Quentin Ramasse

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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. *Nature Communications*, **2015**, 6, 8563	17.4	764
250	Interface ferromagnetism and orbital reconstruction in BiFeO3-La(0.7)Sr(0.3)MnO3 heterostructures. *Physical Review Letters*, **2010**, 105, 027201	7.4	311
249	Sample preparation for atomic-resolution STEM at low voltages by FIB. *Ultramicroscopy*, **2012**, 114, 62-71	3.1	245
248	Detection of single atoms and buried defects in three dimensions by aberration-corrected electron microscope with 0.5-A information limit. *Microscopy and Microanalysis*, **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. *ACS Catalysis*, **2016**, 6, 3442-3451	13.1	205
246	Atomic-scale edge structures on industrial-style MoS2 nanocatalysts. *Angewandte Chemie - International Edition*, **2011**, 50, 10153-6	16.4	202
245	Graphene reknits its holes. *Nano Letters*, **2012**, 12, 3936-40	11.5	195
244	Control of radiation damage in MoS(2) by graphene encapsulation. *ACS Nano*, **2013**, 7, 10167-74	16.7	187
243	Interface control of bulk ferroelectric polarization. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9710-5	11.5	187
242	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. *Advanced Functional Materials*, **2017**, 27, 1605785	15.6	172
241	Probing the bonding and electronic structure of single atom dopants in graphene with electron energy loss spectroscopy. *Nano Letters*, **2013**, 13, 4989-95	11.5	160
240	Metal-graphene interaction studied via atomic resolution scanning transmission electron microscopy. *Nano Letters*, **2011**, 11, 1087-92	11.5	159
239	Ion implantation of graphene-toward IC compatible technologies. *Nano Letters*, **2013**, 13, 4902-7	11.5	151
238	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. *Chemistry of Materials*, **2015**, 27, 3483-3493	9.6	144
237	Unravelling structural ambiguities in lithium- and manganese-rich transition metal oxides. *Nature Communications*, **2015**, 6, 8711	17.4	144
236	Direct experimental evidence of metal-mediated etching of suspended graphene. *ACS Nano*, **2012**, 6, 4063-71	16.7	134
235	Silicon-carbon bond inversions driven by 60-keV electrons in graphene. *Physical Review Letters*, **2014**, 113, 115501	7.4	99

234	Visualizing the stoichiometry of industrial-style Co-Mo-S catalysts with single-atom sensitivity. *Angewandte Chemie - International Edition*, **2014**, 53, 10723-7	16.4	98
233	High-resolution low-dose scanning transmission electron microscopy. *Journal of Electron Microscopy*, **2010**, 59, 103-12		95
232	Imaging MoS2 nanocatalysts with single-atom sensitivity. *Angewandte Chemie - International Edition* , **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. *Journal of Membrane Science*, **2016**, 520, 465-476	9.6	86
230	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge(1-x)Sn(x) nanowires. *Nature Communications*, **2016**, 7, 11405	17.4	84
229	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. *Scientific Reports*, **2017**, 7, 45997	4.9	80
228	Nanoscale momentum-resolved vibrational spectroscopy. *Science Advances*, **2018**, 4, eaar7495	14.3	75
227	Interaction of Metals with Suspended Graphene Observed by Transmission Electron Microscopy. *Journal of Physical Chemistry Letters*, **2012**, 3, 953-8	6.4	75
226	Single-atom vibrational spectroscopy in the scanning transmission electron microscope. *Science*, **2020**, 367, 1124-1127	33.3	73
225	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. *Nature Communications*, **2020**, 11, 57	17.4	72
224	Phonon Spectroscopy at Atomic Resolution. *Physical Review Letters*, **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. *Physical Review B*, **2013**, 87,	3.3	68
222	Single atom identification by energy dispersive x-ray spectroscopy. *Applied Physics Letters*, **2012**, 100, 154101	3.4	67
221	Delaminated graphene at silicon carbide facets: atomic scale imaging and spectroscopy. *ACS Nano*, **2013**, 7, 3045-52	16.7	65
220	Polarization screening-induced magnetic phase gradients at complex oxide interfaces. *Nature Communications*, **2015**, 6, 6735	17.4	64
219	Electronic Structure Modification of Ion Implanted Graphene: The Spectroscopic Signatures of p- and n-Type Doping. *ACS Nano*, **2015**, 9, 11398-407	16.7	64
218	Probing interfacial electronic structures in atomic layer LaMnO(3) and SrTiO(3) superlattices. *Advanced Materials*, **2010**, 22, 1156-60	24	63
217	Hydrogen encapsulation in a silicon clathrate type I structure: Na5.5(H2)2.15Si46: synthesis and characterization. *Journal of the American Chemical Society*, **2007**, 129, 13857-62	16.4	61

216	Structure of the (0001) basal twin boundary in Bi2Te3. *Journal of Applied Physics*, **2010**, 108, 043517	2.5	57
215	Functionalization of graphene at the organic/water interface. *Chemical Science*, **2015**, 6, 1316-1323	9.4	54
214	Thickness-dependent crossover from charge- to strain-mediated magnetoelectric coupling in ferromagnetic/piezoelectric oxide heterostructures. *ACS Nano*, **2014**, 8, 894-903	16.7	54
213	Atomically abrupt silicon-germanium axial heterostructure nanowires synthesized in a solvent vapor growth system. *Nano Letters*, **2013**, 13, 1675-80	11.5	54
212	Single-Atom Scale Structural Selectivity in Te Nanowires Encapsulated Inside Ultranarrow, Single-Walled Carbon Nanotubes. *ACS Nano*, **2017**, 11, 6178-6185	16.7	52
211	Towards atomically precise manipulation of 2D nanostructures in the electron microscope. *2D Materials*, **2017**, 4, 042004	5.9	52
210	Evolution of gold nanostructures on graphene. *Small*, **2011**, 7, 2868-72	11	52
209	Direct evidence for cation non-stoichiometry and cottrell atmospheres around dislocation cores in functional oxide interfaces. *Advanced Materials*, **2010**, 22, 2430-4	24	52
208	Aberration-corrected scanning transmission electron microscopy for atomic-resolution studies of functional oxides. *International Materials Reviews*, **2014**, 59, 115-131	16.1	51
207	In-situ observation and atomic resolution imaging of the ion irradiation induced amorphisation of graphene. *Scientific Reports*, **2014**, 4, 6334	4.9	49
206	Tuning the thermoelectric properties of A-site deficient SrTiO ceramics by vacancies and carrier concentration. *Physical Chemistry Chemical Physics*, **2016**, 18, 26475-26486	3.6	47
205	Subangstrom edge relaxations probed by electron microscopy in hexagonal boron nitride. *Physical Review Letters*, **2012**, 109, 205502	7.4	44
204	Visualizing atomic-scale redox dynamics in vanadium oxide-based catalysts. *Nature Communications* , **2017**, 8, 305	17.4	42
203	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se2 thin films for solar cells – a review. *Physica Status Solidi - Rapid Research Letters*, **2016**, 10, 363-375	2.5	42
202	Probing the local nature of excitons and plasmons in few-layer MoS2. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	41
201	Universal geometric frustration in pyrochlores. *Nature Communications*, **2018**, 9, 2619	17.4	41
200	Direct observation of quantum confinement of Si nanocrystals in Si-rich nitrides. *Physical Review B*, **2012**, 85,	3.3	39
199	The legacy of crystal-plastic deformation in olivine: high-diffusivity pathways during serpentinization. *Contributions To Mineralogy and Petrology*, **2012**, 163, 701-724	3.5	39

198	Local stabilisation of polar order at charged antiphase boundaries in antiferroelectric (Bi0.85Nd0.15)(Ti0.1Fe0.9)O3. *APL Materials*, **2013**, 1, 021102	5.7	39
197	Atomically resolved imaging of highly ordered alternating fluorinated graphene. *Nature Communications*, **2014**, 5, 4902	17.4	37
196	Electronic Properties and Chemical Reactivity of TiS2 Nanoflakes. *Journal of Physical Chemistry C*, **2015**, 119, 15707-15715	3.8	37
195	Transmission Electron Microscopy Reveals Deposition of Metal Oxide Coatings onto Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2018**, 140, 1348-1357	16.4	36
194	Anomalous Electrical Conductivity of Nanosheaves of CeO2. *Chemistry of Materials*, **2009**, 21, 1182-1186	9.6	35
193	Nanoanalytical Electron Microscopy Reveals a Sequential Mineralization Process Involving Carbonate-Containing Amorphous Precursors. *ACS Nano*, **2016**, 10, 6826-35	16.7	34
192	Self-Nanostructuring in SrTiO: A Novel Strategy for Enhancement of Thermoelectric Response in Oxides. *ACS Applied Materials & Interfaces*, **2019**, 11, 32833-32843	9.5	34
191	The structural conversion from AgVO to AgVO: Ag nanoparticle decorated nanowires with application as cathode materials for Li-ion batteries. *Nanoscale*, **2016**, 8, 16266-16275	7.7	33
190	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFeMnO. *Advanced Functional Materials*, **2014**, 24, 7478-7487	15.6	33
189	Factors that determine and limit the resistivity of high-quality individual ZnO nanowires. *Nanotechnology*, **2013**, 24, 435706	3.4	32
188	Controlling the Electrical Transport Properties of Nanocontacts to Nanowires. *Nano Letters*, **2015**, 15, 4248-54	11.5	32
187	Annihilation of structural defects in chalcogenide absorber films for high-efficiency solar cells. *Energy and Environmental Science*, **2016**, 9, 1818-1827	35.4	32
186	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. *Advanced Functional Materials*, **2015**, 25, 2899-2909	15.6	30
185	Effect of composition on the structure of lithium- and manganese-rich transition metal oxides. *Energy and Environmental Science*, **2018**, 11, 830-840	35.4	30
184	Direct imaging of dopant clustering in metal-oxide nanoparticles. *ACS Nano*, **2012**, 6, 7077-83	16.7	30
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182	Managing dose-, damage- and data-rates in multi-frame spectrum-imaging. *Microscopy (Oxford, England)*, **2018**, 67, i98-i113	1.3	30
181	Location of Co and Ni promoter atoms in multi-layer MoS2 nanocrystals for hydrotreating catalysis. *Catalysis Today*, **2016**, 261, 75-81	5.3	29

180	Crystal structure and thermoelectric properties of Sr-Mo substituted CaMnO: a combined experimental and computational study. *Journal of Materials Chemistry C*, **2015**, 3, 12245-12259	7.1	29
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178	Misfit strain driven cation inter-diffusion across an epitaxial multiferroic thin film interface. *Journal of Applied Physics*, **2014**, 115, 054103	2.5	28
177	Ruddlesden-Popper faults in LaNiO3/LaAlO3 superlattices. *Journal of Applied Physics*, **2012**, 112, 013509	2.5	28
176	Electronic Structure Control of Sub-nanometer 1D SnTe via Nanostructuring within Single-Walled Carbon Nanotubes. *ACS Nano*, **2018**, 12, 6023-6031	16.7	28
175	Tuning Thermoelectric Properties of Misfit Layered Cobaltites by Chemically Induced Strain. *Journal of Physical Chemistry C*, **2015**, 119, 21818-21827	3.8	27
174	Concurrent La and A-Site Vacancy Doping Modulates the Thermoelectric Response of SrTiO: Experimental and Computational Evidence. *ACS Applied Materials & Interfaces*, **2017**, 9, 41988-42000	9.5	26
173	Novel Nanorod Precipitate Formation in Neodymium and Titanium Codoped Bismuth Ferrite. *Advanced Functional Materials*, **2013**, 23, 683-689	15.6	26
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171	Atomic-Scale Edge Structures on Industrial-Style MoS2 Nanocatalysts. *Angewandte Chemie*, **2011**, 123, 10335-10338	3.6	25
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168	Fluid-induced organic synthesis in the solar nebula recorded in extraterrestrial dust from meteorites. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15338-43	11.5	24
167	Atomic-resolution electron energy loss studies of precipitates in an Al-Mg-Si-Cu-Ag alloy. *Scripta Materialia*, **2014**, 74, 92-95	5.6	24
166	Presence and spatial distribution of interfacial electronic states in LaMnO3-SrMnO3 superlattices. *Physical Review B*, **2010**, 82,	3.3	24
165	Atomic-resolution imaging of the nanoscale origin of toughness in rare-earth doped SiC. *Nano Letters*, **2008**, 8, 2935-9	11.5	24
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162	Anomalous diffusion of single metal atoms on a graphene oxide support. *Chemical Physics Letters*, **2017**, 683, 370-374	2.5	21
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160	Revealing heterogeneous nucleation of primary Si and eutectic Si by AlP in hypereutectic Al-Si alloys. *Scientific Reports*, **2016**, 6, 25244	4.9	21
159	Solvent Vapor Growth of Axial Heterostructure Nanowires with Multiple Alternating Segments of Silicon and Germanium. *Nano Letters*, **2016**, 16, 374-80	11.5	21
158	On the Origin of Nanochessboard Superlattices in A-Site-Deficient Ca-Stabilized Nd2/3TiO3. *Chemistry of Materials*, **2015**, 27, 497-507	9.6	21
157	Diagnosis of aberrations from crystalline samples in scanning transmission electron microscopy. *Ultramicroscopy*, **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. *Physical Review B*, **2009**, 80,	3.3	20
155	Ion-beam modification of 2-D materials - single implant atom analysis via annular dark-field electron microscopy. *Ultramicroscopy*, **2017**, 176, 31-36	3.1	19
154	Chemically ordered decahedral FePt nanocrystals observed by electron microscopy. *Physical Review B*, **2014**, 89,	3.3	18
153	Long Cycle Life, Highly Ordered SnO2/GeO2 Nanocomposite Inverse Opal Anode Materials for Li-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 2005073	15.6	18
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151	Probing the Origin of Interfacial Carriers in SrTiO3LaCrO3 Superlattices. *Chemistry of Materials*, **2017**, 29, 1147-1155	9.6	17
150	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. *Nano Letters*, **2020**, 20, 1272-1279	11.5	17
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148	Twenty years after: How "Aberration correction in the STEM" truly placed a "A synchrotron in a Microscope". *Ultramicroscopy*, **2017**, 180, 41-51	3.1	16
147	Element-specific depth profile of magnetism and stoichiometry at the La0.67Sr0.33MnO3/BiFeO3 interface. *Physical Review B*, **2014**, 90,	3.3	16
146	Direct measurement of Co-ion spin state transitions in Ca3Co4O9 using variable-temperature electron energy-loss spectroscopy. *Applied Physics Letters*, **2009**, 94, 093112	3.4	16
145	Van der Waals epitaxy between the highly lattice mismatched Cu-doped FeSe and Bi2Te3. *NPG Asia Materials*, **2017**, 9, e402-e402	10.3	16

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143	Atomic-Resolution Spectrum Imaging of Semiconductor Nanowires. *Nano Letters*, **2018**, 18, 1557-1563	11.5	16
142	Theory of momentum-resolved phonon spectroscopy in the electron microscope. *Physical Review B*, **2019**, 99,	3.3	15
141	Realisation of magnetically and atomically abrupt half-metal/semiconductor interface: CoFeSiAl/Ge(111). *Scientific Reports*, **2016**, 6, 37282	4.9	15
140	Correlative characterization on microstructure evolution of Ni-based K403 alloy during thermal exposure. *Acta Materialia*, **2017**, 131, 169-186	8.4	14
139	Heterogeneous nucleation of Al on AlB2 in Al-7Si alloy. *Materials Characterization*, **2017**, 128, 7-13	3.9	14
138	Ba6□x Nd8+2x Ti18O54 Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. *Journal of Electronic Materials*, **2016**, 45, 1894-1899	1.9	14
137	Influence of growth kinetics on Sn incorporation in direct band gap Ge1□xSnx nanowires. *Journal of Materials Chemistry C*, **2018**, 6, 8738-8750	7.1	14
136	Interfacial Charge Transfer and Chemical Bonding in a Ni□aNbO4 Cermet for Proton-Conducting Solid-Oxide Fuel Cell Anodes. *Chemistry of Materials*, **2012**, 24, 4152-4159	9.6	14
135	Band gap widening at random CIGS grain boundary detected by valence electron energy loss spectroscopy. *Applied Physics Letters*, **2016**, 109, 153103	3.4	14
134	Subwavelength Spatially Resolved Coordination Chemistry of Metal-Organic Framework Glass Blends. *Journal of the American Chemical Society*, **2018**, 140, 17862-17866	16.4	14
133	Carbon-metal interfaces analyzed by aberration-corrected TEM: how copper and nickel nanoparticles interact with MWCNTs. *Micron*, **2015**, 72, 52-8	2.3	13
132	Quantifying the low-energy limit and spectral resolution in valence electron energy loss spectroscopy. *Ultramicroscopy*, **2013**, 124, 130-8	3.1	13
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129	Direct imaging and chemical analysis of unstained DNA origami performed with a transmission electron microscope. *Chemical Communications*, **2011**, 47, 9375-7	5.8	13
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127	Application of two-dimensional crystallography and image processing to atomic resolution Z-contrast images. *Journal of Electron Microscopy*, **2009**, 58, 223-44		13

126	Practical spatial resolution of electron energy loss spectroscopy in aberration corrected scanning transmission electron microscopy. *Micron*, **2011**, 42, 539-46	2.3	13
125	Tents, Chairs, Tacos, Kites, and Rods: Shapes and Plasmonic Properties of Singly Twinned Magnesium Nanoparticles. *ACS Nano*, **2020**, 14, 5968-5980	16.7	13
124	Mapping strain modulated electronic structure perturbations in mixed phase bismuth ferrite thin films. *Journal of Materials Chemistry C*, **2015**, 3, 1835-1845	7.1	12
123	Electron Energy Loss Spectroscopy of Bright and Dark Modes in Hyperbolic Metamaterial Nanostructures. *Advanced Optical Materials*, **2020**, 8, 2000277	8.1	12
122	Local A-Site Layering in Rare-Earth Orthochromite Perovskites by Solution Synthesis. *Chemistry - A European Journal*, **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. *Inorganic Chemistry*, **2016**, 55, 3338-50	5.1	12
120	Quantum confinement of volume plasmons and interband transitions in germanium nanocrystals. *Physical Review B*, **2012**, 86,	3.3	12
119	Topologically induced confinement of collective modes in multilayer graphene nanocones measured by momentum-resolved STEM-VEELS. *Physical Review B*, **2013**, 88,	3.3	12
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116	The role of chemical structure on the magnetic and electronic properties of Co2FeAl0.5Si0.5/Si(111) interface. *Applied Physics Letters*, **2016**, 108, 172412	3.4	12
115	Experimental and density functional study of Mn doped Bi2Te3 topological insulator. *APL Materials*, **2016**, 4, 126103	5.7	12
114	Observation of complete inversion of the hysteresis loop in a bimodal magnetic thin film. *Physical Review B*, **2017**, 95,	3.3	11
113	Atomic and electronic structure of twin growth defects in magnetite. *Scientific Reports*, **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. *Chemical Science*, **2013**, 4, 2403	9.4	11
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110	Isotopic compositions, nitrogen functional chemistry, and low-loss electron spectroscopy of complex organic aggregates at the nanometer scale in the carbonaceous chondrite Renazzo. *Meteoritics and Planetary Science*, **2020**, 55, 1293-1319	2.8	11
109	Optical Properties and Dielectric Functions of Grain Boundaries and Interfaces in CdTe Thin-Film Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 1419-1427	6.1	10

108	Bilayer graphene formed by passage of current through graphite: evidence for a three-dimensional structure. *Nanotechnology*, **2014**, 25, 465601	3.4	10
107	Evidence for Cu2⊠Se platelets at grain boundaries and within grains in Cu(In,Ga)Se2 thin films. *Applied Physics Letters*, **2017**, 111, 032103	3.4	10
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104	Characterization of Ordering in A-Site Deficient Perovskite CaLaTiO Using STEM/EELS. *Inorganic Chemistry*, **2016**, 55, 9937-9948	5.1	9
103	Visualizing the Stoichiometry of Industrial-Style Co-Mo-S Catalysts with Single-Atom Sensitivity. *Angewandte Chemie*, **2014**, 126, 10899-10903	3.6	9
102	Gentle STEM of Single Atoms: Low keV Imaging and Analysis at Ultimate Detection Limits119-161		9
101	Modifying the Interface Edge to Control the Electrical Transport Properties of Nanocontacts to Nanowires. *Nano Letters*, **2017**, 17, 687-694	11.5	8
100	The information content in single-molecule Raman nanoscopy. *Advances in Physics: X*, **2016**, 1, 35-54	5.1	8
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98	Study of Structure of Li- and Mn-rich Transition Metal Oxides Using 4D-STEM. *Microscopy and Microanalysis*, **2016**, 22, 494-495	0.5	8
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96	Exfoliation of Alpha-Germanium: A Covalent Diamond-Like Structure. *Advanced Materials*, **2021**, 33, e2006826	26	8
95	High-resolution monochromated electron energy-loss spectroscopy of organic photovoltaic materials. *Ultramicroscopy*, **2017**, 180, 125-132	3.1	7
94	Prospects for Engineering Thermoelectric Properties in LaNbO Ceramics Revealed via Atomic-Level Characterization and Modeling. *Inorganic Chemistry*, **2018**, 57, 45-55	5.1	7
93	Effect of annealing on the structure and magnetic properties of Co2FeAl0.5Si0.5 thin films on Ge(111). *Journal of Alloys and Compounds*, **2018**, 748, 323-327	5.7	7
92	Self-Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. *Advanced Functional Materials*, **2019**, 29, 1903120	15.6	7
91	Electron Microscopy Reveals Structural and Chemical Changes at the Nanometer Scale in the Pathology. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2788-2797	5.5	7

90	Stabilisation of Fe2O3-rich Perovskite Nanophase in Epitaxial Rare-earth Doped BiFeO3 Films. *Scientific Reports*, **2015**, 5, 13066	4.9	7
89	Bond Dissociation and Reactivity of HF and HO in a Nano Test Tube. *ACS Nano*, **2020**, 14, 11178-11189	16.7	7
88	Polar Spinel-Perovskite Interfaces: an atomistic study of Fe3O4(111)/SrTiO3(111) structure and functionality. *Scientific Reports*, **2016**, 6, 29724	4.9	7
87	Practical Implementation of Compressive Sensing for High Resolution STEM. *Microscopy and Microanalysis*, **2016**, 22, 558-559	0.5	7
86	Atomic-Scale Spectroscopic Imaging of the Extreme-UV Optical Response of B- and N-Doped Graphene. *Advanced Functional Materials*, **2019**, 29, 1901819	15.6	6
85	Atomic-Scale Study of Metal□Oxide Interfaces and Magnetoelastic Coupling in Self-Assembled Epitaxial Vertically Aligned Magnetic Nanocomposites. *Advanced Materials Interfaces*, **2019**, 6, 1900549	4.6	6
84	Direct Quantification of Cu Vacancies and Spatial Localization of Surface Plasmon Resonances in Copper Phosphide Nanocrystals **2019**, 1, 665-670		6
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82	Mapping grain boundary heterogeneity at the nanoscale in a positive temperature coefficient of resistivity ceramic. *APL Materials*, **2017**, 5, 066105	5.7	6
81	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 19890-19902	9.5	6
80	Stability of Schottky and Ohmic Au Nanocatalysts to ZnO Nanowires. *Nano Letters*, **2017**, 17, 6626-6636	11.5	5
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