

Quentin Ramasse

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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	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015 , 6, 8563	17.4	764
250	Interface ferromagnetism and orbital reconstruction in BiFeO ₃ -La(0.7)Sr(0.3)MnO ₃ heterostructures. <i>Physical Review Letters</i> , 2010 , 105, 027201	7.4	311
249	Sample preparation for atomic-resolution STEM at low voltages by FIB. <i>Ultramicroscopy</i> , 2012 , 114, 62-71	13.1	245
248	Detection of single atoms and buried defects in three dimensions by aberration-corrected electron microscope with 0.5-Å information limit. <i>Microscopy and Microanalysis</i> , 2008 , 14, 469-77	0.5	241
247	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
246	Atomic-scale edge structures on industrial-style MoS ₂ nanocatalysts. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10153-6	16.4	202
245	Graphene reknits its holes. <i>Nano Letters</i> , 2012 , 12, 3936-40	11.5	195
244	Control of radiation damage in MoS(2) by graphene encapsulation. <i>ACS Nano</i> , 2013 , 7, 10167-74	16.7	187
243	Interface control of bulk ferroelectric polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9710-5	11.5	187
242	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. <i>Advanced Functional Materials</i> , 2017 , 27, 1605785	15.6	172
241	Probing the bonding and electronic structure of single atom dopants in graphene with electron energy loss spectroscopy. <i>Nano Letters</i> , 2013 , 13, 4989-95	11.5	160
240	Metal-graphene interaction studied via atomic resolution scanning transmission electron microscopy. <i>Nano Letters</i> , 2011 , 11, 1087-92	11.5	159
239	Ion implantation of graphene-toward IC compatible technologies. <i>Nano Letters</i> , 2013 , 13, 4902-7	11.5	151
238	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
237	Unravelling structural ambiguities in lithium- and manganese-rich transition metal oxides. <i>Nature Communications</i> , 2015 , 6, 8711	17.4	144
236	Direct experimental evidence of metal-mediated etching of suspended graphene. <i>ACS Nano</i> , 2012 , 6, 4063-71	16.7	134
235	Silicon-carbon bond inversions driven by 60-keV electrons in graphene. <i>Physical Review Letters</i> , 2014 , 113, 115501	7.4	99

234	Visualizing the stoichiometry of industrial-style Co-Mo-S catalysts with single-atom sensitivity. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10723-7	16.4	98
233	High-resolution low-dose scanning transmission electron microscopy. <i>Journal of Electron Microscopy</i> , 2010 , 59, 103-12		95
232	Imaging MoS ₂ nanocatalysts with single-atom sensitivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2708-10	16.4	92
231	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
230	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
229	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. <i>Scientific Reports</i> , 2017 , 7, 45997	4.9	80
228	Nanoscale momentum-resolved vibrational spectroscopy. <i>Science Advances</i> , 2018 , 4, eaar7495	14.3	75
227	Interaction of Metals with Suspended Graphene Observed by Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 953-8	6.4	75
226	Single-atom vibrational spectroscopy in the scanning transmission electron microscope. <i>Science</i> , 2020 , 367, 1124-1127	33.3	73
225	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020 , 11, 57	17.4	72
224	Phonon Spectroscopy at Atomic Resolution. <i>Physical Review Letters</i> , 2019 , 122, 016103	7.4	71
223	Mobile metal adatoms on single layer, bilayer, and trilayer graphene: An ab initio DFT study with van der Waals corrections correlated with electron microscopy data. <i>Physical Review B</i> , 2013 , 87,	3.3	68
222	Single atom identification by energy dispersive x-ray spectroscopy. <i>Applied Physics Letters</i> , 2012 , 100, 154101	3.4	67
221	Delaminated graphene at silicon carbide facets: atomic scale imaging and spectroscopy. <i>ACS Nano</i> , 2013 , 7, 3045-52	16.7	65
220	Polarization screening-induced magnetic phase gradients at complex oxide interfaces. <i>Nature Communications</i> , 2015 , 6, 6735	17.4	64
219	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
218	Probing interfacial electronic structures in atomic layer LaMnO ₃ and SrTiO ₃ superlattices. <i>Advanced Materials</i> , 2010 , 22, 1156-60	24	63
217	Hydrogen encapsulation in a silicon clathrate type I structure: Na _{5.5} (H ₂) _{2.15} Si ₄₆ : synthesis and characterization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13857-62	16.4	61

216	Structure of the (0001) basal twin boundary in Bi ₂ Te ₃ . <i>Journal of Applied Physics</i> , 2010 , 108, 043517	2.5	57
215	Functionalization of graphene at the organic/water interface. <i>Chemical Science</i> , 2015 , 6, 1316-1323	9.4	54
214	Thickness-dependent crossover from charge- to strain-mediated magnetoelectric coupling in ferromagnetic/piezoelectric oxide heterostructures. <i>ACS Nano</i> , 2014 , 8, 894-903	16.7	54
213	Atomically abrupt silicon-germanium axial heterostructure nanowires synthesized in a solvent vapor growth system. <i>Nano Letters</i> , 2013 , 13, 1675-80	11.5	54
212	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
211	Towards atomically precise manipulation of 2D nanostructures in the electron microscope. <i>2D Materials</i> , 2017 , 4, 042004	5.9	52
210	Evolution of gold nanostructures on graphene. <i>Small</i> , 2011 , 7, 2868-72	11	52
209	Direct evidence for cation non-stoichiometry and cottrell atmospheres around dislocation cores in functional oxide interfaces. <i>Advanced Materials</i> , 2010 , 22, 2430-4	24	52
208	Aberration-corrected scanning transmission electron microscopy for atomic-resolution studies of functional oxides. <i>International Materials Reviews</i> , 2014 , 59, 115-131	16.1	51
207	In-situ observation and atomic resolution imaging of the ion irradiation induced amorphisation of graphene. <i>Scientific Reports</i> , 2014 , 4, 6334	4.9	49
206	Tuning the thermoelectric properties of A-site deficient SrTiO ceramics by vacancies and carrier concentration. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26475-26486	3.6	47
205	Subangstrom edge relaxations probed by electron microscopy in hexagonal boron nitride. <i>Physical Review Letters</i> , 2012 , 109, 205502	7.4	44
204	Visualizing atomic-scale redox dynamics in vanadium oxide-based catalysts. <i>Nature Communications</i> , 2017 , 8, 305	17.4	42
203	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
202	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
201	Universal geometric frustration in pyrochlores. <i>Nature Communications</i> , 2018 , 9, 2619	17.4	41
200	Direct observation of quantum confinement of Si nanocrystals in Si-rich nitrides. <i>Physical Review B</i> , 2012 , 85,	3.3	39
199	The legacy of crystal-plastic deformation in olivine: high-diffusivity pathways during serpentinization. <i>Contributions To Mineralogy and Petrology</i> , 2012 , 163, 701-724	3.5	39

198	Local stabilisation of polar order at charged antiphase boundaries in antiferroelectric (Bi _{0.85} Nd _{0.15})(Ti _{0.1} Fe _{0.9})O ₃ . <i>APL Materials</i> , 2013 , 1, 021102	5.7	39
197	Atomically resolved imaging of highly ordered alternating fluorinated graphene. <i>Nature Communications</i> , 2014 , 5, 4902	17.4	37
196	Electronic Properties and Chemical Reactivity of TiS ₂ Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15707-15715	3.8	37
195	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
194	Anomalous Electrical Conductivity of Nanosheaves of CeO ₂ . <i>Chemistry of Materials</i> , 2009 , 21, 1182-1186	9.6	35
193	Nanoanalytical Electron Microscopy Reveals a Sequential Mineralization Process Involving Carbonate-Containing Amorphous Precursors. <i>ACS Nano</i> , 2016 , 10, 6826-35	16.7	34
192	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
191	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
190	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFeMnO ₃ . <i>Advanced Functional Materials</i> , 2014 , 24, 7478-7487	15.6	33
189	Factors that determine and limit the resistivity of high-quality individual ZnO nanowires. <i>Nanotechnology</i> , 2013 , 24, 435706	3.4	32
188	Controlling the Electrical Transport Properties of Nanocontacts to Nanowires. <i>Nano Letters</i> , 2015 , 15, 4248-54	11.5	32
187	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
186	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. <i>Advanced Functional Materials</i> , 2015 , 25, 2899-2909	15.6	30
185	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
184	Direct imaging of dopant clustering in metal-oxide nanoparticles. <i>ACS Nano</i> , 2012 , 6, 7077-83	16.7	30
183	Polarity-driven nickel oxide precipitation in LaNiO ₃ -LaAlO ₃ superlattices. <i>Applied Physics Letters</i> , 2011 , 99, 211903	3.4	30
182	Managing dose-, damage- and data-rates in multi-frame spectrum-imaging. <i>Microscopy (Oxford, England)</i> , 2018 , 67, i98-i113	1.3	30
181	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

180	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
179	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
178	Misfit strain driven cation inter-diffusion across an epitaxial multiferroic thin film interface. <i>Journal of Applied Physics</i> , 2014 , 115, 054103	2.5	28
177	Ruddlesden-Popper faults in LaNiO ₃ /LaAlO ₃ superlattices. <i>Journal of Applied Physics</i> , 2012 , 112, 013509	2.5	28
176	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
175	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
174	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	8.5	26
173	Novel Nanorod Precipitate Formation in Neodymium and Titanium Codoped Bismuth Ferrite. <i>Advanced Functional Materials</i> , 2013 , 23, 683-689	15.6	26
172	The roles of Eu during the growth of eutectic Si in Al-Si alloys. <i>Scientific Reports</i> , 2015 , 5, 13802	4.9	25
171	Atomic-Scale Edge Structures on Industrial-Style MoS ₂ Nanocatalysts. <i>Angewandte Chemie</i> , 2011 , 123, 10335-10338	3.6	25
170	Synthesis and characterization of K(8-x)(H ₂)ySi ₄₆ . <i>Inorganic Chemistry</i> , 2010 , 49, 815-22	5.1	25
169	Interface-Induced Polarization in SrTiO ₃ -LaCrO ₃ Superlattices. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500779	4.6	24
168	Fluid-induced organic synthesis in the solar nebula recorded in extraterrestrial dust from meteorites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15338-43	11.5	24
167	Atomic-resolution electron energy loss studies of precipitates in an AlMgSiCuAg alloy. <i>Scripta Materialia</i> , 2014 , 74, 92-95	5.6	24
166	Presence and spatial distribution of interfacial electronic states in LaMnO ₃ -SrMnO ₃ superlattices. <i>Physical Review B</i> , 2010 , 82,	3.3	24
165	Atomic-resolution imaging of the nanoscale origin of toughness in rare-earth doped SiC. <i>Nano Letters</i> , 2008 , 8, 2935-9	11.5	24
164	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
163	Impact of oxygen bonding on the atomic structure and photoluminescence properties of Si-rich silicon nitride thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 073514	2.5	22

162	Anomalous diffusion of single metal atoms on a graphene oxide support. <i>Chemical Physics Letters</i> , 2017 , 683, 370-374	2.5	21
161	Local Plasmon Engineering in Doped Graphene. <i>ACS Nano</i> , 2018 , 12, 1837-1848	16.7	21
160	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
159	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
158	On the Origin of Nanochessboard Superlattices in A-Site-Deficient Ca-Stabilized Nd ₂ /3TiO ₃ . <i>Chemistry of Materials</i> , 2015 , 27, 497-507	9.6	21
157	Diagnosis of aberrations from crystalline samples in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2005 , 106, 37-56	3.1	21
156	Atomic scale high-angle annular dark field STEM analysis of the N configuration in dilute nitrides of GaAs. <i>Physical Review B</i> , 2009 , 80,	3.3	20
155	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
154	Chemically ordered decahedral FePt nanocrystals observed by electron microscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	18
153	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
152	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
151	Probing the Origin of Interfacial Carriers in SrTiO ₃ /LaCrO ₃ Superlattices. <i>Chemistry of Materials</i> , 2017 , 29, 1147-1155	9.6	17
150	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. <i>Nano Letters</i> , 2020 , 20, 1272-1279	11.5	17
149	The atomic structure and chemistry of Fe-rich steps on antiphase boundaries in Ti-doped Bi _{0.9} Nd _{0.15} FeO ₃ . <i>APL Materials</i> , 2014 , 2, 066106	5.7	17
148	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
147	Element-specific depth profile of magnetism and stoichiometry at the La _{0.67} Sr _{0.33} MnO ₃ /BiFeO ₃ interface. <i>Physical Review B</i> , 2014 , 90,	3.3	16
146	Direct measurement of Co-ion spin state transitions in Ca ₃ Co ₄ O ₉ using variable-temperature electron energy-loss spectroscopy. <i>Applied Physics Letters</i> , 2009 , 94, 093112	3.4	16
145	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

144	Visualizing surface plasmons with photons, photoelectrons, and electrons. <i>Analyst, The</i> , 2016 , 141, 3562-72	16
143	Atomic-Resolution Spectrum Imaging of Semiconductor Nanowires. <i>Nano Letters</i> , 2018 , 18, 1557-1563	11.5 16
142	Theory of momentum-resolved phonon spectroscopy in the electron microscope. <i>Physical Review B</i> , 2019 , 99,	3.3 15
141	Realisation of magnetically and atomically abrupt half-metal/semiconductor interface: CoFeSiAl/Ge(111). <i>Scientific Reports</i> , 2016 , 6, 37282	4.9 15
140	Correlative characterization on microstructure evolution of Ni-based K403 alloy during thermal exposure. <i>Acta Materialia</i> , 2017 , 131, 169-186	8.4 14
139	Heterogeneous nucleation of Al on AlB ₂ in Al-7Si alloy. <i>Materials Characterization</i> , 2017 , 128, 7-13	3.9 14
138	Ba ₆ Bi _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
137	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
136	Interfacial Charge Transfer and Chemical Bonding in a Ni ₃ LaNbO ₄ Cermet for Proton-Conducting Solid-Oxide Fuel Cell Anodes. <i>Chemistry of Materials</i> , 2012 , 24, 4152-4159	9.6 14
135	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
134	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
133	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
132	Quantifying the low-energy limit and spectral resolution in valence electron energy loss spectroscopy. <i>Ultramicroscopy</i> , 2013 , 124, 130-8	3.1 13
131	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
130	A facile electrochemical route to the preparation of uniform and monoatomic copper shells for gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5565-8	3.6 13
129	Direct imaging and chemical analysis of unstained DNA origami performed with a transmission electron microscope. <i>Chemical Communications</i> , 2011 , 47, 9375-7	5.8 13
128	Chemistry of Ruddlesden-Popper planar faults at a ferroelectric/ferromagnet perovskite interface. <i>Journal of Applied Physics</i> , 2011 , 109, 084101	2.5 13
127	Application of two-dimensional crystallography and image processing to atomic resolution Z-contrast images. <i>Journal of Electron Microscopy</i> , 2009 , 58, 223-44	13

126	Practical spatial resolution of electron energy loss spectroscopy in aberration corrected scanning transmission electron microscopy. <i>Micron</i> , 2011 , 42, 539-46	2.3	13
125	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
124	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
123	Electron Energy Loss Spectroscopy of Bright and Dark Modes in Hyperbolic Metamaterial Nanostructures. <i>Advanced Optical Materials</i> , 2020 , 8, 2000277	8.1	12
122	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
121	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
120	Quantum confinement of volume plasmons and interband transitions in germanium nanocrystals. <i>Physical Review B</i> , 2012 , 86,	3.3	12
119	Topologically induced confinement of collective modes in multilayer graphene nanocones measured by momentum-resolved STEM-VEELS. <i>Physical Review B</i> , 2013 , 88,	3.3	12
118	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
117	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
116	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
115	Experimental and density functional study of Mn doped Bi ₂ Te ₃ topological insulator. <i>APL Materials</i> , 2016 , 4, 126103	5.7	12
114	Observation of complete inversion of the hysteresis loop in a bimodal magnetic thin film. <i>Physical Review B</i> , 2017 , 95,	3.3	11
113	Atomic and electronic structure of twin growth defects in magnetite. <i>Scientific Reports</i> , 2016 , 6, 20943	4.9	11
112	Epitaxial growth and enhanced conductivity of an IT-SOFC cathode based on a complex perovskite superstructure with six distinct cation sites. <i>Chemical Science</i> , 2013 , 4, 2403	9.4	11
111	Microstructural analysis of interfaces in a ferromagnetic-multiferroic epitaxial heterostructure. <i>Journal of Applied Physics</i> , 2011 , 109, 034103	2.5	11
110	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
109	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

108	Bilayer graphene formed by passage of current through graphite: evidence for a three-dimensional structure. <i>Nanotechnology</i> , 2014 , 25, 465601	3.4	10
107	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
106	Diffusion in yttrium aluminium garnet at the nanometer-scale: Insight into the effective grain boundary width. <i>American Mineralogist</i> , 2011 , 96, 1521-1529	2.9	10
105	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
104	Characterization of Ordering in A-Site Deficient Perovskite CaLaTiO Using STEM/EELS. <i>Inorganic Chemistry</i> , 2016 , 55, 9937-9948	5.1	9
103	Visualizing the Stoichiometry of Industrial-Style Co-Mo-S Catalysts with Single-Atom Sensitivity. <i>Angewandte Chemie</i> , 2014 , 126, 10899-10903	3.6	9
102	Gentle STEM of Single Atoms: Low keV Imaging and Analysis at Ultimate Detection Limits	119-161	9
101	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
100	The information content in single-molecule Raman nanoscopy. <i>Advances in Physics: X</i> , 2016 , 1, 35-54	5.1	8
99	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
98	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
97	Observation of compositional domains within individual copper indium sulfide quantum dots. <i>Nanoscale</i> , 2016 , 8, 16157-61	7.7	8
96	Exfoliation of Alpha-Germanium: A Covalent Diamond-Like Structure. <i>Advanced Materials</i> , 2021 , 33, e2006826	11.1	8
95	High-resolution monochromated electron energy-loss spectroscopy of organic photovoltaic materials. <i>Ultramicroscopy</i> , 2017 , 180, 125-132	3.1	7
94	Prospects for Engineering Thermoelectric Properties in LaNbO Ceramics Revealed via Atomic-Level Characterization and Modeling. <i>Inorganic Chemistry</i> , 2018 , 57, 45-55	5.1	7
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