

Ping-Zhan Si

List of Publications by Year in descending order

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119
papers

1,421
citations

394421

19
h-index

434195

31
g-index

121
all docs

121
docs citations

121
times ranked

1443
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, microstructural and temperature dependent magnetic properties of Mg ²⁺ /Ni doped CoCr ₂ O ₄ ceramics. <i>Ceramics International</i> , 2022, 48, 11654-11661.	4.8	18
2	A Review of Ultrafine-Grained Magnetic Materials Prepared by Using High-Pressure Torsion Method. <i>Materials</i> , 2022, 15, 2129.	2.9	5
3	High-Performance Anisotropic Nanocomposites with a Novel Core/shell Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15558-15564.	8.0	6
4	Computational analysis of anomalous temperature dependence of magnetic properties in Mn ₄ C compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 527, 167765.	2.3	2
5	High Coercivity in MnAl Disc Prepared by Severe Plastic Deformation. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900356.	1.5	7
6	Phase transformation and enhanced coercivity in B-N-doped MnAl nanocrystalline bulk alloys prepared by high pressure torsion. <i>AIP Advances</i> , 2020, 10, 015320.	1.3	6
7	X-ray powder diffraction data for Mn ₄ C. <i>Powder Diffraction</i> , 2019, 34, 196-197.	0.2	3
8	Structural, Magnetic, and Magnetoelastic Properties of High Nd-Content Laves Alloys Prepared by Solid-State Synthesis. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 3609-3613.	1.8	1
9	Large coercivity and exchange bias in Mn ₃ O ₄ nanoparticles prepared by laser ablation method. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165481.	2.3	5
10	Enhanced magnetic performance of bulk nanocrystalline MnAl-C prepared by high pressure compaction of gas atomized powders. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	7
11	Magnetic properties of MnBi bulk magnets with NaCl and C addition. <i>AIP Advances</i> , 2019, 9, 115213.	1.3	3
12	Laser Ablation Synthesis, Structure, and Exchange Bias of Mn ₄ C/MnO Powders. <i>Journal of Electronic Materials</i> , 2019, 48, 1436-1440.	2.2	2
13	Magnetic-field-enhanced reactive synthesis of MnBi from Mn nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 243-247.	2.3	20
14	Structure and Magnetic Properties of Nanocrystalline MnAl-C Prepared by Solid-State Reaction and High-Pressure Compaction. <i>Journal of Electronic Materials</i> , 2019, 48, 1395-1399.	2.2	5
15	High-Pressure Synthesis of High Coercivity Bulk MnAl-C Magnets from Melt-Spun Ribbons. <i>Journal of Electronic Materials</i> , 2019, 48, 794-798.	2.2	9
16	The Effect of Mn/Al Substitution on the Structural Stability and Magnetic Properties of Mn ₂ AlC. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 24, 123-127.	0.4	0
17	Phase Transformation of Micrometer-Sized Mn ₂ AlC. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-3.	2.1	1
18	Composition anisotropy compensation and magnetostriction of Co-doped Laves compounds Tb _{0.2} Dy _{0.8} Al _{1-x} Pr _x Fe _{1.93} (0 ≤ x ≤ 0.40). <i>Solid State Communications</i> , 2018, 275, 63-67.	1.9	10

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19	Phase transformation and magnetic properties of MnAl powders prepared by elemental-doping and salt-assisted ball milling. <i>AIP Advances</i> , 2018, 8, 056216.	1.3	4
20	A novel method for measuring the phase transformation temperature and enhanced coercivity in cold-rolled MnAlC ($x \approx 0.5$) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 540-545.	2.3	20
21	Beating Thermal Deterioration of Magnetization with Mn ₄ C and Exchange Bias in Mn-C Nanoparticles. <i>Nanomaterials</i> , 2018, 8, 1056.	4.1	3
22	Magnetic properties of Mn ₅₄ Al ₄₆ C _{2.44} /Sm ₂ Fe ₁₇ N ₃ and Mn ₅₄ Al ₄₆ C _{2.44} /Fe ₆₅ Co ₃₅ composites. <i>Journal of the Korean Physical Society</i> , 2018, 73, 1703-1707.	0.7	5
23	Magnetomechanical behavior of Tb _{0.2} Dy _{0.8} Pr _x (Fe _{0.8} Co _{0.2}) _{1.93} /epoxy pseudo- γ particulate composites. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	9
24	Preparation of Sm-Fe-N by High-Pressure N ₂ Nitridation and Sm ₂ Fe ₁₇ by a Diffusion Process. <i>Journal of Electronic Materials</i> , 2018, 47, 7472-7475.	2.2	2
25	Structure and magnetic properties of L10-MnGa nanoparticles prepared using direct reactions between Mn nanoparticles and Ga. <i>AIP Advances</i> , 2018, 8, 056323.	1.3	3
26	Effects of Ga-doping on the microstructure and magnetic properties of MnBi alloys. <i>Journal of Alloys and Compounds</i> , 2018, 769, 813-816.	5.5	23
27	High Hardness Nanocrystalline Invar Alloys Prepared from Fe-Ni Nanoparticles. <i>Metals</i> , 2018, 8, 28.	2.3	9
28	Enhancing the magnetization of Mn ₄ C by heating. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	7
29	Structure and Magnetic Properties of MnBi Nanoparticles Prepared by Laser Ablation and Arc-Discharge Method. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	1
30	Weak Ferromagnetism and Exchange Bias in Antiferromagnetic Cobalt Oxide Nanoparticles. <i>Journal of Magnetics</i> , 2018, 23, 487-490.	0.4	3
31	Effect of B-doping on the structure and magnetocaloric properties of plate-shaped La _{0.6} Pr _{0.4} Fe _{11.4} Si _{1.6} H _x sintered in high-pressure H ₂ atmosphere. <i>AIP Advances</i> , 2017, 7, 056419.	1.3	3
32	Composition anisotropy compensation and magnetoelastic properties of Mn-doped Tb _x Ho _{1-x} Fe ₂ Laves compounds (0.08 $\leq x \leq$ 0.16). <i>Journal of Alloys and Compounds</i> , 2017, 725, 946-951.	5.5	8
33	Synthesis, structure and magnetic properties of ultra-high purity CrO ₂ prepared under high O ₂ -gas pressure. <i>Solid State Sciences</i> , 2017, 67, 72-75.	3.2	5
34	Magnetoelastic properties of epoxy resin based Tb _x Ho _{0.9-x} Nd _{0.1} (Fe _{0.8} Co _{0.2}) _{1.93} particulate composites. <i>Materials Science-Poland</i> , 2017, 35, 81-86.	1.0	2
35	Magnetic and magnetocaloric properties of Mn _{0.98} Fe _{0.02} P _{1-x} As _x compounds. <i>Journal of Alloys and Compounds</i> , 2017, 690, 598-603.	5.5	6
36	In situ Observation of Phase Transformation in MnAl(C) Magnetic Materials. <i>Materials</i> , 2017, 10, 1016.	2.9	25

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37	Enhanced magnetoelastic effect in Laves (Tb,Dy)Fe ₂ alloys with the joint introduction of Pr and Nd. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
38	Magnetostriction of Laves Tb _{0.1} Ho _{0.9} Pr (Fe _{0.8} Co _{0.2}) _{1.93} alloys. Materials Research Bulletin, 2016, 77, 122-125.	5.2	8
39	Influence of High-Pressure Nitrogenation on the Structural, Magnetic and Magnetocaloric Properties of La _{0.5} Pr _{0.5} Fe _{11.4} Si _{1.6} . Acta Metallurgica Sinica (English Letters), 2015, 28, 1382-1386.	2.9	4
40	Redefine the Kilogram in Terms of the Carbon-12 Atom and an Exact Value of the Avogadro Constant. Mapan - Journal of Metrology Society of India, 2015, 30, 1-5.	1.5	1
41	High magnetic-refrigeration performance of plate-shaped La _{0.5} Pr _{0.5} Fe _{11.4} Si _{1.6} hydrides sintered in high-pressure H ₂ atmosphere. Applied Physics Letters, 2015, 106, .	3.3	13
42	Influence of High-Pressure Nitrogenation on the Structure, Magnetism and Microwave Absorption Properties of SmFe ₁₀ Mo ₂ . Acta Metallurgica Sinica (English Letters), 2015, 28, 781-786.	2.9	2
43	Structure and Magnetic Properties of Cr ₂ O ₃ /CrO ₂ Nanoparticles Prepared by Reactive Laser Ablation and Oxidation under High Pressure of Oxygen. Journal of Magnetism, 2015, 20, 211-214.	0.4	12
44	Magnetostriction of Tb _x Dy _{0.9-x} Nd _{0.1} (Fe _{0.8} Co _{0.2}) _{1.93} compounds and their composites (0.20 ^{1/2} x ^{1/2} 0.60). Journal of Alloys and Compounds, 2014, 582, 583-587.	3.5	14
45	Microwave dielectric properties of La ₄ Ti ₃ O ₁₂ ceramics. Materials Letters, 2014, 118, 24-26.	2.6	12
46	Transitions from straight-sided to telephone cord buckles in SiAlN _x films. Thin Solid Films, 2014, 550, 480-485.	1.8	12
47	Morphological selections and dynamical evolutions of buckling patterns in SiAlN _x films: From straight-sided to telephone cord or bubble structures. Acta Materialia, 2014, 64, 41-53.	7.9	38
48	Effect of Particle Size on the Hysteretic Behavior and Magnetocaloric Effect of La _{0.5} Pr _{0.5} Fe _{11.4} Si _{1.6} Compound. Acta Metallurgica Sinica (English Letters), 2014, 27, 27-30.	2.9	16
49	Magnetic properties of single-phase MnBi grown from MnBi ₄₉ melt. Journal of Applied Physics, 2014, 115, 17A752.	2.5	4
50	Structural, magnetic and magnetostrictive properties of Laves-phase compounds Tb _x Ho _{0.9-x} Nd _{0.1} Fe _{1.93} (0.4). Materials Chemistry and Physics, 2014, 148, 82-86.	4.0	2
51	Microstructure and magnetostrictive properties of epoxy-bonded Tb _{1-x} Nd _x (Fe _{0.8} Co _{0.2}) _{1.93} alloys.		
52	Structure and magnetostriction of Tb _{0.4} Nd _{0.6} (Fe _{0.8} Co _{0.2}) _x alloys. Applied Physics A: Materials Science and Processing, 2014, 115, 1121-1125.	2.3	10
53	Synthesis and characterization of Co nanoparticles encapsulated in organics. Journal of Alloys and Compounds, 2014, 584, 222-224.	5.5	4
54	Structure and Magnetic Properties of Cu Doped MnAl. Physical Science International Journal, 2014, 4, 536-541.	0.3	7

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55	Large scale synthesis of FeS coated Fe nanoparticles as reusable magnetic photocatalysts. <i>Frontiers of Materials Science</i> , 2013, 7, 308-311.	2.2	8
56	Controlled formation of straight-sided buckles in patterned Ta films on glass substrates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 583, 123-128.	5.6	6
57	Spatial and kinetic evolutions of telephone cord buckles. <i>Surface and Coatings Technology</i> , 2013, 228, 258-265.	4.8	18
58	Spontaneous formation of hierarchical wrinkles in Cr films deposited on silicone oil drops with constrained edges. <i>Physical Review E</i> , 2013, 88, 042401.	2.1	14
59	Influence of annealing on the microwave-absorption properties of Ni/TiO ₂ nanocomposites. <i>Journal of Alloys and Compounds</i> , 2013, 577, 533-537.	5.5	25
60	Coalescence behaviors of telephone cord buckles in SiAlN _x films. <i>Surface and Coatings Technology</i> , 2013, 232, 884-890.	4.8	7
61	Magnetic, magnetocaloric and transport properties of CrAs _{0.3} Sb _{0.7} . <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 334, 1-4.	2.3	0
62	Structure and magnetic properties of Cr/Cr ₂ O ₃ /CrO ₂ microspheres prepared by spark erosion and oxidation under high pressure of oxygen. <i>Materials Letters</i> , 2013, 92, 213-215.	2.6	13
63	Giant low-field magnetostriction of epoxy/TbxDy _{1-x} (Fe _{0.8} Co _{0.2}) ₂ composites (0.20 ≤ x ≤ 0.40). <i>Applied Physics Letters</i> , 2013, 103, .	3.3	16
64	In situ electric properties of Ag films deposited on rough substrates. <i>Philosophical Magazine Letters</i> , 2013, 93, 18-26.	1.2	3
65	Overcoming Decomposition with Order-Reversed Quenching Obtained by Flash Melting. <i>Chinese Physics Letters</i> , 2013, 30, 078101.	3.3	1
66	Microwave Dielectric Properties of Eu ₄ Ti ₃ O ₁₂ Ceramics via Sol-Gel Method. <i>Advanced Materials Research</i> , 2013, 750-752, 1020-1023.	0.3	0
67	STRUCTURE AND PHOTOCATALYTIC PROPERTIES OF N-DOPED TiO _{2-x} FILMS PREPARED BY N-ION IMPLANTATION. <i>Surface Review and Letters</i> , 2013, 20, 1350059.	1.1	3
68	Structure and Magnetostriction of Tb _{0.7} Pr _{0.3} Fe _x Prepared by Solid-State Synthesis. <i>Advanced Materials Research</i> , 2012, 476-478, 1459-1462.	0.3	1
69	Size Segregation and Super-Domain Mediated by Dipolar Interactions in 3-D Iron Nanoparticle Assemblies. <i>Chinese Physics Letters</i> , 2012, 29, 047502.	3.3	0
70	The High Nitrogen Pressure Synthesis of Manganese Nitride. <i>Chinese Physics Letters</i> , 2012, 29, 128101.	3.3	8
71	Structure and magnetostriction of Tb _{0.4} Nd _{0.6} (Fe _{0.8} Co _{0.2}) _{1.90} alloy prepared by solid-state synthesis. <i>Rare Metals</i> , 2012, 31, 547-551.	7.1	4
72	Effect of microstrain on the magnetism and magnetocaloric properties of MnAs _{0.97} P _{0.03} . <i>Applied Physics Letters</i> , 2012, 100, .	3.3	21

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73	Large Scale Synthesis of Nitrogen Doped TiO ₂ Nanoparticles by Reactive Plasma. Materials Letters, 2012, 68, 161-163.	2.6	17
74	Stress relief patterns of Co films deposited on circular silicone oil substrates. Thin Solid Films, 2012, 520, 5683-5690.	1.8	10
75	Structure and Magnetic Properties of MnAl/±-Fe Nano-Composite Powders Prepared by High-Energy Ball Milling. Advanced Materials Research, 2011, 287-290, 1492-1495.	0.3	2
76	Structure and Magnetic Properties of Sm-Fe-N Prepared by Nitriding High Purity Sm ₂ Fe ₁₇ Grown from Sm-Rich Melt. Advanced Materials Research, 2011, 287-290, 875-878.	0.3	0
77	Anisotropy compensation and high low-field magnetostriction of epoxy/Tb ^x Hox(Fe _{0.8} Co _{0.2}) ₂ composites (0.60 ≤ x ≤ 1.0). Journal of Alloys and Compounds, 2011, 509, 8207-8210.	5.5	12
78	Synthesis, structure and exchange bias in Cr ₂ O ₃ /CrO ₂ /Cr ₂ O ₅ particles. Thin Solid Films, 2011, 519, 8423-8425.	1.8	22
79	An experimental study of the influence of film edges and imperfections on buckling morphologies of quenched iron films. Thin Solid Films, 2011, 519, 7936-7939.	1.8	11
80	Magnetostriction of Epoxy-Bonded Tb _{0.22} Dy _{0.48} Pr _{0.3} (Fe _{0.9} B _{0.1}) _{1.93} Composites. Advanced Materials Research, 2011, 295-297, 978-981.	0.3	0
81	Structural Stabilizing Effect of Zn Substitution on MnAl and Its Magnetic Properties. Open Journal of Microphysics, 2011, 01, 19-22.	0.6	18
82	The Influence of Mechanical Milling on the Structure and Magnetic Properties of Sm-Fe-N Powder Produced by the Reduction-Diffusion Process. Journal of Magnetism, 2011, 16, 104-107.	0.4	10
83	STRUCTURE AND MAGNETIC PROPERTIES OF MANGANESE OXIDE NANOPARTICLES PREPARED BY ARC SUBLIMATION. Modern Physics Letters B, 2010, 24, 3025-3032.	1.9	3
84	Structure and Magnetic Properties of Boron-oxide and Boron-nitride Coated Iron Nanocapsules. Journal of Materials Science and Technology, 2010, 26, 1051-1056.	10.7	5
85	LARGE COERCIVITY IN ANTIFERROMAGNETIC Mn ₂ O ₃ / Mn ₅ O ₈ AND MnO/Mn NANOPARTICLES. International Journal of Modern Physics B, 2009, 23, 3895-3901.	2.0	4
86	Synthesis and magnetic properties of melt-spun high Pr-content magnetostrictive alloys. Physica B: Condensed Matter, 2009, 404, 2444-2448.	2.7	3
87	Magneto-resistance and magnetostriction effects in bulk Dy-doped La _{2/3} Sr _{1/3} MnO ₃ . Solid State Communications, 2009, 149, 243-246.	1.9	13
88	Transport and magnetic properties of bulk polycrystalline (YBa ₂ Cu ₃ O ₇) _{1-x} (Nd _{0.7} Sr _{0.3} MnO ₃) _x nanocomposites. Physica C: Superconductivity and Its Applications, 2009, 469, 102-105.	1.2	3
89	Structure and magnetostrictive properties of melt-spun Pr(Fe _{0.4} Co _{0.6}) _{1.93} alloys. Journal of Magnetism and Magnetic Materials, 2009, 321, 4052-4056.	2.3	5
90	Structure and anisotropic compensation of Tb ^x Pr _x (Fe _{0.4} Co _{0.55} B _{0.05}) _{1.93} (0 ≤ x ≤ 1) magnetostrictive alloys. Journal of Alloys and Compounds, 2009, 474, 9-13.	5.5	22

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91	Air stability and magnetic properties of GdN, TiN, and (Gd,Ti)N nanoparticles. Journal of Nanoparticle Research, 2008, 10, 53-58.	1.9	8
92	Anomalous exchange bias in Gd/Cr bilayer and Cr/Gd/Cr trilayers. Journal of Alloys and Compounds, 2008, 458, 1-4.	5.5	20
93	The effect of Ni-substitution on the magnetic properties of Ni ₂ MnGe Heusler alloys. Journal of Alloys and Compounds, 2008, 462, 1-3.	5.5	11
94	Exchange bias in Cr/Gd multilayers with TC<TN. Journal of Alloys and Compounds, 2008, 463, 96-99.	5.5	13
95	Large coercivity and small exchange bias in Mn ₃ O ₄ / MnO nanoparticles. Solid State Communications, 2007, 142, 723-726.	1.9	49
96	Synthesis, structure and tribological performance of tungsten disulphide nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 443, 167-171.	5.6	13
97	Synthesis, structure and magnetic properties of iron-doped tungsten oxide nanorods. Physica B: Condensed Matter, 2007, 392, 154-158.	2.7	11
98	High saturation magnetization FeB(C) nanocapsules. Scripta Materialia, 2007, 57, 265-268.	5.2	15
99	Synthesis, structure and magnetic properties of DyAl ₂ nanoparticles. Journal of Alloys and Compounds, 2006, 413, 29-34.	5.5	8
100	Structure and magnetic properties of Cr nanoparticles and Cr ₂ O ₃ nanoparticles. Physica B: Condensed Matter, 2005, 358, 332-338.	2.7	41
101	Synthesis, characterization and magnetic properties of Fe-Al nanopins. Physica B: Condensed Matter, 2005, 370, 131-136.	2.7	6
102	Structural and magnetic properties of Mn nanoparticles prepared by arc-discharge. Materials Research Bulletin, 2005, 40, 29-37.	5.2	36
103	Magnetic-entropy change in Mn _{1.1} /Fe _{0.9} /P _{1-x} /Ge _x compounds. IEEE Transactions on Magnetism, 2005, 41, 2778-2780.	2.1	59
104	Structure and magnetic properties of surface alloyed Fe nanocapsules prepared by arc discharge. Physica B: Condensed Matter, 2005, 369, 215-220.	2.7	1
105	Synthesis and structure of multi-layered WS ₂ (CoS), MoS ₂ (Mo) nanocapsules and single-layered WS ₂ (W) nanoparticles. Journal of Materials Science, 2005, 40, 4287-4291.	3.7	22
106	Magnetic entropy change in Mn _{1.1} /Fe _{0.9} /P _{1-x} /Ge _x compounds. , 2005, , .		0
107	Magnetic-entropy change in Mn _{1.1} Fe _{0.9} P _{0.7} As _{0.3} xGe _x . Journal of Alloys and Compounds, 2005, 396, 6-9.	5.5	57
108	Unconventional exchange bias in oxide-coated manganese nanoparticles. Applied Physics Letters, 2005, 87, 1331-1332.	3.3	74

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109	Preparation and properties of dysprosium nanocapsules coated with boron, carbon, and dysprosium oxide. <i>Materials Research Bulletin</i> , 2004, 39, 1005-1012.	5.2	7
110	Synthesis, structure and magnetic properties of Fe-Gd nanocapsules coated with B ₂ O ₃ /H ₃ BO ₃ and Fe ₃ BO ₅ +GdBO ₃ . <i>Physica B: Condensed Matter</i> , 2004, 353, 1-8.	2.7	21
111	Structure and magnetic properties of N-containing Pr-Fe-B alloys prepared by mechanical alloying. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 277, 153-158.	2.3	1
112	Investigation of time dependent effects in the magnetization processes of Y Sm ^{1/3} Co ₃ Cu ₂ alloys. <i>Journal of Alloys and Compounds</i> , 2004, 379, 82-86.	5.5	4
113	Title is missing!. <i>Journal of Materials Science</i> , 2003, 38, 689-692.	3.7	39
114	Al ₂ O ₃ coated Fe-Fe solid solution nanocapsules prepared by arc discharge. <i>Scripta Materialia</i> , 2003, 48, 593-598.	5.2	41
115	Synthesis and characteristics of carbon-coated iron and nickel nanocapsules produced by arc discharge in ethanol vapor. <i>Carbon</i> , 2003, 41, 247-251.	10.3	113
116	Structure and magnetic properties of Gd nanoparticles and carbon coated Gd/Gd ₂ C nanocapsules. <i>Journal of Applied Physics</i> , 2003, 94, 6779-6784.	2.5	24
117	Structure and Magnetostrictive Properties of Tb _{0.2} Pr _{0.8} (Fe _{0.4} Co _{0.6}) _{1.9} Alloys. <i>Advanced Materials Research</i> , 0, 295-297, 144-147.		
118	Crystal Structures of New Compounds Na _{0.5} Sm _{4.5} Ti ₄ O ₁₅ and Na _{0.5} Eu _{4.5} Ti ₄ O ₁₅ . <i>Advanced Materials Research</i> , 0, 415-417, 468-471.	0.3	0
119	Effect of Transition Metal Ion Doping on the Photocatalytic Activities of TiO ₂ Synthesized by Sol-Gel Method. <i>Advanced Materials Research</i> , 0, 562-564, 260-264.	0.3	1