

Sarah Haigh

List of Publications by Year in descending order

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263
papers

16,450
citations

28242

55
h-index

17090

122
g-index

280
all docs

280
docs citations

280
times ranked

23422
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical field-effect transistor based on grapheneâ€“WS ₂ heterostructures for flexible and transparent electronics. <i>Nature Nanotechnology</i> , 2013, 8, 100-103.	15.6	1,543
2	Light-emitting diodes by band-structure engineering in van der Waals heterostructures. <i>Nature Materials</i> , 2015, 14, 301-306.	13.3	1,397
3	Tunable sieving of ions using graphene oxide membranes. <i>Nature Nanotechnology</i> , 2017, 12, 546-550.	15.6	1,364
4	Cross-sectional imaging of individual layers and buried interfaces of graphene-based heterostructures and superlattices. <i>Nature Materials</i> , 2012, 11, 764-767.	13.3	796
5	Production of few-layer phosphorene by liquid exfoliation of black phosphorus. <i>Chemical Communications</i> , 2014, 50, 13338-13341.	2.2	667
6	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016, 538, 222-225.	13.7	483
7	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , 2014, 14, 3270-3276.	4.5	433
8	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. <i>Nano Letters</i> , 2015, 15, 4914-4921.	4.5	358
9	Desalination and Nanofiltration through Functionalized Lamina MoS ₂ Membranes. <i>ACS Nano</i> , 2017, 11, 11082-11090.	7.3	275
10	Grain-Boundary-Enhanced Carrier Collection in CdTe Solar Cells. <i>Physical Review Letters</i> , 2014, 112, 156103.	2.9	258
11	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2020, 15, 592-597.	15.6	245
12	WSe ₂ Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. <i>Nano Letters</i> , 2015, 15, 8223-8228.	4.5	231
13	Galvanic replacement reaction: recent developments for engineering metal nanostructures towards catalytic applications. <i>Chemical Communications</i> , 2017, 53, 7135-7148.	2.2	222
14	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IVâ€“VI Main Group Two-Dimensional Atomic Crystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 12689-12696.	6.6	220
15	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22860-22868.	4.0	208
16	Electrochemical properties of CVD grown pristine graphene: monolayer- vs. quasi-graphene. <i>Nanoscale</i> , 2014, 6, 1607-1621.	2.8	177
17	Capillary condensation under atomic-scale confinement. <i>Nature</i> , 2020, 588, 250-253.	13.7	168
18	Heterostructures Produced from Nanosheet-Based Inks. <i>Nano Letters</i> , 2014, 14, 3987-3992.	4.5	165

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19	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. ACS Nano, 2020, 14, 10976-10985.	7.3	157
20	Caesium incorporation and retention in illite interlayers. Applied Clay Science, 2015, 108, 128-134.	2.6	155
21	Ballistic molecular transport through two-dimensional channels. Nature, 2018, 558, 420-424.	13.7	139
22	Van der Waals pressure and its effect on trapped interlayer molecules. Nature Communications, 2016, 7, 12168.	5.8	137
23	Synthesis of Lateral Size-Controlled Monolayer 1 <i>H</i> -MoS ₂ @Oleylamine as Supercapacitor Electrodes.. Chemistry of Materials, 2016, 28, 657-664.	3.2	134
24	Synthesis and Structural Characterization of Branched Palladium Nanostructures. Advanced Materials, 2009, 21, 2288-2293.	11.1	124
25	Correlative Tomography. Scientific Reports, 2014, 4, 4711.	1.6	124
26	Correlating Catalytic Activity of Ag@Au Nanoparticles with 3D Compositional Variations. Nano Letters, 2014, 14, 1921-1926.	4.5	119
27	Investigation of dealloying of S phase (Al ₂ CuMg) in AA 2024-T3 aluminium alloy using high resolution 2D and 3D electron imaging. Corrosion Science, 2016, 103, 157-164.	3.0	119
28	Interfacial ferroelectricity in marginally twisted 2D semiconductors. Nature Nanotechnology, 2022, 17, 390-395.	15.6	115
29	Biosynthesis and Characterization of Copper Nanoparticles Using <i>Shewanella oneidensis</i> : Application for Click Chemistry. Small, 2018, 14, 1703145.	5.2	112
30	Mechanistic study of non-thermal plasma assisted CO ₂ hydrogenation over Ru supported on MgAl layered double hydroxide. Applied Catalysis B: Environmental, 2020, 268, 118752.	10.8	101
31	Nanometer Resolution Elemental Mapping in Graphene-Based TEM Liquid Cells. Nano Letters, 2018, 18, 1168-1174.	4.5	99
32	Atomic-Scale Insights into the Oxidation of Aluminum. ACS Applied Materials & Interfaces, 2018, 10, 2230-2235.	4.0	95
33	The benefits of very low earth orbit for earth observation missions. Progress in Aerospace Sciences, 2020, 117, 100619.	6.3	95
34	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. Nature Communications, 2017, 8, 14410.	5.8	93
35	Micromagnetometry of two-dimensional ferromagnets. Nature Electronics, 2019, 2, 457-463.	13.1	93
36	Controlling Reaction Selectivity over Hybrid Plasmonic Nanocatalysts. Nano Letters, 2018, 18, 7289-7297.	4.5	92

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37	Near-Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots. <i>Small</i> , 2015, 11, 1548-1554.	5.2	86
38	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> , 2015, 27, 2127-2136.	3.2	84
39	Compositional variations for small-scale gamma prime (γ') precipitates formed at different cooling rates in an advanced Ni-based superalloy. <i>Acta Materialia</i> , 2015, 85, 199-206.	3.8	81
40	Thin Films of Molybdenum Disulfide Doped with Chromium by Aerosol-Assisted Chemical Vapor Deposition (AACVD). <i>Chemistry of Materials</i> , 2015, 27, 1367-1374.	3.2	78
41	Surface Properties of Nanocrystalline PbS Films Deposited at the Water-Oil Interface: A Study of Atmospheric Aging. <i>Langmuir</i> , 2015, 31, 1445-1453.	1.6	74
42	STEM-EDX tomography of bimetallic nanoparticles: A methodological investigation. <i>Ultramicroscopy</i> , 2016, 162, 61-73.	0.8	74
43	Self-assembly of a layered two-dimensional molecularly woven fabric. <i>Nature</i> , 2020, 588, 429-435.	13.7	74
44	Magnetoresistance of vertical Co-graphene-NiFe junctions controlled by charge transfer and proximity-induced spin splitting in graphene. <i>2D Materials</i> , 2017, 4, 031004.	2.0	73
45	New routes to copper sulfide nanostructures and thin films. <i>Journal of Materials Chemistry</i> , 2011, 21, 17888.	6.7	70
46	The Effects of Extensive Glomerular Filtration of Thin Graphene Oxide Sheets on Kidney Physiology. <i>ACS Nano</i> , 2016, 10, 10753-10767.	7.3	70
47	An investigation of diffusion-mediated cyclic coarsening and reversal coarsening in an advanced Ni-based superalloy. <i>Acta Materialia</i> , 2016, 110, 295-305.	3.8	69
48	Reversible Loss of Bernal Stacking during the Deformation of Few-Layer Graphene in Nanocomposites. <i>ACS Nano</i> , 2013, 7, 7287-7294.	7.3	68
49	X-ray Energy-Dispersive Spectrometry During <i>In Situ</i> Liquid Cell Studies Using an Analytical Electron Microscope. <i>Microscopy and Microanalysis</i> , 2014, 20, 323-329.	0.2	66
50	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. <i>Journal of the American Chemical Society</i> , 2021, 143, 10977-10985.	6.6	66
51	Real-time imaging and elemental mapping of AgAu nanoparticle transformations. <i>Nanoscale</i> , 2014, 6, 13598-13605.	2.8	64
52	Asymmetric MoS ₂ /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. <i>Advanced Materials</i> , 2016, 28, 8256-8264.	11.1	64
53	Atomic Defects and Doping of Monolayer NbSe ₂ . <i>ACS Nano</i> , 2017, 11, 2894-2904.	7.3	63
54	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , 2017, 53, 1445-1458.	2.2	63

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55	Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>ACS Nano</i> , 2019, 13, 2136-2142.	7.3	63
56	In-situ observation and atomic resolution imaging of the ion irradiation induced amorphisation of graphene. <i>Scientific Reports</i> , 2014, 4, 6334.	1.6	62
57	Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. <i>Nano Letters</i> , 2020, 20, 3411-3419.	4.5	59
58	Enhanced organophilic separations with mixed matrix membranes of polymers of intrinsic microporosity and graphene-like fillers. <i>Journal of Membrane Science</i> , 2017, 526, 437-449.	4.1	57
59	Real-time imaging and local elemental analysis of nanostructures in liquids. <i>Chemical Communications</i> , 2014, 50, 10019-10022.	2.2	56
60	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> , 2014, 560, 65-70.	0.8	55
61	Segregation of In to Dislocations in InGaN. <i>Nano Letters</i> , 2015, 15, 923-930.	4.5	54
62	Stacking Order in Graphite Films Controlled by van der Waals Technology. <i>Nano Letters</i> , 2019, 19, 8526-8532.	4.5	54
63	Observing Imperfection in Atomic Interfaces for van der Waals Heterostructures. <i>Nano Letters</i> , 2017, 17, 5222-5228.	4.5	53
64	Infrared-to-violet tunable optical activity in atomic films of GaSe, InSe, and their heterostructures. <i>2D Materials</i> , 2018, 5, 041009.	2.0	52
65	Laser-writable high- k dielectric for van der Waals nanoelectronics. <i>Science Advances</i> , 2019, 5, eaau0906.	4.7	51
66	Splenic Capture and <i>In Vivo</i> Intracellular Biodegradation of Biological-Grade Graphene Oxide Sheets. <i>ACS Nano</i> , 2020, 14, 10168-10186.	7.3	51
67	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15541-15547.	7.2	51
68	Dielectric nanosheets made by liquid-phase exfoliation in water and their use in graphene-based electronics. <i>2D Materials</i> , 2014, 1, 011012.	2.0	49
69	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> , 2014, 454, 387-397.	1.3	49
70	Large magnetoelectric coupling in multiferroic oxide heterostructures assembled via epitaxial lift-off. <i>Nature Communications</i> , 2020, 11, 3190.	5.8	48
71	Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11666-11671.	5.2	47
72	Anomalous twin boundaries in two dimensional materials. <i>Nature Communications</i> , 2018, 9, 3597.	5.8	46

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73	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. ACS Applied Energy Materials, 2020, 3, 411-422.	2.5	46
74	Pillared Mo ₂ TiC ₂ MXene for high-power and long-life lithium and sodium-ion batteries. Nanoscale Advances, 2021, 3, 3145-3158.	2.2	46
75	The synthesis of metallic and semiconducting nanoparticles from reactive melts of precursors. Journal of Materials Chemistry A, 2014, 2, 570-580.	5.2	45
76	Measurement of size-dependent composition variations for gamma prime (γ') precipitates in an advanced nickel-based superalloy. Ultramicroscopy, 2014, 144, 1-8.	0.8	45
77	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. Nature Nanotechnology, 2018, 13, 468-472.	15.6	45
78	Atomically thin micas as proton-conducting membranes. Nature Nanotechnology, 2019, 14, 962-966.	15.6	45
79	RF Helicon-based Inductive Plasma Thruster (IPT) Design for an Atmosphere-Breathing Electric Propulsion system (ABEP). Acta Astronautica, 2020, 176, 476-483.	1.7	45
80	Scalable Patterning of Encapsulated Black Phosphorus. Nano Letters, 2018, 18, 5373-5381.	4.5	43
81	Nonreciprocal superconducting NbSe ₂ antenna. Nature Communications, 2020, 11, 5634.	5.8	43
82	Controlling Size, Morphology, and Surface Composition of AgAu Nanodendrites in 15 s for Improved Environmental Catalysis under Low Metal Loadings. ACS Applied Materials & Interfaces, 2015, 7, 25624-25632.	4.0	42
83	Sequential bottom-up and top-down processing for the synthesis of transition metal dichalcogenide nanosheets: the case of rhenium disulfide (ReS ₂). Chemical Communications, 2016, 52, 7878-7881.	2.2	42
84	A review of gas-surface interaction models for orbital aerodynamics applications. Progress in Aerospace Sciences, 2020, 119, 100675.	6.3	41
85	MoS ₂ nanosheet production by the direct exfoliation of molybdenite minerals from several type-localities. RSC Advances, 2014, 4, 35609-35613.	1.7	40
86	Metal-organic framework templated electrodeposition of functional gold nanostructures. Electrochimica Acta, 2016, 222, 361-369.	2.6	40
87	Ion exchange in atomically thin clays and micas. Nature Materials, 2021, 20, 1677-1682.	13.3	40
88	Au@HgxCd _{1-x} Te core@shell nanorods by sequential aqueous cation exchange for near-infrared photodetectors. Nano Energy, 2019, 57, 57-65.	8.2	38
89	Direct synthesis of MoS ₂ or MoO ₃ <i>via</i> thermolysis of a dialkyl dithiocarbamate molybdenum(^{iv}) complex. Chemical Communications, 2019, 55, 99-102.	2.2	38
90	The application of in situ analytical transmission electron microscopy to the study of preferential intergranular oxidation in Alloy 600. Ultramicroscopy, 2017, 176, 46-51.	0.8	37

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91	Oleylamine Aging of PtNi Nanoparticles Giving Enhanced Functionality for the Oxygen Reduction Reaction. <i>Nano Letters</i> , 2021, 21, 3989-3996.	4.5	37
92	Quantitative Energy-Dispersive X-Ray Analysis of Catalyst Nanoparticles Using a Partial Cross Section Approach. <i>Microscopy and Microanalysis</i> , 2016, 22, 71-81.	0.2	36
93	Heterostructures formed through abraded van der Waals materials. <i>Nature Communications</i> , 2020, 11, 3047.	5.8	36
94	High-performance polymer electrolyte membranes incorporated with 2D silica nanosheets in high-temperature proton exchange membrane fuel cells. <i>Journal of Energy Chemistry</i> , 2022, 64, 323-334.	7.1	36
95	Gold-Rhodium Nanoflowers for the Plasmon-Enhanced Hydrogen Evolution Reaction under Visible Light. <i>ACS Catalysis</i> , 2021, 11, 13543-13555.	5.5	36
96	Formation and Healing of Defects in Atomically Thin GaSe and InSe. <i>ACS Nano</i> , 2019, 13, 5112-5123.	7.3	35
97	Iron, Nitrogen Co-Doped Carbon Spheres as Low Cost, Scalable Electrocatalysts for the Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2102974.	7.8	35
98	Synthesis and characterization of composite membranes made of graphene and polymers of intrinsic microporosity. <i>Carbon</i> , 2016, 102, 357-366.	5.4	34
99	CVD graphene vs. highly ordered pyrolytic graphite for use in electroanalytical sensing. <i>Analyst</i> , The, 2012, 137, 833-839.	1.7	33
100	Dynamic microstructural evolution of graphite under displacing irradiation. <i>Carbon</i> , 2014, 68, 273-284.	5.4	33
101	Multiscale correlative tomography: an investigation of creep cavitation in 316 stainless steel. <i>Scientific Reports</i> , 2017, 7, 7332.	1.6	33
102	Ultra-thin van der Waals crystals as semiconductor quantum wells. <i>Nature Communications</i> , 2020, 11, 125.	5.8	33
103	Intake design for an Atmosphere-Breathing Electric Propulsion System (ABEP). <i>Acta Astronautica</i> , 2021, 187, 225-235.	1.7	33
104	A Conspicuous Clay Ovoid in Nakhla: Evidence for Subsurface Hydrothermal Alteration on Mars with Implications for Astrobiology. <i>Astrobiology</i> , 2014, 14, 651-693.	1.5	32
105	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. <i>Nano Letters</i> , 2019, 19, 6475-6481.	4.5	32
106	Non-rigid registration and non-local principle component analysis to improve electron microscopy spectrum images. <i>Nanotechnology</i> , 2016, 27, 364001.	1.3	30
107	Porous Silica-Pillared MXenes with Controllable Interlayer Distances for Long-Life Na-Ion Batteries. <i>Langmuir</i> , 2020, 36, 4370-4382.	1.6	30
108	Comparing Xe ⁺ pFIB and Ga ⁺ FIB for TEM sample preparation of Al alloys: Minimising FIB-induced artefacts. <i>Journal of Microscopy</i> , 2021, 282, 101-112.	0.8	29

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109	Sâ€“Te Interdiffusion within Grains and Grain Boundaries in CdTe Solar Cells. IEEE Journal of Photovoltaics, 2014, 4, 1636-1643.	1.5	28
110	Single-Source Precursor for Tungsten Dichalcogenide Thin Films: Mo _{1-x} W _x S ₂ (0 ≤ x ≤ 1) Alloys by Aerosol-Assisted Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 3858-3862.	3.2	28
111	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. Chemical Communications, 2018, 54, 3831-3834.	2.2	28
112	Surfactant-free Synthesis of Spiky Hollow Agâ€“Au Nanostars with Chemically Exposed Surfaces for Enhanced Catalysis and Single-Particle SERS. JACS Au, 2022, 2, 178-187.	3.6	28
113	Chemical interactions in Ti doped MgB ₂ superconducting bulk samples and wires. Superconductor Science and Technology, 2005, 18, 1190-1196.	1.8	27
114	Total Ionizing Dose Effects on hBN Encapsulated Graphene Devices. IEEE Transactions on Nuclear Science, 2014, 61, 2868-2873.	1.2	27
115	Controlled Folding of Graphene: GraFold Printing. Nano Letters, 2015, 15, 857-863.	4.5	27
116	Role of 2D and 3D defects on the reduction of LaNiO ₃ nanoparticles for catalysis. Scientific Reports, 2017, 7, 10080.	1.6	27
117	In-orbit aerodynamic coefficient measurements using SOAR (Satellite for Orbital Aerodynamics) Tj ETQq1 1 0.784314 rgBT / Overlock	1.7	27
118	Atomic Structure Imaging Beyond Conventional Resolution Limits in the Transmission Electron Microscope. Physical Review Letters, 2009, 103, 126101.	2.9	26
119	Formation of barrier-type anodic films on ZE41 magnesium alloy in a fluoride/glycerol electrolyte. Electrochimica Acta, 2014, 138, 124-131.	2.6	26
120	Nano-particle precipitation in mechanically alloyed and annealed precursor powders of legacy PM2000 ODS alloy. Journal of Nuclear Materials, 2015, 464, 200-209.	1.3	24
121	Multiscale 3D analysis of creep cavities in AISI type 316 stainless steel. Materials Science and Technology, 2015, 31, 522-534.	0.8	24
122	Chemical vapor deposition of tin sulfide from diorganotin(IV) dioxanthates. Journal of Materials Science, 2019, 54, 2315-2323.	1.7	24
123	Stability and stoichiometry of L12 Al ₃ (Sc,Zr) dispersoids in Al-(Si)-Sc-Zr alloys. Acta Materialia, 2021, 216, 117117.	3.8	24
124	Dual Functionalization of Liquidâ€“Exfoliated Semiconducting 2<i>Hâ€“</i>MoS ₂ with Lanthanide Complexes Bearing Magnetic and Luminescence Properties. Advanced Functional Materials, 2017, 27, 1703646.	7.8	23
125	Synthesis of Bi _{2-x} Sb _{2x} S ₃ (0 ≤ x ≤ 1) solid solutions from solventless thermolysis of metal xanthate precursors. Journal of Materials Chemistry C, 2018, 6, 12652-12659.	2.7	23
126	Enhanced Superconductivity in Few-Layer TaS ₂ due to Healing by Oxygenation. Nano Letters, 2020, 20, 3808-3818.	4.5	23

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127	Solution-Processed HfO ₂ for Half-Volt Operation of InGaZnO Thin-Film Transistors. ACS Applied Electronic Materials, 2019, 1, 1581-1589.	2.0	22
128	Synthesis of new M-layer solid-solution 312 MAX phases (Ta _{1-x} Ti _x) ₃ AlC ₂ (x = 0.4, 0.62,) Tj ETQq070 0 rgBT4/Overlock	1.0	20
129	An in situ and ex situ TEM study into the oxidation of titanium (IV) sulphide. Npj 2D Materials and Applications, 2017, 1, .	3.9	21
130	Imaging the Active Surfaces of Cerium Dioxide Nanoparticles. ChemPhysChem, 2011, 12, 2397-2399.	1.0	20
131	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. Applied Materials Today, 2017, 8, 125-131.	2.3	20
132	Confinement Effects and Charge Dynamics in Zn ₃ N ₂ Colloidal Quantum Dots: Implications for QD-LED Displays. ACS Applied Nano Materials, 2019, 2, 7214-7219.	2.4	20
133	Design-controlled synthesis of IrO ₂ sub-monolayers on Au nanoflowers: marrying plasmonic and electrocatalytic properties. Nanoscale, 2020, 12, 12281-12291.	2.8	20
134	A structured catalyst support combining electrochemically exfoliated graphene oxide and carbon black for enhanced performance and durability in low-temperature hydrogen fuel cells. Energy, 2021, 226, 120318.	4.5	20
135	Unraveling the H ₂ Promotional Effect on Palladium-Catalyzed CO Oxidation Using a Combination of Temporally and Spatially Resolved Investigations. ACS Catalysis, 2018, 8, 8255-8262.	5.5	19
136	The influence of precursor on rhenium incorporation into Re-doped MoS ₂ (Mo _{1-x} Re _x S ₂) thin films by aerosol-assisted chemical vapour deposition (AACVD). Journal of Materials Chemistry C, 2017, 5, 9044-9052.	2.7	18
137	Imaging Three-Dimensional Elemental Inhomogeneity in Pt@Ni Nanoparticles Using Spectroscopic Single Particle Reconstruction. Nano Letters, 2019, 19, 732-738.	4.5	18
138	Self-Limiting Growth of Two-Dimensional Palladium between Graphene Oxide Layers. Nano Letters, 2019, 19, 4678-4683.	4.5	18
139	In Situ TEM Imaging of Solution-Phase Chemical Reactions Using 2D-Heterostructure Mixing Cells. Advanced Materials, 2021, 33, e2100668.	11.1	18
140	Optimal tilt magnitude determination for aberration-corrected super resolution exit wave function reconstruction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3755-3771.	1.6	17
141	Atomic resolution electrostatic potential mapping of graphene sheets by off-axis electron holography. Journal of Applied Physics, 2014, 115, .	1.1	17
142	Ultrastructure and Crystallography of Nanoscale Calcite Building Blocks in Rhabdosphaera clavigera Cocolith Spines. Crystal Growth and Design, 2014, 14, 1710-1718.	1.4	17
143	Surface Segregated AgAu Tadpole-Shaped Nanoparticles Synthesized Via a Single Step Combined Galvanic and Citrate Reduction Reaction. Chemistry - A European Journal, 2015, 21, 12314-12320.	1.7	17
144	Convergent beam electron holography for analysis of van der Waals heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7473-7478.	3.3	17

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145	Synthesis of copper catalysts for click chemistry from distillery wastewater using magnetically recoverable bionanoparticles. <i>Green Chemistry</i> , 2019, 21, 4020-4024.	4.6	17
146	Characterising porosity in platinum nanoparticles. <i>Nanoscale</i> , 2019, 11, 17791-17799.	2.8	17
147	Photocatalytic hydrogen production by biomimetic indium sulfide using <i>Mimosa pudica</i> leaves as template. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2770-2783.	3.8	17
148	Dislocation core structures in (0001) InGaN. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	16
149	Synthetic 2-D lead tin sulfide nanosheets with tuneable optoelectronic properties from a potentially scalable reaction pathway. <i>Chemical Science</i> , 2019, 10, 1035-1045.	3.7	16
150	Electrically pumped WSe ₂ -based light-emitting van der Waals heterostructures embedded in monolithic dielectric microcavities. <i>2D Materials</i> , 2020, 7, 031006.	2.0	16
151	High-Resolution TEM and the Application of Direct and Indirect Aberration Correction. <i>Microscopy and Microanalysis</i> , 2008, 14, 60-67.	0.2	15
152	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> , 2017, 18, 2151-2156.	1.0	15
153	Magnetoresistance in Co-hBN-NiFe Tunnel Junctions Enhanced by Resonant Tunneling through Single Defects in Ultrathin hBN Barriers. <i>Nano Letters</i> , 2018, 18, 6954-6960.	4.5	15
154	Beyond surface redox and oxygen mobility at pd-polar ceria (100) interface: Underlying principle for strong metal-support interactions in green catalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118843.	10.8	15
155	Correlation of the ratio of metallic to oxide species with activity of PdPt catalysts for methane oxidation. <i>Catalysis Science and Technology</i> , 2020, 10, 1408-1421.	2.1	15
156	Gas permeation through graphdiyne-based nanoporous membranes. <i>Nature Communications</i> , 2022, 13, .	5.8	15
157	Recording low and high spatial frequencies in exit wave reconstructions. <i>Ultramicroscopy</i> , 2013, 133, 26-34.	0.8	14
158	High magnetic relaxivity in a fluorescent CdSe/CdS/ZnS quantum dot functionalized with MRI contrast molecules. <i>Chemical Communications</i> , 2017, 53, 10500-10503.	2.2	14
159	Diatom Frustules as a Biomineralized Scaffold for the Growth of Molybdenum Disulfide Nanosheets. <i>Chemistry of Materials</i> , 2016, 28, 5582-5586.	3.2	13
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