P Saravanan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10697698/publications.pdf

Version: 2024-02-01

78 papers	1,756 citations	279798 23 h-index	302126 39 g-index
83 all docs	83 docs citations	83 times ranked	1998 citing authors

#	Article	IF	Citations
1	Domestic microwave supported green synthesis of ZnO nanoparticles for electronic, mechano, rheological and frequency intensifying applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 14144-14158.	2.2	10
2	Dielectric and magnetic properties of Allium cepa and Raphanus sativus extracts biogenic ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2021, 32, 590-603.	2.2	20
3	Study on the field-cooling induced magnetic interactions in Gd-doped NiO nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 493, 165713.	2.3	16
4	Biofriendly and competent domestic microwave assisted method for the synthesis of ZnO nanoparticles from the extract of Azadirachta indica leaves. Materials Today: Proceedings, 2020, 33, 3160-3163.	1.8	27
5	Structural and magnetic properties of rare-earth-free MnAl(MCNT)/Fe nanocomposite magnets processed by resin-bonding technique. Journal of Materials Science: Materials in Electronics, 2020, 31, 9878-9887.	2.2	2
6	Processing and characterization of Ba0.5Sr0.5Fe12O19/Y3Fe5O12 nanocomposite ferrites towards permanent magnet applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 10585-10592.	2.2	7
7	A perspective approach towards appreciable size and cost-effective solar cell fabrication by synthesizing ZnO nanoparticles from Azadirachta indica leaves extract using domestic microwave oven. Journal of Materials Science: Materials in Electronics, 2020, 31, 4301-4309.	2.2	42
8	Enhanced magnetic behavior of hydrogenated Fe and FeCo nanoparticles prepared by chemical reduction method. AIP Conference Proceedings, 2020, , .	0.4	2
9	Influence of He and N2 plasma on in situ surface passivated Fe nanopowders by plasma arc discharge. Journal of Physics Condensed Matter, 2019, 31, 475302.	1.8	2
10	Interfacial layer formation during high-temperature deposition of Sm-Co magnetic thin films on Si (100) substrates. Intermetallics, 2019, 106, 36-47.	3.9	7
11	Studies on magnetoelectric coupling in lead-free [(0.5) BCT-(0.5) BZT]-NiFe2O4 laminated composites at low and EMR frequencies. Journal of Alloys and Compounds, 2018, 743, 240-248.	5.5	24
12	Rapid synthesis of nano-magnetite by thermal plasma route and its magnetic properties. Materials and Manufacturing Processes, 2018, 33, 1701-1707.	4.7	15
13	Structural and magnetic properties of spark plasma sintered Co-Mg-Zn substituted Ba-Sr hexagonal ferrite magnets. Journal of Magnetism and Magnetic Materials, 2018, 448, 243-249.	2.3	4
14	Study on the domain structure and tunable spin orientation in L11-CoPt/NiFe exchange springs with Ta-spacer. Journal of Magnetism and Magnetic Materials, 2018, 448, 316-321.	2.3	1
15	Role of Ta-spacer layer on tuning the tilt angle magnetic anisotropy of L11-CoPt/Ta/NiFe exchange springs. Journal of Magnetism and Magnetic Materials, 2017, 432, 82-89.	2.3	12
16	Effect of magnetic field annealing on the magneto-elastic properties of nanocrystalline NiFe 2 O 4. Journal of Magnetism and Magnetic Materials, 2017, 436, 31-34.	2.3	12
17	Mechanical activation on aluminothermic reduction and magnetic properties of NiO powders. Journal Physics D: Applied Physics, 2017, 50, 21LT01.	2.8	10
18	MWCNT reinforced Ï„-Mn-Al nanocomposite magnets through spark plasma sintering. Journal of Alloys and Compounds, 2017, 695, 364-371.	5.5	7

#	Article	IF	Citations
19	Spark plasma-sintered Sn-based intermetallic alloys and their Li-storage studies. Journal of Solid State Electrochemistry, 2016, 20, 1743-1751.	2.5	12
20	Insights into the nitridation of zero-valent iron nanoparticles for the facile synthesis of iron nitride nanoparticles. RSC Advances, 2016, 6, 45850-45857.	3.6	36
21	Magnetic and electronic properties of hard | soft magnetic interface in (YCo5 | Co) [0001] and (YFe5 | Co) [0001] superlattices. Journal of Magnetism and Magnetic Materials, 2016, 418, 92-98.	2.3	1
22	Enhanced magnetic properties of NiO powders by the mechanical activation of aluminothermic reduction of NiO prepared by a ball milling process. Journal of Magnetism and Magnetic Materials, 2016, 418, 253-259.	2.3	9
23	Influence of Co-substitution on the structural and magnetic properties of nanocrystalline Ba0.5Sr0.5Fe12O19. Journal of Crystal Growth, 2016, 452, 117-124.	1.5	25
24	Particulates vs. fibers: dimension featured magnetic and visible light driven photocatalytic properties of Sc modified multiferroic bismuth ferrite nanostructures. Nanoscale, 2016, 8, 1147-1160.	5.6	49
25	Correlation between static and dynamic magnetic properties of highly perpendicular magnetizedCo49Pt51thin films. Physical Review B, 2015, 92, .	3.2	4
26	Coercivity enhancement in Mn-Al-Cu flakes produced by surfactant-assisted milling. Applied Physics Letters, 2015, 107, 192407.	3.3	20
27	Effect of annealing on the magnetic properties of ball milled NiO powders. Journal of Magnetism and Magnetic Materials, 2015, 384, 296-301.	2.3	18
28	Large scale synthesis and formation mechanism of highly magnetic and stable iron nitride (Îµ-Fe₃N) nanoparticles. RSC Advances, 2015, 5, 56045-56048.	3.6	18
29	Deposition temperature mediated tunable tilt angle magnetization in Coâ€“Pt/Ni81Fe19 exchange springs. Journal of Magnetism and Magnetic Materials, 2015, 381, 382-385.	2.3	2
30	A study on the origin of room temperature ferromagnetism in Ni1âˆ’Gd O nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 394, 179-184.	2.3	13
31	Compliments of confinements: substitution and dimension induced magnetic origin and band-bending mediated photocatalytic enhancements in Bi_{1âˆ’x}Dy_xFeO₃ particulate and fiber nanostructures. Nanoscale, 2015, 7, 10667-10679.	5.6	80
32	A surfactant-assisted high energy ball milling technique to produce colloidal nanoparticles and nanocrystalline flakes in Mnâ€“Al alloys. RSC Advances, 2015, 5, 92406-92417.	3.6	10
33	Modifying exchange-spring behavior of CoPt/NiFe bilayer by inserting a Pt or Ru spacer. Journal of Applied Physics, 2015, 117, 17A715.	2.5	8
34	Processing of Mnâ€“Al nanostructured magnets by spark plasma sintering and subsequent rapid thermal annealing. Journal of Magnetism and Magnetic Materials, 2015, 374, 427-432.	2.3	28
35	Study on the occurrence of spontaneously established perpendicular exchange bias in Co49Pt51/IrMn bilayers. Journal of Applied Physics, 2014, 115, 17D726.	2.5	6
36	Interplay between out-of-plane anisotropic L11-type CoPt and in-plane anisotropic NiFe layers in CoPt/NiFe exchange springs. Journal of Applied Physics, 2014, 115, 243905.	2.5	16

#	Article	IF	Citations
37	Study on the depth profile analysis of Fe/Co intermixing in [SmCo5/Fe]11 magnetic multilayers. Physica B: Condensed Matter, 2014, 448, 2-5.	2.7	0
38	A comparative study on the PMA behavior of 5-nm thick Co49Pt51 films grown at room temperature and at high temperature on glass substrates. Journal of Magnetism and Magnetic Materials, 2014, 361, 7-11.	2.3	8
39	Exchange coupled rare-earth free Mn-Al/Fe nanocomposite magnets by spark plasma sintering. Materials Letters, 2014, 137, 369-372.	2.6	7
40	Electrical and magnetic effect of transition metals in SnSb nanoalloy. Applied Surface Science, 2014, 311, 503-507.	6.1	16
41	Magnetic Properties of FePt based Nanocomposite Thin Films Grown on Low Cost Substrates. Physics Procedia, 2014, 54, 23-29.	1.2	4
42	Annealing temperature mediated physical properties of bismuth ferrite (BiFeO3) nanostructures synthesized by a novel wet chemical method. Materials Research Bulletin, 2013, 48, 2878-2885.	5.2	100
43	Annealing induced compositional changes in SmCo5/Fe/SmCo5 exchange spring trilayers and its impact on magnetic properties. Journal of Alloys and Compounds, 2013, 574, 191-195.	5.5	6
44	Effect of sintering temperature on the structure and magnetic properties of SmCo5/Fe nanocomposite magnets prepared by spark plasma sintering. Intermetallics, 2013, 42, 199-204.	3.9	13
45	Effect of Fe layer thickness and Fe/Co intermixing on the magnetic properties of Smâ€“Co/Fe bilayer exchange-spring magnets. Journal Physics D: Applied Physics, 2013, 46, 155002.	2.8	10
46	Granular films of Fe/Smâ€“Co magnetic nanocomposites through spin-assisted layer-by-layer deposition. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	2
47	Manifestation of weak ferromagnetism and photocatalytic activity in bismuth ferrite nanoparticles. AIP Conference Proceedings, 2013, , .	0.4	6
48	Optimization of sputtering parameters for SmCo thin films using design of experiments. Applied Surface Science, 2012, 261, 110-117.	6.1	7
49	Tailoring the structural and magnetic properties of sol-gel derived Smâ€“Co nanogranular films. Journal of Magnetism and Magnetic Materials, 2012, 324, 1201-1204.	2.3	5
50	Effect of annealing on phase composition, structural and magnetic properties of Sm-Co based nanomagnetic material synthesized by sol-gel process. Journal of Magnetism and Magnetic Materials, 2012, 324, 2158-2162.	2.3	24
51	Enhanced soft magnetic properties in magnetic field annealed amorphous Fe(Co)â€“Zrâ€“B alloys. Journal of Applied Physics, 2011, 109, .	2.5	13
52	Fe₃O₄@mesoporouspolyaniline: A Highly Efficient and Magnetically Separable Catalyst for Crossâ€Coupling of Aryl Chlorides and Phenols. Advanced Synthesis and Catalysis, 2011, 353, 1591-1600.	4.3	66
53	Structural and magnetic properties of self-assembled Smâ€“Co spherical aggregates. Journal of Magnetism and Magnetic Materials, 2011, 323, 2083-2089.	2.3	20
54	Thin magnetic films of Smâ€“Co nanocrystallites exploiting spin coating deposition. Thin Solid Films, 2011, 519, 6290-6296.	1.8	5

#	ARTICLE	IF	CITATIONS
55	Highly anisotropic resin-bonded magnets processed with surfactant-coated SmCo5 nanocrystalline powders. Journal of Magnetism and Magnetic Materials, 2009, 321, 3138-3143.	2.3	18
56	Effect of Co or Mn addition on the soft magnetic properties of amorphous Fe89â^'xZr11Bx (x=5, 10) alloy ribbons. Journal of Magnetism and Magnetic Materials, 2009, 321, 4097-4102.	2.3	17
57	Effect of sintering temperature on the structure and magnetic properties of SmCo5/Fe nanocomposite magnets prepared by spark plasma sintering. Intermetallics, 2009, 17, 517-522.	3.9	18
58	Textured resin-bonded Sm(Co,Fe,Cu)5 nanostructured magnets exploiting magnetic field and surfactant-assisted milling. Journal of Alloys and Compounds, 2009, 477, 322-327.	5.5	30
59	Study on morphology and magnetic behavior of SmCo5 and SmCo5/Fe nanoparticles synthesized by surfactant-assisted ball milling. Journal of Alloys and Compounds, 2009, 480, 645-649.	5.5	35
60	Structural and MÃ¶ssbauer studies on mechanical milled SmCo5/Î±-Fe nanocomposite magnetic powders. Intermetallics, 2008, 16, 636-641.	3.9	11
61	Microstructure, magnetic and MÃ¶ssbauer studies on spark-plasma sintered Smâ€"Coâ€"Fe/Fe(Co) nanocomposite magnets. Journal Physics D: Applied Physics, 2008, 41, 065001.	2.8	15
62	SmCo₅/Fe nanocomposite magnetic powders processed by magnetic field-assisted ball milling with and without surfactant. Journal Physics D: Applied Physics, 2007, 40, 5021-5026.	2.8	25
63	A liquidâ^'liquid interface technique to form films of CuO nanowhiskers. Thin Solid Films, 2005, 491, 168-172.	1.8	30
64	Simple Enantiospecific Syntheses of the C(2)-Diastereomers of Omuralide and 3-Methylomuralide. Organic Letters, 2005, 7, 2703-2705.	4.6	11
65	Synthesis of ZnO and ZnS nanocrystals by thermal decomposition of zinc(II) cupferron complex. Materials Letters, 2004, 58, 3528-3531.	2.6	20
66	A Simple Stereocontrolled Synthesis of Salinosporamide A. Journal of the American Chemical Society, 2004, 126, 6230-6231.	13.7	243
67	Title is missing!. Journal of Materials Science Letters, 2003, 22, 1283-1285.	0.5	23
68	Films of Metal Nanocrystals Formed at Aqueousâ^'Organic Interfacesâ€. Journal of Physical Chemistry B, 2003, 107, 7391-7395.	2.6	125
69	A Short, Stereocontrolled, and Practical Synthesis of Î±-Methylomuralide, a Potent Inhibitor of Proteasome Function. Journal of Organic Chemistry, 2003, 68, 2760-2764.	3.2	63
70	Arrays of magnetic nanoparticles capped with alkylamines. Pramana - Journal of Physics, 2002, 58, 371-383.	1.8	10
71	Experimental design and performance analysis of alumina coatings deposited by a detonation spray process. Journal Physics D: Applied Physics, 2001, 34, 131-140.	2.8	28
72	Submicron particles of Co, Ni and Co-Ni alloys. Bulletin of Materials Science, 2001, 24, 515-521.	1.7	41

#	Article	IF	Citations
73	Influence of spraying variables on structure and properties of plasma sprayed alumina coatings. Advances in Applied Ceramics, 2000, 99, 241-247.	0.4	9
74	Influence of process variables on the quality of detonation gun sprayed alumina coatings. Surface and Coatings Technology, 2000, 123, 44-54.	4.8	57
75	Study of plasma- and detonation gun-sprayed alumina coatings using taguchi experimental design. Journal of Thermal Spray Technology, 2000, 9, 505-512.	3.1	30
76	Application of Taguchi Method to the Optimization of Detonation Spraying Process. Materials and Manufacturing Processes, 2000, 15, 139-153.	4.7	8
77	Study of Plasma- and Detonation Gun-Sprayed Alumina Coatings Using Taguchi Experimental Design. Journal of Thermal Spray Technology, 2000, 9, 505-512.	3.1	2
78	Sparking potentials in cusp and magnetic mirror fields. Plasma Devices and Operations, 1999, 7, 51-63.	0.6	0