

Subramanian Annapoorni

List of Publications by Year in descending order

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73
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471509

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all docs

73
docs citations

73
times ranked

1408
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Stabilized Carbon- L_{10} FePt Nanoparticles for Heated Dot Recording Media. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	85
2	Synthesis and characterization of a copolymer: Poly(aniline-co-fluoroaniline). Journal of Applied Polymer Science, 2001, 81, 1460-1466.	2.6	84
3	Fluorescence From Metallic Silver and Iron Nanoparticles Prepared by Exploding Wire Technique. Plasmonics, 2007, 2, 5-13.	3.4	77
4	Understanding the origin of ferromagnetism in Er-doped ZnO system. RSC Advances, 2016, 6, 89242-89249.	3.6	57
5	Phase change induced by polypyrrole in iron-oxide polypyrrole nanocomposite. Bulletin of Materials Science, 2001, 24, 563-567.	1.7	49
6	Ag-Au alloy nanoparticles prepared by electro-exploding wire technique. Journal of Nanoparticle Research, 2008, 10, 1027-1036.	1.9	48
7	Possibility of room-temperature multiferroism in Mg-doped ZnO. Applied Physics A: Materials Science and Processing, 2014, 114, 453-457.	2.3	45
8	Effects of swift heavy ions irradiation on polypyrrole thin films. Radiation Effects and Defects in Solids, 2008, 163, 139-147.	1.2	31
9	Single domain magnetic arrays: role of disorder and interactions. European Physical Journal B, 2004, 39, 19-25.	1.5	26
10	Electronic states of self stabilized L_{10} FePt alloy nanoparticles. Applied Physics A: Materials Science and Processing, 2012, 109, 403-408.	2.3	26
11	Impact of interfacial interactions on optical and ammonia sensing in zinc oxide/polyaniline structures. Bulletin of Materials Science, 2013, 36, 647-652.	1.7	25
12	Fluorescent silver nanoparticles via exploding wire technique. Pramana - Journal of Physics, 2005, 65, 815-819.	1.8	24
13	Colloidal dispersions of polyindole. Colloid and Polymer Science, 2005, 283, 575-582.	2.1	23
14	A New Route to Glucose Sensing Based on Surface Plasmon Resonance Using Polyindole. Plasmonics, 2013, 8, 487-494.	3.4	21
15	Evolution and growth mechanism of hexagonal ZnO nanorods and their LPG sensing response at low operating temperature. Sensors and Actuators A: Physical, 2019, 293, 207-214.	4.1	21
16	Competing magnetic interactions in nickel ferrite nanoparticle clusters: Role of magnetic interactions. Journal of Applied Physics, 2008, 104, .	2.5	19
17	Magnetic memory effects in nickel ferrite/polymer nanocomposites. Applied Physics Letters, 2014, 104, .	3.3	18
18	Metal oxide/polyaniline nanocomposites: Cluster size and composition dependent structural and magnetic properties. Bulletin of Materials Science, 2008, 31, 409-413.	1.7	17

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19	Enhancement in Photocatalytic Activity of SrTiO ₃ by Tailoring Particle Size and Defects. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900294.	1.8	17
20	Temperature-dependent magnetic and structural ordering of self-assembled magnetic array of FePt nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	16
21	Facile strategy to synthesize donut-shaped γ -Fe ₂ O ₃ nanoparticles for enhanced LPG detection. Sensors and Actuators B: Chemical, 2021, 334, 129668.	7.8	15
22	Preparation, characterization and optical properties of γ -Fe ₂ O ₃ films by sol-spinning process. Bulletin of Materials Science, 1998, 21, 381-385.	1.7	14
23	Role of anisotropy and interactions in magnetic nanoparticle systems. European Physical Journal B, 2010, 74, 75-80.	1.5	14
24	Is Curie-Weiss law valid in every ferro-to-para transition?. Applied Physics Letters, 2005, 87, 102507.	3.3	13
25	Effect of field dependent trap occupancy on organic thin film transistor characteristics. Journal of Applied Physics, 2003, 94, 5302.	2.5	12
26	ZnO/PPy Hybrid Heterojunction as an Ultraviolet Photosensor. Journal of Electronic Materials, 2013, 42, 1235-1241.	2.2	12
27	Exchange hardening in FePt/Fe ₃ Pt dual exchange spring magnet: Monte Carlo modeling. Journal of Alloys and Compounds, 2017, 695, 1014-1019.	5.5	12
28	Interaction of oxygen (O ⁺) ion beam on polyaniline thin films. Indian Journal of Physics, 2009, 83, 943-947.	1.8	11
29	Effects of an oxygen ⁺ ion beam (O ⁺ , 100 MeV) and γ irradiation on polypyrrole films. Journal of Applied Polymer Science, 2010, 115, 2502-2507.	2.6	11
30	ZnO nanoparticles prepared by an electroexploding wire technique. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2153-2158.	1.8	11
31	Synthesis and characterization of Au-alumina nanocomposites prepared by atom beam co-sputtering. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2499-2504.	1.8	11
32	Axonic Au Tips Induced Enhancement in Raman Spectra and Biomolecular Sensing. Plasmonics, 2015, 10, 617-623.	3.4	11
33	Growth of cobalt nanoparticles in Co-Al ₂ O ₃ thin films deposited by RF sputtering. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1309-1316.	1.8	10
34	Studies of Exchange Coupling in FeCo/L ₁ -FePt Bilayer Thin Films. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	10
35	Spin Pumping in Asymmetric Fe ₅₀ Pt ₅₀ /Cu/Fe ₂₀ Ni ₈₀ Trilayer Structure. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900267.	2.4	9
36	Memory effect in smectic-A phase of ferroelectric liquid crystal. Journal of Applied Physics, 2005, 97, 084106.	2.5	8

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37	Structure and Transport Properties of Nickel-Implanted CoSb ₃ Skutterudite Thin Films Synthesized via Pulsed Laser Deposition. ACS Applied Energy Materials, 2018, 1, 5879-5886.	5.1	8
38	Origin of intense blue-green emission in SrTiO_3 thin films with implanted nitrogen ions: An investigation by synchrotron-based experimental techniques. Physical Review B, 2021, 103, .	3.2	8
39	Correlation of interlayer diffusion with the stoichiometric composition of RF sputtered Pt/Co/Pt sandwiched structures. Journal of Materials Science, 2013, 48, 3192-3197.	3.7	7
40	Modelling of strain induced magnetic anisotropy in Au additive FePt thin films. Progress in Natural Science: Materials International, 2019, 29, 517-524.	4.4	7
41	Facile Synthesis of Highly Magnetic Long-term Stable FeCo Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1653-1657.	1.8	7
42	Effect of thermal annealing on thermoelectric properties of BixSb ₂ xTe ₃ thin films grown by sputtering. Journal of Applied Physics, 2020, 127, 245108.	2.5	6
43	Interaction effects in magnetic oxide nanoparticle systems. Pramana - Journal of Physics, 2005, 65, 739-743.	1.8	5
44	Origin of open recoil curves in L10-A1 FePt exchange coupled nanocomposite thin film. Journal of Magnetism and Magnetic Materials, 2016, 418, 200-205.	2.3	5
45	Dense-plasma-driven ultrafast formation of FePt organization on silicon substrate. Bulletin of Materials Science, 2017, 40, 233-238.	1.7	5
46	Exchange stiffness variation for thermally annealed FeCo thin films. AIP Conference Proceedings, 2018, , .	0.4	5
47	Synthesis of ZnO@Ag dumbbells for highly efficient visible-light photocatalysts. Journal of Physics Condensed Matter, 2020, 32, 405202.	1.8	5
48	Photo generated charge transport studies of defects-induced shuttlecock-shaped ZnO/Ag hybrid nanostructures. Nanotechnology, 2021, 32, 305708.	2.6	5
49	Enhanced Bio-molecular Sensing Capability of LSPR, SPR-ATR Coupled Technique. , 2009, , .		4
50	Nonstoichiometric FePt Nanoclusters for Heated Dot Magnetic Recording Media. ACS Applied Nano Materials, 2021, 4, 7079-7085.	5.0	4
51	Pinning-assisted out-of-plane anisotropy in reverse stack FeCo/FePt intermetallic bilayers for controlled switching in spintronics. Journal of Alloys and Compounds, 2021, 877, 160249.	5.5	4
52	Dispersion of laser droplets using H ⁺ ions and annealing effect on pulsed laser deposited nickel ferrite thin films. Applied Physics A: Materials Science and Processing, 2011, 105, 233-238.	2.3	3
53	Effect of thermal annealing on structural, electrical and thermoelectric properties of p-type Bi _{0.5} Sb _{1.5} Te ₃ . AIP Conference Proceedings, 2019, , .	0.4	3
54	Domain observation in electrochemically deposited FeCo nano-rods by MOKE microscopy and micromagnetics. Journal of Magnetism and Magnetic Materials, 2020, 497, 166064.	2.3	3

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55	Bandgap engineering in SrTiO ₃ thin films by electronic excitations: A synchrotron-based spectroscopic study. Scripta Materialia, 2021, 195, 113725.	5.2	3
56	Structural and optical properties of low energy nitrogen ion implanted SrTiO ₃ thin films. AIP Conference Proceedings, 2017, . .	0.4	2
57	Tuning Optical Properties in Nanocomposites. International Journal of Nanoscience, 2020, 19, 1950026.	0.7	2
58	FeCo nanoparticles as antibacterial agents with improved response in magnetic field: an insight into the associated toxicity mechanism. Nanotechnology, 2021, 32, 335101.	2.6	2
59	Domain state modulation by interfacial diffusion in FePt/FeCo thin films: experimental approach with micromagnetic modelling. Journal of Physics Condensed Matter, 2021, 33, 335805.	1.8	2
60	Effects of Li and Au ion beams irradiation on Makrofol-KG. Radiation Effects and Defects in Solids, 2013, 168, 580-586.	1.2	1
61	Structural and magnetic transformation in electrochemically synthesized FePt thin films on Si/Pt electrodes. , 2014, . .		1
62	Au@ZnO hybrid nanostructures prepared by electro-exploding wire technique: Raman signal enhancement and photoluminescence emission quenching. Journal of Materials Science, 2014, 49, 8386-8393.	3.7	1
63	Defect Induced Ferromagnetism in Zn/ZnO Interfaces. Crystal Research and Technology, 2018, 53, 1700293.	1.3	1
64	Modelling of Pinning-Depinning Reversal Mechanism in Ion-Irradiated Co/Al ₂ O ₃ Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800141.	1.8	1
65	Composite Nanostructures for Enhanced Plasmonics. Materials Science Forum, 2019, 950, 165-169.	0.3	1
66	A study on defect annealing in GaAs nanostructures by ion beam irradiation. Bulletin of Materials Science, 2020, 43, 1.	1.7	1
67	Magnetization Reversal Behavior in Electrodeposited Fe-Co-Ni Thin Films. IEEE Transactions on Magnetics, 2022, 58, 1-7.	2.1	1
68	Designed Synthesis of Fe _x Co _{100-x} Alloy Nanoparticles by Polyol Reduction: An Evolution of Structural, Morphological and Magnetic Properties. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	1
69	Magnetization reversal across multiple serial barriers in a single $\text{Fe}_{3.2}\text{O}_{4.1}$ nanoparticle. Physical Review B, 2022, 105, . .	3.2	1
70	Fabrication of PANI/ZnO heterojunction. , 2014, . .		0
71	Gold nanoparticles prepared by electro-exploding wire technique in aqueous solutions. AIP Conference Proceedings, 2016, . .	0.4	0
72	Gallium arsenide/gold nanostructures deposited using plasma method. AIP Conference Proceedings, 2016, . .	0.4	0

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73	Plasmonic response of gold nanoparticle in ZnO-Au hybrid structure. AIP Conference Proceedings, 2019, , .	0.4	0