Satish Vitta

List of Publications by Year
in descending order

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100	1,141	516215	476904
papers	citations	16 h-index	29 g-index

103	103	103	1481
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of zinc content and grain size on enhanced thermoelectric performance of optimally doped ZnSb. Materials Research Bulletin, 2022, 149, 111702.	2.7	3
2	Vacancy induced anomalies in the electrical transport properties of Ag-doped Zn1â^'xCdxSb (xâ€‰=â€‰0.375) solid solutions. Applied Physics Letters, 2022, 120, 032102.	1.5	2
3	A â€˜mixedâ€™ dielectric response in langasite Ba3NbFe3Si2O14. Physical Chemistry Chemical Physics, 2021, 23, 554-562.	1.3	3
4	Electric cars â€“ Assessment of â€˜greenâ€™ nature vis-Ã-vis conventional fuel driven cars. Sustainable Materials and Technologies, 2021, 30, e00339.	1.7	1
5	Bacterial Cellulose Based Nanocomposites for Electronic and Energy Applications. , 2020, , 16-25.		4
6	Enhancing the High-Temperature Thermoelectric Performance of Li(CoNi)O2 by Replacement of Ni with Earth-Abundant Mg. Journal of Electronic Materials, 2020, 49, 4324-4332.	1.0	0
7	p-type High Temperature Thermoelectric Behavior of Dy Filled CoSb₃ and Fe_{1.5}Co_{2.5}Sb₁₂ and Their Magnetic Properties. ACS Applied Energy Materials, 2020, 3, 6644-6656.	2.5	4
8	Remarkable Improvement of Thermoelectric Figure-of-Merit in SnTe through In Situ-Created Te Nanoinclusions. ACS Applied Energy Materials, 2020, 3, 7113-7120.	2.5	14
9	Tuning the nature of charge carriers by controlling dual substitution in single-filled thermoelectric skutterudite, Yb-CoSb3. Emergent Materials, 2020, 3, 195-201.	3.2	3
10	Effect of double doping, Li and Se, on the high-temperature thermoelectric properties of Cu2Te. Journal of Materials Science: Materials in Electronics, 2020, 31, 4129-4134.	1.1	4
11	Ultralow thermal conductivity and low charge carrier scattering potential in Zn1-xCdxSb solid solutions for thermoelectric application. Materials Today Energy, 2019, 12, 107-113.	2.5	12
12	Enhancement of thermoelectric power factor by inducing octahedral ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> double perovskites. Physical Review B, 2019, 99, .	1.1	30
13	Effect of Trivalent Rare Earth, Dy³⁺ Substitution for Ba²⁺ on Low Temperature Magnetic and High Temperature Thermoelectric Properties of Type-I Clathrate, Ba₈Al₁₆Si₃₀. ACS Applied Energy Materials, 2019, 2, 4255-4263.	2.5	2
14	Increasing figure-of-merit of ZrNiSn half-Heusler alloy by minimal substitution and thermal conductivity reduction. Journal of Materials Science: Materials in Electronics, 2019, 30, 6139-6147.	1.1	13
15	High Thermoelectric Performance in Mg₂(Si_{0.3}Sn_{0.7}) by Enhanced Phonon Scattering. ACS Applied Energy Materials, 2019, 2, 2129-2137.	2.5	44
16	Optimization of Thermoelectric Properties of Mechanically Alloyed p-Type SiGe by Mathematical Modelling. Journal of Electronic Materials, 2019, 48, 649-655.	1.0	6
17	Enhancing Thermoelectric Figure-of-Merit of Polycrystalline Na y CoO2 by a Combination of Non-stoichiometry and Co-substitution. Journal of Electronic Materials, 2018, 47, 3230-3237.	1.0	7
18	Enhanced magnetic moment and curie temperature due to co-substitution in Heusler alloys Fe2â^'xCoxMnSi. Journal of Materials Science: Materials in Electronics, 2018, 29, 1420-1425.	1.1	4

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19	Thermo-transport properties of Zn-substituted layered Li-nickel oxide, $$hbox {LiNiO}_{2}$$ LiNiO 2. Bulletin of Materials Science, 2018, 41, 1.	0.8	0
20	Magnetoelectric and magnetodielectric coupling and microwave resonator characteristics of Ba0.5Sr0.5Nb2O6/CoCr0.4Fe1.6O4 multiferroic composite. Scientific Reports, 2018, 8, 11619.	1.6	37
21	Enhancing the thermoelectric performance of a p-type half-Heusler alloy, HfCoSb by incorporation of a band-matched chalcogenide, Cu₂Te. Journal of Materials Chemistry A, 2018, 6, 14709-14716.	5.2	12
22	Enhanced Thermoelectric Performance in Mg₂Si by Functionalized Coâ€Đoping. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700829.	0.8	7
23	Free standing Cu2Te, new anode material for sodium-ion battery. AIP Conference Proceedings, 2018, , .	0.3	3
24	Reply to comments on â€œThermoelectric properties of rare earth containing type-I clathrate compound Dy8Al16Si30â€• Journal of Materials Science: Materials in Electronics, 2017, 28, 1149-1150.	1.1	0
25	Giant Enhancement in High-Temperature Thermoelectric Figure-of-Merit of Layered Cobalt Oxide, LiCoO₂, Due to a Dual Strategyâ€”Co-Substitution and Lithiation. Inorganic Chemistry, 2017, 56, 5827-5838.	1.9	17
26	Thermoelectric properties of Fe-substituted layered compound, LiCo1â^'x Fe x O2. Ionics, 2017, 23, 2651-2655.	1.2	1
27	Bacterial cellulose based flexible multifunctional nanocomposite sheets. Cellulose, 2017, 24, 3341-3351.	2.4	17
28	Flexible bacterial cellulose / permalloy nanocomposite xerogel sheets â€“ Size scalable magnetic actuator-cum-electrical conductor. AIP Advances, 2017, 7, 035107.	0.6	8
29	Thermophysical and magnetic properties of p- and n-type Ti-Ni-Sn based half-Heusler alloys. Journal of Alloys and Compounds, 2017, 710, 191-198.	2.8	6
30	Realizing high figure-of-merit in Cu2Te using a combination of doping, hierarchical structure, and simple processing. Journal of Applied Physics, 2017, 122, .	1.1	28
31	Magnetic behavior of Ni substituted LiCoO 2 â€“ Magnetization and electron paramagnetic resonance studies. Materials Chemistry and Physics, 2017, 198, 266-274.	2.0	6
32	Synthesis, structure and thermoelectric properties of $$mathrm{La}_{1-x}mathrm{Na}_{x}mathrm{CoO}_{3 }$$ La 1 - x Na x CoO 3 perovskite oxides. Bulletin of Materials Science, 2017, 40, 1291-1299.	0.8	17
33	Thermoelectric properties of ultra-low thermal conductivity half-Heusler alloy. AIP Conference Proceedings, 2016, , .	0.3	2
34	Interparticle interactions mediated superspin glass to superferromagnetic transition in Ni-bacterial cellulose aerogel nanocomposites. Journal of Applied Physics, 2016, 119, 244312.	1.1	11
35	Effect of trivalent substitution on the magnetic and dielectric properties of Z-type hexaferrite, Sr3Co2Fe24O41. AIP Conference Proceedings, 2016, , .	0.3	0
36	Thermoelectric properties of rare earth containing type-I Clathrate compound, Dy8Al16Si30. Journal of Materials Science: Materials in Electronics, 2016, 27, 10303-10308.	1.1	4

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37	Large low field room temperature magneto-dielectric response from (Sr0.5Ba0.5)Nb2O6/Co(Cr0.4Fe1.6)O4 bulk 3-0 composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 204, 1-7.	1.7	10
38	Effect of divalent Ba cation substitution with Sr on coupled â€˜multiglassâ€™ state in the magnetoelectric multiferroic compound Ba3NbFe3Si2O14. Scientific Reports, 2015, 5, 9751.	1.6	20
39	Enhanced dielectric constant and relaxor behavior realized by dual stage sintering of Sr0.5Ba0.5Nb2O6. AIP Conference Proceedings, 2014, , .	0.3	4
40	Niâ€“bacterial cellulose nanocomposite; a magnetically active inorganicâ€“organic hybrid gel. RSC Advances, 2013, 3, 12765.	1.7	32
41	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
42	Low temperature dielectric dispersion and relaxor like behavior in multiferroic Ba3NbFe3Si2O14. Journal of Applied Physics, 2012, 111, .	1.1	5
43	Electronic Phase Separation in Multiferroic <formula formulatype="inline"><tex Notation="TeX">${m Ba}_{3}{m NbFe}_{3}{m Si}_{2}{m O}_{14}$</tex></formula>. IEEE Transactions on Magnetics, 2012, 48, 3529-3531.	1.2	0
44	Effect of Nickel Ferrite on Electrical and Magnetic Properties in LCMO: Nickel Ferrite Nanocomposites. IEEE Transactions on Magnetics, 2011, 47, 2728-2731.	1.2	5
45	COMPARISON OF MAGNETIC BEHAVIOR OF Sr-HEXAFERRITE SYNTHESIZED BY CO-PRECIPITATION, SOLâ€“GEL AND MICROWAVE COMBUSTION TECHNIQUES. International Journal of Nanoscience, 2011, 10, 617-621.	0.4	0
46	Sonochemical stabilization of ultrafine colloidal biocompatible magnetite nanoparticles using amino acid, l-arginine, for possible bio applications. Ultrasonics Sonochemistry, 2010, 17, 730-737.	3.8	60
47	Magnetically responsive bacterial cellulose: Synthesis and magnetic studies. Journal of Applied Physics, 2010, 108, .	1.1	27
48	Cementitious and pozzolanic behavior of electric arc furnace steel slags. Cement and Concrete Research, 2009, 39, 102-109.	4.6	185
49	Magnetic properties of (Fe)1â^'xâ€“(Al2O3)x and (Fe50Ni50)1â^'xâ€“(Al2O3)x nanocomposite magnetic media synthesized using gel like Al2O3 matrix. Journal of Alloys and Compounds, 2009, 482, 155-159.	2.8	1
50	Electrical and magnetic properties of nanocrystalline Fe100â^'xNix alloys. Journal of Magnetism and Magnetic Materials, 2008, 320, 182-189.	1.0	44
51	Synthesis of Shape Controlled Ferrite Nanoparticles by Sonochemical Technique. Journal of Nanoscience and Nanotechnology, 2008, 8, 4268-4272.	0.9	5
52	Magnetic nanoparticles through sonochemistry. Materials Technology, 2008, 23, 88-93.	1.5	4
53	Microstructural evolution and magnetic properties of size-controlled nanocrystalline Ni in Ni(OH)2â€“ZrO2 composite. Journal of Materials Research, 2007, 22, 1520-1526.	1.2	10
54	Nonlinear spin wave magnetization of solution synthesized Ni nanoparticles. Journal of Applied Physics, 2007, 101, 063901.	1.1	14

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55	Synthesis and properties of nanograined La-Ca-manganiteâ€“Ni-ferrite composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 139, 171-176.	1.7	15
56	Ni and Niâ€“nickel oxide nanoparticles with different shapes and a coreâ€“shell structure. Thin Solid Films, 2006, 505, 109-112.	0.8	38
57	First Indo-Singapore Symposium on â€œAdvanced Functional Materialsâ€, Mumbai, 2006. Bulletin of Materials Science, 2006, 29, 547-547.	0.8	0
58	ZnS nanoclusters in LB multilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 257-258, 177-182.	2.3	10
59	Structure of polymorphic phases in zinc arachidate LB multilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 257-258, 243-249.	2.3	9
60	Transport and magnetic properties of encapsulated Ni-Ni-O/Zr-O nanostructures. IEEE Transactions on Magnetics, 2005, 41, 3298-3300.	1.2	7
61	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
62	Metal-substituted organic Cd-arachidate multilayers as soft-x-ray mirrors. Applied Optics, 2005, 44, 3254.	2.1	0
63	Low temperature coefficient of resistivity Agâ€“Cd and Agâ€“Sn alloysâ€”structure and transport. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 107, 53-57.	1.7	13
64	Microstructure of pulsed laser deposited ceramicâ€“metal and polymerâ€“metal nanocomposite thin films. Applied Physics A: Materials Science and Processing, 2004, 79, 1233-1235.	1.1	9
65	Structure and properties of Laâ€“Caâ€“Mnâ€“O composites prepared by the glass-ceramic method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 113, 50-55.	1.7	6
66	Interface quality and thermal stability of laser-deposited metal/MgO multilayers. Applied Optics, 2004, 43, 6265.	2.1	8
67	Structure and scattering properties of Ni_80Nb_20-MgO water-window multilayer mirrors. Applied Optics, 2003, 42, 3297.	2.1	1
68	Giant magnetoresistance in laser-deposited permalloy/Ag multilayers. Journal of Applied Physics, 2002, 92, 1171-1173.	1.1	5
69	Structure of CdSâ€“arachidic acid composite LB multilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 59-66.	2.3	17
70	Molecular packing in CdS containing conducting polymer composite LB multilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 67-74.	2.3	14
71	Molecular packing in cadmium and zinc arachidate LB multilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 75-81.	2.3	16
72	Alloyâ€“ceramic oxide multilayer mirrors for water-window soft x rays. Optics Letters, 2001, 26, 1448.	1.7	6

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73	Ni50Nb50/C amorphous multilayers for â€œwater windowâ€•soft X-rays â€“ structure and stability. Vacuum, 2001, 60, 389-394.	1.6	1
74	Thermal stability of 2.4 nm period Niâ€“Nb/C multilayer x-ray mirror. Applied Physics Letters, 2000, 77, 3654-3656.	1.5	14
75	Structural assembly of Cd-arachidate molecules in multilayers. Journal of Chemical Physics, 1999, 111, 11088-11094.	1.2	12
76	Structure and stability of 2.4 nm period amorphous Niâ€“Nb/C multilayers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 57, 165-169.	1.7	2
77	Study of Pt/C X-Ray Multilayer Structure as a Function of Layer Perid Using X-Ray Scattering. Japanese Journal of Applied Physics, 1999, 38, 289.	0.8	4
78	Microstructural dependence of electrical transport in bulk CuxGe1âˆ’x alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 52, 185-188.	1.7	1
79	Structure of CdSâˆ’Cdâˆ’Arachidate/Arachidic Acid Composite Multilayers. Langmuir, 1998, 14, 1799-1803.	1.6	21
80	Structure and normal incidence soft-x-ray reflectivity of Niâ€“Nb/C amorphous multilayers. Applied Optics, 1997, 36, 1472.	2.1	9
81	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
82	Effect of Sb2O3 and ZrO2 as nucleating agents on the glass crystal transformation in Bi-Sr-Ca-Cu-0 system. Journal of Materials Science Letters, 1995, 14, 1627-1630.	0.5	0
83	Thermal-history-dependent magnetization behaviour in Cr/Cu multilayers. Philosophical Magazine Letters, 1995, 71, 107-112.	0.5	3
84	Amorphous Ni50Nb50/C multilayers for soft x rays made by pulsed laser deposition. Applied Physics Letters, 1995, 67, 1547-1548.	1.5	0
85	Rapid solidification of cobalt-titanium alloys induced by nanosecond laser pulses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 243-248.	2.6	9
86	Structure and properties of reactivity sputtered Î³-Mo2N hard coatings. Thin Solid Films, 1994, 245, 1-3.	0.8	24
87	Kinetics of growth of the Ti-Co. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 1869-1875.	1.4	3
88	The effect of fluctuations on the electrical transport behaviour in YBa2Cu3O7-x. Journal of Physics Condensed Matter, 1992, 4, 7891-7898.	0.7	0
89	Conduction mechanism in crystalline InSeî—¸In6Se7 composite. Solid State Communications, 1992, 81, 47-49.	0.9	3
90	Magnetic flux relaxation in YBa2Cu3O7 - x thin film: Thermal or athermal. Thin Solid Films, 1992, 217, 156-160.	0.8	0

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91	The limits of glass formation by pulsed laser quenching in Nbî—¸Ni alloys. Scripta Metallurgica Et Materialia, 1991, 25, 2209-2214.	1.0	9
92	Magnetic flux relaxation in YBa2Cu3O7â^'x thin film: thermal or athermal. Thin Solid Films, 1991, 206, 137-142.	0.8	0
93	Solidification of Fe40Ni40B20 at high undercooling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 133, 799-802.	2.6	14
94	Electromigration failure in YBa2Cu3O7â^'xthin films. Applied Physics Letters, 1991, 58, 759-761.	1.5	10
95	Rapid solidification of polymorphic transition metals induced by nanosecond laser pulses. Applied Physics Letters, 1991, 59, 411-413.	1.5	1
96	Temperature dependence of the anisotropy in magnetic relaxation in YBa/sub 2/Cu/sub 3/O/sub 7-2/ thin films. IEEE Transactions on Magnetics, 1991, 27, 1083-1085.	1.2	3
97	Structure and temperature dependence of conductivity of Ag2.5Seâ€Se composite. Journal of Applied Physics, 1990, 68, 3413-3417.	1.1	3
98	Solidification of germanium at high undercoolings: morphological stability and the development of grain structure. Acta Metallurgica Et Materialia, 1990, 38, 233-242.	1.9	38
99	Structure and electron transport anomalies in InSeâ€In6Se7composite. Journal of Applied Physics, 1989, 66, 5885-5889.	1.1	1
100	Metastable phases formed by nanosecond laser-quenching of metals and binary alloys. Materials Science and Engineering, 1988, 98, 105-109.	0.1	16