

Johan Mazo Zuluaga

List of Publications by Year in descending order

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37

papers

388

citations

840776

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docs citations

37

times ranked

506

citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and electronic properties of iron oxide clusters: A first-principles study. <i>Physical Review B</i> , 2009, 80, .	3.2	40
2	Surface anisotropy, hysteretic, and magnetic properties of magnetite nanoparticles: A simulation study. <i>Journal of Applied Physics</i> , 2009, 105, 123907.	2.5	38
3	Surface anisotropy of a Fe ₃ O ₄ nanoparticle: A simulation approach. <i>Physica B: Condensed Matter</i> , 2007, 398, 187-190.	2.7	37
4	Effect of surface anisotropy on the magnetic properties of magnetite nanoparticles: A Heisenbergâ€“Monte Carlo study. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	29
5	Thermally Induced Magnetiteâ€“Haematite Transformation. <i>Hyperfine Interactions</i> , 2003, 148/149, 153-161.	0.5	25
6	Critical behavior of ferromagnetic Ising thin films. <i>Physica B: Condensed Matter</i> , 2006, 384, 227-229.	2.7	25
7	Influence of non-stoichiometry on the magnetic properties of magnetite nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 195213.	1.8	17
8	Thermally Driven and Ball-Milled Hematite to Magnetite Transformation. <i>Hyperfine Interactions</i> , 2003, 148/149, 163-175.	0.5	15
9	Monte Carlo study of the bulk magnetic properties of magnetite. <i>Physica B: Condensed Matter</i> , 2004, 354, 20-26.	2.7	14
10	Synthesis of Magnetite in Presence of Cu ²⁺ or Cr ³⁺ . <i>Hyperfine Interactions</i> , 2001, 134, 141-152.	0.5	13
11	Understanding the loss of electrochemical activity of nanosized LiMn ₂ O ₄ particles: a combined experimental and <i>ab initio</i> DFT study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14967-14974.	10.3	13
12	Magnetite thin films: A simulational approach. <i>Physica B: Condensed Matter</i> , 2006, 384, 224-226.	2.7	12
13	Pseudocritical behavior of ferromagnetic pure and random diluted nanoparticles with competing interactions: Variational and Monte Carlo approaches. <i>Physical Review B</i> , 2011, 83, .	3.2	11
14	Ferrimagnetic to Paramagnetic Transition in Magnetite: MÃ¶ssbauer versus Monte Carlo. <i>Hyperfine Interactions</i> , 2005, 161, 161-169.	0.5	9
15	Physical properties of quasi-one-dimensional MgO and <i>mmml:math</i> <i>xmlns:mmml="http://www.w3.org/1998/Math/MathML"</i> <i>mmml:msub</i> <i>mmml:mi</i> Fe <i>mmml:mi</i> <i>mmml:mn</i> 3 <i>mmml:mn</i> <i>mmml:msub</i> <i>mmml:mathvariant="normal"</i> O <i>mmml:mi</i> <i>mmml:mn</i> 4 <i>mmml:mn</i> <i>mmml:msub</i> <i>mmml:math</i> -based nanostructures. <i>Physical Review B</i> , 2014, 90, .	3.2	9
16	Uniaxial magnetic anisotropy energy of bimetallic Coâ€“Ni clusters from a first-principles perspective. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16528-16539.	2.8	8
17	Bridging the gap between discrete and continuous magnetic models in the scaling approach. <i>Physical Review B</i> , 2015, 91, .	3.2	7
18	Fe/Ni core/shell nanowires and nanorods: a combined first-principles and atomistic simulation study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16267-16275.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Magnetic effects of interstitial hydrogen in nickel. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 421, 7-12.	2.3	7
20	Searching for the nanoscopicâ€“macroscopic boundary. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 154-159.	2.3	6
21	Magnetic properties across intergranular regions of disordered FeMnAl alloys: Theory. <i>Physica B: Condensed Matter</i> , 2007, 398, 364-368.	2.7	5
22	Size dependence study of the ordering temperature in the Fast Monte Carlo method. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	5
23	Finite-length Fe nanowire arrays: the effects of magnetic anisotropy energy, dipolar interaction and system size on their magnetic properties. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 095003.	2.8	5
24	Complex magnetic states in Ni/Fe bi-segmented nanorods. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 740-744.	2.4	4
25	Structural Relaxation and Crystalline Phase Effects on the Exchange Bias Phenomenon in FeF ₂ /Fe Core/Shell Nanoparticles. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000862.	3.7	4
26	Magnetic properties of magnetite above the Verwey transition: a Monte Carlo simulation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 3540-3543.	0.8	3
27	Energy contributions in magnetite nanoparticles: computation of magnetic phase diagram, theory, and simulation. <i>Journal of Nanoparticle Research</i> , 2011, 13, 7115-7125.	1.9	3
28	Sequential oxygen chemisorption on Fe ₁₃ clusters: from first-principles to practical insights. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 485002.	1.8	3
29	Controlling domain wall nucleation and propagation with temperature gradients. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	3
30	Thermal gradients for the stabilization of a single domain wall in magnetic nanowires. <i>Nanotechnology</i> , 2018, 29, 345702.	2.6	3
31	Local structural order in nanostructured hematite. <i>Hyperfine Interactions</i> , 2007, 165, 253-259.	0.5	2
32	Ornstein-Zernike correlations and magnetic ordering in nanostructures. <i>European Physical Journal B</i> , 2014, 87, 1.	1.5	2
33	Physicalâ€“chemical properties of M@Fe ₃ O ₄ core@shell nanowires (M = Cu, Co,) T _j ETQ _{2.8} ^{1.1} 0.784314 rgBT /		
34	Structural stability, shape memory and mechanical properties of Fe/Ni core/shell nanorods. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160206.	5.5	2
35	Ferrimagnetic to Paramagnetic Transition in Magnetite: MÃ¶ssbauer versus Monte Carlo. , 2005, , 161-169.	0	
36	Local structural order in nanostructured hematite. , 2006, , 253-259.	0	

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IF CITATIONS

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| 37 | Low-energy configurations of Pt ₆ Cu ₆ clusters and their physical-chemical characterization: a high-accuracy DFT study. <i>Physical Chemistry Chemical Physics</i> , 0, , . | 2.8 | 0 |
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