

Quentin Ramasse

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.

251 papers	8,132 citations	46 h-index	83 g-index
262 ext. papers	9,276 ext. citations	7.3 avg, IF	6.06 L-index

#	Paper	IF	Citations
251	Automated Image Analysis for Single-Atom Detection in Catalytic Materials by Transmission Electron Microscopy.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	4
250	Imaging the Spatial Distribution of Electronic States in Graphene Using Electron Energy-Loss Spectroscopy: Prospect of Orbital Mapping.. <i>Physical Review Letters</i> , 2022 , 128, 116401	7.4	0
249	Controlling the Thermoelectric Properties of Nb-Doped TiO Ceramics through Engineering Defect Structures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57326-57340	9.5	4
248	Unraveling electronic band structure of narrow-bandgap p-n nanojunctions in heterostructured nanowires. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25019-25023	3.6	1
247	The Advantage of Nanowire Configuration in Band Structure Determination (Adv. Funct. Mater. 41/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170305	15.6	
246	Removal of core hole distortion from ionization edges in electron energy loss spectroscopy. <i>Physical Review B</i> , 2021 , 103,	3.3	2
245	Role of SnO2 in the Bifunctional Mechanism of CO Oxidation at Pt-SnO2 Electrocatalysts. <i>ChemElectroChem</i> , 2021 , 8, 2572-2582	4.3	1
244	Spatial distribution of metallic heteroatoms in soot nanostructure mapped by aberration-corrected STEM-EELS. <i>Carbon</i> , 2021 , 173, 953-967	10.4	2
243	Enhanced Spin-Orbit Coupling in Heavy Metals via Molecular Coupling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5228-5234	9.5	2
242	Exfoliation of Alpha-Germanium: A Covalent Diamond-Like Structure. <i>Advanced Materials</i> , 2021 , 33, e2006826	16.8	8
241	Atomic-Scale Vibrational and Electronic Response of Interfaces in Heterostructures for Spintronics Applications. <i>Microscopy and Microanalysis</i> , 2021 , 27, 104-105	0.5	
240	Nanoscale functional chemistry and opto-electronic response of organic materials. <i>Microscopy and Microanalysis</i> , 2021 , 27, 3062-3064	0.5	
239	The Advantage of Nanowire Configuration in Band Structure Determination. <i>Advanced Functional Materials</i> , 2021 , 31, 2105426	15.6	2
238	Linear and Helical Cesium Iodide Atomic Chains in Ultranarrow Single-Walled Carbon Nanotubes: Impact on Optical Properties. <i>ACS Nano</i> , 2021 ,	16.7	3
237	Theory of magnon diffuse scattering in scanning transmission electron microscopy. <i>Physical Review B</i> , 2021 , 104,	3.3	1
236	Electron Energy Loss Spectroscopy of Bright and Dark Modes in Hyperbolic Metamaterial Nanostructures. <i>Advanced Optical Materials</i> , 2020 , 8, 2000277	8.1	12
235	Plasmons in MoS studied via experimental and theoretical correlation of energy loss spectra. <i>Journal of Microscopy</i> , 2020 , 279, 256-264	1.9	5

234	Single-atom vibrational spectroscopy in the scanning transmission electron microscope. <i>Science</i> , 2020 , 367, 1124-1127	33.3	73
233	Accurate EELS background subtraction - an adaptable method in MATLAB. <i>Ultramicroscopy</i> , 2020 , 217, 113052	3.1	4
232	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. <i>Nano Letters</i> , 2020 , 20, 1272-1279	11.5	17
231	Evidence for Self-healing Benign Grain Boundaries and a Highly Defective SbSe-CdS Interfacial Layer in SbSe Thin-Film Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21730-21738	9.5	28
230	Isotopic compositions, nitrogen functional chemistry, and low-loss electron spectroscopy of complex organic aggregates at the nanometer scale in the carbonaceous chondrite Renazzo. <i>Meteoritics and Planetary Science</i> , 2020 , 55, 1293-1319	2.8	11
229	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020 , 11, 57	17.4	72
228	Heterotwin ZnP superlattice nanowires: the role of indium insertion in the superlattice formation mechanism and their optical properties. <i>Nanoscale</i> , 2020 , 12, 22534-22540	7.7	3
227	Bandgap determination from individual orthorhombic thin cesium lead bromide nanosheets by electron energy-loss spectroscopy. <i>Nanoscale Horizons</i> , 2020 , 5, 1610-1617	10.8	3
226	Vibrational STEM-EELS of Single Si Atom Point Defects in Graphene. <i>Microscopy and Microanalysis</i> , 2020 , 26, 954-955	0.5	
225	Bond Dissociation and Reactivity of HF and HO in a Nano Test Tube. <i>ACS Nano</i> , 2020 , 14, 11178-11189	16.7	7
224	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. <i>ACS Catalysis</i> , 2020 , 10, 11069-11080	13.1	12
223	Long Cycle Life, Highly Ordered SnO ₂ /GeO ₂ Nanocomposite Inverse Opal Anode Materials for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2005073	15.6	18
222	A primordial N-depleted organic component detected within the carbonaceous chondrite Maribo. <i>Scientific Reports</i> , 2020 , 10, 20251	4.9	5
221	Contrast reversal in atomic-scale phonon spectroscopic imaging. <i>Physical Review B</i> , 2020 , 102,	3.3	5
220	Tents, Chairs, Tacos, Kites, and Rods: Shapes and Plasmonic Properties of Singly Twinned Magnesium Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 5968-5980	16.7	13
219	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19890-19902	9.5	6
218	Challenges and Applications of High Spatial and Energy Resolution EELS for Mapping Functional Chemistry in Beam-Sensitive Materials at Low Acceleration Voltages. <i>Microscopy and Microanalysis</i> , 2019 , 25, 480-481	0.5	
217	Atomic Scale Near-Edge Structures of a Structurally Abrupt Ni-SrTiO ₃ Interface. <i>Microscopy and Microanalysis</i> , 2019 , 25, 664-665	0.5	

216	The structure and thermoelectric properties of tungsten bronze Ba ₆ Ti ₂ Nb ₈ O ₃₀ . <i>Journal of Applied Physics</i> , 2019 , 126, 125115	2.5	5
215	TEM Specimen Preparation Using a Low Energy Ion Beam for Nuclear Metallic Materials. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1608-1609	0.5	1
214	Optical Properties and Dielectric Functions of Grain Boundaries and Interfaces in CdTe Thin-Film Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1419-1427	6.1	10
213	Atomic-Scale Spectroscopic Imaging of the Extreme-UV Optical Response of B- and N-Doped Graphene. <i>Advanced Functional Materials</i> , 2019 , 29, 1901819	15.6	6
212	Theory of momentum-resolved phonon spectroscopy in the electron microscope. <i>Physical Review B</i> , 2019 , 99,	3.3	15
211	Shape Determination in Lithium-Ion Battery Cathode Materials Using Electron Diffraction-Assisted Electron Tomography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1824-1825	0.5	
210	Self-Nanostructuring in SrTiO ₃ : A Novel Strategy for Enhancement of Thermoelectric Response in Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32833-32843	9.5	34
209	Self-Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. <i>Advanced Functional Materials</i> , 2019 , 29, 1903120	15.6	7
208	Atomic-Scale Study of Metal/Oxide Interfaces and Magnetoelastic Coupling in Self-Assembled Epitaxial Vertically Aligned Magnetic Nanocomposites. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900549	4.6	6
207	High Spatial and Energy Resolution Analytical Scanning Transmission Electron Microscopy for Quantum Materials. <i>Microscopy and Microanalysis</i> , 2019 , 25, 946-947	0.5	
206	Scan Strategies for Electron Energy Loss Spectroscopy at Optical and Vibrational Energies in Perylene Diimide Nanobelts. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1738-1739	0.5	0
205	Atomically Resolved Vibrational Spectroscopy in the Electron Microscope. <i>Microscopy and Microanalysis</i> , 2019 , 25, 592-593	0.5	
204	Local Coordination in Metal-Organic Frameworks Probed in the Vibrational and Optical Regime by EELS. <i>Microscopy and Microanalysis</i> , 2019 , 25, 606-607	0.5	
203	Direct Quantification of Cu Vacancies and Spatial Localization of Surface Plasmon Resonances in Copper Phosphide Nanocrystals 2019 , 1, 665-670		6
202	Graphene Optoelectronics: Atomic-Scale Spectroscopic Imaging of the Extreme-UV Optical Response of B- and N-Doped Graphene (Adv. Funct. Mater. 52/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970356	15.6	
201	Phonon Spectroscopy at Atomic Resolution. <i>Physical Review Letters</i> , 2019 , 122, 016103	7.4	71
200	Local Plasmon Engineering in Doped Graphene. <i>ACS Nano</i> , 2018 , 12, 1837-1848	16.7	21
199	Prospects for Engineering Thermoelectric Properties in LaNbO ₄ Ceramics Revealed via Atomic-Level Characterization and Modeling. <i>Inorganic Chemistry</i> , 2018 , 57, 45-55	5.1	7

198	Transmission Electron Microscopy Reveals Deposition of Metal Oxide Coatings onto Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1348-1357	16.4	36
197	Magnetic and structural depth profiles of Heusler alloy CoFeAlSi epitaxial films on Si(1 1 1). <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 065801	1.8	3
196	Effect of composition on the structure of lithium- and manganese-rich transition metal oxides. <i>Energy and Environmental Science</i> , 2018 , 11, 830-840	35.4	30
195	Effect of annealing on the structure and magnetic properties of Co ₂ FeAl _{0.5} Si _{0.5} thin films on Ge(111). <i>Journal of Alloys and Compounds</i> , 2018 , 748, 323-327	5.7	7
194	Influence of growth kinetics on Sn incorporation in direct band gap Ge _{1-x} Sn _x nanowires. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8738-8750	7.1	14
193	Analytical STEM Investigation of the Post-Synthetic Modification (PMS) of Metal-Organic Frameworks (MOFs): Metal- and Ligand-Exchange in UiO-66. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1970-1971 ¹	0.5	1
192	Molecular Excitation Spectroscopy near Metallic Surfaces using Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 476-477	0.5	1
191	Nanoscale momentum-resolved vibrational spectroscopy. <i>Science Advances</i> , 2018 , 4, eaar7495	14.3	75
190	Co-precipitation on the Basal and Prismatic Planes in Mg _{1-x} Ag _x Alloy Subjected to Over-Ageing. <i>Minerals, Metals and Materials Series</i> , 2018 , 379-383	0.3	
189	Mapping VIS-terahertz (~7 THz) surface plasmons sustained on native and chemically functionalized percolated gold thin films using EELS. <i>Microscopy (Oxford, England)</i> , 2018 , 67, i30-i39	1.3	3
188	Atomic-Resolution Spectrum Imaging of Semiconductor Nanowires. <i>Nano Letters</i> , 2018 , 18, 1557-1563	11.5	16
187	Localized Plasmon Response Engineering in B- and N-Doped Graphene. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1580-1581	0.5	
186	Linear heterostructured NiSi/Si nanowires with abrupt interfaces synthesised in solution. <i>Nanoscale</i> , 2018 , 10, 19182-19187	7.7	3
185	Enhancing the thermoelectric power factor of Sr _{0.9} Nd _{0.1} TiO ₃ through control of the nanostructure and microstructure. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24928-24939	13	23
184	Subwavelength Spatially Resolved Coordination Chemistry of Metal-Organic Framework Glass Blends. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17862-17866	16.4	14
183	Atomic-Level Characterization of Thermoelectric La _{1/3} NbO ₃ . <i>Microscopy and Microanalysis</i> , 2018 , 24, 1534-1535	0.5	
182	Systematic Analysis of the Coupling Effects within Supported Plasmonic Nanorod Antenna Arrays. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22041-22053	3.8	3
181	Electronic Structure Control of Sub-nanometer 1D SnTe via Nanostructuring within Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2018 , 12, 6023-6031	16.7	28

180	Utilising unit-cell twinning operators to reduce lattice thermal conductivity in modular structures: Structure and thermoelectric properties of Ga ₂ O ₃ (ZnO) ₉ . <i>Journal of Alloys and Compounds</i> , 2018 , 762, 892-900	5.7	10
179	Universal geometric frustration in pyrochlores. <i>Nature Communications</i> , 2018 , 9, 2619	17.4	41
178	Managing dose-, damage- and data-rates in multi-frame spectrum-imaging. <i>Microscopy (Oxford, England)</i> , 2018 , 67, i98-i113	1.3	30
177	Modifying the Interface Edge to Control the Electrical Transport Properties of Nanocontacts to Nanowires. <i>Nano Letters</i> , 2017 , 17, 687-694	11.5	8
176	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. <i>Advanced Functional Materials</i> , 2017 , 27, 1605785	15.6	172
175	Probing the Origin of Interfacial Carriers in SrTiO ₃ /LaCrO ₃ Superlattices. <i>Chemistry of Materials</i> , 2017 , 29, 1147-1155	9.6	17
174	Observation of complete inversion of the hysteresis loop in a bimodal magnetic thin film. <i>Physical Review B</i> , 2017 , 95,	3.3	11
173	Correlative characterization on microstructure evolution of Ni-based K403 alloy during thermal exposure. <i>Acta Materialia</i> , 2017 , 131, 169-186	8.4	14
172	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. <i>Scientific Reports</i> , 2017 , 7, 45997	4.9	80
171	Probing the local nature of excitons and plasmons in few-layer MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	41
170	Elemental distribution within the long-period stacking ordered structure in a Mg-Gd-Zn-Mn alloy. <i>Materials Characterization</i> , 2017 , 129, 247-251	3.9	2
169	Single-Atom Scale Structural Selectivity in Te Nanowires Encapsulated Inside Ultranarrow, Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 6178-6185	16.7	52
168	Anomalous diffusion of single metal atoms on a graphene oxide support. <i>Chemical Physics Letters</i> , 2017 , 683, 370-374	2.5	21
167	Twenty years after: How "Aberration correction in the STEM" truly placed a "A synchrotron in a Microscope". <i>Ultramicroscopy</i> , 2017 , 180, 41-51	3.1	16
166	Heterogeneous nucleation of Al on AlB ₂ in Al-7Si alloy. <i>Materials Characterization</i> , 2017 , 128, 7-13	3.9	14
165	High-resolution monochromated electron energy-loss spectroscopy of organic photovoltaic materials. <i>Ultramicroscopy</i> , 2017 , 180, 125-132	3.1	7
164	Ion-beam modification of 2-D materials - single implant atom analysis via annular dark-field electron microscopy. <i>Ultramicroscopy</i> , 2017 , 176, 31-36	3.1	19
163	Atomic-scale characterization of thermoelectric oxides using high spatial and energy resolution STEM-EELS. <i>Microscopy and Microanalysis</i> , 2017 , 23, 370-371	0.5	

162	Stability of Schottky and Ohmic Au Nanocatalysts to ZnO Nanowires. <i>Nano Letters</i> , 2017 , 17, 6626-6636	11.5	5
161	Robust theoretical modelling of core ionisation edges for quantitative electron energy loss spectroscopy of B- and N-doped graphene. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 225303	1.8	5
160	Visualizing atomic-scale redox dynamics in vanadium oxide-based catalysts. <i>Nature Communications</i> , 2017 , 8, 305	17.4	42
159	Towards atomically precise manipulation of 2D nanostructures in the electron microscope. <i>2D Materials</i> , 2017 , 4, 042004	5.9	52
158	Evidence for Cu ₂ Se platelets at grain boundaries and within grains in Cu(In,Ga)Se ₂ thin films. <i>Applied Physics Letters</i> , 2017 , 111, 032103	3.4	10
157	Point defect segregation and its role in the detrimental nature of Frank partials in Cu(In,Ga)Se ₂ thin-film absorbers. <i>Physical Review B</i> , 2017 , 95,	3.3	8
156	Momentum- and space-resolved high-resolution electron energy loss spectroscopy of individual single-wall carbon nanotubes. <i>Physical Review B</i> , 2017 , 95,	3.3	13
155	Imaging Two Dimensional Materials and their Heterostructures. <i>Journal of Physics: Conference Series</i> , 2017 , 902, 012028	0.3	5
154	Concurrent La and A-Site Vacancy Doping Modulates the Thermoelectric Response of SrTiO ₃ : Experimental and Computational Evidence. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41988-42000	9.5	26
153	Mapping grain boundary heterogeneity at the nanoscale in a positive temperature coefficient of resistivity ceramic. <i>APL Materials</i> , 2017 , 5, 066105	5.7	6
152	Electron Microscopy Reveals Structural and Chemical Changes at the Nanometer Scale in the Pathology. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2788-2797	5.5	7
151	Van der Waals epitaxy between the highly lattice mismatched Cu-doped FeSe and Bi ₂ Te ₃ . <i>NPG Asia Materials</i> , 2017 , 9, e402-e402	10.3	16
150	Location of Co and Ni promoter atoms in multi-layer MoS ₂ nanocrystals for hydrotreating catalysis. <i>Catalysis Today</i> , 2016 , 261, 75-81	5.3	29
149	Monochromated STEM-EELS Analysis of Interface-Induced Polarization in LaCrO ₃ -SrTiO ₃ Superlattices 2016 , 972-973		
148	The structural conversion from β -AgVO to α -AgVO: Ag nanoparticle decorated nanowires with application as cathode materials for Li-ion batteries. <i>Nanoscale</i> , 2016 , 8, 16266-16275	7.7	33
147	Characterization of Ordering in A-Site Deficient Perovskite CaLaTiO Using STEM/EELS. <i>Inorganic Chemistry</i> , 2016 , 55, 9937-9948	5.1	9
146	Tuning the thermoelectric properties of A-site deficient SrTiO ₃ ceramics by vacancies and carrier concentration. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26475-26486	3.6	47
145	Nanoanalytical Electron Microscopy Reveals a Sequential Mineralization Process Involving Carbonate-Containing Amorphous Precursors. <i>ACS Nano</i> , 2016 , 10, 6826-35	16.7	34

144	Local A-Site Layering in Rare-Earth Orthochromite Perovskites by Solution Synthesis. <i>Chemistry - A European Journal</i> , 2016 , 22, 18362-18367	4.8	12
143	Atomic and electronic structure of twin growth defects in magnetite. <i>Scientific Reports</i> , 2016 , 6, 20943	4.9	11
142	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge(1-x)Sn(x) nanowires. <i>Nature Communications</i> , 2016 , 7, 11405	17.4	84
141	Revealing heterogeneous nucleation of primary Si and eutectic Si by ALP in hypereutectic Al-Si alloys. <i>Scientific Reports</i> , 2016 , 6, 25244	4.9	21
140	Recent applications of high energy and spatial resolution STEM-EELS to energy harvesting materials 2016 , 942-943		
139	Atomic-scale visualization of the growth and structure of MoS ₂ -based hydrodesulfurization catalysts 2016 , 520-521		
138	Interface-Induced Polarization in SrTiO ₃ -LaCrO ₃ Superlattices. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500779	4.6	24
137	Maghemite-like regions at the crossing of two antiphase boundaries in doped BiFeO ₃ . <i>Materials Science and Technology</i> , 2016 , 32, 242-247	1.5	4
136	Ba ₆ B _x Nd _{8+2x} Ti ₁₈ O ₅₄ Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. <i>Journal of Electronic Materials</i> , 2016 , 45, 1894-1899	1.9	14
135	The information content in single-molecule Raman nanoscopy. <i>Advances in Physics: X</i> , 2016 , 1, 35-54	5.1	8
134	Solvent Vapor Growth of Axial Heterostructure Nanowires with Multiple Alternating Segments of Silicon and Germanium. <i>Nano Letters</i> , 2016 , 16, 374-80	11.5	21
133	Tungsten Bronze Barium Neodymium Titanate (Ba(6-3n)Nd(8+2n)Ti(18)O(54)): An Intrinsic Nanostructured Material and Its Defect Distribution. <i>Inorganic Chemistry</i> , 2016 , 55, 3338-50	5.1	12
132	Elemental redistributions at structural defects in Cu(In,Ga)Se ₂ thin films for solar cells. <i>Journal of Applied Physics</i> , 2016 , 120, 205301	2.5	12
131	Detection of oxygen sub-lattice ordering in A-site deficient perovskites through monochromated core-loss EELS mapping. <i>Microscopy and Microanalysis</i> , 2016 , 22, 262-263	0.5	1
130	Mapping cation-vacancy ordering and oxygen octahedral distortions in A-site deficient perovskites by monochromated core-loss EELS 2016 , 980-981		
129	Electron energy loss spectroscopy (EELS) fingerprints of p- and n-type doping in graphene 2016 , 829-830		
128	Toward defect-free semi-polar GaN templates on pre-structured sapphire. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 834-839	1.3	5
127	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se ₂ thin films for solar cells: a review. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 363-375	2.5	42

126	Polar Spinel-Perovskite Interfaces: an atomistic study of Fe ₃ O ₄ (111)/SrTiO ₃ (111) structure and functionality. <i>Scientific Reports</i> , 2016 , 6, 29724	4.9	7
125	Practical Implementation of Compressive Sensing for High Resolution STEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 558-559	0.5	7
124	Realisation of magnetically and atomically abrupt half-metal/semiconductor interface: CoFeSiAl/Ge(111). <i>Scientific Reports</i> , 2016 , 6, 37282	4.9	15
123	Band gap widening at random CIGS grain boundary detected by valence electron energy loss spectroscopy. <i>Applied Physics Letters</i> , 2016 , 109, 153103	3.4	14
122	The role of chemical structure on the magnetic and electronic properties of Co ₂ FeAl _{0.5} Si _{0.5} /Si(111) interface. <i>Applied Physics Letters</i> , 2016 , 108, 172412	3.4	12
121	Experimental and density functional study of Mn doped Bi ₂ Te ₃ topological insulator. <i>APL Materials</i> , 2016 , 4, 126103	5.7	12
120	Controlling the half-metallicity of Heusler/Si(1 1 1) interfaces by a monolayer of Si-Co-Si. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 395003	1.8	2
119	Study of Structure of Li- and Mn-rich Transition Metal Oxides Using 4D-STEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 494-495	0.5	8
118	Visualizing surface plasmons with photons, photoelectrons, and electrons. <i>Analyst, The</i> , 2016 , 141, 3562-3572	7.2	16
117	Local Variations of Cation Composition on a Nanometer-Sized Scale in a YBa ₂ Cu ₃ O _{6.92} Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 1139-1143	1.5	2
116	Single Atoms of Pt-Group Metals Stabilized by N-Doped Carbon Nanofibers for Efficient Hydrogen Production from Formic Acid. <i>ACS Catalysis</i> , 2016 , 6, 3442-3451	13.1	205
115	Annihilation of structural defects in chalcogenide absorber films for high-efficiency solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 1818-1827	35.4	32
114	Role of Structure and Defect Chemistry in High-Performance Thermoelectric Bismuth Strontium Cobalt Oxides. <i>Chemistry of Materials</i> , 2016 , 28, 7470-7478	9.6	18
113	Micro-to nano-scale characterisation of polyamide structures of the SW30HR RO membrane using advanced electron microscopy and stain tracers. <i>Journal of Membrane Science</i> , 2016 , 520, 465-476	9.6	86
112	Observation of compositional domains within individual copper indium sulfide quantum dots. <i>Nanoscale</i> , 2016 , 8, 16157-61	7.7	8
111	Polarization screening-induced magnetic phase gradients at complex oxide interfaces. <i>Nature Communications</i> , 2015 , 6, 6735	17.4	64
110	Carbon-metal interfaces analyzed by aberration-corrected TEM: how copper and nickel nanoparticles interact with MWCNTs. <i>Micron</i> , 2015 , 72, 52-8	2.3	13
109	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. <i>Advanced Functional Materials</i> , 2015 , 25, 2899-2909	15.6	30

108	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. <i>Chemistry of Materials</i> , 2015 , 27, 3483-3493	9.6	144
107	Crystal structure and thermoelectric properties of Sr-Mo substituted CaMnO: a combined experimental and computational study. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12245-12259	7.1	29
106	Unravelling structural ambiguities in lithium- and manganese-rich transition metal oxides. <i>Nature Communications</i> , 2015 , 6, 8711	17.4	144
105	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015 , 6, 8563	17.4	764
104	Electronic Structure Modification of Ion Implanted Graphene: The Spectroscopic Signatures of p- and n-Type Doping. <i>ACS Nano</i> , 2015 , 9, 11398-407	16.7	64
103	Tuning Thermoelectric Properties of Misfit Layered Cobaltites by Chemically Induced Strain. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21818-21827	3.8	27
102	Mapping strain modulated electronic structure perturbations in mixed phase bismuth ferrite thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1835-1845	7.1	12
101	Functionalization of graphene at the organic/water interface. <i>Chemical Science</i> , 2015 , 6, 1316-1323	9.4	54
100	Atomic study of Fe ₃ O ₄ /SrTiO ₃ Interface. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1299-1300	0.5	2
99	Atomic-scale insights into 1D and 2D nano-materials. <i>Journal of Physics: Conference Series</i> , 2015 , 644, 012021	0.3	1
98	The roles of Eu during the growth of eutectic Si in Al-Si alloys. <i>Scientific Reports</i> , 2015 , 5, 13802	4.9	25
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