

Cesar Magen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5631553/publications.pdf>

Version: 2024-02-01

217
papers

8,100
citations

61857

43
h-index

60497

81
g-index

225
all docs

225
docs citations

225
times ranked

11128
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-to-charge conversion using Rashba coupling at the interface between non-magnetic materials. Nature Communications, 2013, 4, 2944.	5.8	661
2	Flexoelectric rotation of polarization in ferroelectric thin films. Nature Materials, 2011, 10, 963-967.	13.3	503
3	Self-assembled quantum dots in a nanowire system for quantum photonics. Nature Materials, 2013, 12, 439-444.	13.3	306
4	Nanoscale strain-induced pair suppression as a vortex-pinning mechanism in high-temperature superconductors. Nature Materials, 2012, 11, 329-336.	13.3	298
5	Observation of a Griffiths-like Phase in the Magnetocaloric Compound Tb ₅ Si ₂ Ge ₂ . Physical Review Letters, 2006, 96, 167201.	2.9	191
6	Tailoring the Synthesis and Heating Ability of Gold Nanoprisms for Bioapplications. Langmuir, 2012, 28, 8965-8970.	1.6	167
7	Polarity Assignment in ZnTe, GaAs, ZnO, and GaN-AlN Nanowires from Direct Dumbbell Analysis. Nano Letters, 2012, 12, 2579-2586.	4.5	161
8	Strain-induced coupling of electrical polarization and structural defects in SrMnO ₃ films. Nature Nanotechnology, 2015, 10, 661-665.	15.6	153
9	Designing Novel Hybrid Materials by One-Pot Co-condensation: From Hydrophobic Mesoporous Silica Nanoparticles to Superamphiphobic Cotton Textiles. ACS Applied Materials & Interfaces, 2011, 3, 2289-2299.	4.0	147
10	Artificial chemical and magnetic structure at the domain walls of an epitaxial oxide. Nature, 2014, 515, 379-383.	13.7	146
11	Pressure Enhancement of the Giant Magnetocaloric Effect in Tb ₅ Si ₂ Ge ₂ . Physical Review Letters, 2004, 93, 137201.	2.9	130
12	Three-Dimensional Multiple-Order Twinning of Self-Catalyzed GaAs Nanowires on Si Substrates. Nano Letters, 2011, 11, 3827-3832.	4.5	123
13	Whispering Gallery Mode Lasing from Hexagonal Shaped Layered Lead Iodide Crystals. ACS Nano, 2015, 9, 687-695.	7.3	118
14	Incommensurate van der Waals Epitaxy of Nanowire Arrays: A Case Study with ZnO on Muscovite Mica Substrates. Nano Letters, 2012, 12, 2146-2152.	4.5	117
15	Heterovalent cation substitutional doping for quantum dot homojunction solar cells. Nature Communications, 2013, 4, 2981.	5.8	111
16	Pressure-Induced Three-Dimensional Ferromagnetic Correlations in the Giant Magnetocaloric Compound Gd ₅ Ge ₄ . Physical Review Letters, 2003, 91, 207202.	2.9	108
17	Ultrascale Functional Ferromagnetic Nanostructures Grown by Focused Electron-Beam-Induced Deposition. ACS Nano, 2011, 5, 7781-7787.	7.3	105
18	Influence of defects on structural and magnetic properties of multifunctional LaMn_2O_6 thin films. Physical Review B, 2008, 77, .	1.1	101

#	ARTICLE	IF	CITATIONS
19	p-GaN/n-ZnO Heterojunction Nanowires: Optoelectronic Properties and the Role of Interface Polarity. ACS Nano, 2014, 8, 4376-4384.	7.3	99
20	Magnetic and structural phase diagram of Tb ₅ (SixGe _{1-x}) ₄ . Physical Review B, 2002, 65, .	1.1	94
21	Atomic Scale Strain Relaxation in Axial Semiconductor III-V Nanowire Heterostructures. Nano Letters, 2014, 14, 6614-6620.	4.5	94
22	Origin of inverse Rashba-Edelstein effect detected at the Cu/Bi interface using lateral spin valves. Physical Review B, 2016, 93, .	1.1	87
23	Magnetoelastic behaviour of Gd ₅ Ge ₄ . Journal of Physics Condensed Matter, 2003, 15, 2389-2397.	0.7	80
24	Magnetic-martensitic transition of Tb ₅ Si ₂ Ge ₂ studied with neutron powder diffraction. Physical Review B, 2003, 68, .	1.1	78
25	Composite phenolic resin-based carbon molecular sieve membranes for gas separation. Carbon, 2011, 49, 4348-4358.	5.4	74
26	Twin-Induced InSb Nanosails: A Convenient High Mobility Quantum System. Nano Letters, 2016, 16, 825-833.	4.5	74
27	Magnetocaloric effect in Tb ₅ (SixGe _{1-x}) ₄ . Applied Physics Letters, 2001, 79, 1318-1320.	1.5	73
28	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. Nanoscale, 2012, 4, 1486.	2.8	73
29	Self-Assembled GaN Nanowires on Diamond. Nano Letters, 2012, 12, 2199-2204.	4.5	73
30	Position-Controlled Growth of GaN Nanowires and Nanotubes on Diamond by Molecular Beam Epitaxy. Nano Letters, 2015, 15, 1773-1779.	4.5	69
31	3D Magnetic Induction Maps of Nanoscale Materials Revealed by Electron Holographic Tomography. Chemistry of Materials, 2015, 27, 6771-6778.	3.2	64
32	Hydrostatic pressure control of the magnetostructural phase transition in Gd ₅ Si ₂ Ge ₂ single crystals. Physical Review B, 2005, 72, .	1.1	63
33	Twinning, Polytypism, and Polarity-Induced Morphological Modulation in Nonplanar Nanostructures with van der Waals Epitaxy. Advanced Functional Materials, 2013, 23, 1636-1646.	7.8	59
34	Artificial Double-Helix for Geometrical Control of Magnetic Chirality. ACS Nano, 2020, 14, 8084-8092.	7.3	58
35	Nature of antiferromagnetic order in epitaxially strained multiferroic SrMnO ₃ films. Physical Review B, 2015, 92, .	1.1	54
36	Synthesis of Pb ₂ Single-Layered Inorganic Nanotubes Encapsulated Within Carbon Nanotubes. Advanced Materials, 2014, 26, 2016-2021.	11.1	52

#	ARTICLE	IF	CITATIONS
37	Giant magnetoresistance in the Ge-rich magnetocaloric compound, $Gd_5(Si_{0.1}Ge_{0.9})_4$. Journal of Magnetism and Magnetic Materials, 2001, 237, 119-123.	1.0	51
38	Self-assembled GaN quantum wires on GaN/AlN nanowire templates. Nanoscale, 2012, 4, 7517.	2.8	49
39	Nanoscale chemical and structural study of Co-based FEBID structures by STEM-EELS and HRTEM. Nanoscale Research Letters, 2011, 6, 592.	3.1	48
40	Fe:O:C grown by focused-electron-beam-induced deposition: magnetic and electric properties. Nanotechnology, 2011, 22, 025302.	1.3	47
41	Thickness scaling of ferroelastic domains in $PbTiO_3$ films on $DyScO_3$. Applied Physics Letters, 2013, 103, .	1.5	46
42	Size-controlled spontaneously segregated $Ba_{2}YTaO_6$ nanoparticles in $YBa_2Cu_3O_7$ nanocomposites obtained by chemical solution deposition. Superconductor Science and Technology, 2014, 27, 044008.	1.8	46
43	Co/Ni(111) superlattices studied by microscopy, x-ray absorption, and <i>ab initio</i> calculations. Physical Review B, 2012, 86, .	1.1	45
44	Polar-Graded Multiferroic $SrMnO_3$ Thin Films. Nano Letters, 2016, 16, 2221-2227.	4.5	45
45	Griffiths-like phase of magnetocaloric $R_5Mn_4Si_6$ nanowires. Physical Review B, 2010, 82, .	1.1	44
46	Role of the surface states in the magnetotransport properties of ultrathin bismuth films. Physical Review B, 2010, 82, .	1.1	44
47	Tuning shape, composition and magnetization of 3D cobalt nanowires grown by focused electron beam induced deposition (FEBID). Journal Physics D: Applied Physics, 2017, 50, 18LT01.	1.3	43
48	Large inverse magnetoresistance in fully epitaxial $Fe_3O_4/MgO/Co$ magnetic tunnel junctions. Applied Physics Letters, 2008, 92, 053508.	1.5	42
49	Ultrathin MgO Coating of Superparamagnetic Magnetite Nanoparticles by Combined Coprecipitation and Sol-Gel Synthesis. Chemistry of Materials, 2012, 24, 451-456.	3.2	42
50	Emerging Diluted Ferromagnetism in High- T_c Superconductors Driven by Point Defect Clusters. Advanced Science, 2016, 3, 1500295.	5.6	41
51	Pressure effects in the giant magnetocaloric compounds $Gd_5(SixGe_{1-x})_4$. Journal of Physics Condensed Matter, 2004, 16, 1623-1630.	0.7	40
52	Carbon-Al $_2$ O $_3$ -Ag composite molecular sieve membranes for gas separation. Chemical Engineering Research and Design, 2012, 90, 2338-2345.	2.7	40
53	Effects of Au nanoparticles on the magnetic and transport properties of $La_{1-x}Mn_xO_2$ layers. Physical Review B, 2010, 81, .	1.1	39
54	Strain-driven broken twin boundary coherence in $YBa_2Cu_3O_{7-\delta}$ nanocomposite thin films. Applied Physics Letters, 2013, 102, .	1.5	39

#	ARTICLE	IF	CITATIONS
55	Engineering Vacancies in Bi_2S_3 yielding Sub-Bandgap Photoresponse and Highly Sensitive Short-Wave Infrared Photodetectors. <i>Advanced Optical Materials</i> , 2019, 7, 1900258.	3.6	37
56	Achieving Giant Magnetically Induced Reorientation of Martensitic Variants in Magnetic Shape-Memory Ni-Mn-Ga Films by Microstructure Engineering. <i>Advanced Materials</i> , 2015, 27, 4760-4766.	11.1	36
57	Magnetic antidot to dot crossover in Co and Py nanopatterned thin films. <i>Physical Review B</i> , 2014, 89, .	1.1	35
58	Observation of the Strain Induced Magnetic Phase Segregation in Manganite Thin Films. <i>Nano Letters</i> , 2015, 15, 492-497.	4.5	35
59	Mass Sensing for the Advanced Fabrication of Nanomechanical Resonators. <i>Nano Letters</i> , 2019, 19, 6987-6992.	4.5	35
60	Strong Paramagnetism of Gold Nanoparticles Deposited on a <i>Sulfolobus acidocaldarius</i> S Layer. <i>Physical Review Letters</i> , 2012, 109, 247203.	2.9	33
61	Synthesis and characterization of ultra-small magnetic FeNi/G and NiCo/G nanoparticles. <i>Nanotechnology</i> , 2012, 23, 085601.	1.3	33
62	Three-dimensional core-shell ferromagnetic nanowires grown by focused electron beam induced deposition. <i>Nanotechnology</i> , 2016, 27, 285302.	1.3	33
63	Giant planar Hall effect in epitaxial Fe_3Si films and its temperature dependence. <i>Physical Review B</i> , 2008, 78, .	3.2	32
64	Direct and converse piezoelectric responses at the nanoscale from epitaxial BiFeO_3 thin films grown by polymer assisted deposition. <i>Nanoscale</i> , 2018, 10, 20155-20161.	2.8	32
65	Structural and Hydrogen Storage Properties of Y_2Ni_7 Deuterides Studied by Neutron Powder Diffraction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12218-12225.	1.5	31
66	Magnetic properties of $\text{Fe}^{\bullet}\text{MgO}$ granular multilayers prepared by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2009, 105, 063909.	1.1	30
67	Magnetic deflagration in Gd_5Si_4 . <i>Physical Review B</i> , 2010, 81, .	1.1	29
68	Platinum Electrodeposition on Unsupported Single Wall Carbon Nanotubes and Its Application as Methane Sensing Material. <i>Journal of the Electrochemical Society</i> , 2013, 160, H98-H104.	1.3	29
69	Purified and Crystalline Three-Dimensional Electron-Beam-Induced Deposits: The Successful Case of Cobalt for High-Performance Magnetic Nanowires. <i>ACS Applied Nano Materials</i> , 2018, 1, 38-46.	2.4	29
70	NanoSQUID Magnetometry on Individual As-grown and Annealed Co Nanowires at Variable Temperature. <i>Nano Letters</i> , 2018, 18, 7674-7682.	4.5	29
71	Tunable resistivity exponents in the metallic phase of epitaxial nickelates. <i>Nature Communications</i> , 2020, 11, 2949.	5.8	29
72	Solution phase van der Waals epitaxy of ZnO wire arrays. <i>Nanoscale</i> , 2013, 5, 7242.	2.8	27

#	ARTICLE	IF	CITATIONS
73	Cluster-glass dynamics of the Griffiths phase in $\text{Tb}_{1-x}\text{Mn}_x$ thin films. Physical Review B, 2019, 99, .	1.1	25
74	Magnetic behavior of NiCu nanowire arrays: Compositional, geometry and temperature dependence. Journal of Applied Physics, 2014, 116, .	1.1	26
75	Spin configuration in isolated FeCoCu nanowires modulated in diameter. Nanotechnology, 2015, 26, 395702.	1.3	26
76	Phase control studies in Gd ₅ Si ₂ Ge ₂ giant magnetocaloric compound. Journal of Alloys and Compounds, 2012, 529, 89-95.	2.8	25
77	Quantitative in situ magnetization reversal studies in Lorentz microscopy and electron holography. Ultramicroscopy, 2013, 134, 144-154.	0.8	25
78	Atomic Scale Structure and Reduction of Cerium Oxide at the Interface with Platinum. Advanced Materials Interfaces, 2015, 2, 1500375.	1.9	25
79	Oxygen vacancies in strained SrTiO_3 thin films: Formation enthalpy and manipulation. Physical Review B, 2017, 95, .	2.9	24
80	Customized MFM probes based on magnetic nanorods. Nanoscale, 2020, 12, 10090-10097.	2.8	25
81	Magnetic and crystal structures of $\text{Er}_5(\text{Si}_x\text{Ge}_{1-x})_4$. Journal of Physics Condensed Matter, 2006, 18, 3937-3950.	0.7	24
82	Electronic Degeneracy and Intrinsic Magnetic Properties of Epitaxial Nb_xS_2 Films Controlled by Defects. Physical Review Letters, 2015, 115, 166801.	2.9	24
83	Optoelectronic Properties of InAlN/GaN Distributed Bragg Reflector Heterostructure Examined by Valence Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2012, 18, 1143-1154.	0.2	23
84	Identification of the atomic scale structure of the La _{0.65} Nd _{0.15} Mg _{0.20} Ni _{3.5} alloy synthesized by spark plasma sintering. Intermetallics, 2013, 32, 103-108.	1.8	23
85	Optimized cobalt nanowires for domain wall manipulation imaged by <i>in situ</i> Lorentz microscopy. Applied Physics Letters, 2013, 102, .	1.5	23
86	Screening of the quantum-confined Stark effect in AlN/GaN nanowire superlattices by germanium doping. Applied Physics Letters, 2014, 104, .	1.5	23
87	Influence of the shape and surface oxidation in the magnetization reversal of thin iron nanowires grown by focused electron beam induced deposition. Beilstein Journal of Nanotechnology, 2015, 6, 1319-1331.	1.5	23
88	Untangling Electrostatic and Strain Effects on the Polarization of Ferroelectric Superlattices. Advanced Functional Materials, 2016, 26, 6446-6453.	7.8	23
89	Nanoalloying in real time. A high resolution STEM and computer simulation study. Nanoscale, 2011, 3, 5013.	2.8	22
90	A new linear transfer theory and characterization method for image detectors. Part II: Experiment. Ultramicroscopy, 2012, 115, 78-87.	0.8	22

#	ARTICLE	IF	CITATIONS
91	Te-seeded growth of few-quintuple layer Bi ₂ Te ₃ nanoplates. Nano Research, 2014, 7, 1243-1253.	5.8	22
92	Epitaxial Stabilization of the Perovskite Phase in (Sr _{1-x} Ba _x)MnO ₃ Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 23967-23977.	4.0	22
93	Structural and magnetic properties of HoMn_5Si_2 . Physical Review B, 2008, 77, .		
94	Electrochemical promotion of Pt nanoparticles dispersed on a diamond-like carbon matrix: A novel electrocatalytic system for H ₂ production. Journal of Catalysis, 2013, 307, 18-26.	3.1	21
95	Exciton footprint of self-assembled AlGaAs quantum dots in core-shell nanowires. Physical Review B, 2014, 90, .	1.1	21
96	Formation of strained interfaces in AlSb/InAs multilayers grown by molecular beam epitaxy for quantum cascade lasers. Journal of Applied Physics, 2015, 118, .	1.1	21
97	Unveiling the (De)coupling of magnetostructural transition nature in magnetocaloric R ₅ Si ₂ Ge ₂ (R= Tb, Tj). ETOq1 1.0, 784314	1.5	20
98	Focused electron beam induced etching of titanium with XeF ₂ . Nanotechnology, 2011, 22, 265304.	1.3	20
99	Magnetic properties of optimized cobalt nanospheres grown by focused electron beam induced deposition (FEBID) on cantilever tips. Beilstein Journal of Nanotechnology, 2017, 8, 2106-2115.	1.5	20
100	Evidence for a coupled magnetic-crystallographic transformation in Nd ₅ (Si _{0.6} Ge _{0.4}) ₄ . Physical Review B, 2004, 70, .	1.1	19
101	Phase Competitions behind the Giant Magnetic Entropy Variation: Gd ₅ Si ₂ Ge ₂ and Tb ₅ Si ₂ Ge ₂ Case Studies. Entropy, 2014, 16, 3813-3831.	1.1	19
102	Abrupt GaP/Si hetero-interface using birstepped Si buffer. Applied Physics Letters, 2015, 107, .	1.5	19
103	Highly strained AlAs-type interfaces in InAs/AlSb heterostructures. Applied Physics Letters, 2016, 108, .	1.5	19
104	Independent Control of the Magnetization in Ferromagnetic La _{2/3} Sr _{1/3} MnO ₃ /SrTiO ₃ /LaCoO ₃ Heterostructures Achieved by Epitaxial Lattice Mismatch. Nano Letters, 2016, 16, 1736-1740.	4.5	19
105	Magnetic Shape Memory Turns to Nano: Microstructure Controlled Actuation of Free-Standing Nanodisks. Small, 2018, 14, e1803027.	5.2	19
106	Effect of metallic buffer layers on the antiphase boundary density of epitaxial Fe ₃ O ₄ . Journal of Applied Physics, 2008, 104, .	1.1	18
107	Tunneling magnetoresistance in Fe/MgO granular multilayers. Journal of Applied Physics, 2010, 107, 033704.	1.1	18
108	Understanding the role played by Fe on the tuning of magnetocaloric effect in Tb ₅ Si ₂ Ge ₂ . Applied Physics Letters, 2011, 98, .	1.5	18

#	ARTICLE	IF	CITATIONS
109	High temperature finite-size effects in the magnetic properties of Ni nanowires. Journal of Applied Physics, 2012, 112, 073906.	1.1	18
110	The Growth of Ultralong ZnTe Micro/Nanostructures: The Influence of Polarity and Twin Direction on the Morphogenesis of Nanobelts and Nanosheets. Crystal Growth and Design, 2013, 13, 2590-2596.	1.4	18
111	Retrieving the electronic properties of silicon nanocrystals embedded in a dielectric matrix by low-loss EELS. Nanoscale, 2014, 6, 14971-14983.	2.8	18
112	Assemblies of magnetite nanoparticles extracted from magnetotactic bacteria: A magnetic study. Applied Physics Letters, 2016, 108, .	1.5	18
113	Nanowire Magnetic Force Sensors Fabricated by Focused-Electron-Beam-Induced Deposition. Physical Review Applied, 2020, 13, .	1.5	18
114	Transport and magnetic study of the spin reorientation transition in the Tb ₅ (Si _{0.5} Ge _{0.5}) ₄ magnetocaloric compound. Journal of Physics Condensed Matter, 2005, 17, 4941-4949.	0.7	17
115	Critical magnetic behavior of magnetocaloric materials with the Gd ₅ Si ₄ -type structure. Journal of Applied Physics, 2013, 113, .	1.1	17
116	In situ real-time annealing of ultrathin vertical Fe nanowires grown by focused electron beam induced deposition. Acta Materialia, 2019, 174, 379-386.	3.8	17
117	Effects of pressure on the magnetic and crystallographic structure of Er ₅ Si ₄ . Physical Review B, 2006, 74, .	1.1	16
118	Magnetocaloric effect of $Er_{5-x}Ge_xSi_4$ under hydrostatic pressure. Physical Review B, 2009, 79, .	1.1	16
119	High-Yield Production of Long Branched Au Nanoparticles Characterized by Atomic Resolution Transmission Electron Microscopy. Crystal Growth and Design, 2011, 11, 4538-4543.	1.4	16
120	Enhanced Magnetotransport in Nanopatterned Manganite Nanowires. Nano Letters, 2014, 14, 423-428.	4.5	16
121	Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. Nanoscale, 2015, 7, 7717-7725.	2.8	16
122	All-Carbon Electrode Molecular Electronic Devices Based on Langmuir-Blodgett Monolayers. Small, 2017, 13, 1603207.	5.2	16
123	Epitaxial La _{0.7} Sr _{0.3} MnO ₃ thin films on silicon with excellent magnetic and electric properties by combining physical and chemical methods. Science and Technology of Advanced Materials, 2018, 19, 702-710.	2.8	16
124	Transmission XMCD-PEEM imaging of an engineered vertical FEBID cobalt nanowire with a domain wall. Nanotechnology, 2018, 29, 045704.	1.3	16
125	Magnetic-field-induced structural transformation in Er ₅ Si ₄ . Physical Review B, 2006, 74, .	1.1	15
126	Tailoring the magnetism of Tb ₅ Si ₄ Ge ₂ . Physical Review B, 2009, 79, .	1.1	15

#	ARTICLE	IF	CITATIONS
127	Elastic strains at interfaces in InAs/AlSb multilayer structures for quantum cascade lasers. Applied Physics Letters, 2014, 104, 031907.	1.5	15
128	Structural and Magnetic Characterization of FeCoCu/Cu Multilayer Nanowire Arrays. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	15
129	Aliovalent Doping in Colloidal Quantum Dots and Its Manifestation on Their Optical Properties: Surface Attachment versus Structural Incorporation. Chemistry of Materials, 2016, 28, 5384-5393.	3.2	15
130	Room-temperature AFM Electric-field-induced Topotactic Transformation between Perovskite and Brownmillerite SrFeO _x with Sub-micrometer Spatial Resolution. Advanced Functional Materials, 2019, 29, 1901984.	7.8	15
131	Half-hedgehog spin textures in sub-100 nm soft magnetic nanodots. Nanoscale, 2020, 12, 18646-18653.	2.8	15
132	Growth of Sr ₂ CrReO ₆ epitaxial thin films by pulsed laser deposition. Journal of Magnetism and Magnetic Materials, 2010, 322, 1217-1220.	1.0	14
133	Improvement of domain wall conduit properties in cobalt nanowires by global gallium irradiation. Nanotechnology, 2013, 24, 345703.	1.3	14
134	Simple hydrothermal synthesis method for tailoring the physicochemical properties of ZnO: morphology, surface area and polarity. RSC Advances, 2014, 4, 31166.	1.7	14
135	Strain-induced spatially indirect exciton recombination in zinc-blende/wurtzite CdS heterostructures. Nano Research, 2015, 8, 3035-3044.	5.8	14
136	Controlling the Electrical and Magnetoelectric Properties of Epitaxially Strained Sr _{1-x} Ba _x MnO ₃ Thin Films. Advanced Materials Interfaces, 2017, 4, 1601040.	1.9	14
137	Simulation of STEM-HAADF Image Contrast of Ruddlesden-Popper Faulted LaNiO ₃ Thin Films. Journal of Physical Chemistry C, 2017, 121, 9300-9304.	1.5	14
138	Suspended tungsten-based nanowires with enhanced mechanical properties grown by focused ion beam induced deposition. Nanotechnology, 2017, 28, 445301.	1.3	14
139	Focused-Electron-Beam Engineering of 3D Magnetic Nanowires. Nanomaterials, 2021, 11, 402.	1.9	14
140	Multi-step and anomalous reproducible behaviour of the electrical resistivity near the first-order magnetostructural transition of Gd ₅ (Si _{0.1} Ge _{0.9}) ₄ . Journal of Physics Condensed Matter, 2005, 17, 2461-2476.	0.7	13
141	Magnetic and crystal structure of Ho ₅ (SixGe _{1-x}) ₄ studied by neutron diffraction. Physical Review B, 2009, 80, .	1.1	13
142	Enhanced exchange and reduced magnetization of Gd in an Fe/Gd/Fe trilayer. Physical Review B, 2011, 84, .	1.1	13
143	Direct Monolithic Integration of Vertical Single Crystalline Octahedral Molecular Sieve Nanowires on Silicon. Chemistry of Materials, 2014, 26, 1019-1028.	3.2	13
144	Hybrid YBa ₂ Cu ₃ O ₇ Superconducting-Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. Advanced Electronic Materials, 2017, 3, 1700037.	2.6	13

#	ARTICLE	IF	CITATIONS
145	M-SrFe ₁₂ O ₁₉ and ferrihydrite-like ultrathin nanoplatelets as building blocks for permanent magnets: HAADF-STEM study and magnetic properties. <i>Journal of Solid State Chemistry</i> , 2018, 264, 124-133.	1.4	13
146	High Volume-Per-Dose and Low Resistivity of Cobalt Nanowires Grown by Ga ⁺ Focused Ion Beam Induced Deposition. <i>Nanomaterials</i> , 2019, 9, 1715.	1.9	13
147	On the structure of bimetallic noble metal nanoparticles as revealed by aberration corrected scanning transmission electron microscopy (STEM). <i>Micron</i> , 2012, 43, 557-564.	1.1	12
148	Diameter modulation of 3D nanostructures in focused electron beam induced deposition using local electric fields and beam defocus. <i>Nanotechnology</i> , 2019, 30, 505302.	1.3	12
149	Thermopower and electrical resistivity behavior near the martensitic transition in Gd ₅ (SixGe _{1-x}) ₄ magnetocaloric compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 661-664.	1.0	11
150	Determination of the percolation threshold in Fe/MgO magnetic granular multilayers. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 056003.	0.7	11
151	Chemical synthesis of oriented ferromagnetic LaSr ₂ Å-4 manganese oxide molecular sieve nanowires. <i>Chemical Communications</i> , 2012, 48, 6223.	2.2	11
152	Apparent auxetic to non-auxetic crossover driven by Co ²⁺ redistribution in CoFe ₂ O ₄ thin films. <i>APL Materials</i> , 2019, 7, .	2.2	11
153	Magnetic ordering in the monoclinic structure of Nd ₅ Si _{1.45} Ge _{2.55} and Pr ₅ Si _{1.5} Ge _{2.5} studied by means of neutron powder diffraction. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 7427-7437.	0.7	10
154	Publisher's Note: Pressure Enhancement of the Giant Magnetocaloric Effect in Tb ₅ Si ₂ Ge ₂ [Phys. Rev. Lett. 93, 137201 (2004)]. <i>Physical Review Letters</i> , 2004, 93, .	2.9	10
155	Magnetic-field-induced strain in Ni ₂ MnGa melt-spun ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 2047-2048.	1.0	10
156	Tunneling magnetoresistance in epitaxial discontinuous Fe/MgO multilayers. <i>Applied Physics Letters</i> , 2011, 98, 122502.	1.5	10
157	Magnetism and magnetocaloric effect of single-crystal Er ₅ Si _{1.5} Ge _{2.5} under pressure. <i>Physical Review B</i> , 2012, 85, .	1.1	10
158	Insight into the Compositional and Structural Nano Features of AlN/GaN DBRs by EELS-HAADF. <i>Microscopy and Microanalysis</i> , 2013, 19, 698-705.	0.2	10
159	Tunnel Conduction in Epitaxial Bilayers of Ferromagnetic LaCoO ₃ /La _{2/3} Sr _{1/3} MnO ₃ Deposited by a Chemical Solution Method. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21279-21285.	4.0	10
160	High-resolution imaging of remanent state and magnetization reversal of superdomain structures in high-density cobalt antidot arrays. <i>Nanotechnology</i> , 2014, 25, 385703.	1.3	10
161	Evidence of a minority monoclinic LaNiO _{2.5} phase in lanthanum nickelate thin films. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9137-9142.	1.3	10
162	Engineering the magnetic order in epitaxially strained Sr _{1-x} BaxMnO ₃ perovskite thin films. <i>APL Materials</i> , 2019, 7, .	2.2	10

#	ARTICLE	IF	CITATIONS
163	Electron scattering processes in Ho ₅ (SixGe _{1-x}) ₄ compounds: Electrical resistivity studies. Physical Review B, 2011, 83, .	1.1	9
164	Interfacial effects on the tunneling magnetoresistance in $L_{a_{0.75}Mg_{0.3}Ni_{3.67}O_4}$ thin films. Physical Review B, 2011, 83, .	1.1	9
165	Structural and magnetic properties of $La_{0.75}Mg_{0.3}Ni_{3.67}O_4$ thin films. Physical Review B, 2011, 83, .	1.1	9
166	Growth and structural characterization of strained epitaxial $La_{0.75}Mg_{0.3}Ni_{3.67}O_4$ thin films. Physical Review B, 2011, 83, .	0.9	9
167	Transport properties near the magneto/structural transition of Tb ₅ Si ₂ Ge ₂ . Journal of Non-Crystalline Solids, 2008, 354, 5298-5300.	1.5	8
168	Investigation of the Phase Occurrence, H Sorption Properties, and Electrochemical Behavior in the Composition Ranges La _{0.75-0.80} Mg _{0.30-0.38} Ni _{3.67} . Journal of Physical Chemistry C, 2014, 118, 27808-27814.	1.5	8
169	Structural and magnetic properties of He ⁺ irradiated Co ₂ MnSi Heusler alloys. Materials Research Express, 2016, 3, 046101.	0.8	8
170	Orientation symmetry breaking in self-assembled Ce _{1-x} Gd _x O _{2-y} nanowires derived from chemical solutions. RSC Advances, 2016, 6, 97226-97236.	1.7	8
171	Topotactic transformation in SrFeO ₃ triggered by low-dose Ga ⁺ focused ion irradiation. Applied Physics Letters, 2020, 116, .	1.5	8
172	Reduction of thermal conductivity in ferroelectric SrTiO ₃ thin films. Physical Review Materials, 2020, 4, .	1.1	8
173	Fe ₃ O ₄ /MgO/Fe Heteroepitaxial Structures for Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2008, 44, 2862-2864.	1.2	7
174	Pressure effect on phase transitions and magnetocaloric effect in Gd ₅ Ge ₄ . Journal of Applied Physics, 2009, 105, 07A934.	1.1	7
175	Structural and magnetic properties of amorphous Co-W alloyed nanoparticles. Physical Review B, 2011, 84, .	1.1	7
176	Nanoscale mapping of plasmon resonances of functional multibranching gold nanoparticles. Chemical Communications, 2012, 48, 8667.	2.2	7
177	Morphology of the asymmetric iron-silicon interfaces. Journal of Alloys and Compounds, 2015, 627, 136-145.	2.8	7
178	Transport and magnetic properties of the Er ₅ Si ₄ compound. Journal of Alloys and Compounds, 2006, 423, 66-68.	2.8	6
179	Fe ₃ O ₄ Epitaxial Thin Films and Heterostructures: Magnetotransport and Magnetic Properties. Advances in Science and Technology, 2010, 67, 82-91.	0.2	6
180	Effects of pressure on the magnetic-structural and Griffiths-like transitions in Dy ₅ Si ₃ Ge. Physical Review B, 2013, 88, .	1.1	6

#	ARTICLE	IF	CITATIONS
181	Iron silicide formation at different layers of (Fe/Si) ₃ multilayered structures determined by conversion electron Mössbauer spectroscopy. Journal of Applied Physics, 2014, 116, 023907.	1.1	6
182	Building oriented nano-sheets in thin films of Co TM (TM = V, Cr, Cu, Zn, Cd, Hf) and the generation and enhancement of their magnetic anisotropy. Journal of Alloys and Compounds, 2016, 664, 695-706.	2.8	6
183	Magnetic anisotropy of epitaxial Co ₂ Fe-Ge Heusler alloy films on MgO (100) substrates. AIP Advances, 2017, 7, 055831.	0.6	6
184	Effect of rare earth ion in the thermopower of compounds with and R=Gd and Tb. Journal of Magnetism and Magnetic Materials, 2007, 310, e580-e582.	1.0	5
185	Applications of Aberration-Corrected Scanning Transmission Electron Microscopy and Electron Energy Loss Spectroscopy to Complex Oxide Materials. , 2011, , 429-466.		5
186	Thermomagnetic behaviour and compositional irreversibility on (Fe/Si) ₃ multilayer films. Journal of Magnetism and Magnetic Materials, 2014, 364, 24-33.	1.0	5
187	Structurally Oriented Nano-Sheets in Co Thin Films: Changing Their Anisotropic Physical Properties by Thermally-Induced Relaxation. Materials, 2017, 10, 1390.	1.3	5
188	Relaxation Mechanisms and Strain-Controlled Oxygen Vacancies in Epitaxial SrMnO ₃ Films. ACS Omega, 2021, 6, 13144-13152.	1.6	5
189	Highly-efficient growth of cobalt nanostructures using focused ion beam induced deposition under cryogenic conditions: application to electrical contacts on graphene, magnetism and hard masking. Nanoscale Advances, 2021, 3, 5656-5662.	2.2	5
190	Magnetic Functionalization of Scanning Probes by Focused Electron Beam Induced Deposition Technology. Magnetochemistry, 2021, 7, 140.	1.0	5
191	Nanoparticles of Ni in ZnO single crystal matrix. European Physical Journal B, 2013, 86, 1.	0.6	4
192	Quantitative parameters for the examination of InGaN QW multilayers by low-loss EELS. Physical Chemistry Chemical Physics, 2016, 18, 23264-23276.	1.3	4
193	Probing the morphology of epitaxial Fe/MgO discontinuous multilayers by magnetometric technique. Journal of Magnetism and Magnetic Materials, 2019, 474, 369-373.	1.0	4
194	Quantification of Stacking Faults in $A_{1-x}Ni_x$ (A = Rare Earth or Mg, $x = 3.5$) Tj ETQq0,0,0 rgBT /Overlock 1	3.2	4
195	Structural and compositional properties of Er-doped silicon nanoclusters/oxides for multilayered photonic devices studied by STEM-EELS. Nanoscale, 2013, 5, 9963.	2.8	3
196	Heteroepitaxial ZnO films on diamond: Optoelectronic properties and the role of interface polarity. Journal of Applied Physics, 2014, 115, 213508.	1.1	3
197	Hydrostatic Pressure Effects in the Magnetocaloric Compounds R ₅ (SixGe _{1-x}) ₄ . , 2008, , 241-253.		3
198	Indium segregation in Gd ₅ (Si _x Ge _{4-x}) magnetocaloric materials. Journal of Alloys and Compounds, 2022, 893, 162245.	2.8	3

#	ARTICLE	IF	CITATIONS
199	Magnetoelastic properties of Pr ₂ Co ₁₇ ~Fe compounds. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1887-E1889.	1.0	2
200	Morphology and magnetic properties of W-capped Co nanoparticles. Journal of Applied Physics, 2010, 107, 09B508.	1.1	2
201	Role of growth mode in the formation of magnetic properties of InMnAs grown by MOVPE. Journal of Crystal Growth, 2011, 318, 576-579.	0.7	2
202	Crystal engineering and ferroelectricity at the nanoscale in epitaxial 1D manganese oxide on silicon. Nanoscale, 2021, 13, 9615-9625.	2.8	2
203	Vanadium trapped by oblique nano-sheets to preserve the anisotropy in Co~V thin films at high temperature. Journal of Alloys and Compounds, 2022, 911, 164950.	2.8	2
204	(V)EELS Characterization of InAlN/GaN Distributed Bragg Reflectors. Journal of Physics: Conference Series, 2011, 326, 012014.	0.3	1
205	Magnetic Properties of Epitaxial Discontinuous Fe/MgO Multilayers. Journal of Nanoscience and Nanotechnology, 2012, 12, 7505-7509.	0.9	1
206	On the nature of the (de)coupling of the magnetostructural transition in Er ₅ Si ₄ . Physica Status Solidi (B): Basic Research, 2017, 254, 1700143.	0.7	1
207	Pressure dependence of the Griffiths-like phase in 5:4 intermetallics. Physical Review B, 2020, 102, .	1.1	1
208	Pressure effect on magnetic and magnetotransport properties of intermetallic and colossal magnetoresistance oxide compounds. Journal of Physics Condensed Matter, 2005, 17, S3035-S3055.	0.7	0
209	Magnetocaloric properties of Nd ₅ Si _{1.45} Ge _{2.55} compound under high hydrostatic pressure. High Pressure Research, 2006, 26, 495-498.	0.4	0
210	Influence of Au electrodes on the properties of SrTiO ₃ /La _{0.67} Sr _{0.33} MnO ₃ /Au magnetic tunnel junctions studied by aberration-corrected STEM-EELS. Microscopy and Microanalysis, 2008, 14, 1392-1393.	0.2	0
211	Morphology, magnetic and resonance properties of Fe/MgO multilayers. Journal of Physics: Conference Series, 2011, 303, 012052.	0.3	0
212	Role of magnetic anisotropy on the magnetic properties of Ni nanoclusters embedded in a ZnO matrix. Journal of Applied Physics, 2014, 116, 033916.	1.1	0
213	Local Chemical and Deformation Profiles in InAs/AlSb Multilayer Structures for Quantum Cascade Lasers. Microscopy and Microanalysis, 2015, 21, 1925-1926.	0.2	0
214	Insights on the origin of the TbGe magnetocaloric effect. Physica B: Condensed Matter, 2017, 513, 72-76.	1.3	0
215	Probing Strain-Induced Phenomena in Low Dimensionality Multiferroic Oxides. Microscopy and Microanalysis, 2017, 23, 1726-1727.	0.2	0
216	Observation of unexpected uniaxial magnetic anisotropy in La _{2/3} Sr _{1/3} MnO ₃ films by a BaTiO ₃ overlayer in an artificial multiferroic bilayer. Beilstein Journal of Nanotechnology, 2020, 11, 651-661.	1.5	0

#	ARTICLE	IF	CITATIONS
217	In Situ Lorentz Microscopy and Electron Holography Magnetization Studies of Ferromagnetic Focused Electron Beam Induced Nanodeposits. , 2017 , 305-338.		0