

Satish Vitta

List of Publications by Year in descending order

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100
papers

1,141
citations

516215

16
h-index

476904

29
g-index

103
all docs

103
docs citations

103
times ranked

1481
citing authors

#	ARTICLE	IF	CITATIONS
1	Cementitious and pozzolanic behavior of electric arc furnace steel slags. <i>Cement and Concrete Research</i> , 2009, 39, 102-109.	4.6	185
2	Sonochemical stabilization of ultrafine colloidal biocompatible magnetite nanoparticles using amino acid, l-arginine, for possible bio applications. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 730-737.	3.8	60
3	Electrical and magnetic properties of nanocrystalline Fe _{100-x} Ni _x alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 182-189.	1.0	44
4	High Thermoelectric Performance in Mg ₂ (Si _{0.3} Sn _{0.7}) by Enhanced Phonon Scattering. <i>ACS Applied Energy Materials</i> , 2019, 2, 2129-2137.	2.5	44
5	Solidification of germanium at high undercoolings: morphological stability and the development of grain structure. <i>Acta Metallurgica Et Materialia</i> , 1990, 38, 233-242.	1.9	38
6	Ni and NiO nickel oxide nanoparticles with different shapes and a core-shell structure. <i>Thin Solid Films</i> , 2006, 505, 109-112.	0.8	38
7	Magnetolectric and magnetodielectric coupling and microwave resonator characteristics of Ba _{0.5} Sr _{0.5} Nb ₂ O ₆ /CoCr _{0.4} Fe _{1.6} O ₄ multiferroic composite. <i>Scientific Reports</i> , 2018, 8, 11619.	1.6	37
8	NiO bacterial cellulose nanocomposite; a magnetically active inorganic-organic hybrid gel. <i>RSC Advances</i> , 2013, 3, 12765.	1.7	32
9	Enhancement of thermoelectric power factor by inducing octahedral ordering in $\text{La}_{1-x}\text{Ni}_x\text{O}_{6-2x}$ double perovskites. <i>Physical Review B</i> , 2019, 99, .	1.1	30
10	Realizing high figure-of-merit in Cu ₂ Te using a combination of doping, hierarchical structure, and simple processing. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	28
11	Magnetically responsive bacterial cellulose: Synthesis and magnetic studies. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	27
12	Structure and properties of reactivity sputtered $\text{Ti}^3\text{-Mo}_2\text{N}$ hard coatings. <i>Thin Solid Films</i> , 1994, 245, 1-3.	0.8	24
13	Structure of CdS/Arachidate/Arachidic Acid Composite Multilayers. <i>Langmuir</i> , 1998, 14, 1799-1803.	1.6	21
14	Effect of divalent Ba cation substitution with Sr on coupled \tilde{A}^{\sim} multiglass \tilde{A}^{\sim} state in the magnetolectric multiferroic compound Ba ₃ NbFe ₃ Si ₂ O ₁₄ . <i>Scientific Reports</i> , 2015, 5, 9751.	1.6	20
15	Structure of CdS/arachidic acid composite LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 59-66.	2.3	17
16	Giant Enhancement in High-Temperature Thermoelectric Figure-of-Merit of Layered Cobalt Oxide, LiCo ₂ , Due to a Dual Strategy Co-Substitution and Lithiation. <i>Inorganic Chemistry</i> , 2017, 56, 5827-5838.	1.9	17
17	Bacterial cellulose based flexible multifunctional nanocomposite sheets. <i>Cellulose</i> , 2017, 24, 3341-3351.	2.4	17
18	Synthesis, structure and thermoelectric properties of $\text{La}_{1-x}\text{Na}_x\text{CoO}_3$ perovskite oxides. <i>Bulletin of Materials Science</i> , 2017, 40, 1291-1299.	0.8	17

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19	Metastable phases formed by nanosecond laser-quenching of metals and binary alloys. <i>Materials Science and Engineering</i> , 1988, 98, 105-109.	0.1	16
20	Molecular packing in cadmium and zinc arachidate LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 75-81.	2.3	16
21	Synthesis and properties of nanograined La-Ca-manganite-Ni-ferrite composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 139, 171-176.	1.7	15
22	Solidification of Fe ₄₀ Ni ₄₀ B ₂₀ at high undercooling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991, 133, 799-802.	2.6	14
23	Thermal stability of 2.4 nm period Ni-Nb/C multilayer x-ray mirror. <i>Applied Physics Letters</i> , 2000, 77, 3654-3656.	1.5	14
24	Molecular packing in CdS containing conducting polymer composite LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 67-74.	2.3	14
25	Nonlinear spin wave magnetization of solution synthesized Ni nanoparticles. <i>Journal of Applied Physics</i> , 2007, 101, 063901.	1.1	14
26	Remarkable Improvement of Thermoelectric Figure-of-Merit in SnTe through In Situ-Created Te Nano-inclusions. <i>ACS Applied Energy Materials</i> , 2020, 3, 7113-7120.	2.5	14
27	Low temperature coefficient of resistivity Ag-Cd and Ag-Sn alloys structure and transport. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 107, 53-57.	1.7	13
28	Increasing figure-of-merit of ZrNiSn half-Heusler alloy by minimal substitution and thermal conductivity reduction. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6139-6147.	1.1	13
29	Structural assembly of Cd-arachidate molecules in multilayers. <i>Journal of Chemical Physics</i> , 1999, 111, 11088-11094.	1.2	12
30	Enhancing the thermoelectric performance of a p-type half-Heusler alloy, HfCoSb by incorporation of a band-matched chalcogenide, Cu ₂ Te. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14709-14716.	5.2	12
31	Ultralow thermal conductivity and low charge carrier scattering potential in Zn _{1-x} Cd _x Sb solid solutions for thermoelectric application. <i>Materials Today Energy</i> , 2019, 12, 107-113.	2.5	12
32	Interparticle interactions mediated superspin glass to superferromagnetic transition in Ni-bacterial cellulose aerogel nanocomposites. <i>Journal of Applied Physics</i> , 2016, 119, 244312.	1.1	11
33	Electromigration failure in YBa ₂ Cu ₃ O _{7-x} thin films. <i>Applied Physics Letters</i> , 1991, 58, 759-761.	1.5	10
34	ZnS nanoclusters in LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 177-182.	2.3	10
35	Microstructural evolution and magnetic properties of size-controlled nanocrystalline Ni in Ni(OH) ₂ -ZrO ₂ composite. <i>Journal of Materials Research</i> , 2007, 22, 1520-1526.	1.2	10
36	Large low field room temperature magneto-dielectric response from (Sr _{0.5} Ba _{0.5})Nb ₂ O ₆ /Co(Cr _{0.4} Fe _{1.6})O ₄ bulk 3-0 composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 204, 1-7.	1.7	10

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37	The limits of glass formation by pulsed laser quenching in Nb–Ni alloys. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 2209-2214.	1.0	9
38	Rapid solidification of cobalt-titanium alloys induced by nanosecond laser pulses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 179-180, 243-248.	2.6	9
39	Structure and normal incidence soft-x-ray reflectivity of Ni–Nb/C amorphous multilayers. <i>Applied Optics</i> , 1997, 36, 1472.	2.1	9
40	Microstructure of pulsed laser deposited ceramic–metal and polymer–metal nanocomposite thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 1233-1235.	1.1	9
41	Structure of polymorphic phases in zinc arachidate LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 243-249.	2.3	9
42	Interface quality and thermal stability of laser-deposited metal/MgO multilayers. <i>Applied Optics</i> , 2004, 43, 6265.	2.1	8
43	Flexible bacterial cellulose / permalloy nanocomposite xerogel sheets – Size scalable magnetic actuator-cum-electrical conductor. <i>AIP Advances</i> , 2017, 7, 035107.	0.6	8
44	Transport and magnetic properties of encapsulated Ni-Ni-O/Zr-O nanostructures. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3298-3300.	1.2	7
45	Enhancing Thermoelectric Figure-of-Merit of Polycrystalline Na _y CoO ₂ by a Combination of Non-stoichiometry and Co-substitution. <i>Journal of Electronic Materials</i> , 2018, 47, 3230-3237.	1.0	7
46	Enhanced Thermoelectric Performance in Mg ₂ Si by Functionalized Co-Doping. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700829.	0.8	7
47	Alloy–ceramic oxide multilayer mirrors for water-window soft x rays. <i>Optics Letters</i> , 2001, 26, 1448.	1.7	6
48	Structure and properties of La–Ca–Mn–O composites prepared by the glass-ceramic method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 113, 50-55.	1.7	6
49	Thermophysical and magnetic properties of p- and n-type Ti-Ni-Sn based half-Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2017, 710, 191-198.	2.8	6
50	Magnetic behavior of Ni substituted LiCoO ₂ – Magnetization and electron paramagnetic resonance studies. <i>Materials Chemistry and Physics</i> , 2017, 198, 266-274.	2.0	6
51	Optimization of Thermoelectric Properties of Mechanically Alloyed p-Type SiGe by Mathematical Modelling. <i>Journal of Electronic Materials</i> , 2019, 48, 649-655.	1.0	6
52	Giant magnetoresistance in laser-deposited permalloy/Ag multilayers. <i>Journal of Applied Physics</i> , 2002, 92, 1171-1173.	1.1	5
53	Synthesis of Shape Controlled Ferrite Nanoparticles by Sonochemical Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4268-4272.	0.9	5
54	Effect of Nickel Ferrite on Electrical and Magnetic Properties in LCMO: Nickel Ferrite Nanocomposites. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2728-2731.	1.2	5

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55	Low temperature dielectric dispersion and relaxor like behavior in multiferroic Ba ₃ NbFe ₃ Si ₂ O ₁₄ . Journal of Applied Physics, 2012, 111, .	1.1	5
56	Magnetic nanoparticles through sonochemistry. Materials Technology, 2008, 23, 88-93.	1.5	4
57	Enhanced dielectric constant and relaxor behavior realized by dual stage sintering of Sr _{0.5} Ba _{0.5} Nb ₂ O ₆ . AIP Conference Proceedings, 2014, , .	0.3	4
58	Thermoelectric properties of rare earth containing type-I Clathrate compound, Dy ₈ Al ₁₆ Si ₃₀ . Journal of Materials Science: Materials in Electronics, 2016, 27, 10303-10308.	1.1	4
59	Enhanced magnetic moment and curie temperature due to co-substitution in Heusler alloys Fe ₂ â ^x Co _x MnSi. Journal of Materials Science: Materials in Electronics, 2018, 29, 1420-1425.	1.1	4
60	Bacterial Cellulose Based Nanocomposites for Electronic and Energy Applications. , 2020, , 16-25.		4
61	p-type High Temperature Thermoelectric Behavior of Dy Filled CoSb ₃ and Fe _{1.5} Co _{2.5} Sb ₁₂ and Their Magnetic Properties. ACS Applied Energy Materials, 2020, 3, 6644-6656.	2.5	4
62	Study of Pt/C X-Ray Multilayer Structure as a Function of Layer Period Using X-Ray Scattering. Japanese Journal of Applied Physics, 1999, 38, 289.	0.8	4
63	Effect of double doping, Li and Se, on the high-temperature thermoelectric properties of Cu ₂ Te. Journal of Materials Science: Materials in Electronics, 2020, 31, 4129-4134.	1.1	4
64	Structure and temperature dependence of conductivity of Ag _{2.5} Seâ€Se composite. Journal of Applied Physics, 1990, 68, 3413-3417.	1.1	3
65	Temperature dependence of the anisotropy in magnetic relaxation in YBa ₂ /Cu ₃ /O ₇₋₂ / thin films. IEEE Transactions on Magnetics, 1991, 27, 1083-1085.	1.2	3
66	Conduction mechanism in crystalline InSeâ€In ₆ Se ₇ composite. Solid State Communications, 1992, 81, 47-49.	0.9	3
67	Kinetics of growth of the Ti-Co. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 1869-1875.	1.4	3
68	Thermal-history-dependent magnetization behaviour in Cr/Cu multilayers. Philosophical Magazine Letters, 1995, 71, 107-112.	0.5	3
69	Free standing Cu ₂ Te, new anode material for sodium-ion battery. AIP Conference Proceedings, 2018, , .	0.3	3
70	A â€mixedâ€™ dielectric response in langasite Ba ₃ NbFe ₃ Si ₂ O ₁₄ . Physical Chemistry Chemical Physics, 2021, 23, 554-562.	1.3	3
71	Tuning the nature of charge carriers by controlling dual substitution in single-filled thermoelectric skutterudite, Yb-CoSb ₃ . Emergent Materials, 2020, 3, 195-201.	3.2	3
72	Influence of zinc content and grain size on enhanced thermoelectric performance of optimally doped ZnSb. Materials Research Bulletin, 2022, 149, 111702.	2.7	3

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73	Structure and stability of 2.4 nm period amorphous Ni ₅₀ Nb ₅₀ /C multilayers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 57, 165-169.	1.7	2
74	Mixed mode electrical transport behavior in nanocrystalline La-Ca-Manganite synthesized by microwave refluxing. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 2790-2799.	0.8	2
75	Thermoelectric properties of ultra-low thermal conductivity half-Heusler alloy. AIP Conference Proceedings, 2016, , .	0.3	2
76	Effect of Trivalent Rare Earth, Dy ³⁺ Substitution for Ba ²⁺ on Low Temperature Magnetic and High Temperature Thermoelectric Properties of Type-I Clathrate, Ba ₈ Al ₁₆ Si ₃₀ . ACS Applied Energy Materials, 2019, 2, 4255-4263.	2.5	2
77	Vacancy induced anomalies in the electrical transport properties of Ag-doped Zn _{1-x} Cd _x Sb (x=0.375) solid solutions. Applied Physics Letters, 2022, 120, 032102.	1.5	2
78	Structure and electron transport anomalies in InSe ₆ Sn ₇ composite. Journal of Applied Physics, 1989, 66, 5885-5889.	1.1	1
79	Rapid solidification of polymorphic transition metals induced by nanosecond laser pulses. Applied Physics Letters, 1991, 59, 411-413.	1.5	1
80	Microstructural dependence of electrical transport in bulk Cu _x Ge _{1-x} alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 52, 185-188.	1.7	1
81	Ni ₅₀ Nb ₅₀ /C amorphous multilayers for "water window" soft X-rays " structure and stability. Vacuum, 2001, 60, 389-394.	1.6	1
82	Structure and scattering properties of Ni ₈₀ Nb ₂₀ -MgO water-window multilayer mirrors. Applied Optics, 2003, 42, 3297.	2.1	1
83	Magnetic properties of (Fe) _{1-x} (Al ₂ O ₃) _x and (Fe ₅₀ Ni ₅₀) _{1-x} (Al ₂ O ₃) _x nanocomposite magnetic media synthesized using gel like Al ₂ O ₃ matrix. Journal of Alloys and Compounds, 2009, 482, 155-159.	2.8	1
84	Thermoelectric properties of Fe-substituted layered compound, LiCo _{1-x} Fe _x O ₂ . Ionics, 2017, 23, 2651-2655.	1.2	1
85	Electric cars " Assessment of "green" nature vis-à-vis conventional fuel driven cars. Sustainable Materials and Technologies, 2021, 30, e00339.	1.7	1
86	Magnetic flux relaxation in YBa ₂ Cu ₃ O _{7-x} thin film: thermal or athermal. Thin Solid Films, 1991, 206, 137-142.	0.8	0
87	The effect of fluctuations on the electrical transport behaviour in YBa ₂ Cu ₃ O _{7-x} . Journal of Physics Condensed Matter, 1992, 4, 7891-7898.	0.7	0
88	Magnetic flux relaxation in YBa ₂ Cu ₃ O _{7-x} thin film: Thermal or athermal. Thin Solid Films, 1992, 217, 156-160.	0.8	0
89	Effect of Sb ₂ O ₃ and ZrO ₂ as nucleating agents on the glass crystal transformation in Bi-Sr-Ca-Cu-O system. Journal of Materials Science Letters, 1995, 14, 1627-1630.	0.5	0
90	Amorphous Ni ₅₀ Nb ₅₀ /C multilayers for soft x rays made by pulsed laser deposition. Applied Physics Letters, 1995, 67, 1547-1548.	1.5	0

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91	Comment on the effects of overlayer thicknesses on the electrical resistivity of polycrystalline Cu/Cr double-layered thin films. Journal of Physics Condensed Matter, 1996, 8, 4857-4859.	0.7	0
92	Metal-substituted organic Cd-arachidate multilayers as soft-x-ray mirrors. Applied Optics, 2005, 44, 3254.	2.1	0
93	First Indo-Singapore Symposium on "Advanced Functional Materials", Mumbai, 2006. Bulletin of Materials Science, 2006, 29, 547-547.	0.8	0
94	COMPARISON OF MAGNETIC BEHAVIOR OF Sr-HEXAFERRITE SYNTHESIZED BY CO-PRECIPIATION, SOL-GEL AND MICROWAVE COMBUSTION TECHNIQUES. International Journal of Nanoscience, 2011, 10, 617-621.	0.4	0
95	Electronic Phase Separation in Multiferroic $\text{Ba}_3\text{NbFe}_3\text{Si}_2\text{O}_{14}$. IEEE Transactions on Magnetics, 2012, 48, 3529-3531.	1.2	0
96	Thermoelectric behaviour of p- and n- type Ti-Ni-Sn half Heusler alloy variants and their amorphous equivalents. Materials Research Society Symposia Proceedings, 2013, 1490, 33-40.	0.1	0
97	Effect of trivalent substitution on the magnetic and dielectric properties of Z-type hexaferrite, $\text{Sr}_3\text{Co}_2\text{Fe}_{24}\text{O}_{41}$. AIP Conference Proceedings, 2016, , .	0.3	0
98	Reply to comments on "Thermoelectric properties of rare earth containing type-I clathrate compound $\text{Dy}_8\text{Al}_{16}\text{Si}_{30}$ ". Journal of Materials Science: Materials in Electronics, 2017, 28, 1149-1150.	1.1	0
99	Thermo-transport properties of Zn-substituted layered Li-nickel oxide, LiNiO_2 . Bulletin of Materials Science, 2018, 41, 1.	0.8	0
100	Enhancing the High-Temperature Thermoelectric Performance of $\text{Li}(\text{CoNi})\text{O}_2$ by Replacement of Ni with Earth-Abundant Mg. Journal of Electronic Materials, 2020, 49, 4324-4332.	1.0	0