

Sarah Haigh

List of Publications by Year in descending order

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263
papers

16,450
citations

28274

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17105

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all docs

280
docs citations

280
times ranked

23422
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	12.9	36
2	Reply to: Random interstratification in hydrated graphene oxide membranes and implications for seawater desalination. <i>Nature Nanotechnology</i> , 2022, 17, 134-135.	31.5	5
3	Elucidating heterogeneous iron biomineralization patterns in a denitrifying As(^{III})-oxidizing bacterium: implications for arsenic immobilization. <i>Environmental Science: Nano</i> , 2022, 9, 1076-1090.	4.3	5
4	Telluride Nanocrystals with Adjustable Amorphous Shell Thickness and Core-Shell Structure Modulation by Aqueous Cation Exchange. <i>Inorganic Chemistry</i> , 2022, 61, 3989-3996.	4.0	7
5	Hydrotalcite Colloidal Stability and Interactions with Uranium(VI) at Neutral to Alkaline pH. <i>Langmuir</i> , 2022, 38, 2576-2589.	3.5	8
6	Low-Temperature Exsolution of Ni-Ru Bimetallic Nanoparticles from A-Site Deficient Double Perovskites. <i>Small</i> , 2022, 18, e2107020.	10.0	7
7	Interfacial ferroelectricity in marginally twisted 2D semiconductors. <i>Nature Nanotechnology</i> , 2022, 17, 390-395.	31.5	115
8	Development and analysis of novel mission scenarios based on Atmosphere-Breathing Electric Propulsion (ABEP). <i>CEAS Space Journal</i> , 2022, 14, 689-706.	2.3	11
9	Surfactant-free Synthesis of Spiky Hollow Ag-Au Nanostars with Chemically Exposed Surfaces for Enhanced Catalysis and Single-Particle SERS. <i>JACS Au</i> , 2022, 2, 178-187.	7.9	28
10	Controlling and Monitoring Crack Propagation in Monolayer Graphene Single Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	4
11	The modified liquid liquid interface: An electrochemical route for the electrode-less synthesis of MoS ₂ metal composite thin films. <i>Electrochimica Acta</i> , 2022, 424, 140609.	5.2	3
12	Nanocubes of Mo ₆ S ₈ Chevrel phase as active electrode material for aqueous lithium-ion batteries. <i>Nanoscale</i> , 2022, 14, 10125-10135.	5.6	9
13	Gas permeation through graphdiyne-based nanoporous membranes. <i>Nature Communications</i> , 2022, 13, .	12.8	15
14	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.	1.8	29
15	Magnetic-Field-Induced Re-entrance of Superconductivity in Ta ₂ PdS ₅ Nanostrips. <i>Nano Letters</i> , 2021, 21, 288-297.	9.1	3
16	In-orbit aerodynamic coefficient measurements using SOAR (Satellite for Orbital Aerodynamics) Tj ETQq0 0 0 rgBT JOverlock 10 Tf 50 14	3.2	27
17	Hydrocarbon contamination in angstr�m-scale channels. <i>Nanoscale</i> , 2021, 13, 9553-9560.	5.6	7
18	Synthesis of IR-emitting HgTe quantum dots using an ionic liquid-based tellurium precursor. <i>Nanoscale Advances</i> , 2021, 3, 4062-4064.	4.6	0

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19	Nanometre imaging of Fe ₃ GeTe ₂ ferromagnetic domain walls. Nanotechnology, 2021, 32, 205703.	2.6	6
20	HOLOGRAPHIC CONVERGENT ELECTRON BEAM DIFFRACTION (CBED) IMAGING OF TWO-DIMENSIONAL CRYSTALS. Surface Review and Letters, 2021, 28, 2140001.	1.1	0
21	Iron-silica interaction during reduction of precipitated silica-promoted iron oxides using in situ XRD and TEM. Applied Catalysis A: General, 2021, 613, 118031.	4.3	6
22	Chlorosulfuric acid-assisted production of functional 2D materials. Npj 2D Materials and Applications, 2021, 5, .	7.9	3
23	Oleylamine Aging of PtNi Nanoparticles Giving Enhanced Functionality for the Oxygen Reduction Reaction. Nano Letters, 2021, 21, 3989-3996.	9.1	37
24	In Situ TEM Imaging of Solution-Phase Chemical Reactions Using 2D-Heterostructure Mixing Cells. Advanced Materials, 2021, 33, e2100668.	21.0	18
25	Synthesis of molybdenum-doped rhenium disulfide alloy using aerosol-assisted chemical vapour deposition. Materials Science in Semiconductor Processing, 2021, 127, 105718.	4.0	4
26	Magic under the microscope. Nature Materials, 2021, 20, 908-909.	27.5	1
27	Purification of Propylene and Ethylene by a Robust Metal-Organic Framework Mediated by Host-Guest Interactions. Angewandte Chemie - International Edition, 2021, 60, 15541-15547.	13.8	51
28	Automating 3D Imaging of Inorganic Nanoparticles. Microscopy and Microanalysis, 2021, 27, 2864-2866.	0.4	1
29	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. Journal of the American Chemical Society, 2021, 143, 10977-10985.	13.7	66
30	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.	8.8	20
31	Controlling Interfacial Reduction Kinetics and Suppressing Electrochemical Oscillations in Li ₄ Ti ₅ O ₁₂ Thin-Film Anodes. Advanced Functional Materials, 2021, 31, 2105354.	14.9	10
32	Iron, Nitrogen Co-Doped Carbon Spheres as Low Cost, Scalable Electrocatalysts for the Oxygen Reduction Reaction. Advanced Functional Materials, 2021, 31, 2102974.	14.9	35
33	Ion exchange in atomically thin clays and micas. Nature Materials, 2021, 20, 1677-1682.	27.5	40
34	Stability and stoichiometry of L12 Al ₃ (Sc,Zr) dispersoids in Al-(Si)-Sc-Zr alloys. Acta Materialia, 2021, 216, 117117.	7.9	24
35	High-Performance Nanostructured MoS ₂ Electrodes with Spontaneous Ultralow Gold Loading for Hydrogen Evolution. Journal of Physical Chemistry C, 2021, 125, 20940-20951.	3.1	9
36	Intake design for an Atmosphere-Breathing Electric Propulsion System (ABEP). Acta Astronautica, 2021, 187, 225-235.	3.2	33

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37	Synthesis of new M-layer solid-solution 312 MAX phases ($Ta_{1-x}Ti_x$) ₃ AlC ₂ ($x = 0.4, 0.62$), Tj ETQq. 1.4 0.784314 rgBT	1.4	0
38	Pillared Mo ₂ TiC ₂ MXene for high-power and long-life lithium and sodium-ion batteries. <i>Nanoscale Advances</i> , 2021, 3, 3145-3158.	4.6	46
39	Gold-Rhodium Nanoflowers for the Plasmon-Enhanced Hydrogen Evolution Reaction under Visible Light. <i>ACS Catalysis</i> , 2021, 11, 13543-13555.	11.2	36
40	Direct measurement of TEM lamella thickness in FIB-SEM. <i>Journal of Microscopy</i> , 2020, 279, 168-176.	1.8	8
41	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 411-422.	5.1	46
42	The benefits of very low earth orbit for earth observation missions. <i>Progress in Aerospace Sciences</i> , 2020, 117, 100619.	12.1	95
43	Splenic Capture and <i>In Vivo</i> Intracellular Biodegradation of Biological-Grade Graphene Oxide Sheets. <i>ACS Nano</i> , 2020, 14, 10168-10186.	14.6	51
44	A review of gas-surface interaction models for orbital aerodynamics applications. <i>Progress in Aerospace Sciences</i> , 2020, 119, 100675.	12.1	41
45	Rapid and Low-Temperature Molecular Precursor Approach toward Ternary Layered Metal Chalcogenides and Oxides: Mo _{1-x} W _x S ₂ and Mo _{1-x} W _x O ₃ Alloys (0 ≤ x ≤ 1). <i>Chemistry of Materials</i> , 2020, 32, 7895-7907.	6.7	13
46	Twist and Bend in Van Der Waals Materials and 2D Stacked Heterostructures. <i>Microscopy and Microanalysis</i> , 2020, 26, 856-858.	0.4	0
47	Atomic Resolution Imaging of CrBr ₃ Using Adhesion-Enhanced Grids. <i>Nano Letters</i> , 2020, 20, 6582-6589.	9.1	13
48	Electrocatalytic Behavior of PtCu Clusters Produced by Nanoparticle Beam Deposition. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23683-23689.	3.1	9
49	Guest Editor's Foreword, Special Issue Introduction and Scientific Highlights. <i>Journal of Microscopy</i> , 2020, 279, 141-142.	1.8	0
50	Performance of a NiFe ₂ O ₄ @Co Core-Shell Fischer-Tropsch Catalyst: Effect of Low Temperature Reduction. <i>ACS Omega</i> , 2020, 5, 32975-32983.	3.5	4
51	Self-assembly of a layered two-dimensional molecularly woven fabric. <i>Nature</i> , 2020, 588, 429-435.	27.8	74
52	Capillary condensation under atomic-scale confinement. <i>Nature</i> , 2020, 588, 250-253.	27.8	168
53	Harnessing the Electron Beam to Study Reactions in Graphene Liquid Cells and Degradation in Sensitive 2D Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 538-541.	0.4	0
54	Nonreciprocal superconducting NbSe ₂ antenna. <i>Nature Communications</i> , 2020, 11, 5634.	12.8	43

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55	An in-situ method for protecting internal cracks/pores from ion beam damage and reducing curtaining for TEM sample preparation using FIB. <i>Ultramicroscopy</i> , 2020, 219, 113135.	1.9	13
56	Design-controlled synthesis of IrO ₂ sub-monolayers on Au nanoflowers: marrying plasmonic and electrocatalytic properties. <i>Nanoscale</i> , 2020, 12, 12281-12291.	5.6	20
57	Gas-Phase Deposition of Gold Nanoclusters to Produce Heterogeneous Glycerol Oxidation Catalysts. <i>ACS Applied Nano Materials</i> , 2020, 3, 4997-5001.	5.0	6
58	Convergent beam electron diffraction of multilayer Van der Waals structures. <i>Ultramicroscopy</i> , 2020, 212, 112976.	1.9	6
59	Photo- and Electroluminescence from Zn-Doped InN Semiconductor Nanocrystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000604.	7.3	4
60	Heterostructures formed through abraded van der Waals materials. <i>Nature Communications</i> , 2020, 11, 3047.	12.8	36
61	Large magnetoelectric coupling in multiferroic oxide heterostructures assembled via epitaxial lift-off. <i>Nature Communications</i> , 2020, 11, 3190.	12.8	48
62	Raman Fingerprints of Graphene Produced by Anodic Electrochemical Exfoliation. <i>Nano Letters</i> , 2020, 20, 3411-3419.	9.1	59
63	Electrically pumped WSe ₂ -based light-emitting van der Waals heterostructures embedded in monolithic dielectric microcavities. <i>2D Materials</i> , 2020, 7, 031006.	4.4	16
64	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.	20.2	15
65	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. <i>ACS Nano</i> , 2020, 14, 10976-10985.	14.6	157
66	RF Helicon-based Inductive Plasma Thruster (IPT) Design for an Atmosphere-Breathing Electric Propulsion system (ABEP). <i>Acta Astronautica</i> , 2020, 176, 476-483.	3.2	45
67	Holographic reconstruction of the interlayer distance of bilayer two-dimensional crystal samples from their convergent beam electron diffraction patterns. <i>Ultramicroscopy</i> , 2020, 219, 113020.	1.9	2
68	Mechanistic study of non-thermal plasma assisted CO ₂ hydrogenation over Ru supported on MgAl layered double hydroxide. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118752.	20.2	101
69	Ultra-thin van der Waals crystals as semiconductor quantum wells. <i>Nature Communications</i> , 2020, 11, 125.	12.8	33
70	Porous Silica-Pillared MXenes with Controllable Interlayer Distances for Long-Life Na-Ion Batteries. <i>Langmuir</i> , 2020, 36, 4370-4382.	3.5	30
71	Enhanced Superconductivity in Few-Layer TaS ₂ due to Healing by Oxygenation. <i>Nano Letters</i> , 2020, 20, 3808-3818.	9.1	23
72	Automated Single-Particle Reconstruction of Heterogeneous Inorganic Nanoparticles. <i>Microscopy and Microanalysis</i> , 2020, 26, 1168-1175.	0.4	13

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73	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2020, 15, 592-597.	31.5	245
74	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.	4.1	15
75	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. <i>Nano Letters</i> , 2019, 19, 6475-6481.	9.1	32
76	Liquid-Phase STEM-EDS in Graphene and Silicon Nitride Cells. <i>Microscopy and Microanalysis</i> , 2019, 25, 1500-1501.	0.4	2
77	Two Methods for Measuring Lamellae Thicknesses In situ for Improved FIB Specimen Preparation. <i>Microscopy and Microanalysis</i> , 2019, 25, 858-859.	0.4	0
78	Three-Dimensional Imaging of Nanoparticle Chemistry Using Spectroscopic Single Particle Reconstruction. <i>Microscopy and Microanalysis</i> , 2019, 25, 400-401.	0.4	0
79	Morphological and compositional changes of $\text{MFe}_2\text{O}_4@ \text{Co}_3\text{O}_4$ ($\text{M} = \text{Ni, Zn}$) core-shell nanoparticles after mild reduction. <i>Materials Characterization</i> , 2019, 155, 109806.	4.4	5
80	Synthesis of copper catalysts for click chemistry from distillery wastewater using magnetically recoverable bionanoparticles. <i>Green Chemistry</i> , 2019, 21, 4020-4024.	9.0	17
81	Solution-Processed HfO_x for Half-Volt Operation of InGaZnO Thin-Film Transistors. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1581-1589.	4.3	22
82	Liquid Exfoliation of $\text{Ni}_2\text{P}_2\text{S}_6$: Structural Characterization, Size-Dependent Properties, and Degradation. <i>Chemistry of Materials</i> , 2019, 31, 9127-9139.	6.7	13
83	Stacking Order in Graphite Films Controlled by van der Waals Technology. <i>Nano Letters</i> , 2019, 19, 8526-8532.	9.1	54
84	Confinement Effects and Charge Dynamics in Zn_3N_2 Colloidal Quantum Dots: Implications for QD-LED Displays. <i>ACS Applied Nano Materials</i> , 2019, 2, 7214-7219.	5.0	20
85	Atomically thin micas as proton-conducting membranes. <i>Nature Nanotechnology</i> , 2019, 14, 962-966.	31.5	45
86	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.	7.4	16
87	Imaging Three-Dimensional Elemental Inhomogeneity in Pt-Ni Nanoparticles Using Spectroscopic Single Particle Reconstruction. <i>Nano Letters</i> , 2019, 19, 732-738.	9.1	18
88	Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>ACS Nano</i> , 2019, 13, 2136-2142.	14.6	63
89	Laser-writable high- k dielectric for van der Waals nanoelectronics. <i>Science Advances</i> , 2019, 5, eaau0906.	10.3	51
90	Self-Limiting Growth of Two-Dimensional Palladium between Graphene Oxide Layers. <i>Nano Letters</i> , 2019, 19, 4678-4683.	9.1	18

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91	Formation and Healing of Defects in Atomically Thin GaSe and InSe. ACS Nano, 2019, 13, 5112-5123.	14.6	35
92	Nanometre electron beam sculpting of suspended graphene and hexagonal boron nitride heterostructures. 2D Materials, 2019, 6, 025032.	4.4	10
93	Micromagnetometry of two-dimensional ferromagnets. Nature Electronics, 2019, 2, 457-463.	26.0	93
94	Characterising porosity in platinum nanoparticles. Nanoscale, 2019, 11, 17791-17799.	5.6	17
95	Photocatalytic hydrogen production by biomimetic indium sulfide using Mimosa pudica leaves as template. International Journal of Hydrogen Energy, 2019, 44, 2770-2783.	7.1	17
96	Convergent and divergent beam electron holography and reconstruction of adsorbates on free-standing two-dimensional crystals. Frontiers of Physics, 2019, 14, 1.	5.0	7
97	Au@Hg _x Cd _{1-x} Te core@shell nanorods by sequential aqueous cation exchange for near-infrared photodetectors. Nano Energy, 2019, 57, 57-65.	16.0	38
98	Direct synthesis of MoS ₂ or MoO ₃ via thermolysis of a dialkyl dithiocarbamate molybdenum(IV) complex. Chemical Communications, 2019, 55, 99-102.	4.1	38
99	Chemical vapor deposition of tin sulfide from diorganotin(IV) dioxanthenes. Journal of Materials Science, 2019, 54, 2315-2323.	3.7	24
100	Fate of Lu(III) sorbed on 2-line ferrihydrite at pH 5.7 and aged for 12 years at room temperature. II: insights from STEM-EDXS and DFT calculations. Environmental Science and Pollution Research, 2019, 26, 5282-5293.	5.3	4
101	Biosynthesis and Characterization of Copper Nanoparticles Using <i>Shewanella oneidensis</i> : Application for Click Chemistry. Small, 2018, 14, 1703145.	10.0	112
102	Nanometer Resolution Elemental Mapping in Graphene-Based TEM Liquid Cells. Nano Letters, 2018, 18, 1168-1174.	9.1	99
103	Atomic-Scale Insights into the Oxidation of Aluminum. ACS Applied Materials & Interfaces, 2018, 10, 2230-2235.	8.0	95
104	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. Chemical Communications, 2018, 54, 3831-3834.	4.1	28
105	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. Nature Nanotechnology, 2018, 13, 468-472.	31.5	45
106	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.	5.5	23
107	Controlling Reaction Selectivity over Hybrid Plasmonic Nanocatalysts. Nano Letters, 2018, 18, 7289-7297.	9.1	92
108	Magnetoresistance in Co-hBN-NiFe Tunnel Junctions Enhanced by Resonant Tunneling through Single Defects in Ultrathin hBN Barriers. Nano Letters, 2018, 18, 6954-6960.	9.1	15

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109	Anomalous twin boundaries in two dimensional materials. Nature Communications, 2018, 9, 3597.	12.8	46
110	Infrared-to-violet tunable optical activity in atomic films of GaSe, InSe, and their heterostructures. 2D Materials, 2018, 5, 041009.	4.4	52
111	Photo-oxidized HfS ₂ - An embeddable and writable high-k dielectric for flexible Van der Waals nano-electronics. , 2018, , .		0
112	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.	7.1	17
113	Core-shell cytotocompatible polymer dot-based particles with near-infrared emission and enhanced dispersion stability. Chemical Communications, 2018, 54, 9364-9367.	4.1	3
114	Scalable Patterning of Encapsulated Black Phosphorus. Nano Letters, 2018, 18, 5373-5381.	9.1	43
115	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.	11.2	19
116	Ballistic molecular transport through two-dimensional channels. Nature, 2018, 558, 420-424.	27.8	139
117	Co-precipitation on the Basal and Prismatic Planes in Mg-Gd-Ag-Zr Alloy Subjected to Over-Ageing. Minerals, Metals and Materials Series, 2018, , 379-383.	0.4	0
118	Exploring Nanoscale Precursor Reactions in Alloy 600 in H ₂ /N ₂ -H ₂ O Vapor Using In Situ Analytical Transmission Electron Microscopy. Minerals, Metals and Materials Series, 2018, , 399-407.	0.4	0
119	The application of in situ analytical transmission electron microscopy to the study of preferential intergranular oxidation in Alloy 600. Ultramicroscopy, 2017, 176, 46-51.	1.9	37
120	Atomic Defects and Doping of Monolayer NbSe ₂ . ACS Nano, 2017, 11, 2894-2904.	14.6	63
121	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. Nature Communications, 2017, 8, 14410.	12.8	93
122	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.	6.7	28
123	Elemental distribution within the long-period stacking ordered structure in a Mg-Gd-Zn-Mn alloy. Materials Characterization, 2017, 129, 247-251.	4.4	4
124	Cu segregation on the interface between Al ₂ O ₃ substrate and Al-1.4Cu alloy. Materials Characterization, 2017, 129, 300-304.	4.4	7
125	Galvanic replacement reaction: recent developments for engineering metal nanostructures towards catalytic applications. Chemical Communications, 2017, 53, 7135-7148.	4.1	222
126	In Situ Industrial Bimetallic Catalyst Characterization using Scanning Transmission Electron Microscopy and X-ray Absorption Spectroscopy at One Atmosphere and Elevated Temperature. ChemPhysChem, 2017, 18, 2151-2156.	2.1	15

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127	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.	4.4	73
128	Tunable sieving of ions using graphene oxide membranes. <i>Nature Nanotechnology</i> , 2017, 12, 546-550.	31.5	1,364
129	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.	8.2	57
130	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , 2017, 53, 1445-1458.	4.1	63
131	Role of 2D and 3D defects on the reduction of LaNiO ₃ nanoparticles for catalysis. <i>Scientific Reports</i> , 2017, 7, 10080.	3.3	27
132	Desalination and Nanofiltration through Functionalized Lamellar MoS ₂ Membranes. <i>ACS Nano</i> , 2017, 11, 11082-11090.	14.6	275
133	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). <i>Journal of Materials Chemistry C</i> , 2017, 5, 9044-9052.	5.5	18
134	Magnetic spectroscopy of nanoparticulate greigite, Fe ₃ S ₄ . <i>Mineralogical Magazine</i> , 2017, 81, 857-872.	1.4	9
135	Understanding 2D Crystal Vertical Heterostructures at the Atomic Scale Using Advanced Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1714-1715.	0.4	0
136	High magnetic relaxivity in a fluorescent CdSe/CdS/ZnS quantum dot functionalized with MRI contrast molecules. <i>Chemical Communications</i> , 2017, 53, 10500-10503.	4.1	14
137	Dual Functionalization of Liquid-Exfoliated Semiconducting 2D MoS ₂ with Lanthanide Complexes Bearing Magnetic and Luminescence Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1703646.	14.9	23
138	Analysis of grain size in FePt films fabricated using remote plasma deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 443, 67-72.	2.3	0
139	An in situ and ex situ TEM study into the oxidation of titanium (IV) sulphide. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	21
140	Multiscale correlative tomography: an investigation of creep cavitation in 316 stainless steel. <i>Scientific Reports</i> , 2017, 7, 7332.	3.3	33
141	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. <i>Applied Materials Today</i> , 2017, 8, 125-131.	4.3	20
142	Plasmon-induced nanoscale quantised conductance filaments. <i>Scientific Reports</i> , 2017, 7, 2878.	3.3	3
143	Automated quantification of morphology and chemistry from STEM data of individual nanoparticles. <i>Journal of Physics: Conference Series</i> , 2017, 902, 012018.	0.4	3
144	Observing Imperfection in Atomic Interfaces for van der Waals Heterostructures. <i>Nano Letters</i> , 2017, 17, 5222-5228.	9.1	53

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145	Combining Non-Rigid Registration with Non-Local Principle Component Analysis for Atomic Resolution EDS Mapping. <i>Microscopy and Microanalysis</i> , 2016, 22, 1406-1407.	0.4	0
146	Imaging the Hydrated Microbe-Metal Interface Using Nanoscale Spectrum Imaging. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 833-841.	2.3	2
147	Radiation damage in biotite mica by accelerated $\hat{\pm}$ -particles: A synchrotron microfocus X-ray diffraction and X-ray absorption spectroscopy study. <i>American Mineralogist</i> , 2016, 101, 928-942.	1.9	7
148	Temperature Programmed Reduction of a PdCu Bimetallic Catalyst via Atmospheric Pressure in situ STEM-EDS and in situ X-Ray Adsorption Analysis. <i>Microscopy and Microanalysis</i> , 2016, 22, 214-215.	0.4	1
149	Energy Dispersive X-Ray Spectroscopy in Liquids: Inorganic and Biological Applications. <i>Microscopy and Microanalysis</i> , 2016, 22, 72-73.	0.4	1
150	The Effects of Extensive Glomerular Filtration of Thin Graphene Oxide Sheets on Kidney Physiology. <i>ACS Nano</i> , 2016, 10, 10753-10767.	14.6	70
151	Dislocation core structures in (0001) InGaN. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	16
152	The Biosynthesis of Infrared-Emitting Quantum Dots in <i>Allium Fistulosum</i> . <i>Scientific Reports</i> , 2016, 6, 20480.	3.3	6
153	Quantitative Energy-Dispersive X-Ray Analysis of Catalyst Nanoparticles Using a Partial Cross Section Approach. <i>Microscopy and Microanalysis</i> , 2016, 22, 71-81.	0.4	36
154	Self-catalytic membrane photo-reactor made of carbon nitride nanosheets. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11666-11671.	10.3	47
155	Compositional quantification of PtCo acid-leached fuel cell catalysts using EDX partial cross sections. <i>Materials Science and Technology</i> , 2016, 32, 248-253.	1.6	11
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