J Ping Liu

List of Publications by Year in descending order

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65	5,493	147801	114465
papers	citations	31 h-index	63 g-index

67	67	67	4936
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic Materials and Devices for the 21st Century: Stronger, Lighter, and More Energy Efficient. Advanced Materials, 2011, 23, 821-842.	21.0	2,546
2	Synthesis and Stabilization of FeCo Nanoparticles. Journal of the American Chemical Society, 2007, 129, 7214-7215.	13.7	280
3	Advances in nanostructured permanent magnets research. Journal Physics D: Applied Physics, 2013, 46, 043001.	2.8	219
4	Smâ€“Co hard magnetic nanoparticles prepared by surfactant-assisted ball milling. Nanotechnology, 2007, 18, 465701.	2.6	166
5	Dispersible Ferromagnetic FePt Nanoparticles. Advanced Materials, 2009, 21, 906-909.	21.0	155
6	Monodisperse face-centred tetragonal FePt nanoparticles with giant coercivity. Journal Physics D: Applied Physics, 2005, 38, 2306-2309.	2.8	146
7	High Energy Product Developed from Cobalt Nanowires. Scientific Reports, 2014, 4, 5345.	3.3	146
8	Size and Shape Control of Monodisperse FePt Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 4185-4189.	3.1	142
9	Fabrication of bulk nanostructured permanent magnets with high energy density: challenges and approaches. Nanoscale, 2017, 9, 3674-3697.	5.6	118
10	The partitioning of La and Y in Ndâ€“Feâ€“B magnets: A first-principles study. Journal of Alloys and Compounds, 2013, 549, 366-369.	5.5	100
11	Fabrication of bulk nanocomposite magnets via severe plastic deformation and warm compaction. Applied Physics Letters, 2010, 96, .	3.3	96
12	Hard magnetic FePt nanoparticles by salt-matrix annealing. Journal of Applied Physics, 2006, 99, 08E911.	2.5	83
13	Synthesis of Smâ€“Co and Smâ€“Co/Fe nanocrystals by reductive annealing of nanoparticles. Journal of Alloys and Compounds, 2011, 509, 2132-2136.	5.5	55
14	Bulk FePt-based nanocomposite magnets with enhanced exchange coupling. Journal of Applied Physics, 2007, 102, 023908.	2.5	52
15	Synthesis and Characterization of Bimagnetic Bricklike Nanoparticles. Chemistry of Materials, 2008, 20, 475-478.	6.7	49
16	Self-nanoscaling in FeCo alloys prepared via severe plastic deformation. Journal of Alloys and Compounds, 2012, 521, 55-59.	5.5	48
17	Processing of MnBi bulk magnets with enhanced energy product. AIP Advances, 2016, 6, .	1.3	48
18	Morphological and magnetic characterization of Fe, Co, and FeCo nanoplates and nanoparticles prepared by surfactants-assisted ball milling. Journal of Applied Physics, 2011, 109, .	2.5	46

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19	Bimagnetic nanoparticles with enhanced exchange coupling and energy products. Journal of Applied Physics, 2009, 105, .	2.5	44
20	High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. Journal of Applied Physics, 2008, 103, .	2.5	43
21	Large T1 contrast enhancement using superparamagnetic nanoparticles in ultra-low field MRI. Scientific Reports, 2018, 8, 11863.	3.3	43
22	Synthesis of FePt nanorods and nanowires by a facile method. Nanotechnology, 2008, 19, 355601.	2.6	42
23	Anisotropic bonded magnets fabricated via surfactant-assisted ball milling and magnetic-field processing. Journal Physics D: Applied Physics, 2011, 44, 335002.	2.8	42
24	Curie temperatures of annealed FePt nanoparticle systems. Journal of Applied Physics, 2007, 101, 09K505.	2.5	41
25	Effects of particle size and composition on coercivity of Smâ€“Co nanoparticles prepared by surfactant-assisted ball milling. Journal of Applied Physics, 2010, 107, .	2.5	41
26	Synthesis and Characterization of Magnetic FePt/Au Core/Shell Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 13088-13091.	3.1	40
27	Grain boundary modification induced magnetization reversal process and giant coercivity enhancement in 2:17 type SmCo magnets. Journal of Alloys and Compounds, 2019, 785, 429-435.	5.5	37
28	Synthesis and characterization of FeCo nanowires with high coercivity. Nanotechnology, 2015, 26, 075601.	2.6	36
29	Structural phase transition and ferromagnetism in monodisperse 3 nm FePt particles. Journal of Applied Physics, 2007, 102, .	2.5	35
30	Shape control of FePt nanocrystals. Journal of Applied Physics, 2009, 105, 07A749.	2.5	35
31	Rapid thermal annealing of FePt nanoparticles. Journal of Applied Physics, 2008, 104, 013918.	2.5	33
32	High temperature magnetic properties of SmCo5/Î±-Fe(Co) bulk nanocomposite magnets. Applied Physics Letters, 2012, 101, .	3.3	28
33	Effect of selective Co addition on magnetic properties of Nd₂(FeCo)₁₄B/Î±-Fe nanocomposite magnets. Journal Physics D: Applied Physics, 2013, 46, 045001.	2.8	28
34	Effects of magnetic field heat treatment on Smâ€“Co/Î±-Fe nanocomposite permanent magnetic materials prepared by high energy ball milling. Journal of Alloys and Compounds, 2015, 647, 375-379.	5.5	28
35	Direct chemical synthesis of well dispersed L1₀-FePt nanoparticles with tunable size and coercivity. Green Chemistry, 2016, 18, 417-422.	9.0	28
36	First-principles prediction of enhanced magnetic anisotropy in FeCo alloys. Applied Physics Letters, 2008, 92, .	3.3	27

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37	Size-dependent spin-reorientation transition in Nd2Fe14B nanoparticles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3967-3970.	2.1	27
38	Synthesis of monodisperse FeCo nanoparticles by reductive salt-matrix annealing. Nanotechnology, 2013, 24, 345605.	2.6	27
39	Structure and magnetism of SmCo5 nanoflakes prepared by surfactant-assisted ball milling with different ball sizes. Journal of Magnetism and Magnetic Materials, 2013, 347, 116-123.	2.3	24
40	Growth mechanisms and size control of FePt nanoparticles synthesized using Fe(CO)x (x <) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	5.6	23
41	Extraordinary Magnetic Hardening in Nanowire Assemblies: the Geometry and Proximity Effects. Advanced Functional Materials, 2021, 31, 2010157.	14.9	23
42	Effect of grain boundary on magnetization behaviors in 2:17 type SmCo magnet. Journal of Magnetism and Magnetic Materials, 2019, 489, 165459.	2.3	21
43	Growth mechanism and magnetic properties of monodisperse L1₀-Co(Fe)Pt@C coreâ€“shell nanoparticles by one-step solid-phase synthesis. Nanoscale, 2015, 7, 975-980.	5.6	20
44	Highly anisotropic SmCo5 nanoflakes by surfactant-assisted ball milling at low temperature. Journal of Magnetism and Magnetic Materials, 2015, 374, 108-115.	2.3	18
45	Manipulation of morphology and magnetic properties in cobalt nanowires. AIP Advances, 2017, 7, 056229.	1.3	18
46	Effect of ${m RuCl}_{3}$ on Morphology and Magnetic Properties of CoNi Nanowires. IEEE Transactions on Magnetics, 2013, 49, 3273-3276.	2.1	17
47	Magnetic-field-induced self-assembly of FeCo/CoFe₂O₄ core/shell nanoparticles with tunable collective magnetic properties. Nanoscale, 2021, 13, 4519-4529.	5.6	16
48	Strong texture in nanograin bulk Ndâ€“Feâ€“B magnetsviaslow plastic deformation at low temperatures. Nanoscale, 2019, 11, 6062-6071.	5.6	14
49	Morphology and magnetic properties of SmCo3/Î±-Fe nanocomposite magnets prepared via severe plastic deformation. Journal of Applied Physics, 2014, 115, .	2.5	11
50	Observation of L10-like chemical ordering in a decahedral FePt nanoparticle by Cs-corrected high resolution transmission electron microscopy. Journal of Applied Physics, 2009, 105, 07A723.	2.5	9
51	Anisotropic SmCo₅/FeCo core/shell nanocomposite chips prepared via electroless coating. AIMS Materials Science, 2015, 2, 294-302.	1.4	9
52	Magnetic Nanoparticles to Enhance Cell Seeding and Distribution in Tissue Engineering Scaffolds. , 2008, 2008, 646-649.		8
53	PrCo5 nanoflakes prepared by surfactant-assisted ball milling at low temperature. Journal of Applied Physics, 2015, 117, .	2.5	8
54	Effect of thermal fluctuations on magnetization reversal of L1₀ FePt nanoparticles. Journal Physics D: Applied Physics, 2010, 43, 495001.	2.8	7

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55	Fabrication of remarkably magnetic-property-enhanced anisotropic Sm2Fe17Nx nanoflakes by surfactant assisted ball milling at low temperature. Journal of Magnetism and Magnetic Materials, 2020, 498, 166191.	2.3	7
56	The Fe substitution in (M=Si, Ge and Sn): A first-principles study. Computational Materials Science, 2014, 85, 186-192.	3.0	6
57	Coercivity limits in nanoscale ferromagnets. Physical Review B, 2022, 105, .	3.2	6
58	Cleaning of magnetic nanoparticle surfaces via cold plasmas treatments. AIP Advances, 2017, 7, 056233.	1.3	5
59	Magnetic Domain Structure of Sm(Co, Cu, Fe, Zr)$_{m x}$ Thick Permanent Magnetic Films. IEEE Transactions on Magnetics, 2013, 49, 3360-3363.	2.1	4
60	Phase Transformation and Magnetic Hardening in Isolated FePt Nanoparticles. IEEE Nanotechnology Magazine, 2009, 8, 437-443.	2.0	3
61	Evolution of Texture and Magnetic Property in Ndâ€“Prâ€“Feâ€“B-Based Nanocomposite Magnets With Plastic Deformation. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3
62	Effect of Co-substituted soft-phase precursors on structural and magnetic properties of Nd2Fe14B/Fe(Co) nanocomposite materials. Materials Research Express, 2019, 6, 075021.	1.6	2
63	Metallic Magnetic Materials. , 2021, , 1-116.		1
64	Fabrication of bulk nanostructured permanent magnets with high energy density: challenges and approaches. , 0, .		1
65	Metallic Magnetic Materials. , 2021, , 693-808.		0