

# V S Amaral

## List of Publications by Year in descending order

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270  
papers

6,678  
citations

145106

33  
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87275

74  
g-index

277  
all docs

277  
docs citations

277  
times ranked

8293  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the drug multimodal release through a co-assembly strategy based on magnetic gels. <i>Nanoscale</i> , 2022, 14, 5488-5500.	2.8	9
2	Experimental and numerical analysis of the thermal performance of polyurethane foams panels incorporating phase change material. <i>Energy</i> , 2021, 216, 119213.	4.5	22
3	Enhanced strain-induced magnetoelectric coupling in polarization-free Fe/BaTiO <sub>3</sub> heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16053-16059.	1.3	0
4	Interplay of Magnetic Properties and Doping in Epitaxial Films of $\text{REFeO}_3$ Multiferroic Oxides. <i>Small</i> , 2021, 17, e2005700.	5.2	5
5	Free Molecule Studies by Perturbed Angular Correlation: A New Path to Accurate Nuclear Quadrupole Moments. <i>Physical Review Letters</i> , 2021, 126, 103001.	2.9	15
6	The electric field gradient as a signature of the binding and the local structure of adatoms on graphene. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	2
7	A geometry-independent moment correction method for the MPMS3 SQUID-based magnetometer. <i>Measurement Science and Technology</i> , 2021, 32, 105602.	1.4	12
8	Magnetoliposomes Based on Shape Anisotropic Calcium/Magnesium Ferrite Nanoparticles as Nanocarriers for Doxorubicin. <i>Pharmaceutics</i> , 2021, 13, 1248.	2.0	14
9	Direct measurement and imaging of magnetocaloric effect inhomogeneities at the microscale in Ni <sub>44</sub> Co <sub>6</sub> Mn <sub>30</sub> Ga <sub>20</sub> with infrared thermography. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 538, 168283.	1.0	4
10	Effective production of multifunctional magnetic-sensitive biomaterial by an extrusion-based additive manufacturing technique. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 015011.	1.7	10
11	Disentangling the phase sequence and correlated critical properties in $\text{Bi}_{1-x}\text{La}_x\text{Fe}_{1-y}\text{Mn}_y\text{O}_3$ by structural studies. <i>Physical Review B</i> , 2021, 104, .	1.1	0
12	Development of polyurethane foam incorporating phase change material for thermal energy storage. <i>Journal of Energy Storage</i> , 2020, 28, 101177.	3.9	23
13	Dehydropeptide-based plasmonic magnetogels: a supramolecular composite nanosystem for multimodal cancer therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 45-64.	2.9	27
14	Changing the magnetic states of an Fe/BaTiO <sub>3</sub> interface through crystal field effects controlled by strain. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18050-18059.	1.3	1
15	Development of structural layers PVC incorporating phase change materials for thermal energy storage. <i>Applied Thermal Engineering</i> , 2020, 179, 115707.	3.0	11
16	Enhancement of resistivity and magnetization of Bi <sub>1-x</sub> LaxFe <sub>1-y</sub> MnyO <sub>3</sub> ceramics by composition optimization. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155404.	2.8	4
17	Exploiting Radioactive Isotopes: from Pollutant Tracking to Solid State Studies Using a Combined $\alpha$ and PAC Approach. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1822-1833.	1.0	0
18	Stealth Magnetoliposomes Based on Calcium-Substituted Magnesium Ferrite Nanoparticles for Curcumin Transport and Release. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3641.	1.8	29

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19	Improvement of grain alignment in Bi <sub>2</sub> Sr <sub>2</sub> Co <sub>1.8</sub> O <sub>y</sub> thermoelectric through the electrically assisted laser floating zone. <i>Materials Research Bulletin</i> , 2020, 130, 110933.	2.7	3
20	Broad Multi-Parameter Dimensioning of Magnetocaloric Systems Using Statistical Learning Classifiers. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	5
21	<i>in</i> Silico Thermodynamic Description of Heusler Compounds Applied to Magnetocalorics by Monte Carlo Simulations Starting from <i>Ab</i> Initio. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1271-1277.	1.0	1
22	Constrained titanohematite formation at BTO/Fe interfaces deposited by RF-sputtering. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154244.	2.8	0
23	Hg adatoms on graphene: A first-principles study. <i>JPhys Materials</i> , 2020, 4, 015002.	1.8	0
24	Can contaminated waters or wastewater be alternative sources for technology-critical elements? The case of removal and recovery of lanthanides. <i>Journal of Hazardous Materials</i> , 2019, 380, 120845.	6.5	19
25	Synthesis of thermoelectric magnesium-silicide pastes for 3D printing, electrospinning and low-pressure spray. <i>Materials for Renewable and Sustainable Energy</i> , 2019, 8, 21.	1.5	7
26	Magnetic Nanoparticles of Zinc/Calcium Ferrite Decorated with Silver for Photodegradation of Dyes. <i>Materials</i> , 2019, 12, 3582.	1.3	14
27	Magnetoliposomes Containing Calcium Ferrite Nanoparticles for Applications in Breast Cancer Therapy. <i>Pharmaceutics</i> , 2019, 11, 477.	2.0	27
28	Novel magnetic stimulation methodology for low-current implantable medical devices. <i>Medical Engineering and Physics</i> , 2019, 73, 77-84.	0.8	9
29	Temperature dependent thermal conductivity of magnetocaloric materials: Impact assessment on the performance of active magnetic regenerative refrigerators. <i>International Journal of Refrigeration</i> , 2019, 106, 181-187.	1.8	8
30	Modeling and computing magnetocaloric systems using the Python framework heatrapy. <i>International Journal of Refrigeration</i> , 2019, 106, 278-282.	1.8	10
31	Electric Field Induced Room Temperature Null to High Spin State Switching: A Computational Prediction. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900005.	1.3	3
32	Cooling by sweeping: A new operation method to achieve ferroic refrigeration without fluids or thermally switchable components. <i>International Journal of Refrigeration</i> , 2019, 101, 98-105.	1.8	9
33	Link of Weak Ferromagnetism to Emergence of Topological Vortices in Bulk Ceramics of h-LuMnxO <sub>3</sub> Manganite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6158-6166.	1.5	2
34	On the Optimization of Magneto-Volume Coupling for Practical Applied Field Magnetic Refrigeration. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800419.	0.7	11
35	Enhancing the temperature span of thermal switch-based solid state magnetic refrigerators with field sweeping. <i>International Journal of Energy Research</i> , 2019, 43, 742-748.	2.2	11
36	Improvement of thermoelectric properties of Ca <sub>0.9</sub> Gd <sub>0.1</sub> MnO <sub>3</sub> by powder engineering through K <sub>2</sub> CO <sub>3</sub> additions. <i>Journal of Materials Science</i> , 2019, 54, 3252-3261.	1.7	4

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37	Optical fibre fuse effect based sensor for magnetic field monitoring. , 2019, , .		3
38	Enhancement of the dielectric permittivity and magnetic properties of Dy substituted strontium titanate ceramics. Journal of the European Ceramic Society, 2018, 38, 605-611.	2.8	18
39	Heatrapy: A flexible Python framework for computing dynamic heat transfer processes involving caloric effects in 1.5D systems. SoftwareX, 2018, 7, 373-382.	1.2	13
40	Nanoscale analysis of dispersive ferroelectric domains in bulk of hexagonal multiferroic ceramics. Materials Characterization, 2018, 145, 347-352.	1.9	2
41	Enhancement of physical and reaction to fire properties of crude glycerol polyurethane foams filled with expanded graphite. Polymer Testing, 2018, 69, 199-207.	2.3	55
42	Ultra sensitive quantification of Hg <sup>2+</sup> sorption by functionalized nanoparticles using radioactive tracker spectroscopy. Microchemical Journal, 2018, 138, 418-423.	2.3	6
43	Development of a biocompatible magnetic nanofluid by incorporating SPIONs in Amazonian oils. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 172, 135-146.	2.0	18
44	Interaction of multiferroic properties and interfaces in hexagonal LuMnO <sub>3</sub> ceramics. Journal Physics D: Applied Physics, 2017, 50, 055304.	1.3	5
45	Dielectric spectroscopy and magnetometry investigation of Gd-doped strontium titanate ceramics. Journal of the European Ceramic Society, 2017, 37, 2391-2397.	2.8	18
46	Novel multiferroic state and ME enhancement by breaking the AFM frustration in LuMn <sup>1-x</sup> O <sub>3</sub> . Physical Chemistry Chemical Physics, 2017, 19, 1335-1341.	1.3	10
47	Volume dependence of magnetic properties in $\text{Co}_{1-x}\text{Mn}_x$ thin films. Journal of Magnetism and Magnetic Materials, 2017, 428, 362-367.	1.0	7
48	Thickness dependence of microstructure in thin La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> films grown on (111) SrTiO <sub>3</sub> substrate. Journal Physics D: Applied Physics, 2017, 50, 395301.	1.3	5
49	Effect of lattice mismatch on the magnetic properties of nanometer-thick La <sub>0.9</sub> Ba <sub>0.1</sub> MnO <sub>3</sub> (LBM) films and LBM/BaTiO <sub>3</sub> /LBM heterostructures. Applied Surface Science, 2017, 425, 988-995.	3.1	5
50	Development of ferroelectric domains and topological defects in vacancy doped ceramics of h-LuMnO <sub>3</sub> . Journal of Applied Physics, 2017, 122, .	1.1	5
51	Interdiffusion Processes in High-Coercivity RF-Sputtered Alnico Thin Films on Si Substrates. Jom, 2017, 69, 1427-1431.	0.9	3
52	Towards conductive textiles: coating polymeric fibres with graphene. Scientific Reports, 2017, 7, 4250.	1.6	45
53	Insights into the physical properties of biobased polyurethane/expanded graphite composite foams. Composites Science and Technology, 2017, 138, 24-31.	3.8	49
54	Giant Strain and Induced Ferroelectricity in Amorphous BaTiO <sub>3</sub> Films under Poling. Materials, 2017, 10, 1107.	1.3	1

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55	First-Row-Transition Ion Metals(II)-EDTA Functionalized Magnetic Nanoparticles as Catalysts for Solvent-Free Microwave-Induced Oxidation of Alcohols. <i>Catalysts</i> , 2017, 7, 335.	1.6	7
56	Solvent-Free Microwave-Induced Oxidation of Alcohols Catalyzed by Ferrite Magnetic Nanoparticles. <i>Catalysts</i> , 2017, 7, 222.	1.6	34
57	Effect of processing conditions on the properties of recycled cathode ray tube glass foams. <i>Journal of Porous Materials</i> , 2016, 23, 1663-1669.	1.3	10
58	Nano-Localized Thermal Analysis and Mapping of Surface and Sub-Surface Thermal Properties Using Scanning Thermal Microscopy (SThM). <i>Microscopy and Microanalysis</i> , 2016, 22, 1270-1280.	0.2	15
59	The $^{68}\text{mCu}$ / $^{68}\text{Cu}$ isotope as a new probe for hyperfine studies: The nuclear moments. <i>Europhysics Letters</i> , 2016, 115, 62002.	0.7	7
60	Scanning Thermal Microscopy: Nano-localized Thermal Analysis and Mapping of Surface and Subsurface Thermal Properties. <i>Microscopy and Microanalysis</i> , 2016, 22, 2-3.	0.2	1
61	Assessing Segregation Effects on Multiferroic Properties of Antiferromagnetic-Weak Ferromagnetic Coupled Systems by Analytical HRTEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 58-59.	0.2	1
62	Breaking the geometric magnetic frustration in controlled off-stoichiometric $\text{LuMn}_{1+z}\text{O}_{3+\uparrow}$ compounds. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13519-13523.	1.3	4
63	Tailoring $\text{Ca}_3\text{Co}_4\text{O}_9$ microstructure and performances using a transient liquid phase sintering additive. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1025-1032.	2.8	38
64	Nanodomains Coupled to Ferroelectric Domains Induced by Lattice Distortion in Self-Doped $\text{LuMn}_2\text{O}_7$ Hexagonal Ceramics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21897-21904.	1.5	6
65	Magnetolectric effect probe through ppm Fe doping in $\text{BaTiO}_3$ . <i>Journal of Alloys and Compounds</i> , 2016, 661, 495-500.	2.8	6
66	High thermoelectric performance in $\text{Bi}_{2-x}\text{Pb}_x\text{Ba}_2\text{Co}_2\text{O}_y$ promoted by directional growth and annealing. <i>Journal of the European Ceramic Society</i> , 2016, 36, 67-74.	2.8	26
67	Crystal structure, magnetic and dielectric behavior of $\text{h-LuMn}_2\text{O}_7$ ceramics (0.95 $\leq x \leq$ 1.04). <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 395, 303-311.	1.0	10
68	Peculiar Magnetolectric Coupling in $\text{BaTiO}_3:\text{Fe}_{113\text{ppm}}$ Nanoscopic Segregations. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24741-24747.	4.0	9
69	Cobalt aluminate nanoparticles supported on MIL-101 structure: catalytic performance investigation. <i>RSC Advances</i> , 2015, 5, 4175-4183.	1.7	11
70	Thermodynamics of the 2-D Ising Model From a Random Path Sampling Method. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	7
71	Khronosaurus, an adventure in time. , 2014, , .		0
72	General Route to Synthesize of Metal (Ni, Co, Mn, Fe) Oxide Nanostructure and Their Optical and Magnetic Behaviour. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 4236-4244.	0.9	6

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73	Exchange bias beyond the superparamagnetic blocking temperature of the antiferromagnet in a Ni-NiO nanoparticulate system. Journal of Applied Physics, 2014, 115, .	1.1	23
74	Effect of Ni precursor solution concentration on the magnetic properties and exchange bias of Ni-NiO nanoparticulate systems. Journal of Applied Physics, 2014, 116, 093906.	1.1	4
75	Magnetovolume Effects in Heusler Compounds via First-Principles Calculations. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	7
76	Perturbed Angular Correlation Study of the Static and Dynamic Aspects of Cadmium and Mercury Atoms Inside and Attached to a C <sub>60</sub> Fullerene Cage. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 611-618.	0.7	2
77	<sup>L</sup> ocal probe studies in the weakly Jahn-Teller distorted La <sub>3.08</sub> MnO <sub>3</sub> manganite. Physica Status Solidi (B): Basic Research, 2014, 251, 565-568.	0.7	5
78	Disorder effects in giant magnetocaloric materials. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 971-974.	0.8	36
79	Local bias induced ferroelectricity in manganites with competing charge and orbital order states. Physical Chemistry Chemical Physics, 2014, 16, 4977-4981.	1.3	14
80	Unravelling the effect of SrTiO <sub>3</sub> antiferrodistortive phase transition on the magnetic properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Journal Physics D: Applied Physics, 2014, 47, 435002.	1.3	4
81	Non-aqueous sol-gel synthesis through a low-temperature solvothermal process of anatase showing visible-light photocatalytic activity. RSC Advances, 2014, 4, 46762-46770.	1.7	18
82	Formation stages of bcc (Fe <sub>44</sub> Co <sub>44</sub> )Sn <sub>12</sub> extended solid solution by mechanical alloying. Journal of Alloys and Compounds, 2014, 615, S559-S563.	2.8	8
83	Hyperfine local probe study of alkaline-earth manganites SrMnO <sub>3</sub> and BaMnO <sub>3</sub> . Journal of Physics Condensed Matter, 2014, 26, 215401.	0.7	8
84	Local probing of multiferroics: First-principles study of hyperfine parameters in YMnO <sub>3</sub> and YMn <sub>2</sub> O <sub>5</sub> . EPJ Web of Conferences, 2014, 75, 09002.	0.1	3
85	Structural and Electromagnetic Properties of Ni-Mn-Ga Thin Films Deposited on Si Substrates. EPJ Web of Conferences, 2014, 75, 03006.	0.1	0
86	Ratiometric highly sensitive luminescent nanothermometers working in the room temperature range. Applications to heat propagation in nanofluids. Nanoscale, 2013, 5, 7572.	2.8	87
87	Thermometry at the nanoscale using lanthanide-containing organic-inorganic hybrid materials. Journal of Luminescence, 2013, 133, 230-232.	1.5	56
88	Room temperature structure and multiferroic properties in Bi <sub>0.7</sub> La <sub>0.3</sub> FeO <sub>3</sub> ceramics. Journal of Alloys and Compounds, 2013, 554, 97-103.	2.8	32
89	Strain induced enhanced ferromagnetic behavior in inhomogeneous low doped La <sub>0.95</sub> Sr <sub>0.05</sub> MnO <sub>3</sub> . Applied Physics Letters, 2013, 102, .	1.5	4
90	Synthesis of cobalt aluminate nanopigments by a non-aqueous sol-gel route. Nanoscale, 2013, 5, 4277.	2.8	27

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91	Efficient sorbents based on magnetite coated with siliceous hybrid shells for removal of mercury ions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8134.	5.2	71
92	Jahn-Teller distortion relaxation across the $\text{LaMnO}_{3+\delta}$ phase diagram. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 385602.	0.7	6
93	Shell pressure on the core of $\text{MnO}/\text{MnO}_3$ core/shell nanoparticles. <i>Physical Review B</i> , 2013, 87, .	1.1	12
94	Organic-inorganic $\text{Eu}^{3+}/\text{Tb}^{3+}$ codoped hybrid films for temperature mapping in integrated circuits. <i>Frontiers in Chemistry</i> , 2013, 1, 9.	1.8	41
95	Structural transitions and unusual magnetic behavior in Mn-doped $\text{Bi}_{1-x}\text{La}_x\text{FeO}_3$ perovskites. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	28
96	Glassy magnetic phase driven by short-range charge and magnetic ordering in nanocrystalline $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ . <i>Journal of Applied Physics</i> , 2012, 112, 103907.	1.1	31
97	Enhanced ferromagnetism and glassy state in phase separated $\text{La}_{0.95}\text{Sr}_{0.05}\text{MnO}_3$ . <i>Journal of Applied Physics</i> , 2012, 112, 103907.	1.1	6
98	Dynamic off-centering of $\text{Cr}^{3+}$ ions and short-range magneto-electric clusters in $\text{CdCr}_2\text{S}_4$ . <i>Journal of Applied Physics</i> , 2012, 112, 103907.	1.1	28
99	Organic-inorganic hybrid materials based on iron(III)-polyoxotungstates and 1-butyl-3-methylimidazolium cations. <i>Dalton Transactions</i> , 2012, 41, 12145.	1.6	21
100	Thermometry at the nanoscale. <i>Nanoscale</i> , 2012, 4, 4799.	2.8	1,258
101	Ab initio study of the relation between electric polarization and electric field gradients in ferroelectrics. <i>Physical Review B</i> , 2012, 86, .	1.1	20
102	A-site disorder driven sharp field-induced transition and collapse of charge ordering in $\text{Sm}_{1/2}\text{Ca}_{1/2-x}\text{Sr}_x\text{MnO}_3$ . <i>Journal of Applied Physics</i> , 2012, 112, 073905.	1.1	6
103	Mn doping-induced structural and magnetic transformations in the antiferroelectric phase of the $\text{Bi}_{1-x}\text{Nd}_x\text{FeO}_3$ perovskites. <i>Journal of Applied Physics</i> , 2012, 112, 064105.	1.1	15
104	Tailoring the magnetism of $\text{Tb}_5\text{Si}_3\text{Ge}_2$ . <i>Journal of Applied Physics</i> , 2012, 112, 064105.	1.1	15
105	On the Curie temperature dependency of the magnetocaloric effect. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	67
106	Magnetic and electrical transport properties in the self-doped manganite $\text{La}_{0.9}\text{Mn}_{0.9}\text{M}_x\text{O}_3$ ( $M=\text{Mn}, \text{Zn}$ ). <i>Journal of Applied Physics</i> , 2012, 112, 073905.	1.3	0
107	Co-precipitation of a Ni-Zn ferrite precursor powder: Effects of heat treatment conditions and deagglomeration on the structure and magnetic properties. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2469-2476.	2.8	32
108	Magnetolectric coupling in multiferroic heterostructure of rf-sputtered $\text{Ni}_x\text{Mn}_{1-x}\text{Ga}$ thin film on $\text{PMN-PT}$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1882-1886.	1.0	12

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109	Lanthanide-based luminescent molecular thermometers. <i>New Journal of Chemistry</i> , 2011, 35, 1177.	1.4	266
110	Local distortions in multiferroic AgCrO <sub>2</sub> triangular spin lattice. <i>Physical Review B</i> , 2011, 84, .	1.1	27
111	Shifted loops and coercivity from field-imprinted high-energy barriers in ferritin and ferrihydrite nanoparticles. <i>Physical Review B</i> , 2011, 84, .	1.1	29
112	Unveiling the (De)coupling of magnetostructural transition nature in magnetocaloric R <sub>5</sub> Si <sub>2</sub> Ge <sub>2</sub> (R = Tb, Tj, ET, Q, Q <sub>0</sub> , O, rg, BT / Ov)	1.5	20
113	Hyperfine interactions in MnAs studied by perturbed angular correlations of $\gamma$ -rays using the probe Br <sup>77</sup> . <i>Physical Review B</i> , 2011, 84, .	1.1	10
114	Comparison of disorder induced by annealing and quench and by ball-milling in B2 FeCo. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 3087-3090.	0.8	3
115	Electrical assisted laser floating zone (EALFZ) growth of 2212-BSCCO superconducting fibres. <i>Applied Surface Science</i> , 2011, 257, 5283-5286.	3.1	13
116	Magnetic study of amorphization of ball-milled FeCr alloys. <i>Journal of Physics: Conference Series</i> , 2010, 200, 082017.	0.3	0
117	Magnetic hyperfine field at Cr site in AgCrO <sub>2</sub> given by Perturbed angular correlations. <i>Hyperfine Interactions</i> , 2010, 197, 123-128.	0.2	4
118	Perturbed angular correlations investigations on YMnO <sub>3</sub> multiferroic manganite. <i>Hyperfine Interactions</i> , 2010, 197, 83-88.	0.2	2
119	Room temperature giant magnetoimpedance in La <sub>0.7</sub> Ba <sub>0.15</sub> Sr <sub>0.15</sub> MnO <sub>3</sub> compound. <i>Materials Chemistry and Physics</i> , 2010, 120, 468-471.	2.0	9
120	Effects of Phonon Confinement on Anomalous Thermalization, Energy Transfer, and Upconversion in Ln <sup>3+</sup> -Doped Gd <sub>2</sub> O <sub>3</sub> Nanotubes. <i>Advanced Functional Materials</i> , 2010, 20, 624-634.	7.8	62
121	A Luminescent Molecular Thermometer for Long-Term Absolute Temperature Measurements at the Nanoscale. <i>Advanced Materials</i> , 2010, 22, 4499-4504.	11.1	405
122	Silica coated magnetite particles for magnetic removal of Hg <sup>2+</sup> from water. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 234-240.	5.0	334
123	Synthesis and characterisation of novel ruthenium multi-substituted polyoxometalates: $\text{[Ru}_2\text{W}_9\text{O}_{37}\text{Ru}_4(\text{H}_2\text{O})_3\text{Cl}_3\text{]}^{7-}$ . <i>Polyhedron</i> , 2010, 29, 3066-3073.	1.0	20
124	On estimating the magnetocaloric effect from magnetization measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1552-1557.	1.0	161
125	First principles calculations of hyperfine parameters on the Ca manganite with substitutional Cd-modeling of a PAC experiment. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1170-1173.	1.0	4
126	Estimating spontaneous magnetization from a mean field analysis of the magnetic entropy change. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1569-1571.	1.0	45



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127	Prediction of realistic entropy behavior from mixed state magnetization data for first order phase transition materials. Journal of Applied Physics, 2010, 107, 09A912.	1.1	10
128	Low Temperature Deposition of Ferromagnetic Ni-Mn-Ga Thin Films From Two Different Targets via rf Magnetron Sputtering. Materials Research Society Symposia Proceedings, 2010, 1250, 1.	0.1	2
129	Handling mixed-state magnetization data for magnetocaloric studies—a solution to achieve realistic entropy behaviour. Journal Physics D: Applied Physics, 2010, 43, 152002.	1.3	32
130	Study of Ni <sub>2</sub> MnGa phase formation by magnetron sputtering film deposition at low temperature onto Si substrates and LaNiO <sub>3</sub> Pb(Ti,Zr)O <sub>3</sub> buffer. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 6-10.	0.9	27
131	Perturbed angular correlations investigations on YMnO <sub>3</sub> multiferroic manganite. , 2010, , 83-88.		0
132	Percolation processes and spin-reorientation of $\text{PrNi}_{1-x}\text{Mn}_x$ . Physical Review B, 2009, 79, .	1.1	145
133	Temperature dependence of antiferromagnetic susceptibility in ferritin. Physical Review B, 2009, 79, .	1.1	45
134	Superferromagnetism in mechanically alloyed fcc Fe <sub>23</sub> Cu <sub>77</sub> with bimodal cluster size distribution. Journal of Physics Condensed Matter, 2009, 21, 046003.	0.7	4
135	High refrigerant capacity of PrNi <sub>5</sub> Co magnetic compounds exploiting its spin reorientation and magnetic transition over a wide temperature zone. Journal Physics D: Applied Physics, 2009, 42, 055002.	1.3	13
136	The effect of magnetic irreversibility on estimating the magnetocaloric effect from magnetization measurements. Applied Physics Letters, 2009, 94, .	1.5	92
137	Effects of pressure on magnetic properties of ferrihydrite antiferromagnetic nanoparticles. Journal of Physics: Conference Series, 2009, 150, 042098.	0.3	1
138	Synthesis, structure and magnetic behaviour of mixed metal leucophosphite. Journal of Solid State Chemistry, 2008, 181, 1330-1336.	1.4	5
139	Electro-precipitation of Fe <sub>3</sub> O <sub>4</sub> nanoparticles in ethanol. Journal of Magnetism and Magnetic Materials, 2008, 320, 2311-2315.	1.0	73
140	New Phase Transition in the $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ system: Evidence for Electrical Polarization in Charge Ordered Manganites. Physical Review Letters, 2008, 100, 155702.	2.9	87
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