Marta D Rossell

List of Publications by Citations

161 papers	11,349 citations	44 h-index	105 g-index
174 ext. papers	12,600 ext. citations	8 avg, IF	5.99 L-index

#	Paper	IF	Citations
161	Above-bandgap voltages from ferroelectric photovoltaic devices. *Nature Nanotechnology*, **2010**, 5, 143-7	28.7	1212
160	Graphene at the edge: stability and dynamics. *Science*, **2009**, 323, 1705-8	33.3	1042
159	Direct imaging of lattice atoms and topological defects in graphene membranes. *Nano Letters*, **2008**, 8, 3582-6	11.5	958
158	A strain-driven morphotropic phase boundary in BiFeO3. *Science*, **2009**, 326, 977-80	33.3	956
157	Reversible electric control of exchange bias in a multiferroic field-effect device. *Nature Materials*, **2010**, 9, 756-61	27	576
156	Three-dimensional atomic imaging of crystalline nanoparticles. *Nature*, **2011**, 470, 374-7	50.4	450
155	Atomically thin hexagonal boron nitride probed by ultrahigh-resolution transmission electron microscopy. *Physical Review B*, **2009**, 80,	3.3	407
154	Atomic-resolution imaging with a sub-50-pm electron probe. *Physical Review Letters*, **2009**, 102, 096101	7.4	375
153	A two-dimensional polymer prepared by organic synthesis. *Nature Chemistry*, **2012**, 4, 287-91	17.6	333
152	Interface ferromagnetism and orbital reconstruction in BiFeO3-La(0.7)Sr(0.3)MnO3 heterostructures. *Physical Review Letters*, **2010**, 105, 027201	7.4	311
151	Microscopic origin of the giant ferroelectric polarization in tetragonal-like BiFeO(3). *Physical Review Letters*, **2011**, 107, 147602	7.4	248
150	A strong electro-optically active lead-free ferroelectric integrated on silicon. *Nature Communications*, **2013**, 4, 1671	17.4	192
149	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
148	Microstructure and mechanical properties of Al-Mg-Zr alloys processed by selective laser melting. *Acta Materialia*, **2018**, 153, 35-44	8.4	175
147	Characterization of multi-scale microstructural features in Opalinus Clay. *Microporous and Mesoporous Materials*, **2013**, 170, 83-94	5.3	131
146	Chemical solution deposition: a path towards low cost coated conductors. *Superconductor Science and Technology*, **2004**, 17, 1055-1064	3.1	117
145	Microwave-Assisted Nonaqueous Sol–Gel Chemistry for Highly Concentrated ZnO-Based Magnetic Semiconductor Nanocrystals. *Journal of Physical Chemistry C*, **2011**, 115, 1484-1495	3.8	104

144	Hidden magnetic configuration in epitaxial La(1-x) Sr(x) MnO3 films. *Physical Review Letters*, **2010**, 105, 257204	7.4	95
143	Effect of laser rescanning on the grain microstructure of a selective laser melted Al-Mg-Zr alloy. *Materials Characterization*, **2018**, 143, 34-42	3.9	92
142	Atomic structure of highly strained BiFeO3 thin films. *Physical Review Letters*, **2012**, 108, 047601	7.4	89
141	Monodisperse colloidal gallium nanoparticles: synthesis, low temperature crystallization, surface plasmon resonance and Li-ion storage. *Journal of the American Chemical Society*, **2014**, 136, 12422-30	16.4	87
140	The structure and behavior of platinum in SnO2-based sensors under working conditions. *Angewandte Chemie - International Edition*, **2011**, 50, 2841-4	16.4	87
139	Stabilization of the cubic phase of HfO2 by Y addition in films grown by metal organic chemical vapor deposition. *Applied Physics Letters*, **2006**, 89, 012902	3.4	80
138	Highly monodisperse core-shell particles created by solid-state reactions. *Nature Materials*, **2011**, 10, 710-5	27	78
137	Interplay between size and crystal structure of molybdenum dioxide nanoparticles--synthesis, growth mechanism, and electrochemical performance. *Small*, **2011**, 7, 377-87	11	77
136	Microwave-assisted solution synthesis of doped LiFePO4 with high specific charge and outstanding cycling performance. *Journal of Materials Chemistry*, **2011**, 21, 5881		75
135	Direct Evidence of Surface Reduction in Monoclinic BiVO4. *Chemistry of Materials*, **2015**, 27, 3593-3600	9.6	69
134	Template-free co-assembly of preformed Au and TiO2 nanoparticles into multicomponent 3D aerogels. *Journal of Materials Chemistry*, **2011**, 21, 16893		67
133	Background, status and future of the Transmission Electron Aberration-corrected Microscope project. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 3795-808	3	66
132	Electromechanical coupling among edge dislocations, domain walls, and nanodomains in BiFeO3 revealed by unit-cell-wise strain and polarization maps. *Nano Letters*, **2013**, 13, 1410-5	11.5	65
131	Oxygenated amorphous carbon for resistive memory applications. *Nature Communications*, **2015**, 6, 8600	17.4	64
130	Stability and dynamics of small molecules trapped on graphene. *Physical Review B*, **2010**, 82,	3.3	61
129	Low-Loss BaTiO3Si Waveguides for Nonlinear Integrated Photonics. *ACS Photonics*, **2016**, 3, 1698-1703	6.3	55
128	High quality YBa2Cu3O7thin films grown by trifluoroacetates metalorganic deposition. *Superconductor Science and Technology*, **2003**, 16, 45-53	3.1	54
127	High-speed III-V nanowire photodetector monolithically integrated on Si. *Nature Communications*, **2020**, 11, 4565	17.4	54

126	Microstructure and ferroelectricity of BaTiO thin films on Si for integrated photonics. *Nanotechnology*, **2017**, 28, 075706	3.4	53
125	Monodisperse Al3(LiScZr) core/shell precipitates in Al alloys. *Scripta Materialia*, **2008**, 58, 529-532	5.6	51
124	Evidence of sharp and diffuse domain walls in BiFeO3 by means of unit-cell-wise strain and polarization maps obtained with high resolution scanning transmission electron microscopy. *Physical Review Letters*, **2012**, 109, 047601	7.4	50
123	Magnetite-supported palladium single-atoms do not catalyse the hydrogenation of alkenes but small clusters do. *Catalysis Science and Technology*, **2016**, 6, 4081-4085	5.5	50
122	Microwave-Assisted Nonaqueous Sol□el Synthesis: From Al:ZnO Nanoparticles to Transparent Conducting Films. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 152-160	8.3	48
121	Domain Wall Architecture in Tetragonal Ferroelectric Thin Films. *Advanced Materials*, **2017**, 29, 1605145	24	46
120	Impact of sonication pretreatment on carbon nanotubes: A transmission electron microscopy study. *Carbon*, **2013**, 61, 404-411	10.4	46
119	KNd(MoO4)2: A New Incommensurate Modulated Structure in the Scheelite Family. *Chemistry of Materials*, **2006**, 18, 4075-4082	9.6	45
118	Heavy-Hole States in Germanium Hut Wires. *Nano Letters*, **2016**, 16, 6879-6885	11.5	44
117	Remarkable Carbon Dioxide Hydrogenation to Ethanol on a Palladium/Iron Oxide Single-Atom Catalyst. *ChemCatChem*, **2018**, 10, 2365-2369	5.2	43
116	High-Mobility GaSb Nanostructures Cointegrated with InAs on Si. *ACS Nano*, **2017**, 11, 2554-2560	16.7	42
115	Coarsening- and creep resistance of precipitation-strengthened Al□Mg□r alloys processed by selective laser melting. *Acta Materialia*, **2020**, 188, 192-202	8.4	39
114	Controlling tetragonality and crystalline orientation in BaTiO□hano-layers grown on Si. *Nanotechnology*, **2013**, 24, 285701	3.4	38
113	A General Approach To Fabricate Fe3O4 Nanoparticles Decorated with Pd, Au, and Rh: Magnetically Recoverable and Reusable Catalysts for Suzuki C-C Cross-Coupling Reactions, Hydrogenation, and Sequential Reactions. *Chemistry - A European Journal*, **2013**, 19, 11963-74	4.8	37
112	Confined Epitaxial Lateral Overgrowth (CELO): A novel concept for scalable integration of CMOS-compatible InGaAs-on-insulator MOSFETs on large-area Si substrates **2015**,		36
111	Periodic Giant Polarization Gradients in Doped BiFeO Thin Films. *Nano Letters*, **2018**, 18, 717-724	11.5	36
110	Atomic-resolution imaging of lithium in Al3Li precipitates. *Physical Review B*, **2009**, 80,	3.3	35
109	Ag1/8Pr5/8MoO4: An incommensurately modulated scheelite-type structure. *Journal of Solid State Chemistry*, **2006**, 179, 1183-1191	3.3	35

108	Strain-driven oxygen deficiency in multiferroic SrMnO3 thin films. *Physical Review B*, **2016**, 94,	3.3	34
107	Extension of the benzyl alcohol route to metal sulfides: "nonhydrolytic" thio sol-gel synthesis of ZnS and SnS2. *Chemical Communications*, **2011**, 47, 5280-2	5.8	34
106	Addition of yttrium into HfO2 films: Microstructure and electrical properties. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2009**, 27, 503-514	2.9	34
105	Strain-induced ferroelectricity and spin-lattice coupling in SrMnO3 thin films. *Physical Review B*, **2018**, 97,	3.3	33
104	Formation of Au Nanoparticles in Liquid Cell Transmission Electron Microscopy: From a Systematic Study to Engineered Nanostructures. *Chemistry of Materials*, **2017**, 29, 10518-10525	9.6	32
103	Understanding and Controlling Nucleation and Growth of TiO2 Deposited on Multiwalled Carbon Nanotubes by Atomic Layer Deposition. *Journal of Physical Chemistry C*, **2015**, 119, 3379-3387	3.8	32
102	An integration path for gate-first UTB III-V-on-insulator MOSFETs with silicon, using direct wafer bonding and donor wafer recycling **2012**,		32
101	Enhancing Total Conductivity of La2NiO4+□Epitaxial Thin Films by Reducing Thickness. *Journal of Physical Chemistry C*, **2008**, 112, 10982-10987	3.8	32
100	Evaluation of top, angle, and side cleaned FIB samples for TEM analysis. *Microscopy Research and Technique*, **2007**, 70, 1060-71	2.8	31
99	Direct imaging of dopant clustering in metal-oxide nanoparticles. *ACS Nano*, **2012**, 6, 7077-83	16.7	30
98	Acoustic vibration modes and electron-lattice coupling in self-assembled silver nanocolumns. *Nano Letters*, **2008**, 8, 1296-302	11.5	30
97	Domain-wall motion and interfacial Dzyaloshinskii-Moriya interactions in Pt/Co/Ir( )/Ta multilayers. *Physical Review B*, **2019**, 99,	3.3	28
96	Manipulating the reaction path of the CO2 hydrogenation reaction in molecular sieves. *Catalysis Science and Technology*, **2015**, 5, 4613-4621	5.5	28
95	A comprehensive study of the crystallization mechanism involved in the nonaqueous formation of tungstite. *Nanoscale*, **2013**, 5, 8517-25	7.7	28
94	Structure and Microstructure of Epitaxial Sr4Fe6O13□□Films on SrTiO3. *Chemistry of Materials*, **2004**, 16, 2578-2584	9.6	28
93	Zeolite-Templated Carbon as the Cathode for a High Energy Density Dual-Ion Battery. *ACS Applied Materials & Interfaces*, **2019**, 11, 17686-17696	9.5	27
92	Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li3xNd2/3□TiO3 Perovskites. *Chemistry of Materials*, **2013**, 25, 2670-2683	9.6	27
91	Enhanced High-Temperature Electronic Transport Properties in Nanostructured Epitaxial Thin Films of the Lan+1NinO3n+1 Ruddlesden□Popper Series (n = 1, 2, 3, □ *Chemistry of Materials*, **2007**, 19, 4056-4062	9.6	26

90	Manipulating Surface States of III-V Nanowires with Uniaxial Stress. *Nano Letters*, **2017**, 17, 2816-2824	11.5	25
89	High-Mobility InO:H Electrodes for Four-Terminal Perovskite/CuInSe Tandem Solar Cells. *ACS Nano*, **2020**, 14, 7502-7512	16.7	25
88	Structural defects in cubic semiconductors characterized by aberration-corrected scanning transmission electron microscopy. *Ultramicroscopy*, **2017**, 176, 11-22	3.1	25
87	Co-operative formation of monolithic tungsten oxide-polybenzylene hybrids via polymerization of benzyl alcohol and study of the catalytic activity of the tungsten oxide nanoparticles. *Small*, **2010**, 6, 960-6	11	25
86	KSm(MoO(4))(2), an incommensurately modulated and partially disordered scheelite-like structure. *Acta Crystallographica Section B: Structural Science*, **2008**, 64, 160-71		25
85	Study of the chemical mechanism involved in the formation of tungstite in benzyl alcohol by the advanced QEXAFS technique. *Chemistry - A European Journal*, **2012**, 18, 2305-12	4.8	24
84	The ultrathin limit of improper ferroelectricity. *Nature Communications*, **2019**, 10, 5591	17.4	24
83	Observation of Twin-free GaAs Nanowire Growth Using Template-Assisted Selective Epitaxy. *Crystal Growth and Design*, **2017**, 17, 6297-6302	3.5	23
82	InAlN underlayer for near ultraviolet InGaN based light emitting diodes. *Applied Physics Express*, **2019**, 12, 034002	2.4	23
81	Vacancy growth and migration dynamics in atomically thin hexagonal boron nitride under electron beam irradiation. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 295-297	2.5	22
80	Atomic Layer Deposition of Titanium Oxide on Single-Layer Graphene: An Atomic-Scale Study toward Understanding Nucleation and Growth. *Chemistry of Materials*, **2017**, 29, 2232-2238	9.6	21
79	Transmission Electron Microscopic Study of the Defect Structure in Sr4Fe6O12+□ompounds with Variable Oxygen Content. *Chemistry of Materials*, **2005**, 17, 4717-4726	9.6	21
78	Structure of epitaxial Ca2Fe2O5 films deposited on different perovskite-type substrates. *Journal of Applied Physics*, **2004**, 95, 5145-5152	2.5	21
77	Growth and characterization of CNT-TiO2 heterostructures. *Beilstein Journal of Nanotechnology*, **2014**, 5, 946-55	3	20
76	Impact of substrate material and annealing conditions on the microstructure and chemistry of yttria-stabilized-zirconia thin films. *Journal of Power Sources*, **2011**, 196, 7372-7382	8.9	20
75	Depolarizing-Field Effects in Epitaxial Capacitor Heterostructures. *Physical Review Letters*, **2019**, 123, 147601	7.4	19
74	Buried In-Plane Ferroelectric Domains in Fe-Doped Single-Crystalline Aurivillius Thin Films. *ACS Applied Electronic Materials*, **2019**, 1, 1019-1028	4	19
73	High Conformity and Large Domain Monocrystalline Anatase on Multiwall Carbon Nanotube Core□hell Nanostructure: Synthesis, Structure, and Interface. *Chemistry of Materials*, **2016**, 28, 3488-3496	8.6	19

72	Formation mechanism of LiFePO□sticks grown by a microwave-assisted liquid-phase process. *Small*, **2012**, 8, 2231-8	11	17
71	Superspace Description, Crystal Structures, and Electric Conductivity of the Ba4In6□MgxO13□/2 Solid Solutions. *Chemistry of Materials*, **2008**, 20, 4457-4467	9.6	17
70	One-Pot Polyol Synthesis of Pt/CeO2 and Au/CeO2 Nanopowders as Catalysts for CO Oxidation. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 3530-9	1.3	16
69	Sr3Fe5/4Mo3/4O6.9, an n = 2 Ruddlesden□Popper Phase: Synthesis and Properties. *Chemistry of Materials*, **2006**, 18, 3448-3457	9.6	16
68	Phase transitions in K3AlF6. *Journal of Solid State Chemistry*, **2006**, 179, 421-428	3.3	16
67	Structural and optical characterization of GaAs nano-crystals selectively grown on Si nano-tips by MOVPE. *Nanotechnology*, **2017**, 28, 135301	3.4	15
66	Robust In-Plane Ferroelectricity in Ultrathin Epitaxial Aurivillius Films. *Advanced Materials Interfaces* , **2020**, 7, 2000202	4.6	15
65	Growth of La2Mo2O9 films on porous Al2O3 substrates by radio frequency magnetron sputtering. *Thin Solid Films*, **2006**, 500, 27-33	2.2	15
64	Highly water-dispersible magnetite-supported Pd nanoparticles and single atoms as excellent catalysts for Suzuki and hydrogenation reactions. *RSC Advances*, **2016**, 6, 68675-68684	3.7	15
63	Chemical solution techniques for epitaxial growth of oxide buffer and YBa2Cu3O7 films. *Journal of the European Ceramic Society*, **2004**, 24, 1831-1835	6	14
62	Epitaxial Thin Films as a Model System for Li-Ion Conductivity in LiTiO. *ACS Applied Materials & Interfaces*, **2018**, 10, 44494-44500	9.5	14
61	Dopant-Induced Modifications of Ga InP Nanowire-Based p-n Junctions Monolithically Integrated on Si(111). *ACS Applied Materials & Interfaces*, **2018**, 10, 32588-32596	9.5	14
60	Bi-modal nanoheteroepitaxy of GaAs on Si by metal organic vapor phase epitaxy. *Nanotechnology*, **2017**, 28, 135701	3.4	13
59	Carbon-metal interfaces analyzed by aberration-corrected TEM: how copper and nickel nanoparticles interact with MWCNTs. *Micron*, **2015**, 72, 52-8	2.3	13
58	Optimization of exit-plane waves restored from HRTEM through-focal series. *Ultramicroscopy*, **2010** , 110, 151-61	3.1	13
57	Facet-selective group-III incorporation in InGaAs template assisted selective epitaxy. *Nanotechnology*, **2019**, 30, 084004	3.4	13
56	Imaging and quantification of charged domain walls in BiFeO. *Nanoscale*, **2020**, 12, 9186-9193	7.7	13
55	ALD-Zn Ti O as Window Layer in Cu(In,Ga)Se Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 43603-43609	9.5	13

54	Growth Assisted by Glancing Angle Deposition: A New Technique to Fabricate Highly Porous Anisotropic Thin Films. *ACS Applied Materials & Interfaces*, **2016**, 8, 8686-93	9.5	12
53	Microstructure and high temperature transport properties of high quality epitaxial SrFeO3 films. *Solid State Ionics*, **2008**, 179, 1996-1999	3.3	12
52	Inferred phase relations in part of the system Au Ag Te: an integrated analytical study of gold ore from the Golden Mile, Kalgoorlie, Australia. *Mineralogy and Petrology*, **2005**, 83, 283-293	1.6	12
51	Strain relaxation in epitaxial Ge crystals grown on patterned Si(001) substrates. *Scripta Materialia*, **2017**, 127, 169-172	5.6	11
50	In-situ monitoring of interface proximity effects in ultrathin ferroelectrics. *Nature Communications*, **2020**, 11, 5815	17.4	11
49	Coupled anion and cation ordering in Sr3RFe4O10.5 (R=Y, Ho, Dy) anion-deficientperovskites. *Journal of Solid State Chemistry*, **2010**, 183, 2845-2854	3.3	10
48	Unusual Strain Accommodation and Conductivity Enhancement by Structure Modulation Variations in Sr4Fe6O12+ Epitaxial Films. *Advanced Functional Materials*, **2008**, 18, 785-793	15.6	10
47	Relaxation phenomena at the metal-to-insulator transition in La0.8Sr0.2MnO3 single crystals. *Solid State Communications*, **2008**, 148, 340-344	1.6	10
46	Nanoscale phase separation in perovskites revisited. *Nature Materials*, **2014**, 13, 216-7	27	9
45	Thickness-dependent transport properties of Sr4Fe6O13 epitaxial thin films. *Solid State Ionics*, **2006**, 177, 423-428	3.3	9
44	Single-step functionalization of vertically aligned MWCNTs with Cu and Ni by chemical reduction of copper and nickel acetyl acetonate in benzyl alcohol. *Carbon*, **2014**, 73, 146-154	10.4	8
43	Synthesis and crystal structure of novel CaRMnSnO6 (R = La, Pr, Nd, Sm Dy) double perovskites. *Journal of Materials Chemistry*, **2005**, 15, 4899		8
42	Ultra-narrow room-temperature emission from single CsPbBr perovskite quantum dots.. *Nature Communications*, **2022**, 13, 2587	17.4	8
41	Selective Nucleation of GaAs on Si Nanofacets. *Small*, **2017**, 13, 1603122	11	7
40	Strain relaxation in epitaxial GaAs/Si (0 0 1) nanostructures. *Philosophical Magazine*, **2017**, 97, 2845-2857	1.6	7
39	Epitaxial Sr4Fe6O13 films obtained by pulsed laser deposition. *Journal of Crystal Growth*, **2004**, 262, 334-340	1.6	7
38	4-Mercaptophenyldiphenylphosphine as linker to immobilize Pd onto the surface of magnetite nanoparticles. Excellent catalytic efficiency of the system after partial linker removal. *RSC Advances*, **2015**, 5, 91340-91348	3.7	6
37	Atomic-resolution differential phase contrast STEM on ferroelectric materials: A mean-field approach. *Physical Review B*, **2020**, 101,	3.3	6

36	Inversion-Symmetry Engineering in Layered Oxide Thin Films. *Nano Letters*, **2021**, 21, 2780-2785	11.5	6
35	Assessment of off-axis and in-line electron holography for measurement of potential variations in Cu(In,Ga)Se2 thin-film solar cells. *Advanced Structural and Chemical Imaging*, **2016**, 2,	3.9	6
34	Intergranular pore space evolution in MX80 bentonite during a long-term experiment. *Applied Clay Science*, **2015**, 104, 150-159	5.2	5
33	Solution Processing and Self-Organization of PbS Quantum Dots Passivated with Formamidinium Lead Iodide (FAPbI). *ACS Omega*, **2020**, 5, 15746-15754	3.9	5
32	Direct evidence of stacking disorder in the mixed ionic-electronic conductor Sr4Fe6O12+□*ACS Nano*, **2013**, 7, 3078-85	16.7	5
31	Analysis of edge threading dislocations b->=12<110> in three dimensional Ge crystals grown on (001)-Si substrates. *Applied Physics Letters*, **2015**, 107, 093501	3.4	5
30	Correlation between structural defects and properties in large La□Sr□MnO□ single crystals. *Journal of Applied Physics*, **2007**, 101, 053502	2.5	5
29	Structure and properties of edge dislocations in BiFeO3. *Physical Review Materials*, **2019**, 3,	3.2	5
28	Epitaxial integration of improper ferroelectric hexagonal YMnO3 thin films in heterostructures. *Physical Review Materials*, **2020**, 4,	3.2	5
27	Probing local order in multiferroics by transmission electron microscopy. *Physical Sciences Reviews*, **2020**, 5,	1.4	5
26	Layer and spontaneous polarizations in perovskite oxides and their interplay in multiferroic bismuth ferrite. *Journal of Chemical Physics*, **2021**, 154, 154702	3.9	5
25	Magnetoelectric coupling in micropatterned BaTiO3/CoFe2O4 epitaxial thin film structures: Augmentation and site-dependency. *Applied Physics Letters*, **2021**, 119, 012901	3.4	5
24	Effect of thermal annealing on the interface quality of Ge/Si heterostructures. *Scripta Materialia*, **2019**, 170, 52-56	5.6	4
23	Transition to the quantum hall regime in InAs nanowire cross-junctions. *Semiconductor Science and Technology*, **2019**, 34, 035028	1.8	4
22	Quantitative Li Mapping in Al alloys by Sub-eV Resolution Energy-Filtering Transmission Electron Microscopy (EFTEM) in the Aberration-Corrected, Monochromated TEAM0.5 Instrument. *Microscopy and Microanalysis*, **2009**, 15, 430-431	0.5	4
21	A tool for automatic recognition of [110] tilt grain boundaries in zincblende-type crystals. *Journal of Applied Crystallography*, **2017**, 50, 1299-1306	3.8	4
20	Asynchronous current-induced switching of rare-earth and transition-metal sublattices in ferrimagnetic alloys.. *Nature Materials*, **2022**,	27	4
19	Atomic-scale structural characterization of grain boundaries in epitaxial Ge/Si microcrystals by HAADF-STEM. *Acta Materialia*, **2019**, 167, 159-166	8.4	3

18	Direct-epitaxial growth of SrAl2O4:Eu,Dy thin films on Al2O3 substrate by pulsed laser deposition. *Applied Surface Science*, **2019**, 491, 53-59	6.7	3
17	Effects of nanocracks on the magnetic and electrical properties of single crystals. *Solid State Communications*, **2009**, 149, 1543-1548	1.6	3
16	Strain relaxation and oxygen superstructure modulation in epitaxial Sr4Fe6O13□□films. *Applied Physics Letters*, **2005**, 86, 132105	3.4	3
15	High conductivity InAlN/GaN multi-channel two-dimensional electron gases. *Semiconductor Science and Technology*, **2021**, 36, 055020	1.8	3
14	NH2- or PPh2-functionalized linkers for the immobilization of palladium on magnetite nanoparticles?. *RSC Advances*, **2017**, 7, 27872-27880	3.7	2
13	Millisecond photonic sintering of iron oxide doped alumina ceramic coatings. *Scientific Reports*, **2021**, 11, 3536	4.9	2
12	Ferromagnetic insulating epitaxially strained La2NiMnO6 thin films grown by sputter deposition. *APL Materials*, **2021**, 9, 081111	5.7	2
11	Atomic structure and electronic properties of planar defects in SrFeO3□thin films. *Physical Review Materials*, **2020**, 4,	3.2	1
10	Liquid Phase Studies of Nanomaterials. *Chimia*, **2018**, 72, 727	1.3	1
9	Evaluation of the Nanodomain Structure in In-Zn-O Transparent Conductors. *Nanomaterials*, **2021**, 11,	5.4	1
8	Strain-driven oxygen deficiency in multiferroic SrMnO3 thin films **2016**, 946-947		
7	Dislocation Modelling: Calculating EELS Spectra for Edge Dislocation in Bismuth Ferrite **2016**, 797-798		
6	Surface Reduction in Monoclinic BiVO4 for Photocatalytic Applications. *Microscopy and Microanalysis*, **2014**, 20, 436-437	0.5	
5	Understanding the Effect of Doping and Epitaxial Strain on the Ferroelectric Polarization of Layered Perovskite Thin Films. *Microscopy and Microanalysis*, **2017**, 23, 1606-1607	0.5	
4	Nanosession: Ferroelectric Interfaces **2013**, 399-408		
3	Analysis of nanoscale band gap fluctuations in Cu(In,Ga)Se2 solar cells by VEELS **2016**, 848-849		
2	HAADF-STEM Investigation of III-V Semiconductors Grown on Nanopatterned Si(001) Substrates. *Microscopy and Microanalysis*, **2018**, 24, 140-141	0.5	
1	A comparative study of defect formation in GaAs nanocrystals selectively grown on nanopatterned and flat Si(001) substrates. *Micron*, **2018**, 113, 83-90	2.3	