

Quentin Ramasse

List of Publications by Year in descending order

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245
papers

10,334
citations

36303

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42399

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all docs

262
docs citations

262
times ranked

15754
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Image Analysis for Single-Atom Detection in Catalytic Materials by Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 8018-8029.	13.7	33
2	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.	7.8	12
3	Low-energy Se ion implantation in MoS ₂ monolayers. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	11
4	Elucidation of Metal Local Environments in Single-Atom Catalysts Based on Carbon Nitrides. <i>Small</i> , 2022, 18, .	10.0	15
5	Sub-nanometer mapping of strain-induced band structure variations in planar nanowire core-shell heterostructures. <i>Nature Communications</i> , 2022, 13, .	12.8	10
6	Spatial distribution of metallic heteroatoms in soot nanostructure mapped by aberration-corrected STEM-EELS. <i>Carbon</i> , 2021, 173, 953-967.	10.3	7
7	Enhanced Spin-Orbit Coupling in Heavy Metals via Molecular Coupling. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5228-5234.	8.0	10
8	Modification of the van der Waals interaction at the Bi and Ge(111) interface. <i>Physical Review Materials</i> , 2021, 5, .	24	4
9	Exfoliation of Alpha-Germanium: A Covalent Diamond-Like Structure. <i>Advanced Materials</i> , 2021, 33, e2006826.	21.0	27
10	Removal of core hole distortion from ionization edges in electron energy loss spectroscopy. <i>Physical Review B</i> , 2021, 103, .	3.2	4
11	Role of SnO ₂ in the Bifunctional Mechanism of CO Oxidation at Pt-SnO ₂ Electrocatalysts. <i>ChemElectroChem</i> , 2021, 8, 2572-2582.	3.4	5
12	Atomic-Scale Vibrational and Electronic Response of Interfaces in Heterostructures for Spintronics Applications. <i>Microscopy and Microanalysis</i> , 2021, 27, 104-105.	0.4	0
13	Nanoscale functional chemistry and opto-electronic response of organic materials. <i>Microscopy and Microanalysis</i> , 2021, 27, 3062-3064.	0.4	0
14	The Advantage of Nanowire Configuration in Band Structure Determination. <i>Advanced Functional Materials</i> , 2021, 31, 2105426.	14.9	4
15	Linear and Helical Cesium Iodide Atomic Chains in Ultranarrow Single-Walled Carbon Nanotubes: Impact on Optical Properties. <i>ACS Nano</i> , 2021, 15, 13389-13398.	14.6	20
16	Unraveling electronic band structure of narrow-bandgap π -n nanojunctions in heterostructured nanowires. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25019-25023.	2.8	6
17	The Advantage of Nanowire Configuration in Band Structure Determination (<i>Adv. Funct. Mater.</i>)	14.9	0
18	Tuning band alignment at a semiconductor-crystalline oxide heterojunction via electrostatic modulation of the interfacial dipole. <i>Physical Review Materials</i> , 2021, 5, .	2.4	12

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19	Controlling the Thermoelectric Properties of Nb-Doped TiO ₂ Ceramics through Engineering Defect Structures. ACS Applied Materials & Interfaces, 2021, 13, 57326-57340.	8.0	21
20	Theory of magnon diffuse scattering in scanning transmission electron microscopy. Physical Review B, 2021, 104, .	3.2	8
21	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.	1.6	16
22	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. Nature Communications, 2020, 11, 57.	12.8	153
23	Heterotwin Zn ₃ P ₂ superlattice nanowires: the role of indium insertion in the superlattice formation mechanism and their optical properties. Nanoscale, 2020, 12, 22534-22540.	5.6	7
24	Bandgap determination from individual orthorhombic thin cesium lead bromide nanosheets by electron energy-loss spectroscopy. Nanoscale Horizons, 2020, 5, 1610-1617.	8.0	8
25	Vibrational STEM-EELS of Single Si Atom Point Defects in Graphene. Microscopy and Microanalysis, 2020, 26, 954-955.	0.4	0
26	Bond Dissociation and Reactivity of HF and H ₂ O in a Nano Test Tube. ACS Nano, 2020, 14, 11178-11189.	14.6	17
27	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. ACS Catalysis, 2020, 10, 11069-11080.	11.2	29
28	Long Cycle Life, Highly Ordered SnO ₂ /GeO ₂ Nanocomposite Inverse Opal Anode Materials for Li-ion Batteries. Advanced Functional Materials, 2020, 30, 2005073.	14.9	39
29	A primordial 15N-depleted organic component detected within the carbonaceous chondrite Maribo. Scientific Reports, 2020, 10, 20251.	3.3	6
30	Contrast reversal in atomic-scale phonon spectroscopic imaging. Physical Review B, 2020, 102, .	3.2	10
31	Electron Energy Loss Spectroscopy of Bright and Dark Modes in Hyperbolic Metamaterial Nanostructures. Advanced Optical Materials, 2020, 8, 2000277.	7.3	23
32	Plasmons in MoS ₂ studied via experimental and theoretical correlation of energy loss spectra. Journal of Microscopy, 2020, 279, 256-264.	1.8	22
33	Single-atom vibrational spectroscopy in the scanning transmission electron microscope. Science, 2020, 367, 1124-1127.	12.6	143
34	Accurate EELS background subtraction – an adaptable method in MATLAB. Ultramicroscopy, 2020, 217, 113052.	1.9	9
35	Functional Group Mapping by Electron Beam Vibrational Spectroscopy from Nanoscale Volumes. Nano Letters, 2020, 20, 1272-1279.	9.1	28
36	Evidence for Self-healing Benign Grain Boundaries and a Highly Defective Sb ₂ Se ₃ – CdS Interfacial Layer in Sb ₂ Se ₃ Thin-Film Photovoltaics. ACS Applied Materials & Interfaces, 2020, 12, 21730-21738.	8.0	57

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37	Tents, Chairs, Tacos, Kites, and Rods: Shapes and Plasmonic Properties of Singly Twinned Magnesium Nanoparticles. ACS Nano, 2020, 14, 5968-5980.	14.6	32
38	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. ACS Applied Materials & Interfaces, 2020, 12, 19890-19902.	8.0	12
39	Shape Determination in Lithium-Ion Battery Cathode Materials Using Electron Diffraction-Assisted Electron Tomography. Microscopy and Microanalysis, 2019, 25, 1824-1825.	0.4	0
40	Self-Nanostructuring in SrTiO ₃ : A Novel Strategy for Enhancement of Thermoelectric Response in Oxides. ACS Applied Materials & Interfaces, 2019, 11, 32833-32843.	8.0	56
41	Self-Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. Advanced Functional Materials, 2019, 29, 1903120.	14.9	9
42	Atomic-Scale Study of Metal-Oxide Interfaces and Magnetoelastic Coupling in Self-Assembled Epitaxial Vertically Aligned Magnetic Nanocomposites. Advanced Materials Interfaces, 2019, 6, 1900549.	3.7	7
43	High Spatial and Energy Resolution Analytical Scanning Transmission Electron Microscopy for Quantum Materials. Microscopy and Microanalysis, 2019, 25, 946-947.	0.4	0
44	Scan Strategies for Electron Energy Loss Spectroscopy at Optical and Vibrational Energies in Perylene Diimide Nanobelts. Microscopy and Microanalysis, 2019, 25, 1738-1739.	0.4	1
45	Atomically Resolved Vibrational Spectroscopy in the Electron Microscope. Microscopy and Microanalysis, 2019, 25, 592-593.	0.4	0
46	Local Coordination in Metal-Organic Frameworks Probed in the Vibrational and Optical Regime by EELS. Microscopy and Microanalysis, 2019, 25, 606-607.	0.4	0
47	Direct Quantification of Cu Vacancies and Spatial Localization of Surface Plasmon Resonances in Copper Phosphide Nanocrystals. , 2019, 1, 665-670.		13
48	Challenges and Applications of High Spatial and Energy Resolution EELS for Mapping Functional Chemistry in Beam-Sensitive Materials at Low Acceleration Voltages. Microscopy and Microanalysis, 2019, 25, 480-481.	0.4	0
49	Atomic Scale Near-Edge Structures of a Structurally Abrupt Ni-SrTiO ₃ Interface. Microscopy and Microanalysis, 2019, 25, 664-665.	0.4	0
50	The structure and thermoelectric properties of tungsten bronze Ba ₆ Ti ₂ Nb ₈ O ₃₀ . Journal of Applied Physics, 2019, 126, 125115.	2.5	12
51	TEM Specimen Preparation Using a Low Energy Ion Beam for Nuclear Metallic Materials. Microscopy and Microanalysis, 2019, 25, 1608-1609.	0.4	1
52	Optical Properties and Dielectric Functions of Grain Boundaries and Interfaces in CdTe Thin-Film Solar Cells. ACS Applied Energy Materials, 2019, 2, 1419-1427.	5.1	15
53	Atomic-Scale Spectroscopic Imaging of the Extreme-UV Optical Response of B- and N-Doped Graphene. Advanced Functional Materials, 2019, 29, 1901819.	14.9	7
54	Theory of momentum-resolved phonon spectroscopy in the electron microscope. Physical Review B, 2019, 99, .	3.2	20

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55	Graphene Optoelectronics: Atomic-Scale Spectroscopic Imaging of the Extreme-UV Optical Response of B- and N-Doped Graphene (Adv. Funct. Mater. 52/2019). Advanced Functional Materials, 2019, 29, 1970356.	14.9	0
56	Phonon Spectroscopy at Atomic Resolution. Physical Review Letters, 2019, 122, 016103.	7.8	105
57	Local Plasmon Engineering in Doped Graphene. ACS Nano, 2018, 12, 1837-1848.	14.6	25
58	Prospects for Engineering Thermoelectric Properties in $\text{La}_{1/3}\text{NbO}_3$ Ceramics Revealed via Atomic-Level Characterization and Modeling. Inorganic Chemistry, 2018, 57, 45-55.	4.0	9
59	Transmission Electron Microscopy Reveals Deposition of Metal Oxide Coatings onto Metal-Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 1348-1357.	13.7	51
60	Magnetic and structural depth profiles of Heusler alloy $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}$ epitaxial films on $\text{Si}(1\times 1)$. Journal of Physics Condensed Matter, 2018, 30, 065801.	1.8	3
61	Effect of composition on the structure of lithium- and manganese-rich transition metal oxides. Energy and Environmental Science, 2018, 11, 830-840.	30.8	41
62	Effect of annealing on the structure and magnetic properties of $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}$ thin films on $\text{Ge}(111)$. Journal of Alloys and Compounds, 2018, 748, 323-327.	5.5	10
63	Atomic-Resolution Spectrum Imaging of Semiconductor Nanowires. Nano Letters, 2018, 18, 1557-1563.	9.1	21
64	Localized Plasmon Response Engineering in B- and N-Doped Graphene. Microscopy and Microanalysis, 2018, 24, 1580-1581.	0.4	0
65	Linear heterostructured $\text{Ni}_2\text{Si}/\text{Si}$ nanowires with abrupt interfaces synthesised in solution. Nanoscale, 2018, 10, 19182-19187.	5.6	4
66	Enhancing the thermoelectric power factor of $\text{Sr}_{0.9}\text{Nd}_{0.1}\text{TiO}_3$ through control of the nanostructure and microstructure. Journal of Materials Chemistry A, 2018, 6, 24928-24939.	10.3	34
67	Subwavelength Spatially Resolved Coordination Chemistry of Metal-Organic Framework Glass Blends. Journal of the American Chemical Society, 2018, 140, 17862-17866.	13.7	23
68	Atomic-Level Characterization of Thermoelectric $\text{La}_{1/3}\text{NbO}_3$. Microscopy and Microanalysis, 2018, 24, 1534-1535.	0.4	0
69	Systematic Analysis of the Coupling Effects within Supported Plasmonic Nanorod Antenna Arrays. Journal of Physical Chemistry C, 2018, 122, 22041-22053.	3.1	3
70	Electronic Structure Control of Sub-nanometer 1D SnTe Nanostructuring within Single-Walled Carbon Nanotubes. ACS Nano, 2018, 12, 6023-6031.	14.6	42
71	Utilising unit-cell twinning operators to reduce lattice thermal conductivity in modular structures: Structure and thermoelectric properties of $\text{Ga}_2\text{O}_3(\text{ZnO})_9$. Journal of Alloys and Compounds, 2018, 762, 892-900.	5.5	13
72	Universal geometric frustration in pyrochlores. Nature Communications, 2018, 9, 2619.	12.8	64

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73	Managing dose-, damage- and data-rates in multi-frame spectrum-imaging. <i>Microscopy (Oxford, England)</i> , 2018, 67, i30-i39.	1.5	42
74	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.	5.5	18
75	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.	0.4	3
76	Molecular Excitation Spectroscopy near Metallic Surfaces using Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 476-477.	0.4	1
77	Nanoscale momentum-resolved vibrational spectroscopy. <i>Science Advances</i> , 2018, 4, eaar7495.	10.3	111
78	Mapping VIS-terahertz (~17 THz) surface plasmons sustained on native and chemically functionalized percolated gold thin films using EELS. <i>Microscopy (Oxford, England)</i> , 2018, 67, i30-i39.	1.5	3
79	Co-precipitation on the Basal and Prismatic Planes in Mg-Gd-Ag-Zr Alloy Subjected to Over-Ageing. <i>Minerals, Metals and Materials Series</i> , 2018, , 379-383.	0.4	0
80	Modifying the Interface Edge to Control the Electrical Transport Properties of Nanocontacts to Nanowires. <i>Nano Letters</i> , 2017, 17, 687-694.	9.1	10
81	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. <i>Advanced Functional Materials</i> , 2017, 27, 1605785.	14.9	249
82	Probing the Origin of Interfacial Carriers in SrTiO ₃ -LaCrO ₃ Superlattices. <i>Chemistry of Materials</i> , 2017, 29, 1147-1155.	6.7	19
83	Observation of complete inversion of the hysteresis loop in a bimodal magnetic thin film. <i>Physical Review B</i> , 2017, 95, .	3.2	13
84	Correlative characterization on microstructure evolution of Ni-based K403 alloy during thermal exposure. <i>Acta Materialia</i> , 2017, 131, 169-186.	7.9	29
85	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. <i>Scientific Reports</i> , 2017, 7, 45997.	3.3	113
86	Probing the local nature of excitons and plasmons in few-layer MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	58
87	Elemental distribution within the long-period stacking ordered structure in a Mg-Gd-Zn-Mn alloy. <i>Materials Characterization</i> , 2017, 129, 247-251.	4.4	4
88	Single-Atom Scale Structural Selectivity in Te Nanowires Encapsulated Inside Ultranarrow, Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2017, 11, 6178-6185.	14.6	69
89	Anomalous diffusion of single metal atoms on a graphene oxide support. <i>Chemical Physics Letters</i> , 2017, 683, 370-374.	2.6	25
90	Twenty years after: How aberration correction in the STEM truly placed a synchrotron in a Microscope. <i>Ultramicroscopy</i> , 2017, 180, 41-51.	1.9	19

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91	Heterogeneous nucleation of Al on AlB ₂ in Al-7Si alloy. <i>Materials Characterization</i> , 2017, 128, 7-13.	4.4	19
92	High-resolution monochromated electron energy-loss spectroscopy of organic photovoltaic materials. <i>Ultramicroscopy</i> , 2017, 180, 125-132.	1.9	8
93	Ion-beam modification of 2-D materials - single implant atom analysis via annular dark-field electron microscopy. <i>Ultramicroscopy</i> , 2017, 176, 31-36.	1.9	27
94	Atomic-scale characterization of thermoelectric oxides using high spatial and energy resolution STEM-EELS. <i>Microscopy and Microanalysis</i> , 2017, 23, 370-371.	0.4	0
95	Stability of Schottky and Ohmic Au Nanocatalysts to ZnO Nanowires. <i>Nano Letters</i> , 2017, 17, 6626-6636.	9.1	7
96	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	8
97	Visualizing atomic-scale redox dynamics in vanadium oxide-based catalysts. <i>Nature Communications</i> , 2017, 8, 305.	12.8	59
98	Towards atomically precise manipulation of 2D nanostructures in the electron microscope. <i>2D Materials</i> , 2017, 4, 042004.	4.4	73
99	Evidence for Cu ₂ XSe platelets at grain boundaries and within grains in Cu(In,Ga)Se ₂ thin films. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	12
100	Point defect segregation and its role in the detrimental nature of Frank partials in Cu thin-film absorbers. <i>Physical Review B</i> , 2017, 95, .	3.2	11
101	Momentum- and space-resolved high-resolution electron energy loss spectroscopy of individual single-wall carbon nanotubes. <i>Physical Review B</i> , 2017, 95, .	3.2	17
102	Imaging Two Dimensional Materials and their Heterostructures. <i>Journal of Physics: Conference Series</i> , 2017, 902, 012028.	0.4	8
103	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.	8.0	43
104	Mapping grain boundary heterogeneity at the nanoscale in a positive temperature coefficient of resistivity ceramic. <i>APL Materials</i> , 2017, 5, 066105.	5.1	11
105	Electron Microscopy Reveals Structural and Chemical Changes at the Nanometer Scale in the Osteogenesis Imperfecta Murine Pathology. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2788-2797.	5.2	9
106	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.	7.9	21
107	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.	0.4	1
108	Toward defect-free semi-polar GaN templates on pre-structured sapphire. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 834-839.	1.5	5

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109	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se ₂ thin films for solar cells – a review. Physica Status Solidi - Rapid Research Letters, 2016, 10, 363-375.	2.4	47
110	Polar Spinel-Perovskite Interfaces: an atomistic study of Fe ₃ O ₄ (111)/SrTiO ₃ (111) structure and functionality. Scientific Reports, 2016, 6, 29724.	3.3	10
111	Practical Implementation of Compressive Sensing for High Resolution STEM. Microscopy and Microanalysis, 2016, 22, 558-559.	0.4	9
112	Realisation of magnetically and atomically abrupt half-metal/semiconductor interface: Co ₂ FeSi _{0.5} Al _{0.5} /Ge(111). Scientific Reports, 2016, 6, 37282.	3.3	18
113	Band gap widening at random CIGS grain boundary detected by valence electron energy loss spectroscopy. Applied Physics Letters, 2016, 109, .	3.3	19
114	The role of chemical structure on the magnetic and electronic properties of Co ₂ FeAl _{0.5} Si _{0.5} /Si(111) interface. Applied Physics Letters, 2016, 108, .	3.3	15
115	Experimental and density functional study of Mn doped Bi ₂ Te ₃ topological insulator. APL Materials, 2016, 4, .	5.1	14
116	Controlling the half-metallicity of Heusler/Si(111) interfaces by a monolayer of Si-Co-Si. Journal of Physics Condensed Matter, 2016, 28, 395003.	1.8	3
117	Study of Structure of Li- and Mn-rich Transition Metal Oxides Using 4D-STEM. Microscopy and Microanalysis, 2016, 22, 494-495.	0.4	10
118	Visualizing surface plasmons with photons, photoelectrons, and electrons. Analyst, The, 2016, 141, 3562-3572.	3.5	19
119	Local Variations of Cation Composition on a Nanometer-Sized Scale in a YBa ₂ Cu ₃ O _{6.92} Superconductor. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1139-1143.	1.8	2
120	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.	11.2	270
121	Annihilation of structural defects in chalcogenide absorber films for high-efficiency solar cells. Energy and Environmental Science, 2016, 9, 1818-1827.	30.8	42
122	Role of Structure and Defect Chemistry in High-Performance Thermoelectric Bismuth Strontium Cobalt Oxides. Chemistry of Materials, 2016, 28, 7470-7478.	6.7	22
123	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.	8.2	107
124	Observation of compositional domains within individual copper indium sulfide quantum dots. Nanoscale, 2016, 8, 16157-16161.	5.6	10
125	The structural conversion from $\hat{1}\pm$ -AgVO ₃ to $\hat{1}^2$ -AgVO ₃ : Ag nanoparticle decorated nanowires with application as cathode materials for Li-ion batteries. Nanoscale, 2016, 8, 16266-16275.	5.6	47
126	Characterization of Ordering in A-Site Deficient Perovskite Ca _{1-x} La _{2x/3} TiO ₃ Using STEM/EELS. Inorganic Chemistry, 2016, 55, 9937-9948.	4.0	12

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127	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.	2.8	63
128	Nanoanalytical Electron Microscopy Reveals a Sequential Mineralization Process Involving Carbonate-Containing Amorphous Precursors. <i>ACS Nano</i> , 2016, 10, 6826-6835.	14.6	53
129	Local A-site Layering in Rare-Earth Orthochromite Perovskites by Solution Synthesis. <i>Chemistry - A European Journal</i> , 2016, 22, 18362-18367.	3.3	14
130	Atomic and electronic structure of twin growth defects in magnetite. <i>Scientific Reports</i> , 2016, 6, 20943.	3.3	15
131	Non-equilibrium induction of tin in germanium: towards direct bandgap Ge _{1-x} Sn _x nanowires. <i>Nature Communications</i> , 2016, 7, 11405.	12.8	100
132	Revealing heterogeneous nucleation of primary Si and eutectic Si by AIP in hypereutectic Al-Si alloys. <i>Scientific Reports</i> , 2016, 6, 25244.	3.3	28
133	Interface-Induced Polarization in SrTiO ₃ /LaCrO ₃ Superlattices. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500779.	3.7	28
134	Maghemite-like regions at the crossing of two antiphase boundaries in doped BiFeO ₃ . <i>Materials Science and Technology</i> , 2016, 32, 242-247.	1.6	5
135	Ba _{6-3x} 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.	2.2	17
136	The information content in single-molecule Raman nanoscopy. <i>Advances in Physics: X</i> , 2016, 1, 35-54.	4.1	8
137	Solvent Vapor Growth of Axial Heterostructure Nanowires with Multiple Alternating Segments of Silicon and Germanium. <i>Nano Letters</i> , 2016, 16, 374-380.	9.1	27
138	Tungsten Bronze Barium Neodymium Titanate (Ba _{6-3x} Nd _{8+2x} Ti ₁₈ O ₅₄): An Intrinsic Nanostructured Material and Its Defect Distribution. <i>Inorganic Chemistry</i> , 2016, 55, 3338-3350.	4.0	17
139	Location of Co and Ni promoter atoms in multi-layer MoS ₂ nanocrystals for hydrotreating catalysis. <i>Catalysis Today</i> , 2016, 261, 75-81.	4.4	36
140	Elemental redistributions at structural defects in Cu(In,Ga)Se ₂ thin films for solar cells. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	15
141	Atomic study of Fe ₃ O ₄ /SrTiO ₃ Interface. <i>Microscopy and Microanalysis</i> , 2015, 21, 1299-1300.	0.4	2
142	Atomic-scale insights into 1D and 2D nano-materials. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012021.	0.4	1
143	The roles of Eu during the growth of eutectic Si in Al-Si alloys. <i>Scientific Reports</i> , 2015, 5, 13802.	3.3	35
144	Stabilisation of Fe ₂ O ₃ -rich Perovskite Nanophase in Epitaxial Rare-earth Doped BiFeO ₃ Films. <i>Scientific Reports</i> , 2015, 5, 13066.	3.3	9

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145	Absence of phase separation in nano-chessboard super-lattices in A-site deficient Ca-stabilized Nd _{2/3} TiO ₃ . <i>Microscopy and Microanalysis</i> , 2015, 21, 1353-1354.	0.4	0
146	Controlling the Electrical Transport Properties of Nanocontacts to Nanowires. <i>Nano Letters</i> , 2015, 15, 4248-4254.	9.1	34
147	Electronic Properties and Chemical Reactivity of TiS ₂ Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15707-15715.	3.1	47
148	On the Origin of Nano-chessboard Superlattices in A-Site-Deficient Ca-Stabilized Nd _{2/3} TiO ₃ . <i>Chemistry of Materials</i> , 2015, 27, 497-507.	6.7	24
149	A facile electrochemical route to the preparation of uniform and monoatomic copper shells for gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5565-5568.	2.8	13
150	Polarization screening-induced magnetic phase gradients at complex oxide interfaces. <i>Nature Communications</i> , 2015, 6, 6735.	12.8	71
151	Carbon-metal interfaces analyzed by aberration-corrected TEM: How copper and nickel nanoparticles interact with MWCNTs. <i>Micron</i> , 2015, 72, 52-58.	2.2	15
152	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. <i>Advanced Functional Materials</i> , 2015, 25, 2899-2909.	14.9	31
153	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. <i>Chemistry of Materials</i> , 2015, 27, 3483-3493.	6.7	195
154	Crystal structure and thermoelectric properties of Sr-Mo substituted CaMnO ₃ : a combined experimental and computational study. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12245-12259.	5.5	37
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