

# Sarah Haigh

## List of Publications by Citations

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262  
papers

11,904  
citations

49  
h-index

104  
g-index

280  
ext. papers

14,230  
ext. citations

8.2  
avg. IF

6.3  
L-index

#	Paper	IF	Citations
262	Vertical field-effect transistor based on graphene-WS <sub>2</sub> heterostructures for flexible and transparent electronics. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 100-3	28.7	1342
261	Light-emitting diodes by band-structure engineering in van der Waals heterostructures. <i>Nature Materials</i> , <b>2015</b> , 14, 301-6	27	1116
260	Tunable sieving of ions using graphene oxide membranes. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 546-550	28.7	960
259	Cross-sectional imaging of individual layers and buried interfaces of graphene-based heterostructures and superlattices. <i>Nature Materials</i> , <b>2012</b> , 11, 764-7	27	664
258	Production of few-layer phosphorene by liquid exfoliation of black phosphorus. <i>Chemical Communications</i> , <b>2014</b> , 50, 13338-41	5.8	556
257	Electronic properties of graphene encapsulated with different two-dimensional atomic crystals. <i>Nano Letters</i> , <b>2014</b> , 14, 3270-6	11.5	345
256	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , <b>2016</b> , 538, 222-225	50.4	325
255	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. <i>Nano Letters</i> , <b>2015</b> , 15, 4914-21	11.5	289
254	Grain-boundary-enhanced carrier collection in CdTe solar cells. <i>Physical Review Letters</i> , <b>2014</b> , 112, 156103	10.4	210
253	Desalination and Nanofiltration through Functionalized Laminar MoS Membranes. <i>ACS Nano</i> , <b>2017</b> , 11, 11082-11090	16.7	197
252	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IV-VI Main Group Two-Dimensional Atomic Crystals. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12689-96	16.4	187
251	WSe <sub>2</sub> Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. <i>Nano Letters</i> , <b>2015</b> , 15, 8223-8	11.5	183
250	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22860-8	9.5	164
249	Electrochemical properties of CVD grown pristine graphene: monolayer- vs. quasi-graphene. <i>Nanoscale</i> , <b>2014</b> , 6, 1607-21	7.7	157
248	Heterostructures produced from nanosheet-based inks. <i>Nano Letters</i> , <b>2014</b> , 14, 3987-92	11.5	147
247	Galvanic replacement reaction: recent developments for engineering metal nanostructures towards catalytic applications. <i>Chemical Communications</i> , <b>2017</b> , 53, 7135-7148	5.8	142
246	Caesium incorporation and retention in illite interlayers. <i>Applied Clay Science</i> , <b>2015</b> , 108, 128-134	5.2	124

245	Synthesis of Lateral Size-Controlled Monolayer 1H-MoS <sub>2</sub> @Oleylamine as Supercapacitor Electrodes.. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 657-664	9.6	115
244	Synthesis and Structural Characterization of Branched Palladium Nanostructures. <i>Advanced Materials</i> , <b>2009</b> , 21, 2288-2293	24	115
243	Correlating catalytic activity of Ag-Au nanoparticles with 3D compositional variations. <i>Nano Letters</i> , <b>2014</b> , 14, 1921-6	11.5	113
242	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 592-597	28.7	110
241	Correlative tomography. <i>Scientific Reports</i> , <b>2014</b> , 4, 4711	4.9	97
240	Van der Waals pressure and its effect on trapped interlayer molecules. <i>Nature Communications</i> , <b>2016</b> , 7, 12168	17.4	91
239	Investigation of dealloying of S phase (Al <sub>2</sub> CuMg) in AA 2024-T3 aluminium alloy using high resolution 2D and 3D electron imaging. <i>Corrosion Science</i> , <b>2016</b> , 103, 157-164	6.8	90
238	Biosynthesis and Characterization of Copper Nanoparticles Using <i>Shewanella oneidensis</i> : Application for Click Chemistry. <i>Small</i> , <b>2018</b> , 14, 1703145	11	87
237	In Situ Synthesis of PbS Nanocrystals in Polymer Thin Films from Lead(II) Xanthate and Dithiocarbamate Complexes: Evidence for Size and Morphology Control. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2127-2136	9.6	77
236	Ballistic molecular transport through two-dimensional channels. <i>Nature</i> , <b>2018</b> , 558, 420-424	50.4	73
235	Near-unity quantum yields from chloride treated CdTe colloidal quantum dots. <i>Small</i> , <b>2015</b> , 11, 1548-54	11	69
234	Nanometer Resolution Elemental Mapping in Graphene-Based TEM Liquid Cells. <i>Nano Letters</i> , <b>2018</b> , 18, 1168-1174	11.5	67
233	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. <i>Nature Communications</i> , <b>2017</b> , 8, 14410	17.4	66
232	New routes to copper sulfide nanostructures and thin films. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17888		65
231	Compositional variations for small-scale gamma prime ( $\gamma'$ ) precipitates formed at different cooling rates in an advanced Ni-based superalloy. <i>Acta Materialia</i> , <b>2015</b> , 85, 199-206	8.4	64
230	STEM-EDX tomography of bimetallic nanoparticles: A methodological investigation. <i>Ultramicroscopy</i> , <b>2016</b> , 162, 61-73	3.1	64
229	Thin Films of Molybdenum Disulfide Doped with Chromium by Aerosol-Assisted Chemical Vapor Deposition (AACVD). <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1367-1374	9.6	62
228	Reversible loss of Bernal stacking during the deformation of few-layer graphene in nanocomposites. <i>ACS Nano</i> , <b>2013</b> , 7, 7287-94	16.7	61

227	Capillary condensation under atomic-scale confinement. <i>Nature</i> , <b>2020</b> , 588, 250-253	50.4	59
226	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. <i>ACS Nano</i> , <b>2020</b> , 14, 10976-10985	5.7	59
225	Controlling Reaction Selectivity over Hybrid Plasmonic Nanocatalysts. <i>Nano Letters</i> , <b>2018</b> , 18, 7289-7297	11.5	57
224	X-ray energy-dispersive spectrometry during in situ liquid cell studies using an analytical electron microscope. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 323-9	0.5	56
223	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , <b>2017</b> , 53, 1445-1458	5.8	55
222	Real-time imaging and elemental mapping of AgAu nanoparticle transformations. <i>Nanoscale</i> , <b>2014</b> , 6, 13598-605	7.7	55
221	The Effects of Extensive Glomerular Filtration of Thin Graphene Oxide Sheets on Kidney Physiology. <i>ACS Nano</i> , <b>2016</b> , 10, 10753-10767	16.7	54
220	Surface properties of nanocrystalline PbS films deposited at the water-oil interface: a study of atmospheric aging. <i>Langmuir</i> , <b>2015</b> , 31, 1445-53	4	53
219	Magnetoresistance of vertical Co-graphene-NiFe junctions controlled by charge transfer and proximity-induced spin splitting in graphene. <i>2D Materials</i> , <b>2017</b> , 4, 031004	5.9	52
218	Real-time imaging and local elemental analysis of nanostructures in liquids. <i>Chemical Communications</i> , <b>2014</b> , 50, 10019-22	5.8	52
217	Comparison of solar cells sensitised by CdTe/CdSe and CdSe/CdTe core/shell colloidal quantum dots with and without a CdS outer layer. <i>Thin Solid Films</i> , <b>2014</b> , 560, 65-70	2.2	51
216	Asymmetric MoS <sub>2</sub> /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. <i>Advanced Materials</i> , <b>2016</b> , 28, 8256-8264	24	50
215	An investigation of diffusion-mediated cyclic coarsening and reversal coarsening in an advanced Ni-based superalloy. <i>Acta Materialia</i> , <b>2016</b> , 110, 295-305	8.4	50
214	In-situ observation and atomic resolution imaging of the ion irradiation induced amorphisation of graphene. <i>Scientific Reports</i> , <b>2014</b> , 4, 6334	4.9	49
213	Segregation of In to dislocations in InGaN. <i>Nano Letters</i> , <b>2015</b> , 15, 923-30	11.5	49
212	Atomic-Scale Insights into the Oxidation of Aluminum. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 2230-2235	9.5	47
211	Atomic Defects and Doping of Monolayer NbSe <sub>2</sub> . <i>ACS Nano</i> , <b>2017</b> , 11, 2894-2904	16.7	46
210	Mechanistic study of non-thermal plasma assisted CO <sub>2</sub> hydrogenation over Ru supported on MgAl layered double hydroxide. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118752	21.8	46

209	Micromagnetometry of two-dimensional ferromagnets. <i>Nature Electronics</i> , <b>2019</b> , 2, 457-463	28.4	46
208	Dielectric nanosheets made by liquid-phase exfoliation in water and their use in graphene-based electronics. <i>2D Materials</i> , <b>2014</b> , 1, 011012	5.9	45
207	Iron redistribution in a zirconium alloy after neutron and proton irradiation studied by energy-dispersive X-ray spectroscopy (EDX) using an aberration-corrected (scanning) transmission electron microscope. <i>Journal of Nuclear Materials</i> , <b>2014</b> , 454, 387-397	3.3	42
206	Enhanced organophilic separations with mixed matrix membranes of polymers of intrinsic microporosity and graphene-like fillers. <i>Journal of Membrane Science</i> , <b>2017</b> , 526, 437-449	9.6	41
205	Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>ACS Nano</i> , <b>2019</b> , 13, 2136-2142	16.7	40
204	The synthesis of metallic and semiconducting nanoparticles from reactive melts of precursors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 570-580	13	39
203	Observing Imperfection in Atomic Interfaces for van der Waals Heterostructures. <i>Nano Letters</i> , <b>2017</b> , 17, 5222-5228	11.5	39
202	Infrared-to-violet tunable optical activity in atomic films of GaSe, InSe, and their heterostructures. <i>2D Materials</i> , <b>2018</b> , 5, 041009	5.9	39
201	Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11666-11671	13	38
200	Measurement of size-dependent composition variations for gamma prime ( $\gamma'$ ) precipitates in an advanced nickel-based superalloy. <i>Ultramicroscopy</i> , <b>2014</b> , 144, 1-8	3.1	37
199	Controlling Size, Morphology, and Surface Composition of AgAu Nanodendrites in 15 s for Improved Environmental Catalysis under Low Metal Loadings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25624-32	9.5	37
198	Sequential bottom-up and top-down processing for the synthesis of transition metal dichalcogenide nanosheets: the case of rhenium disulfide (ReS <sub>2</sub> ). <i>Chemical Communications</i> , <b>2016</b> , 52, 7878-81	5.8	36
197	Laser-writable high-k dielectric for van der Waals nanoelectronics. <i>Science Advances</i> , <b>2019</b> , 5, eaau0906	14.3	35
196	Metal-organic framework templated electrodeposition of functional gold nanostructures. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 361-369	6.7	32
195	MoS <sub>2</sub> nanosheet production by the direct exfoliation of molybdenite minerals from several type-localities. <i>RSC Advances</i> , <b>2014</b> , 4, 35609-35613	3.7	32
194	CVD graphene vs. highly ordered pyrolytic graphite for use in electroanalytical sensing. <i>Analyst, The</i> , <b>2012</b> , 137, 833-9	5	32
193	The application of in situ analytical transmission electron microscopy to the study of preferential intergranular oxidation in Alloy 600. <i>Ultramicroscopy</i> , <b>2017</b> , 176, 46-51	3.1	31
192	Scalable Patterning of Encapsulated Black Phosphorus. <i>Nano Letters</i> , <b>2018</b> , 18, 5373-5381	11.5	30

191	Splenic Capture and Intracellular Biodegradation of Biological-Grade Graphene Oxide Sheets. <i>ACS Nano</i> , <b>2020</b> , 14, 10168-10186	16.7	30
190	Anomalous twin boundaries in two dimensional materials. <i>Nature Communications</i> , <b>2018</b> , 9, 3597	17.4	30
189	The benefits of very low earth orbit for earth observation missions. <i>Progress in Aerospace Sciences</i> , <b>2020</b> , 117, 100619	8.8	29
188	Synthesis and characterization of composite membranes made of graphene and polymers of intrinsic microporosity. <i>Carbon</i> , <b>2016</b> , 102, 357-366	10.4	28
187	Multiscale correlative tomography: an investigation of creep cavitation in 316 stainless steel. <i>Scientific Reports</i> , <b>2017</b> , 7, 7332	4.9	28
186	A conspicuous clay ovoid in Nakhla: evidence for subsurface hydrothermal alteration on Mars with implications for astrobiology. <i>Astrobiology</i> , <b>2014</b> , 14, 651-93	3.7	27
185	Non-rigid registration and non-local principle component analysis to improve electron microscopy spectrum images. <i>Nanotechnology</i> , <b>2016</b> , 27, 364001	3.4	27
184	Atomically thin micas as proton-conducting membranes. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 962-966	28.7	26
183	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 468-472	28.7	26
182	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. <i>Nano Letters</i> , <b>2019</b> , 19, 6475-6481	11.5	26
181	Stacking Order in Graphite Films Controlled by van der Waals Technology. <i>Nano Letters</i> , <b>2019</b> , 19, 8526-8532	11.5	26
180	Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. <i>Nano Letters</i> , <b>2020</b> , 20, 3411-3419	11.5	25
179	Quantitative Energy-Dispersive X-Ray Analysis of Catalyst Nanoparticles Using a Partial Cross Section Approach. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 71-81	0.5	25
178	Total Ionizing Dose Effects on hBN Encapsulated Graphene Devices. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 2868-2873	1.7	24
177	Chemical interactions in Ti doped MgB <sub>2</sub> superconducting bulk samples and wires. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 1190-1196	3.1	24
176	Formation and Healing of Defects in Atomically Thin GaSe and InSe. <i>ACS Nano</i> , <b>2019</b> , 13, 5112-5123	16.7	23
175	Self-assembly of a layered two-dimensional molecularly woven fabric. <i>Nature</i> , <b>2020</b> , 588, 429-435	50.4	23
174	Controlled folding of graphene: GraFold printing. <i>Nano Letters</i> , <b>2015</b> , 15, 857-63	11.5	23

173	Site Interdiffusion within Grains and Grain Boundaries in CdTe Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2014</b> , 4, 1636-1643	3.7	23
172	Au@HgxCd1-xTe core@shell nanorods by sequential aqueous cation exchange for near-infrared photodetectors. <i>Nano Energy</i> , <b>2019</b> , 57, 57-65	17.1	23
171	Ultra-thin van der Waals crystals as semiconductor quantum wells. <i>Nature Communications</i> , <b>2020</b> , 11, 125	17.4	22
170	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. <i>Chemical Communications</i> , <b>2018</b> , 54, 3831-3834	5.8	22
169	Dynamic microstructural evolution of graphite under displacing irradiation. <i>Carbon</i> , <b>2014</b> , 68, 273-284	10.4	22
168	Formation of barrier-type anodic films on ZE41 magnesium alloy in a fluoride/glycerol electrolyte. <i>Electrochimica Acta</i> , <b>2014</b> , 138, 124-131	6.7	22
167	Role of 2D and 3D defects on the reduction of LaNiO nanoparticles for catalysis. <i>Scientific Reports</i> , <b>2017</b> , 7, 10080	4.9	21
166	RF Helicon-based Inductive Plasma Thruster (IPT) Design for an Atmosphere-Breathing Electric Propulsion system (ABEP). <i>Acta Astronautica</i> , <b>2020</b> , 176, 476-483	2.9	21
165	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 411-422	6.1	21
164	Direct synthesis of MoS or MoO via thermolysis of a dialkyl dithiocarbamate molybdenum(IV) complex. <i>Chemical Communications</i> , <b>2018</b> , 55, 99-102	5.8	21
163	Dual Functionalization of Liquid-Exfoliated Semiconducting 2H-MoS <sub>2</sub> with Lanthanide Complexes Bearing Magnetic and Luminescence Properties. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703646	15.6	20
162	Imaging the active surfaces of cerium dioxide nanoparticles. <i>ChemPhysChem</i> , <b>2011</b> , 12, 2397-9	3.2	20
161	Single-Source Precursor for Tungsten Dichalcogenide Thin Films: Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> (0 ≤ x ≤ 1) Alloys by Aerosol-Assisted Chemical Vapor Deposition. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3858-3862	9.6	19
160	Nano-particle precipitation in mechanically alloyed and annealed precursor powders of legacy PM2000 ODS alloy. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 464, 200-209	3.3	19
159	Synthesis of Bi <sub>2-x</sub> Sb <sub>2x</sub> S <sub>3</sub> (0 ≤ x ≤ 1) solid solutions from solventless thermolysis of metal xanthate precursors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12652-12659	7.1	19
158	Porous Silica-Pillared MXenes with Controllable Interlayer Distances for Long-Life Na-Ion Batteries. <i>Langmuir</i> , <b>2020</b> , 36, 4370-4382	4	18
157	Multiscale 3D analysis of creep cavities in AISI type 316 stainless steel. <i>Materials Science and Technology</i> , <b>2015</b> , 31, 522-534	1.5	17
156	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. <i>Applied Materials Today</i> , <b>2017</b> , 8, 125-131	6.6	17

155	Atomic structure imaging beyond conventional resolution limits in the transmission electron microscope. <i>Physical Review Letters</i> , <b>2009</b> , 103, 126101	7.4	17
154	Optimal tilt magnitude determination for aberration-corrected super resolution exit wave function reconstruction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2009</b> , 367, 3755-71	3	17
153	Oleylamine Aging of PtNi Nanoparticles Giving Enhanced Functionality for the Oxygen Reduction Reaction. <i>Nano Letters</i> , <b>2021</b> , 21, 3989-3996	11.5	17
152	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15541-15547	16.4	17
151	Ultrastructure and Crystallography of Nanoscale Calcite Building Blocks in <i>Rhabdosphaera clavigera</i> Coccolith Spines. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 1710-1718	3.5	16
150	Atomic resolution electrostatic potential mapping of graphene sheets by off-axis electron holography. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 233709	2.5	16
149	Chemical vapor deposition of tin sulfide from diorganotin(IV) dixanthates. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 2315-2323	4.3	16
148	Large magnetoelectric coupling in multiferroic oxide heterostructures assembled via epitaxial lift-off. <i>Nature Communications</i> , <b>2020</b> , 11, 3190	17.4	15
147	An in situ and ex situ TEM study into the oxidation of titanium (IV) sulphide. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	15
146	Surface Segregated AgAu Tadpole-Shaped Nanoparticles Synthesized Via a Single Step Combined Galvanic and Citrate Reduction Reaction. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 12314-20	4.8	15
145	High-resolution TEM and the application of direct and indirect aberration correction. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 60-7	0.5	15
144	Characterising porosity in platinum nanoparticles. <i>Nanoscale</i> , <b>2019</b> , 11, 17791-17799	7.7	15
143	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10977-10985	16.4	15
142	Imaging Three-Dimensional Elemental Inhomogeneity in Pt-Ni Nanoparticles Using Spectroscopic Single Particle Reconstruction. <i>Nano Letters</i> , <b>2019</b> , 19, 732-738	11.5	14
141	Design-controlled synthesis of IrO sub-monolayers on Au nanoflowers: marrying plasmonic and electrocatalytic properties. <i>Nanoscale</i> , <b>2020</b> , 12, 12281-12291	7.7	14
140	Heterostructures formed through abraded van der Waals materials. <i>Nature Communications</i> , <b>2020</b> , 11, 3047	17.4	14
139	Solution-Processed HfOx for Half-Volt Operation of InGaZnO Thin-Film Transistors. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 1581-1589	4	14
138	A review of gas-surface interaction models for orbital aerodynamics applications. <i>Progress in Aerospace Sciences</i> , <b>2020</b> , 119, 100675	8.8	14



137	Confinement Effects and Charge Dynamics in ZnN Colloidal Quantum Dots: Implications for QD-LED Displays. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 7214-7219	5.6	13
136	Recording low and high spatial frequencies in exit wave reconstructions. <i>Ultramicroscopy</i> , <b>2013</b> , 133, 26-34	3.1	13
135	The influence of precursor on rhenium incorporation into Re-doped MoS <sub>2</sub> (Mo <sub>1-x</sub> Re <sub>x</sub> S <sub>2</sub> ) thin films by aerosol-assisted chemical vapour deposition (AACVD). <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9044-9052	7.1	13
134	High magnetic relaxivity in a fluorescent CdSe/CdS/ZnS quantum dot functionalized with MRI contrast molecules. <i>Chemical Communications</i> , <b>2017</b> , 53, 10500-10503	5.8	13
133	Dislocation core structures in (0001) InGaN. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 105301	2.5	13
132	Diatom Frustules as a Biomineralized Scaffold for the Growth of Molybdenum Disulfide Nanosheets. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5582-5586	9.6	13
131	Correlation of the ratio of metallic to oxide species with activity of PdPt catalysts for methane oxidation. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 1408-1421	5.5	12
130	Convergent beam electron holography for analysis of van der Waals heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7473-7478	11.5	12
129	Iron, Nitrogen Co-Doped Carbon Spheres as Low Cost, Scalable Electrocatalysts for the Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2102974	15.6	12
128	High-performance polymer electrolyte membranes incorporated with 2D silica nanosheets in high-temperature proton exchange membrane fuel cells. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 64, 323-334	12	12
127	Comparing Xe pFIB and Ga FIB for TEM sample preparation of Al alloys: Minimising FIB-induced artefacts. <i>Journal of Microscopy</i> , <b>2021</b> , 282, 101-112	1.9	11
126	Magnetoresistance in Co-hBN-NiFe Tunnel Junctions Enhanced by Resonant Tunneling through Single Defects in Ultrathin hBN Barriers. <i>Nano Letters</i> , <b>2018</b> , 18, 6954-6960	11.5	11
125	In Situ Industrial Bimetallic Catalyst Characterization using Scanning Transmission Electron Microscopy and X-ray Absorption Spectroscopy at One Atmosphere and Elevated Temperature. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2151-2156	3.2	10
124	Synthesis of copper catalysts for click chemistry from distillery wastewater using magnetically recoverable bionanoparticles. <i>Green Chemistry</i> , <b>2019</b> , 21, 4020-4024	10	10
123	Bilayer graphene formed by passage of current through graphite: evidence for a three-dimensional structure. <i>Nanotechnology</i> , <b>2014</b> , 25, 465601	3.4	10
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