

Haicheng Xuan

List of Publications by Year in descending order

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85
papers

2,161
citations

172457

29
h-index

265206

42
g-index

85
all docs

85
docs citations

85
times ranked

1846
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetostructural phase transition and magnetocaloric effect in off-stoichiometric $Mn_{1.9\hat{x}}Ni_xGe$ alloys. <i>Applied Physics Letters</i> , 2008, 93, 122505.	3.3	116
2	Large exchange bias field in the $Ni\hat{x}Mn\hat{x}Sn$ Heusler alloys with high content of Mn. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	103
3	Electric control of magnetism at room temperature. <i>Scientific Reports</i> , 2012, 2, 223.	3.3	101
4	Effect of annealing on the martensitic transformation and magnetocaloric effect in $Ni_{44.1}Mn_{44.2}Sn_{11.7}$ ribbons. <i>Applied Physics Letters</i> , 2008, 92, 242506.	3.3	86
5	Large roomtemperature magnetocaloric effect with negligible magnetic hysteresis losses in $Mn_{1\hat{x}}V_xCoGe$ alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 135-139.	2.3	85
6	Boron TM s effect on martensitic transformation and magnetocaloric effect in $Ni_{43}Mn_{46}Sn_{11}B_x$ alloys. <i>Applied Physics Letters</i> , 2008, 92, 102503.	3.3	68
7	Hierarchical MnCo-LDH/rGO@NiCo ₂ S ₄ heterostructures on Ni foam with enhanced electrochemical properties for battery-supercapacitors. <i>Electrochimica Acta</i> , 2020, 335, 135691.	5.2	65
8	One-step large scale combustion synthesis mesoporous MnO ₂ /MnCo ₂ O ₄ composite as electrode material for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016, 206, 278-290.	5.2	63
9	Construction of hierarchical core-shell ZnCo ₂ O ₄ @Ni-Co-S nanosheets with a microsphere structure on nickel foam for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2020, 513, 145893.	6.1	63
10	Effect of lattice contraction on martensitic transformation and magnetocaloric effect in Ge doped $Ni\hat{x}Mn\hat{x}Sn$ alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 157, 40-43.	3.5	57
11	The magnetostructural transformation and magnetocaloric effect in Co-doped $MnNiGe_{1.05}$ alloys. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 205003.	2.8	50
12	Preparation and characterization of novel 2D/3D NiSe ₂ /MnSe grown on rGO/Ni foam for high-performance battery-supercapacitor hybrid devices. <i>Journal of Power Sources</i> , 2021, 506, 230255.	7.8	50
13	The martensitic transformation, magnetocaloric effect, and magnetoresistance in high-Mn content $Mn_{47+x}Ni_{43\hat{x}}Sn_{10}$ ferromagnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	46
14	Interconnected network of zinc-cobalt layered double hydroxide stick onto rGO/nickel foam for high performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2018, 286, 92-102.	5.2	45
15	Effect of annealing on the martensitic transformation and magnetoresistance in $Ni\hat{x}Mn\hat{x}Sn$ ribbons. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 215002.	2.8	44
16	Effect of Co addition on the martensitic transformation and magnetocaloric effect of $Ni\hat{x}Mn\hat{x}Al$ ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2014, 47, 31-35.	3.9	41
17	Construction of MnSe ₂ /CoSe ₂ /reduced graphene oxide composites with enhanced electrochemical performance as the battery-like electrode for hybrid supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158751.	5.5	40
18	The effect of Co doping on the magnetic entropy changes in $Ni_{44\hat{x}}Co_xMn_{45}Sn_{11}$ alloys. <i>Journal of Alloys and Compounds</i> , 2009, 467, 27-30.	5.5	39

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19	Magnetic and magnetocaloric properties in melt-spun and annealed Ni _{42.7} Mn _{40.8} Co _{5.2} Sn _{11.3} ribbons. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1111-1114.	5.5	37
20	Construction of manganese-cobalt-sulfide anchored onto rGO/Ni foam with a high capacity for hybrid supercapacitors. <i>Electrochimica Acta</i> , 2018, 288, 31-41.	5.2	37
21	Hierarchical three-dimensional NiMoO ₄ -anchored rGO/Ni foam as advanced electrode material with improved supercapacitor performance. <i>Journal of Materials Science</i> , 2018, 53, 8483-8498.	3.7	36
22	Facile synthesis of double-layered CoNiO ₂ /CoO nanowire arrays as multifunction electrodes for hydrogen electrocatalysis and supercapacitors. <i>Electrochimica Acta</i> , 2020, 342, 136093.	5.2	36
23	Design and fabrication of free-standing Ni ₃ S ₂ /NiV-LDH nanosheets arrays on reduced graphene oxide/Ni foam as a novel electrode for asymmetric supercapacitor. <i>Applied Surface Science</i> , 2020, 526, 146641.	6.1	35
24	Enhanced supercapacitive performance in Ni ₃ S ₂ /MnS composites via an ion-exchange process for supercapacitor applications. <i>Electrochimica Acta</i> , 2020, 353, 136517.	5.2	35
25	Rational Assembly of CoAl-Layered Double Hydroxide on Reduced Graphene Oxide with Enhanced Electrochemical Performance for Energy Storage. <i>ChemElectroChem</i> , 2018, 5, 2424-2434.	3.4	34
26	Enhanced elastocaloric effect and mechanical properties of Fe-doped Ni-Mn-Al ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2019, 112, 106529.	3.9	32
27	Magnetic-field-induced reverse martensitic transformation and large magnetoresistance in Ni ₅₀ xCo _x Mn ₃₂ Al ₁₈ Heusler alloys. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	31
28	The martensitic transformation and the magnetocaloric effect in Ni ₅₀ xMn ₃₈ xIn ₁₂ alloys. <i>Solid State Communications</i> , 2008, 146, 124-127.	1.9	30
29	Multiferroic properties and converse magnetoelectric effect in Bi ₁ xCa _x FeO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2010, 506, 537-540.	5.5	29
30	Martensitic transformation and magnetic properties in high-Mn content Mn ₅₀ Ni ₅₀ xIn _x ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5761-5764.	5.5	28
31	Synthesis of 3D flower-like nickel-molybdenum-sulfur microspheres as efficient and stable electrocatalyst for hydrogen and oxygen evolution reactions. <i>Electrochimica Acta</i> , 2019, 320, 134614.	5.2	25
32	Construction of core-shell cobalt sulfide/manganese molybdate nanostructure on reduced graphene oxide/Ni foam as an advanced electrode for high-performance asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2019, 312, 213-223.	5.2	25
33	The magnetoelectric coupling in rhombohedral-tetragonal phases coexisted Bi _{0.84} Ba _{0.20} FeO ₃ . <i>Physica B: Condensed Matter</i> , 2012, 407, 2243-2246.	2.7	23
34	Rational design of hierarchical core-shell structured CoMoO ₄ @CoS composites on reduced graphene oxide for supercapacitors with enhanced electrochemical performance. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6024-6035.	7.1	23
35	Giant low-field magnetic entropy changes in Ni ₄₅ Mn ₄₄ xCr _x Sn ₁₁ ferromagnetic shape memory alloys. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7287-7290.	2.8	20
36	The influence of Ge substitution on the magnetostucture transition and magnetocaloric effect of Mn-Ni-Sn-Ge alloys. <i>Journal of Alloys and Compounds</i> , 2014, 582, 369-373.	5.5	19

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37	Magnetic and magnetocaloric properties in Cu-doped high Mn content $Mn_{50}Ni_{40-x}Cu_xSn_{10}$ Heusler alloys. <i>Intermetallics</i> , 2014, 54, 120-124.	3.9	19
38	One-step combustion synthesis of porous CNTs/C/NiMoO ₄ composites for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 745, 135-146.	5.5	19
39	Magnetocaloric and Elastocaloric Effects in $Alla_{x}Metal_{1-x}$ $Ni_{37}Co_9Fe_4Mn_{35}Ti_{15}$ Magnetic Shape Memory Alloy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900563.	1.8	19
40	Enhanced elastocaloric effect and mechanical properties of Gd-doped $Ni_{1-x}Mn_xSn$ -Gd ferromagnetic shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156313.	5.5	19
41	The martensitic transformation and magnetic properties in $Ni_{50-x}Fe_xMn_{32}Al_{18}$ ferromagnetic shape memory alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 597-602.	2.3	18
42	The effect of the size and shape on the bond number of quantum dots and its relationship with thermodynamic properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17973-17979.	2.8	17
43	Metal-organic framework-derived FeS ₂ /CoNiSe ₂ heterostructure nanosheets for highly-efficient oxygen evolution reaction. <i>Applied Surface Science</i> , 2022, 578, 152016.	6.1	17
44	A facile route to large-scale synthesis MoO ₂ and MoO ₃ as electrode materials for high-performance supercapacitors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2468-2473.	1.8	16
45	Hierarchical design of core-shell structured Ni ₃ S ₂ /CoAl-LDH composites on rGO/Ni foam with enhanced electrochemical properties for asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159801.	5.5	16
46	Rational construction of uniform CoS/NiFe ₂ O ₄ heterostructure as efficient bifunctional electrocatalysts for hydrogen evolution and oxygen evolution reactions. <i>Electrochimica Acta</i> , 2022, 404, 139596.	5.2	16
47	Controllable Synthesis of complex nickel-vanadium selenide three dimensional flower-like structures as an attractive battery-type electrode material for high-performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2021, 388, 138649.	5.2	15
48	Large and highly reversible magnetic field-induced strains in textured $Co_{1-x}Ni_xMnSi$ alloys at room temperature. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 135003.	2.8	14
49	Tunable magnetostructural coupling and large magnetocaloric effect in $Mn_{1-x}Ni_xFe_2Si_{1-x}Ga_x$. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 527-531.	2.3	14
50	Hierarchical design of Ni(OH) ₂ /MnMoO ₄ composite on reduced graphene oxide/Ni foam for high-performance battery-supercapacitors hybrid device. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 38198-38211.	7.1	14
51	Size Consideration on Shape Factor and Its Determination Role on the Thermodynamic Stability of Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12002-12007.	3.1	13
52	Large Magnetocaloric Effect and Magnetoresistance in Fe and Co Co-doped $Ni_{1-x}Mn_xAl$ Heusler Alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700843.	1.8	13
53	The large low-field magnetic entropy changes in $Ni_{43}Mn_{46}Sn_{11-x}Sb_x$ alloys. <i>Solid State Communications</i> , 2007, 142, 591-594.	1.9	12
54	Electric field-modulated Hall resistivity and magnetization in magnetoelectric $Ni_{1-x}Mn_xCo_{1-x}Sn_{1-x}PMN_{1-x}PT_x$ laminate. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8885-8887.	5.5	12

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55	Synthesis of hierarchical porous Co(OH) ₂ /Ni ₂ Mn ₁ O _x composites on Ni foam for high performance battery-supercapacitor hybrid devices. <i>Journal of Alloys and Compounds</i> , 2020, 818, 153350.	5.5	12
56	The study of the magnetic and room-temperature magnetocaloric properties in spin-reorientation Nd _{1-x} Dy _x Co ₄ Al (x=0, 0.1) alloys. <i>Journal of Alloys and Compounds</i> , 2010, 499, 7-10.	5.5	11
57	The effect of Co on elastocaloric and mechanical properties of Ni-Co-Mn-Al alloys. <i>Solid State Communications</i> , 2019, 301, 113706.	1.9	11
58	Reversibly controlled magnetic domains of Co film via electric field driven oxygen migration at nanoscale. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	11
59	Preparation and characterization of three-dimensional Mn-Mo-S composites on rGO/Ni foam for battery-supercapacitor electrode with high-performance. <i>Electrochimica Acta</i> , 2020, 345, 136260.	5.2	11
60	Design and construction of hierarchical Ni ₃ S ₂ @V-doped NiMn-LDH heterostructure on rGO/Ni foam as an advanced electrode for battery-supercapacitor hybrid devices. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163125.	5.5	11
61	The 3D core-shell heterostructure catalysts by CoNiS nanosheets interfacial assembled on CuO nanorods for efficient water electrolysis. <i>Applied Surface Science</i> , 2021, 570, 151181.	6.1	10
62	Synthesis of NiMoO ₄ @Co ₃ O ₄ hierarchical nanostructure arrays on reduced graphene oxide/Ni foam as binder-free electrode for asymmetric supercapacitor. <i>Journal of Materials Science</i> , 2021, 56, 9419-9433.	3.7	9
63	Mechanical and elastocaloric effect of Fe and Co co-doped Ni-Mn-Al ferromagnetic shape memory alloys. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 402, 127362.	2.1	9
64	Effect of Ni/Sn ratio on martensitic transformation and magnetic properties in high-Mn content Mn ₂ Ni _{1.64-x} Sn _{0.36+x} ferromagnetic shape memory alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 680-685.	1.8	8
65	Large magnetoresistance in highly textured Mn _{44.7} Ni _{43.5} Sn _{11.8} melt spun ribbons. <i>Smart Materials and Structures</i> , 2016, 25, 055031.	3.5	8
66	Theoretical prediction for the band gap of semiconductor nanoparticles as function of bond number. <i>Materials Chemistry and Physics</i> , 2016, 184, 285-290.	4.0	8
67	Formation of a Flower-Like Co-Mo-S on Reduced Graphene Oxide Composite on Nickel Foam with Enhanced Electrochemical Capacitive Properties. <i>ChemElectroChem</i> , 2018, 5, 3748-3756.	3.4	8
68	Extrinsic origin of room-temperature ferromagnetism in Co-doped ZnO annealed in Zn vapor. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	6
69	Large converse magnetoelectric effect in ferromagnetic shape memory alloy Ni ₄₉ Fe ₁₈ Ga ₂₇ Co ₆ and Pb(Zr _{0.52} Ti _{0.48})O ₃ laminates. <i>Journal of Alloys and Compounds</i> , 2012, 519, 97-100.	5.5	6
70	Enhancement of the martensitic transformation and magnetocaloric effect of Ni-Mn-V-Sn ribbons by annealing treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1954-1960.	1.8	5
71	Improvement of coercivity and thermal stability of Nd-Fe-B sintered magnets by intergranular addition of Tb ₈₀ Fe ₂₀ alloy. <i>Journal of Rare Earths</i> , 2022, 40, 1899-1904.	4.8	5
72	Effect of partial Nd-substitution on the magnetic and magnetocaloric properties in spin-reorientation PrCo ₄ Al alloy. <i>European Physical Journal B</i> , 2011, 84, 167-171.	1.5	4

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73	Electric-field-controlled magnetic responses in Metglas and lead zirconate titanate laminated composite. <i>Journal of Alloys and Compounds</i> , 2013, 550, 446-450.	5.5	4
74	The effect of hydrostatic pressure on martensitic transition and magnetocaloric effect of Mn _{44.7} Ni _{43.5} Sn _{11.8} ribbons. <i>Solid State Communications</i> , 2020, 308, 113821.	1.9	4
75	Large Magnetoresistance and Magnetic Field Induced Strain in Ni _{42.8} Co _{7.7} Mn _{38.8} Al _{10.7} Heusler Alloy at Room Temperature. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800185.	1.8	3
76	Giant Magnetoresistance and Magnetocaloric Effect in Highly Textured Ni ₄₅ Mn _{36.5} In _{13.5} Co ₅ Alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000381.	1.8	3
77	Magnetic properties and magnetoresistance effect in Ni _{43.3} Mn _{31.5} Fe _{11.7} Al _{13.5} ribbons. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	3
78	Effects of Al Nanopowder Intergranular Addition on the Magnetic Properties and Temperature Stability of Sintered Nd-Fe-B Magnet. <i>Journal of Superconductivity and Novel Magnetism</i> , 0, , 1.	1.8	3
79	Elastocaloric Effect and Magnetic Properties of Ni ₅₀ Mn _{31.5} Ti ₁₈ Cu _{0.5} Shape Memory Alloy. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 1669-1676.	1.8	3
80	Molten Salt Synthesis of NaMnO Composites as Electrode Materials for High Performance Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 1838-1845.	3.4	2
81	Large elastocaloric effect in Fe-doped CoFeGa shape memory alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , .	1.8	2
82	The Effect of Tb ₈₀ Fe ₂₀ /Al Co-adding on Coercivity and Thermal Stability in Sintered Nd-Fe-B Magnets. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 3291.	1.8	1
83	Martensitic transformation and magnetocaloric properties in Ni _{40.4} Mn _{46.5} Sn _{10.9} Sb _{2.2} ribbons. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	0
84	Electrochemical deposition of ZnCO ₂ O ₄ nanosheets on Ni foam for supercapacitor applications. , 2016, , .		0
85	One-step combustion synthesis porous amorphous NiO/C/CNTs composite for high performance supercapacitors. <i>Micro and Nano Letters</i> , 2018, 13, 1209-1212.	1.3	0