Manh-Huong Phan

List of Publications by Year
in descending order

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115	7,529	81839	53190
papers	citations	39 h-index	85 g-index

117	117	117	7110
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of the magnetocaloric effect in manganite materials. Journal of Magnetism and Magnetic Materials, 2007, 308, 325-340.	1.0	1,611
2	Strong room-temperature ferromagnetism in VSe2 monolayers on van der Waals substrates. Nature Nanotechnology, 2018, 13, 289-293.	15.6	1,252
3	Giant magnetoimpedance materials: Fundamentals and applications. Progress in Materials Science, 2008, 53, 323-420.	16.0	767
4	Tunable High Aspect Ratio Iron Oxide Nanorods for Enhanced Hyperthermia. Journal of Physical Chemistry C, 2016, 120, 10086-10093.	1.5	209
5	Excellent magnetocaloric properties of La[sub 0.7]Ca[sub 0.3â^'x]Sr[sub x]MnO[sub 3]â€,(0.05â‰¤xâ‰¤0.25) single crystals. Applied Physics Letters, 2005, 86, 072504.	1.5	181
6	Improving the Heating Efficiency of Iron Oxide Nanoparticles by Tuning Their Shape and Size. Journal of Physical Chemistry C, 2018, 122, 2367-2381.	1.5	178
7	Charge Density Wave State Suppresses Ferromagnetic Ordering in VSe₂ Monolayers. Journal of Physical Chemistry C, 2019, 123, 14089-14096.	1.5	144
8	Large magnetocaloric effect in a La0.7Ca0.3MnO3 single crystal. Journal of Applied Physics, 2004, 96, 1154-1158.	1.1	137
9	Magnetic and magnetocaloric properties of La0.7Ca0.3â^'xBaxMnO3 compounds. Journal of Magnetism and Magnetic Materials, 2003, 256, 306-310.	1.0	135
10	Exchange Bias Effects in Iron Oxide-Based Nanoparticle Systems. Nanomaterials, 2016, 6, 221.	1.9	124
11	Table-like magnetocaloric effect and enhanced refrigerant capacity in Eu8Ga16Ge30-EuO composite materials. Applied Physics Letters, 2011, 99, .	1.5	120
12	Monolayer Vanadiumâ€Doped Tungsten Disulfide: A Roomâ€Temperature Dilute Magnetic Semiconductor. Advanced Science, 2020, 7, 2001174.	5.6	104
13	Mechanism and controlled growth of shape and size variant core/shell FeO/Fe3O4 nanoparticles. Nanoscale, 2013, 5, 7942.	2.8	94
14	Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents. Small, 2019, 15, e1902626.	5.2	79
15	Magnetocaloric properties of nanocrystalline LaMnO3: Enhancement of refrigerant capacity and relative cooling power. Journal of Alloys and Compounds, 2012, 545, 157-161.	2.8	72
16	Origin of the magnetic anomaly and tunneling effect of europium on the ferromagnetic ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>â^'</mml:mo><mml:m mathvariant="normal">x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mi mathvariant="normal">x</mml:mi></mml:msub><mml:msub><mml:mi>Ga</mml:mi><mml:mn>16</mml:mn></mml:msub><mml:msub Physical Review B, 2011, 84, .	1.1	70
17	Magnetocaloric effect in a La0.7Ca0.3MnO3 single crystal. Physica B: Condensed Matter, 2003, 327, 221-224.	1.3	69
18	Surface spin disorder and exchange-bias in hollow maghemite nanoparticles. Applied Physics Letters, 2012, 101, .	1.5	69

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19	Tunable Ferromagnetism and Thermally Induced Spin Flip in Vanadiumâ€Doped Tungsten Diselenide Monolayers at Room Temperature. Advanced Materials, 2020, 32, e2003607.	11.1	68
20	Structure, magnetic, and magnetocaloric properties of amorphous and crystalline La0.4Ca0.6MnO3+Î´ nanoparticles. Journal of Alloys and Compounds, 2012, 512, 94-99.	2.8	67
21	Angle resolved photoemission spectroscopy reveals spin charge separation in metallic MoSe2 grain boundary. Nature Communications, 2017, 8, 14231.	5.8	66
22	Roomâ€Temperature Ferromagnetism in MoTe₂ by Postâ€Growth Incorporation of Vanadium Impurities. Advanced Electronic Materials, 2019, 5, 1900044.	2.6	60
23	Large magnetic entropy change in Cu-doped manganites. Journal of Magnetism and Magnetic Materials, 2005, 285, 199-203.	1.0	59
24	Large magnetic entropy change above 300 K in a colossal magnetoresistive material La0.7Sr0.3Mn0.98Ni0.02O3. Journal of Applied Physics, 2005, 97, 103901.	1.1	59
25	Enhanced giant magnetoimpedance effect and field sensitivity in Co-coated soft ferromagnetic amorphous ribbons. Journal of Applied Physics, 2011, 109, .	1.1	59
26	Combined current-modulation annealing induced enhancement of giant magnetoimpedance effect of Co-rich amorphous microwires. Journal of Applied Physics, 2014, 115, 17A326.	1.1	54
27	Novel nanostructure and magnetic properties of Coâ€“Feâ€“Hfâ€“O films. Nanotechnology, 2007, 18, 155705.	1.3	53
28	Large magnetocaloric effect in single crystal Pr0.63Sr0.37MnO3. Journal of Applied Physics, 2005, 97, 10M306.	1.1	50
29	Tunable magnetocaloric effect near room temperature in La0.7-xPrxSr0.3MnO3 (0.02â€‰â‰â€‰xâ€‰â‰â€‰0.30) manganites. Journal of Applied Physics, 2012, 111, 063918.	1.1	49
30	Hybrid magnetic nanoparticles as efficient nanoheaters in biomedical applications. Nanoscale Advances, 2021, 3, 867-888.	2.2	48
31	Magnetic phase transitions and magnetocaloric effect in La0.7Ca0.3Mn1-xFexO3 0.00â€‰â‰â€‰xâ€‰â‰â€‰0.07 manganites. Journal of Applied Physics, 2012, 112, .	1.1	47
32	Origin and Shell-Driven Optimization of the Heating Power in Core/Shell Bimagnetic Nanoparticles. ACS Applied Nano Materials, 2020, 3, 1755-1765.	2.4	46
33	Large magnetocaloric effect in La0.845Sr0.155Mn1âˆ’xMxO3 (M = Mn, Cu, Co) perovskites. Physica Status Solidi (B): Basic Research, 2004, 241, 1744-1747.	0.7	45
34	Origin of asymmetrical magnetoimpedance in a Co-based amorphous microwire due to dc bias current. Applied Physics Letters, 2003, 83, 2871-2873.	1.5	43
35	Giant magnetoimpedance effect in ultrasoft FeAlSiBCuNb nanocomposites for sensor applications. Journal of Applied Physics, 2005, 98, 014316.	1.1	42
36	Asymmetric hysteresis loops and its dependence on magnetic anisotropy in exchange biased Co/CoO core-shell nanoparticles. Applied Physics Letters, 2012, 101, .	1.5	42

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37	Tuning exchange bias in Fe/Î³-Fe2O3 core-shell nanoparticles: Impacts of interface and surface spins. Applied Physics Letters, 2014, 104, .	1.5	41
38	Manganese perovskites for room temperature magnetic refrigeration applications. Journal of Magnetism and Magnetic Materials, 2007, 316, e562-e565.	1.0	40
39	Enhanced Magnetism in Highly Ordered Magnetite Nanoparticleâ€Filled Nanohole Arrays. Small, 2014, 10, 2840-2848.	5.2	40
40	Optimized giant magnetoimpedance effect in amorphous and nanocrystalline materials. Journal of Applied Physics, 2006, 99, 08C505.	1.1	39
41	Carbon nanostraws: nanotubes filled with superparamagnetic nanoparticles. Nanotechnology, 2009, 20, 485604.	1.3	39
42	Magneto-Impedance Biosensor With Enhanced Sensitivity for Highly Sensitive Detection of Nanomag-D Beads. IEEE Transactions on Magnetics, 2013, 49, 4060-4063.	1.2	39
43	Effect of annealing on the microstructure and magnetic properties of Fe-based nanocomposite materials. Composites Part A: Applied Science and Manufacturing, 2006, 37, 191-196.	3.8	34
44	Impacts of nanostructuring and magnetic ordering of Nd3+ on the magnetic and magnetocaloric response in NdMnO3. Journal of Magnetism and Magnetic Materials, 2015, 384, 138-143.	1.0	32
45	Formation mechanisms of NaZn13-type phase in giant magnetocaloric Laâ€“Feâ€“Si compounds during rapid solidification and annealing. Journal of Alloys and Compounds, 2015, 646, 503-511.	2.8	32
46	Readiness of Magnetic Nanobiosensors for Point-of-Care Commercialization. Journal of Electronic Materials, 2019, 48, 4749-4761.	1.0	30
47	Critical length and giant magnetoimpedance in Co69Fe4.5Ni1.5Si10B15 amorphous ribbons. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 172, 146-150.	1.7	29
48	Ferromagnetic Microwire Composites. Engineering Materials and Processes, 2016, , .	0.2	29
49	Isolation of Cancer-Derived Exosomes Using a Variety of Magnetic Nanostructures: From Fe3O4 Nanoparticles to Ni Nanowires. Nanomaterials, 2020, 10, 1662.	1.9	29
50	Superparamagnetic nanoparticles encapsulated in lipid vesicles for advanced magnetic hyperthermia and biodetection. Journal of Applied Physics, 2016, 119, .	1.1	28
51	Epitaxial magnetite nanorods with enhanced room temperature magnetic anisotropy. Nanoscale, 2017, 9, 7858-7867.	2.8	27
52	Magnetically tunable iron oxide nanotubes for multifunctional biomedical applications. Journal of Alloys and Compounds, 2019, 789, 323-329.	2.8	26
53	Enhanced magnetoimpedance effect in Co-based amorphous ribbons coated with carbon nanotubes. Journal of Applied Physics, 2012, 111, 07E507.	1.1	25
54	Magnetocaloric manganites: Progress and challenges. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 4091-4095.	0.8	24

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55	A magnetic sensor using a 2D van der Waals ferromagnetic material. Scientific Reports, 2020, 10, 4789.	1.6	23
56	Large magnetocaloric effect in Pr1â^'xPbxMnO3 (0.1â©½xâ©½0.5) perovskites. Journal of Applied Physics, 2006, 99, 08Q108.	1.1	22
57	Giant magnetoimpedance and field sensitivity in amorphous and nanocrystalline (Co1â^'xFex)89Zr7B4 (xâ€‰=â€‰0, 0.025, 0.05, 0.1) ribbons. Journal of Applied Physics, 2011, 109, 07B508.	1.1	21
58	Magnetocaloric effect and refrigerant capacity in Sm1â^'xSrxMnO3 (xâ€‰=â€‰0.42, 0.44, 0.46) manganites. Journal of Applied Physics, 2012, 111, 07D705.	1.1	21
59	Roles of bulk and surface magnetic anisotropy on the longitudinal spin Seebeck effect of Pt/YIG. Scientific Reports, 2017, 7, 13316.	1.6	21
60	Magnetic frustration effects in LaCaMnO3 single crystals. Journal of Applied Physics, 2003, 93, 8200-8202.	1.1	20
61	Correlation between magnetic softness, sample surface and magnetoimpedance in Co69Fe4.5X1.5Si10B15 (X=Ni, Al, Cr) amorphous ribbons. Physica B: Condensed Matter, 2010, 405, 2836-2839.	1.3	20
62	A new contactless magneto-LC resonance technology for real-time respiratory motion monitoring. Sensors and Actuators A: Physical, 2017, 265, 120-126.	2.0	20
63	Table-like magnetocaloric behavior and enhanced cooling efficiency of a Bi-constituent Gd alloy wire-based composite. Journal of Alloys and Compounds, 2018, 764, 789-793.	2.8	20
64	Giant Magnetoimpedance Effect in Co70Fe5Si15B10and Co70Fe5Si15Nb2.2Cu0.8B7Ribbons. Japanese Journal of Applied Physics, 2003, 42, 5571-5574.	0.8	19
65	Scaling of the Thermally Induced Sign Inversion of Longitudinal Spin Seebeck Effect in a Compensated Ferrimagnet: Role of Magnetic Anisotropy. Advanced Functional Materials, 2022, 32, 2109170.	7.8	19
66	Magnetoimpedance Biosensors and Real-Time Healthcare Monitors: Progress, Opportunities, and Challenges. Biosensors, 2022, 12, 517.	2.3	18
67	Shell-mediated control of surface chemistry of highly stoichiometric magnetite nanoparticles. Nanoscale, 2020, 12, 13626-13636.	2.8	17
68	Magnetic Vortex and Hyperthermia Suppression in Multigrain Iron Oxide Nanorings. Applied Sciences (Switzerland), 2020, 10, 787.	1.3	17
69	Role of Magnetic Anisotropy on the Hyperthermia Efficiency in Spherical Fe3â^'xCoxO4 (x = 0â€“1) Nanoparticles. Applied Sciences (Switzerland), 2021, 11, 930.	1.3	17
70	Lightâ€Controlled Room Temperature Ferromagnetism in Vanadiumâ€Doped Tungsten Disulfide Semiconducting Monolayers. Advanced Electronic Materials, 2021, 7, 2100030.	2.6	17
71	Formation of tree-like and vortex magnetic domains of nanocrystalline Î±-(Fe,Si) in Laâ€“Feâ€“Si ribbons during rapid solidification and subsequent annealing. Journal of Alloys and Compounds, 2016, 669, 205-209.	2.8	15
72	Enhanced Curie temperature and cooling efficiency in melt-extracted Gd50(Co69.25Fe4.25Si13B13.5)50 microwires. Journal of Alloys and Compounds, 2017, 708, 678-684.	2.8	13

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73	Influences of annealing and wire geometry on the giant magnetoimpedance effect in a glass-coated microwire LC-resonator. Journal Physics D: Applied Physics, 2007, 40, 4582-4585.	1.3	12
74	Magnetocaloric effect and critical behavior in melt-extracted Gd₆₀Co₁₅Al₂₅microwires. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1905-1910.	0.8	12
75	New DyHoCo medium entropy amorphous microwires of large magnetic entropy change. Journal of Alloys and Compounds, 2020, 837, 155431.	2.8	12
76	Iron Oxide Nanorings and Nanotubes for Magnetic Hyperthermia: The Problem of Intraparticle Interactions. Nanomaterials, 2021, 11, 1380.	1.9	12
77	Influence of electrodeposition parameters on the magnetic and magneto-impedance properties of CoP/Cu wires. Physica B: Condensed Matter, 2014, 442, 16-20.	1.3	11
78	Large magnetic entropy change above 300K in a La0.7Ca0.2Sr0.1MnO3 single crystal. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 665-668.	1.0	10
79	Transverse Susceptibility as a Biosensor for Detection of Au-Fe3O4 Nanoparticle-Embedded Human Embryonic Kidney Cells. Sensors, 2013, 13, 8490-8500.	2.1	10
80	Composite electroplating to enhance the GMI output stability of melt-extracted wires. Materials and Design, 2016, 96, 251-256.	3.3	10
81	A perspective on two-dimensional van der Waals opto-spin-caloritronics. Applied Physics Letters, 2021, 119, .	1.5	10
82	Valve behavior of giant magnetoimpedance in field-annealed Co70Fe5Si15Nb2.2Cu0.8B7 amorphous ribbon. Journal of Applied Physics, 2005, 97, 10M108.	1.1	9
83	Advanced Magnetic Microwires as Sensing Elements for LC-Resonant-Type Magnetoimpedance Sensors: A Comprehensive Review. Journal of Superconductivity and Novel Magnetism, 2012, 25, 181-195.	0.8	9
84	Magnetic Interactions and Magnetocaloric Effect in (La0.5Pr0.5)0.6Ba0.4MnO3: Effect of A-Site Codoping. Journal of Electronic Materials, 2020, 49, 2596-2607.	1.0	9
85	Electrocaloric effect enhancement in compositionally graded ferroelectric thin films driven by a needle-to-vortex domain structure transition. Journal Physics D: Applied Physics, 2021, 54, 255307.	1.3	9
86	Structure and magnetic properties of Gd4(Mn0.05Sb0.95)3. Physica B: Condensed Matter, 2003, 327, 307-310.	1.3	8
87	Neutron irradiation effect on permeability and magnetoimpedance of amorphous and nanocrystalline magnetic materials. Physical Review B, 2005, 71, .	1.1	8
88	Influences of rapid annealing and substrate temperature on the magnetic properties of Co-Fe-V films. Journal of Applied Physics, 2006, 99, 08F105.	1.1	8
89	Spin dynamics and magnetic frustration effects in La1â^'xSrxCoO3 (0<xâ©½0.5) compounds. Journal of Applied Physics, 2005, 97, 10A509.	1.1	7
90	Very large magnetoimpedance effect in a glass-coated microwire LC-resonator. Physica B: Condensed Matter, 2007, 395, 88-92.	1.3	7

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91	Strain-modulated helimagnetism and emergent magnetic phase diagrams in highly crystalline MnP nanorod films. Physical Review B, 2021, 103, .	1.1	6
92	Near-surface magnetic properties of CoFeAlO thin films. Solid State Communications, 2005, 135, 721-724.	0.9	5
93	A Study of Giant Magnetoimpedance Effect and Magnetic Response in Micro-patterned F/Ag/F Magnetic Ribbon Structures (F=Co-rich Amorphous Ribbon). Journal of Superconductivity and Novel Magnetism, 2012, 25, 1133-1138.	0.8	5
94	Competing magnetic interactions and emergent phase diagrams in double perovskite Y2NixCo1â^'xMnO6. Journal of Alloys and Compounds, 2021, 888, 161624.	2.8	5
95	Entangled core/shell magnetic structure driven by surface magnetic symmetry-breaking in Cr₂O₃ nanoparticles. Journal of Materials Chemistry C, 2022, 10, 1798-1807.	2.7	5
96	Thermal Generation of Spin Current and Magnon Propagation Length in Compensated Ferrimagnetic Gdâ‚ƒFeâ‚…Oâ‚„ Thin Films. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	5
97	EXAFS and EPR study of La0.6Sr0.2Ca0.2MnO3 and La0.6Sr0.2Ba0.2MnO3. Physica B: Condensed Matter, 2003, 327, 183-186.	1.3	4
98	Magnetic anomalies associated with domain wall freezing and coupled electron hopping in magnetite nanorods. Journal of Magnetism and Magnetic Materials, 2021, 522, 167564.	1.0	4
99	Competing ferromagnetic and antiferromagnetic interactions drive the magnetocaloric tunability in Gd55Co30NixAl15â^'x microwires. Journal of Alloys and Compounds, 2022, 907, 164328.	2.8	4
100	Optimizing the Nano-structure of Magnetic Micro-wires for Multifunctional Macro-composites. , 2007, , .		3
101	Hollow Magnetic Nanoparticles. Springer Series in Materials Science, 2021, , 137-158.	0.4	3
102	Influence of Measurement Parameters on Giant Magnetoimpedance. Engineering Materials and Processes, 2016, , 57-64.	0.2	2
103	A Novel Magnetic Respiratory Sensor for Human Healthcare. Applied Sciences (Switzerland), 2021, 11, 3585.	1.3	2
104	Magnetoimpedance-Based Probe of Various Concentrations of Corrosive Chemicals. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	1
105	Giant Magnetoimpedance Sensors and Their Applications. Engineering Materials and Processes, 2016, , 99-117.	0.2	1
106	Probing the temperature-dependent magnetic anisotropy and longitudinal spin Seebeck effect in Y3Fe5O12. AIP Advances, 2017, 7, 055912.	0.6	1
107	Low-field magnetocaloric effect in Pr/sub 1-x/Pb/sub x/MnO/sub 3/ (0.1 /spl les/ x /spl les/ 0.5) perovskites. , 2005, , .		0
108	Longitudinal and transverse incremental permeability of Co_{19.35}Fe_{53.28}Hf_{7.92}O_{19.35} films. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 4117-4120.	0.8	0

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109	Domain Structure and Properties of GMI Materials. Engineering Materials and Processes, 2016, , 21-37.	0.2	0
110	Microwave Tunable Properties of Microwire Composites. Engineering Materials and Processes, 2016, , 143-200.	0.2	0
111	Microwire-Based Metacomposites. Engineering Materials and Processes, 2016, , 221-245.	0.2	0
112	Influence of Processing Parameters on GMI. Engineering Materials and Processes, 2016, , 65-86.	0.2	0
113	Selection of GMI Wires for Sensor Applications. Engineering Materials and Processes, 2016, , 87-98.	0.2	0
114	Microwave Absorption Behaviour. Engineering Materials and Processes, 2016, , 201-220.	0.2	0
115	Soft Ferromagnetic Microwires with Excellent Inductive Heating Properties for Clinical Hyperthermia Applications. Springer Series in Materials Science, 2017, , 151-167.	0.4	0