesis and toxicity characterization of carbon coated iron oxide nanoparticles with highly defined size distributions. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 160-9	4	35
150	Direct in situ observations of single Fe atom catalytic processes and anomalous diffusion at graphene edges. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15641-6	11.5	80
149	Amphiphilic O-functionalized calix[4]resocinarenes with tunable structural behavior. *RSC Advances*, **2014**, 4, 9912	3.7	17
148	Graphene Coatings for the Mitigation of Electron Stimulated Desorption and Fullerene Cap Formation. *Chemistry of Materials*, **2014**, 26, 4998-5003	9.6	5
147	Dominantly epitaxial growth of graphene on Ni (1 1 1) substrate. *Applied Surface Science*, **2014**, 314, 490-499	2.7	21
146	Ultrathin two-dimensional atomic crystals as stable interfacial layer for improvement of lithium metal anode. *Nano Letters*, **2014**, 14, 6016-22	11.5	545

145	In situ observations of Pt nanoparticles coalescing inside carbon nanotubes. *RSC Advances*, **2014**, 4, 49442-49445	3.7	5
144	CO2 enhanced chemical vapor deposition growth of few-layer graphene over NiO(x). *ACS Nano*, **2014**, 8, 9224-32	16.7	22
143	Nanosized carbon black combined with Ni2O3 as "universal" catalysts for synergistically catalyzing carbonization of polyolefin wastes to synthesize carbon nanotubes and application for supercapacitors. *Environmental Science & Technology*, **2014**, 48, 4048-55	10.3	60
142	A hard-templating route towards ordered mesoporous tungsten carbide and carbide-derived carbons. *Microporous and Mesoporous Materials*, **2014**, 186, 163-167	5.3	12
141	A growth mechanism for free-standing vertical graphene. *Nano Letters*, **2014**, 14, 3064-71	11.5	182
140	Silicon carbide embedded in carbon nanofibres: structure and band gap determination. *Physical Chemistry Chemical Physics*, **2014**, 16, 24437-42	3.6	5
139	Supercritical carbon dioxide anchored Fe□□ nanoparticles on graphene foam and lithium battery performance. *ACS Applied Materials & Interfaces*, **2014**, 6, 22527-33	9.5	68
138	The influence of pH on organovermiculite structure stability. *Applied Clay Science*, **2014**, 93-94, 17-22	5.2	7
137	A cheap and quickly adaptable in situ electrical contacting TEM sample holder design. *Ultramicroscopy*, **2014**, 139, 1-4	3.1	1
136	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. *Carbon*, **2014**, 72, 372-380	10.4	98
135	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy-Storage Material. *Advanced Energy Materials*, **2014**, 4, 1300645	21.8	90
134	Insights into the Early Growth of Homogeneous Single-Layer Graphene over Ni□Mo Binary Substrates. *Chemistry of Materials*, **2013**, 25, 3880-3887	9.6	27
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