

# J Ping Liu

## List of Publications by Year in descending order

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65  
papers

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citations

147801

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all docs

67  
docs citations

67  
times ranked

4936  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coercivity limits in nanoscale ferromagnets. Physical Review B, 2022, 105, .	3.2	6
2	Magnetic-field-induced self-assembly of FeCo/CoFe <sub>2</sub> O <sub>4</sub> core/shell nanoparticles with tunable collective magnetic properties. Nanoscale, 2021, 13, 4519-4529.	5.6	16
3	Metallic Magnetic Materials. , 2021, , 1-116.		1
4	Extraordinary Magnetic Hardening in Nanowire Assemblies: the Geometry and Proximity Effects. Advanced Functional Materials, 2021, 31, 2010157.	14.9	23
5	Metallic Magnetic Materials. , 2021, , 693-808.		0
6	Fabrication of remarkably magnetic-property-enhanced anisotropic Sm <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> nanoflakes by surfactant assisted ball milling at low temperature. Journal of Magnetism and Magnetic Materials, 2020, 498, 166191.	2.3	7
7	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
8	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
9	Effect of Co-substituted soft-phase precursors on structural and magnetic properties of Nd <sub>2</sub> Fe <sub>14</sub> B/Fe(Co) nanocomposite materials. Materials Research Express, 2019, 6, 075021.	1.6	2
10	Strong texture in nanograin bulk Nd-Fe-B magnets via slow plastic deformation at low temperatures. Nanoscale, 2019, 11, 6062-6071.	5.6	14
11	Large T1 contrast enhancement using superparamagnetic nanoparticles in ultra-low field MRI. Scientific Reports, 2018, 8, 11863.	3.3	43
12	Fabrication of bulk nanostructured permanent magnets with high energy density: challenges and approaches. Nanoscale, 2017, 9, 3674-3697.	5.6	118
13	Manipulation of morphology and magnetic properties in cobalt nanowires. AIP Advances, 2017, 7, 056229.	1.3	18
14	Cleaning of magnetic nanoparticle surfaces via cold plasmas treatments. AIP Advances, 2017, 7, 056233.	1.3	5
15	Processing of MnBi bulk magnets with enhanced energy product. AIP Advances, 2016, 6, .	1.3	48
16	Direct chemical synthesis of well dispersed L <sub>1</sub> -FePt nanoparticles with tunable size and coercivity. Green Chemistry, 2016, 18, 417-422.	9.0	28
17	Evolution of Texture and Magnetic Property in Nd-Pr-Fe-B-Based Nanocomposite Magnets With Plastic Deformation. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	3
18	Synthesis and characterization of FeCo nanowires with high coercivity. Nanotechnology, 2015, 26, 075601.	2.6	36

#	ARTICLE	IF	CITATIONS
19	Effects of magnetic field heat treatment on Sm <sup>1/2</sup> Co <sup>1/2</sup> -Fe nanocomposite permanent magnetic materials prepared by high energy ball milling. Journal of Alloys and Compounds, 2015, 647, 375-379.	5.5	28
20	PrCo <sub>5</sub> nanoflakes prepared by surfactant-assisted ball milling at low temperature. Journal of Applied Physics, 2015, 117, .	2.5	8
21	Growth mechanism and magnetic properties of monodisperse L1 <sub>0</sub> -Co(Fe)Pt@C core-shell nanoparticles by one-step solid-phase synthesis. Nanoscale, 2015, 7, 975-980.	5.6	20
22	Highly anisotropic SmCo <sub>5</sub> nanoflakes by surfactant-assisted ball milling at low temperature. Journal of Magnetism and Magnetic Materials, 2015, 374, 108-115.	2.3	18
23	Anisotropic SmCo <sub>5</sub> /FeCo core/shell nanocomposite chips prepared via electroless coating. AIMS Materials Science, 2015, 2, 294-302.	1.4	9
24	Morphology and magnetic properties of SmCo <sub>3</sub> -Fe nanocomposite magnets prepared via severe plastic deformation. Journal of Applied Physics, 2014, 115, .	2.5	11
25	The Fe substitution in (M=Si, Ge and Sn): A first-principles study. Computational Materials Science, 2014, 85, 186-192.	3.0	6
26	High Energy Product Developed from Cobalt Nanowires. Scientific Reports, 2014, 4, 5345.	3.3	146
27	Synthesis of monodisperse FeCo nanoparticles by reductive salt-matrix annealing. Nanotechnology, 2013, 24, 345605.	2.6	27
28	Effect of $\{m \text{ RuCl}_3\}$ on Morphology and Magnetic Properties of CoNi Nanowires. IEEE Transactions on Magnetics, 2013, 49, 3273-3276.	2.1	17
29	Magnetic Domain Structure of Sm(Co, Cu, Fe, Zr) <sub>m</sub> Thick Permanent Magnetic Films. IEEE Transactions on Magnetics, 2013, 49, 3360-3363.	2.1	4
30	The partitioning of La and Y in Nd <sup>1/2</sup> Fe <sup>1/2</sup> B magnets: A first-principles study. Journal of Alloys and Compounds, 2013, 549, 366-369.	5.5	100
31	Advances in nanostructured permanent magnets research. Journal Physics D: Applied Physics, 2013, 46, 043001.	2.8	219
32	Growth mechanisms and size control of FePt nanoparticles synthesized using Fe(CO) <sub>x</sub> (x <math>\leq 1</math>). Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	3.6	23
33	Structure and magnetism of SmCo <sub>5</sub> nanoflakes prepared by surfactant-assisted ball milling with different ball sizes. Journal of Magnetism and Magnetic Materials, 2013, 347, 116-123.	2.3	24
34	Effect of selective Co addition on magnetic properties of Nd <sub>2</sub> (FeCo) <sub>14</sub> B <sub>1±</sub> -Fe nanocomposite magnets. Journal Physics D: Applied Physics, 2013, 46, 045001.	2.8	28
35	High temperature magnetic properties of SmCo <sub>5</sub> -Fe(Co) bulk nanocomposite magnets. Applied Physics Letters, 2012, 101, .	3.3	28
36	Self-nanoscaling in FeCo alloys prepared via severe plastic deformation. Journal of Alloys and Compounds, 2012, 521, 55-59.	5.5	48

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37	Anisotropic bonded magnets fabricated via surfactant-assisted ball milling and magnetic-field processing. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 335002.	2.8	42
38	Morphological and magnetic characterization of Fe, Co, and FeCo nanoplates and nanoparticles prepared by surfactants-assisted ball milling. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	46
39	Synthesis of Sm <sup>2+</sup> Co and Sm <sup>2+</sup> Co/Fe nanocrystals by reductive annealing of nanoparticles. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2132-2136.	5.5	55
40	Magnetic Materials and Devices for the 21st Century: Stronger, Lighter, and More Energy Efficient. <i>Advanced Materials</i> , 2011, 23, 821-842.	21.0	2,546
41	Size-dependent spin-reorientation transition in Nd <sub>2</sub> Fe <sub>14</sub> B nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 3967-3970.	2.1	27
42	Effect of thermal fluctuations on magnetization reversal of L1 <sub>0</sub> FePt nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 495001.	2.8	7
43	Fabrication of bulk nanocomposite magnets via severe plastic deformation and warm compaction. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	96
44	Effects of particle size and composition on coercivity of Sm <sup>2+</sup> Co nanoparticles prepared by surfactant-assisted ball milling. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	41
45	Bimagnetic nanoparticles with enhanced exchange coupling and energy products. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	44
46	Observation of L1 <sub>0</sub> -like chemical ordering in a decahedral FePt nanoparticle by Cs-corrected high resolution transmission electron microscopy. <i>Journal of Applied Physics</i> , 2009, 105, 07A723.	2.5	9
47	Dispersible Ferromagnetic FePt Nanoparticles. <i>Advanced Materials</i> , 2009, 21, 906-909.	21.0	155
48	Synthesis and Characterization of Magnetic FePt/Au Core/Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13088-13091.	3.1	40
49	Shape control of FePt nanocrystals. <i>Journal of Applied Physics</i> , 2009, 105, 07A749.	2.5	35
50	Phase Transformation and Magnetic Hardening in Isolated FePt Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 437-443.	2.0	3
51	First-principles prediction of enhanced magnetic anisotropy in FeCo alloys. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	27
52	Rapid thermal annealing of FePt nanoparticles. <i>Journal of Applied Physics</i> , 2008, 104, 013918.	2.5	33
53	Synthesis and Characterization of Bimagnetic Bricklike Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 475-478.	6.7	49
54	Synthesis of FePt nanorods and nanowires by a facile method. <i>Nanotechnology</i> , 2008, 19, 355601.	2.6	42

#	ARTICLE	IF	CITATIONS
55	Magnetic Nanoparticles to Enhance Cell Seeding and Distribution in Tissue Engineering Scaffolds. , 2008, 2008, 646-649.		8
56	High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. Journal of Applied Physics, 2008, 103, .	2.5	43
57	Structural phase transition and ferromagnetism in monodisperse 3 nm FePt particles. Journal of Applied Physics, 2007, 102, .	2.5	35
58	Curie temperatures of annealed FePt nanoparticle systems. Journal of Applied Physics, 2007, 101, 09K505.	2.5	41
59	Bulk FePt-based nanocomposite magnets with enhanced exchange coupling. Journal of Applied Physics, 2007, 102, 023908.	2.5	52
60	Synthesis and Stabilization of FeCo Nanoparticles. Journal of the American Chemical Society, 2007, 129, 7214-7215.	13.7	280
61	Smâ€“Co hard magnetic nanoparticles prepared by surfactant-assisted ball milling. Nanotechnology, 2007, 18, 465701.	2.6	166
62	Size and Shape Control of Monodisperse FePt Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 4185-4189.	3.1	142
63	Hard magnetic FePt nanoparticles by salt-matrix annealing. Journal of Applied Physics, 2006, 99, 08E911.	2.5	83
64	Monodisperse face-centred tetragonal FePt nanoparticles with giant coercivity. Journal Physics D: Applied Physics, 2005, 38, 2306-2309.	2.8	146
65	Fabrication of bulk nanostructured permanent magnets with high energy density: challenges and approaches. , 0, .		1