Kazuhisa Sato

List of Publications by Year
in descending order

130	2,455	293460	274796
papers	citations	24 h-index	44 g-index

132	132	132	3010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Athermal Solid Phase Reaction in Pt/SiOx Thin Films Induced by Electron Irradiation. ACS Omega, 2021, 6, 21837-21841.	1.6	1
2	Domain switching dynamics in relaxor ferroelectric Pb(Mg1/3Nb2/3)O3â€“PbTiO3 revealed by time-resolved high-voltage electron microscopy. Journal of Applied Physics, 2021, 130, 164101.	1.1	0
3	Red-Fluorescent Pt Nanoclusters for Detecting and Imaging HER2 in Breast Cancer Cells. ACS Omega, 2020, 5, 23718-23723.	1.6	11
4	Structural and electrical characterization of hydrothermally deposited piezoelectric (K,Na)(Nb,Ta)O3 thick films. Journal of Materials Science, 2020, 55, 8829-8842.	1.7	8
5	Athermal Crystal Defect Dynamics in Si Revealed by Cryo-High-Voltage Electron Microscopy. ACS Omega, 2020, 5, 1457-1462.	1.6	2
6	Orderâ€“Disorder Transitions Confined at the Interface of Pd@Co Coreâ€“Shell Nanoparticles: Implications for Magnetic Recording. ACS Applied Nano Materials, 2020, 3, 1592-1599.	2.4	1
7	Probing Threading Dislocations in a Micrometer-Thick GaN Film by High-Voltage Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 842-843.	0.2	1
8	PM-04 Characterization of Sb2Te3/GeTe Composite Thin Films Fabricated by RF-Magnetron Sputtering. Microscopy (Oxford, England), 2019, 68, i36-i36.	0.7	1
9	High-Voltage Scanning Transmission Electron Microscopy: A Tool for Structural Characterization of Micrometer-Thick Specimens. Materials Transactions, 2019, 60, 675-677.	0.4	2
10	Fabrication of L10-FeNi phase by sputtering with rapid thermal annealing. Journal of Alloys and Compounds, 2018, 750, 164-170.	2.8	15
11	Evolution of long-period stacking order (LPSO) in Mg97Zn1Gd2 cast alloys viewed by HAADF-STEM multi-scale electron tomography. Philosophical Magazine, 2018, 98, 1945-1960.	0.7	6
12	Phase change in CoTi₂ induced by MeV electron irradiation. Philosophical Magazine, 2018, 98, 1961-1974.	0.7	0
13	Probing Crystal Dislocations in a Micrometer-Thick GaN Film by Modern High-Voltage Electron Microscopy. ACS Omega, 2018, 3, 13524-13529.	1.6	6
14	A Novel Interfacial Solid Phase Reaction and Its Control by Core Excitation. Materia Japan, 2018, 57, 545-551.	0.1	0
15	Synthesis of platinum silicide at platinum/silicon oxide interface by photon irradiation. Acta Materialia, 2018, 154, 284-294.	3.8	7
16	Confirmation of Hard Magnetic L1₀ FeNi Phase Precipitated in FeNiSiBPCu Alloy by Anomalous X-Ray Diffraction. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	5
17	Fluctuation of long-range order in Co-Pt alloy nanoparticles revealed by time-resolved electron microscopy. Applied Physics Letters, 2017, 110, .	1.5	6
18	Maximum usable thickness revisited: Imaging dislocations in Si by modern high-voltage scanning transmission electron microscopy. Japanese Journal of Applied Physics, 2017, 56, 100304.	0.8	8

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19	Surface-segregation-induced phase separation in epitaxial Au/Co nanoparticles: Formation and stability of core-shell structures. AIP Advances, 2017, 7, .	0.6	6
20	Au-Protected Ag Core/Satellite Nanoassemblies for Excellent Extra-/Intracellular Surface-Enhanced Raman Scattering Activity. ACS Applied Materials & Interfaces, 2017, 9, 44027-44037.	4.0	23
21	Production of carbon nanoshell chains by the Co-catalyzed carbonization of wood. Tanso, 2017, 2017, 55-62.	0.1	10
22	Improvement of electron mobility in La:BaSnO3 thin films by insertion of an atomically flat insulating (Sr,Ba)SnO3 buffer layer. AIP Advances, 2016, 6, .	0.6	55
23	Three-Dimensional Imaging of a Long-Period Stacking Ordered Phase in Mg₉₇Zn₁Gd₂ Using High-Voltage Electron Microscopy. Materials Transactions, 2016, 57, 918-921.	0.4	3
24	Nanocrystal growth and morphology of PbTeSe-ZnSe composite thin films prepared by one-step synthesis method. Journal of Applied Physics, 2016, 120, 155301.	1.1	0
25	Behavior of Sn atoms in GeSn thin films during thermal annealing: Ex-situ and in-situ observations. Journal of Applied Physics, 2016, 120, .	1.1	21
26	Crystallization induced ordering of hard magnetic L1 phase in melt-spun FeNi-based ribbons. AIP Advances, 2016, 6, .	0.6	10
27	Thickness dependence of crystal and electronic structures within heteroepitaxially grown<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>thin films. Physical Review B, 2016, 93, .	1.1	11
28	Characterisation of nanoscale carbide precipitation in as-cast Coâ€“Crâ€“W-based dental alloys. Journal of Materials Chemistry B, 2016, 4, 1778-1786.	2.9	9
29	L1₀-type Ordered Phase Formation in Fe-Ni-based Nanocrystalline Alloys. Materia Japan, 2016, 55, 596-596.	0.1	0
30	Structural Heterogeneity of the Melt-spun (Fe, Co)-Si-B-P-Cu Alloy with Excellent Soft Magnetic Properties. Physics Procedia, 2015, 75, 1376-1380.	1.2	8
31	Artificially produced rare-earth free cosmic magnet. Scientific Reports, 2015, 5, 16627.	1.6	67
32	Three-Dimensional Shapes and Distributions of Long-Period Stacking Ordered Structures in Mg₉₇Zn₁Gd₂ Cast Alloys Characterized by Electron Tomography. Materials Transactions, 2015, 56, 928-932.	0.4	6
33	Effect of Focal Depth of HAADF-STEM Imaging on the Solute Enriched Layers in Mg Alloys. Materials Transactions, 2015, 56, 1633-1638.	0.4	12
34	Local Strain Fields of LPSO in Mg-Based Ternary Alloys. Materials Transactions, 2015, 56, 923-927.	0.4	7
35	An Experimental Protocol Development of Three-Dimensional Transmission Electron Microscopy Methods for Ferrous Alloys: Towards Quantitative Microstructural Characterization in Three Dimensions. ISIJ International, 2015, 55, 623-631.	0.6	6
36	Development of a novel straining holder for transmission electron microscopy compatible with single tilt-axis electron tomography. Microscopy (Oxford, England), 2015, 64, 369-375.	0.7	21

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37	Three-Dimensional Imaging of Dislocations in a Tiâ€“35mass%Nb Alloy by Electron Tomography. Materials, 2015, 8, 1924-1933.	1.3	3
38	Atomistic structures of nano-engineered SiC and radiation-induced amorphization resistance. Journal of Nuclear Materials, 2015, 465, 433-437.	1.3	12
39	Discovery of stishovite in Apollo 15299 sample. American Mineralogist, 2015, 100, 1308-1311.	0.9	24
40	Direct imaging of structural heterogeneity of the melt-spun Fe85.2Si2B8P4Cu0.8 alloy. AIP Advances, 2015, 5, 067166.	0.6	9
41	Catalytic activities of sonochemically prepared Au-core/Pd-shell-structured bimetallic nanoparticles immobilised on TiO₂and its dependence on Pd-shell thickness. Journal of Experimental Nanoscience, 2015, 10, 235-247.	1.3	3
42	An Experimental Protocol Development of Three-Dimensional Transmission Electron Microscopy Methods for Ferrous Alloys: Towards Quantitative Microstructural Characterization in Three Dimensions. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 889-896.	0.1	0
43	Stability of amorphous Taâ€“O nanotubes prepared by anodization: Thermal and structural analyses. Journal of Materials Research, 2014, 29, 753-760.	1.2	4
44	Atomic Structure and Phase Transformation of Ferromagnetic L10-type Ordered Alloy Nanoparticles. Materia Japan, 2014, 53, 471-478.	0.1	0
45	Aging Effect on Microstructure of Cold Groove-Rolled α′-Type Ti–12 mass%V–2 mass%Al Alloys Studied by Transmission Electron Microscopy. Materials Transactions, 2014, 55, 763-767.	0.4	4
46	Compositional Transition Layer around Growing LPSO in Mg₉₇Zn₁Y₂ Cast Alloys. Materials Transactions, 2014, 55, 1377-1382.	0.4	3
47	Low-temperature synthesis of oriented CoPtCuâ€“MgO and CoFePtâ€“Agâ€“SiO₂ nanocomposite thin films by rf-magnetron sputtering. Journal of the Ceramic Society of Japan, 2014, 122, 317-321.	0.5	2
48	Thermoelectric properties of Au nanoparticleâ€supported Sb_{1.6}<scp>B</scp>i_{0.4}<scp>T</scp>e₃ synthesized by a Î³â€ray irradiation method. Physica Status Solidi (B): Basic Research, 2014, 251, 162-167.	0.7	9
49	Formation of highly oriented nanopores via crystallization of amorphous Nb2O5 and Ta2O5. Journal of Applied Physics, 2013, 114, 124308.	1.1	7
50	Ion tracks and microstructures in barium titanate irradiated with swift heavy ions: A combined experimental and computational study. Acta Materialia, 2013, 61, 7904-7916.	3.8	18
51	Strain-induced martensitic transformation near twin boundaries in a biomedical Coâ€“Crâ€“Mo alloy with negative stacking fault energy. Acta Materialia, 2013, 61, 1648-1661.	3.8	140
52	Low Temperature Ferromagnetism in Chemically Ordered FeRh Nanocrystals. Physical Review Letters, 2013, 110, 087207.	2.9	39
53	Multi-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>0</mml:mn></mml:msub></mml:math>Domain CoPt and FePt Nanoparticles Revealed by Electron Microscopy. Physical Review Letters, 2013, 110, 055501.	2.9	51
54	Z-Contrast STEM Imaging of Long-Range Ordered Structures in Epitaxially Grown CoPt Nanoparticles. Journal of Nanomaterials, 2013, 2013, 1-6.	1.5	2

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55	TEM Analysis of the Nanostructure of Pb(Mg_{1/3}Nb_{2/3})O₃ Thin Films by MOD Method. Key Engineering Materials, 2013, 582, 19-22.	0.4	2
56	Structure Analysis of Composition Modulation in Epitaxially-Grown IIIâ€“V Semiconductor Alloys. Japanese Journal of Applied Physics, 2013, 52, 110120.	0.8	0
57	Fabrication of highly L1-ordered FePt thin films by low-temperature rapid thermal annealing. APL Materials, 2013, 1, .	2.2	17
58	Structural and Compositional Modulation in Transformation of LPSO Structure in Mg₉₇Zn₁Y₂ Cast Alloys. Materials Transactions, 2013, 54, 668-674.	0.4	35
59	Strong atomic ordering in Gd-doped GaN. Applied Physics Letters, 2012, 101, 101912.	1.5	8
60	Direct imaging of atomic clusters in an amorphous matrix: A Co-C granular thin film. Applied Physics Letters, 2012, 101, 191902.	1.5	10
61	Extensive study of giant magnetoresistance properties in half-metallic Co2(Fe,Mn)Si-based devices. Applied Physics Letters, 2012, 101, .	1.5	162
62	Chemical composition dispersion in bi-metallic nanoparticles: semi-automated analysis using HAADF-STEM. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	12
63	Alloying effects on the phase equilibria among Ni(A1), Ni3Al(L12) and Ni3V(D022) phases. Intermetallics, 2012, 23, 68-75.	1.8	26
64	Electron Microscopy Studies on Magnetic L10-Type FePd Nanoparticles. Advances in Imaging and Electron Physics, 2012, , 165-225.	0.1	6
65	Effect of cooling rate on size-dependent atomic ordering of CoPt nanoparticles. Philosophical Magazine Letters, 2012, 92, 408-416.	0.5	9
66	Suzuki segregation in Coâ€“Ni-based superalloy at 973 K: An experimental and computational study by phase-field simulation. Acta Materialia, 2012, 60, 2901-2915.	3.8	79
67	Electron microscope study of the formation of graphitic nanostructures in nickel-loaded wood char. Carbon, 2012, 50, 3486-3496.	5.4	31
68	Self-elongated growth of nanopores in annealed amorphous Ta2O5 films. Scripta Materialia, 2012, 66, 182-185.	2.6	8
69	Structure and compositional evolution in epitaxial Co/Pt coreâ€“shell nanoparticles on annealing. Thin Solid Films, 2012, 520, 3544-3552.	0.8	11
70	Complex precipitates with long periodic stacking (LPS) phase and precipitation behaviors in the Mg97Zn1Y1.5Nd0.5 alloy by age-annealing. Intermetallics, 2011, 19, 1096-1101.	1.8	9
71	Effect of structural transition on the temperature-dependent magnetic properties of epitaxial FePd alloy nanoparticles. Journal of Physics: Conference Series, 2011, 266, 012042.	0.3	3
72	Room-temperature ductility of Tiâ€“6Alâ€“4V alloy with Î±â€² martensite microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1512-1520.	2.6	132

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73	Orderâ€“disorder transformation in Feâ€“Pd alloy nanoparticles studied by in situ transmission electron microscopy. Thin Solid Films, 2011, 519, 3305-3311.	0.8	22
74	Coesite and stishovite in a shocked lunar meteorite, Asuka-881757, and impact events in lunar surface. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 463-466.	3.3	95
75	3D structures of alloys and nanoparticles observed by electron tomography. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 1-9.	0.3	0
76	Core-Shell Formation and Juxtaposition in Fe and Si Hybrid Clusters Prepared by Controlling the Collision Stages. Materials Transactions, 2010, 51, 1990-1996.	0.4	6
77	Dependence of photocatalytic activities upon the structures of Au/Pd bimetallic nanoparticles immobilized on TiO2 surface. Applied Catalysis B: Environmental, 2010, 94, 248-253.	10.8	107
78	The Effect of Ti Addition on Phase Equilibria among Ni (A1), Ni₃Al (L1₂) and Ni₃V (D0₂₂) Phases. Materials Science Forum, 2010, 654-656, 432-435.	0.3	2
79	Three-dimensional shapes and distribution of FePd nanoparticles observed by electron tomography using high-angle annular dark-field scanning transmission electron microscopy. Journal of Applied Physics, 2010, 107, 024304.	1.1	20
80	Structural evolution, epitaxy, and sublimation of silver nanoclusters on TiO2 (110). Journal of Applied Physics, 2010, 107, 053505.	1.1	3
81	Phase transformation and age-hardening of hexagonal Î±â€² martensite in Tiâ€“12mass%Vâ€“2mass%Al alloys studied by transmission electron microscopy. Journal of Alloys and Compounds, 2010, 506, 607-614.	2.8	21
82	Atomic structure imaging of L10-type FePd nanoparticles by spherical aberration corrected high-resolution transmission electron microscopy. Journal of Applied Physics, 2009, 105, 034308.	1.1	23
83	Direct Observation of a Surface Induced Disordering Process in Magnetic Nanoparticles. Physical Review Letters, 2009, 103, 115703.	2.9	33
84	Characterization of L10-Type FePd Alloy Nanoparticles by Atomic-Resolution HAADF-STEM and Electron Tomography. Microscopy and Microanalysis, 2009, 15, 1262-1263.	0.2	1
85	Intermetallic ordering and structure in Feâ€“Pd alloy nanoparticles. Journal of Applied Physics, 2009, 105, .	1.1	20
86	Electron microscopy study of L1₀â€FePtCu nanoparticles synthesized at 613K. Journal of Microscopy, 2009, 236, 94-99.	0.8	3
87	When atoms move around. Nature Materials, 2009, 8, 924-925.	13.3	46
88	Stabilization of Stacking Faults and a Long Period Stacking Phase Dispersed in α-Mg Crystalline Grains of Mg-0.7 at%Zn-1.4 at%Y Alloy. Materials Transactions, 2009, 50, 222-225.	0.4	49
89	Spontaneous Formation of Nano-scale Phase Separation in TlInGaAsN/TlInP Quantum Well Structures. Materia Japan, 2009, 48, 591-591.	0.1	0
90	Microstructure and Mechanical Properties of α′ Martensite Type Ti Alloys Deformed under the α′ Processing. Materials Transactions, 2009, 50, 2744-2750.	0.4	14

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91	Atomic Structure Imaging of L10-type FePd Nanoparticles by Spherical Aberration Corrected High-Resolution Transmission Electron Microscopy. Materia Japan, 2009, 48, 590-590.	0.1	0
92	Ultrashort-period lateral composition modulation in TlInGaAsN/TlInP structures. Applied Physics Letters, 2009, 94, 153103.	1.5	7
93	Electro-conductivity and nanostructure of wood carbon prepared by nickel-catalyzed carbonization at 900Â°C. Tanso, 2009, 2009, 169-171.	0.1	10
94	Fabrication and properties of Lotus-type porous nickel-free stainless steel for biomedical applications. Materials Science and Engineering C, 2008, 28, 44-50.	3.8	47
95	Magnetically Retrievable Palladium/Maghemite Nanocomposite Catalysts Prepared by Sonochemical Reduction Method. Chemistry Letters, 2008, 37, 922-923.	0.7	12
96	Synthesis of Iron Silicides by Electron-Beam Evaporation: Effects of Substrate Prebaking Temperature and Fe Deposition Thickness. Japanese Journal of Applied Physics, 2007, 46, 732-737.	0.8	4
97	Size-dependent structural transition from multiple-twinned particles to epitaxial fcc nanocrystals and nanocrystal decay. Physical Review B, 2007, 76, .	1.1	18
98	High-resolution transmission electron microscopy analysis of L1 ordering process in Fe/Pd thin layers. Journal of Applied Physics, 2007, 102, .	1.1	19
99	Strong perpendicular magnetic anisotropy of Feâ€“Pd nanocrystalline particles enhanced by Co addition. Journal of Applied Physics, 2007, 101, 033910.	1.1	11
100	Direct Synthesis of Isolated L1₀-FePtCu Nanoparticles by RF-Magnetron Sputtering. Solid State Phenomena, 2007, 127, 129-134.	0.3	1
101	Structure and Magnetic Properties of Nanocrystalline Pd-Co and Pd-Co-Fe Layers. Solid State Phenomena, 2007, 124-126, 907-910.	0.3	3
102	Low-Temperature Synthesis of Ordered L1₀-FePtCu Nanoparticles with High Coercivity. Solid State Phenomena, 2007, 124-126, 855-858.	0.3	0
103	Low-Temperature Atomic Ordering of Oriented L1₀-FePtCu Nanoparticles with High Areal-Density Characterized by Transmission Electron Microscopy and Electron Diffraction. Materials Transactions, 2007, 48, 903-908.	0.4	4
104	Particle size dependence of atomic ordering and magnetic properties of L10-FePd nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 310, 2356-2358.	1.0	21
105	Magnetic properties and microstructure of FePtâ€“Mâ€“B(MZr,Nb,La) films. Journal of Magnetism and Magnetic Materials, 2007, 310, 2527-2528.	1.0	5
106	Improvement of Structural and Magnetic Properties of ${m L}1_{0}$-FePd Nanocrystals by Co Addition. IEEE Transactions on Magnetics, 2007, 43, 3097-3099.	1.2	6
107	Fabrication of oriented L10-FeCuPd and composite bcc-Feâ•L10-FeCuPd nanoparticles: Alloy composition dependence of magnetic properties. Journal of Applied Physics, 2006, 99, 08N706.	1.1	14
108	Order-Disorder Transformation in L1₀-FePd Nanoparticles Studied by Electron Diffraction. Materials Transactions, 2006, 47, 59-62.	0.4	14

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109	Structural characterization of iron silicides nanoparticles grown on Si substrate: Annealing rate dependence. Journal of Materials Science, 2006, 41, 2611-2614.	1.7	1
110	Direct Synthesis of Oriented High-Density Islands of L10-FePtCu Alloy at 613 K. Japanese Journal of Applied Physics, 2006, 45, L608-L610.	0.8	9
111	Transmission electron microscopy study on FeSi2 nanoparticles synthesized by electron-beam evaporation. Journal of Applied Physics, 2006, 100, 014307.	1.1	18
112	Perpendicular magnetic anisotropy of epitaxially grown L10-FePdCu nanoparticles with preferential c-axis orientation. Journal of Applied Physics, 2006, 100, 074914.	1.1	13
113	Two Dimensionally Dispersed Fe/FePd Nanocomposite Particles Synthesized by Electron Beam Deposition. Materials Science Forum, 2005, 502, 275-280.	0.3	3
114	Long-range order parameter of single L10-FePd nanoparticle determined by nanobeam electron diffraction: Particle size dependence of the order parameter. Journal of Applied Physics, 2005, 98, 024308.	1.1	44
115	Determination of order parameter of L10â€“FePd nanoparticles by electron diffraction. Journal of Applied Physics, 2005, 97, 084301.	1.1	15
116	The investigation of multiply twinned L10-type FePt nanoparticles by transmission electron microscopy. Philosophical Magazine, 2004, 84, 2075-2081.	0.7	8
117	Magnetoanisotropy, long-range order parameter and thermal stability of isolated L10 FePt nanoparticles with mutual fixed orientation. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1497-1499.	1.0	8
118	Fabrication of exchange-coupled Î±-Feâ•L10-FePd nanocomposite isolated particles. Journal of Applied Physics, 2004, 96, 3906-3911.	1.1	13
119	Effects of additive element and particle size on the atomic ordering temperature of L10-FePt nanoparticles. Scripta Materialia, 2003, 48, 921-927.	2.6	21
120	Effects of surface step and substrate temperature on nanostructure of L10â€“FePt nanoparticles. Journal of Applied Physics, 2003, 93, 7414-7416.	1.1	10
121	Structure and magnetic property changes of epitaxially grown L10-FePd isolated nanoparticles on annealing. Journal of Applied Physics, 2003, 93, 6291-6298.	1.1	57
122	Long-Range Order Parameter of Oriented L1₀-FePt Nanoparticles Determined by Electron Diffraction. Materials Transactions, 2003, 44, 1518-1522.	0.4	17
123	L10 Type Ordered Phase Formation in Fe-Au Nanoparticles. Japanese Journal of Applied Physics, 2002, 41, L1-L3.	0.8	26
124	Fabrication of oriented L1[sub 0]-FePt and FePd nanoparticles with large coercivity. Journal of Applied Physics, 2002, 91, 8516.	1.1	51
125	Fabrication and nanostructure of oriented FePt particles. Journal of Applied Physics, 2000, 87, 6962-6964.	1.1	76
126	Hard Magnetic Properties of (001) Oriented L10-FePd Nanoparticles Formed at 773 K. Japanese Journal of Applied Physics, 2000, 39, L1121-L1123.	0.8	22

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127	Synthesis and structure of isolated L1/sub 0/ FePt particles. IEEE Transactions on Magnetics, 2000, 36, 3021-3023.	1.2	12
128	Ordering of island-like FePt crystallites with orientations. Applied Physics Letters, 1999, 75, 3686-3688.	1.5	78
129	Structures and magnetic properties of oriented Fe/Au and Fe/Pt nanoparticles on a-Al2O3. Journal of Electron Microscopy, 1999, 48, 753-759.	0.9	42
130	Microstructure and Mechanical Properties of Î±â€™ Martensite Type Ti-V-Al Alloy after Cold- or Hot Working Process. Key Engineering Materials, 0, 436, 171-177.	0.4	3