

Ravi L Hadimani

List of Publications by Year in descending order

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113
papers

1,813
citations

361413

20
h-index

330143

37
g-index

113
all docs

113
docs citations

113
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel 3-D spacer all fibre piezoelectric textiles for energy harvesting applications. Energy and Environmental Science, 2014, 7, 1670-1679.	30.8	234
2	An investigation of energy harvesting from renewable sources with PVDF and PZT. Smart Materials and Structures, 2011, 20, 055019.	3.5	218
3	Continuous production of piezoelectric PVDF fibre for e-textile applications. Smart Materials and Structures, 2013, 22, 075017.	3.5	87
4	Investigational Effect of Brain-Scalp Distance on the Efficacy of Transcranial Magnetic Stimulation Treatment in Depression. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	53
5	Impact of non-brain anatomy and coil orientation on inter- and intra-subject variability in TMS at midline. Clinical Neurophysiology, 2018, 129, 1873-1883.	1.5	44
6	Determination of Curie temperature by Arrott plot technique in $Gd_5(SixGe_{1-x})_4$ for $x \geq 0.575$. Journal of Magnetism and Magnetic Materials, 2008, 320, e696-e698.	2.3	43
7	Transcranial Magnetic Stimulation-coil design with improved focality. AIP Advances, 2017, 7, .	1.3	43
8	Enhancement of γ -phase in PVDF films embedded with ferromagnetic Gd_5Si_4 nanoparticles for piezoelectric energy harvesting. AIP Advances, 2017, 7, .	1.3	42
9	Evolution of Griffith's phase in $La_{0.4}Bi_{0.6}Mn_{1-x}Ti_xO_3$ perovskite oxide. Journal of Applied Physics, 2014, 115, .	2.5	30
10	Magnetic and electrical properties of Ti-substituted lanthanum bismuth manganites. Journal of Materials Science, 2015, 50, 3562-3575.	3.7	30
11	Synthesis and characterization of $Fe_3O_4@Cs@Ag$ nanocomposite and its use in the production of magnetic and antibacterial nanofibrous membranes. Applied Surface Science, 2020, 521, 146332.	6.1	29
12	Structural, magnetic, and magnetoelastic properties of magnesium substituted cobalt ferrite. Journal of Applied Physics, 2013, 113, .	2.5	27
13	$Gd_5(Si,Ge)_4$ thin film displaying large magnetocaloric and strain effects due to magnetostructural transition. Applied Physics Letters, 2015, 106, .	3.3	27
14	Investigation of Room Temperature Ferromagnetic Nanoparticles of Gd_5Si_4 . IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	26
15	Effect of Anatomical Brain Development on Induced Electric Fields During Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	25
16	Giant negative thermal expansion at the nanoscale in the multifunctional material $Gd_5(Si,Ge)_4$. Physical Review B, 2019, 100, .	3.2	24
17	The potential for ultrasound to improve nanoparticle dispersion and increase flame resistance in fibre-forming polymers. Polymer Degradation and Stability, 2012, 97, 2511-2523.	5.8	23
18	Transcranial magnetic stimulation of mouse brain using high-resolution anatomical models. Journal of Applied Physics, 2014, 115, .	2.5	23

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19	Investigation of Coil Designs for Transcranial Magnetic Stimulation on Mice. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	23
20	Estimation of second order phase transition temperature of the orthorhombic phase of Gd ₅ (SixGe _{1-x}) ₄ using Arrott plots. Journal of Applied Physics, 2008, 103, 033906.	2.5	20
21	Field and temperature induced colossal strain in Gd ₅ (SixGe _{1-x}) ₄ . Journal of Magnetism and Magnetic Materials, 2011, 323, 532-534.	2.3	20
22	Transcranial Magnetic Stimulation: Development of a Novel Deep-Brain Triple-Halo Coil. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	20
23	Study of transport, magnetic and magnetocaloric properties in Sr ²⁺ substituted praseodymium manganite. Materials Research Express, 2020, 7, 016105.	1.6	20
24	Compression and thermal conductivity characteristics of magnetorheological fluid spacer fabric smart structures. Journal of Intelligent Material Systems and Structures, 2012, 23, 1277-1283.	2.5	19
25	Ferromagnetic Gd ₅ Si ₄ Nanoparticles as T2 Contrast Agents for Magnetic Resonance Imaging. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	19
26	Realistically Modeled Transcranial Magnetic Stimulation Coils for Lorentz Force and Stress Calculations During MRI. IEEE Transactions on Magnetics, 2013, 49, 3426-3429.	2.1	18
27	Anomalous Behavior in Electrical Transport Properties in Single-Crystal Gd ₅ Si _{1.8} Ge _{2.2} and Polycrystalline Gd ₅ Si _{2.09} Ge _{1.91} . IEEE Transactions on Magnetics, 2009, 45, 4368-4371.	2.1	17
28	Irrecoverable and Recoverable Resistivity Resulting From the First Order Magnetic-Structural Phase Transition in Gd ₅ Si ₂ Ge ₃ . IEEE Transactions on Magnetics, 2010, 46, 1-4.	1.9	17
29	Ferromagnetism of magnetically doped topological insulators in CrxBi _{2-x} Te ₃ thin films. Journal of Applied Physics, 2015, 117, 17C748.	2.5	17
30	Effect of anatomical variability in brain on transcranial magnetic stimulation treatment. AIP Advances, 2017, 7, .	1.3	17
31	Growth and characterisation of Gd ₅ (SixGe _{1-x}) ₄ thin film. Journal of Applied Physics, 2013, 113, .	2.5	16
32	Table-like magnetocaloric effect in Gd ₅₆ Ni ₁₅ Al ₂₇ Zr ₂ alloy and its field independence feature. Journal of Applied Physics, 2015, 118, .	2.5	16
33	Deep brain transcranial magnetic stimulation using variable Halo coil system. Journal of Applied Physics, 2015, 117, .	2.5	16
34	Enhancement of ferromagnetic properties in composites of BaSnO ₃ and CoFe ₂ O ₄ . Journal of Magnetism and Magnetic Materials, 2018, 452, 23-29.	2.3	16
35	Thermal and Mechanical Analysis of Novel Transcranial Magnetic Stimulation Coil for Mice. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	15
36	Large magnetocaloric effect of GdNiAl ₂ compound. Journal of Magnetism and Magnetic Materials, 2015, 391, 191-194.	2.3	15

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37	Development of rare earth free permanent magnet generator using Halbach cylinder rotor design. <i>Renewable Energy</i> , 2017, 112, 84-92.	8.9	15
38	Investigating phase transition temperatures of size separated gadolinium silicide magnetic nanoparticles. <i>AIP Advances</i> , 2018, 8, 056428.	1.3	15
39	Inkjet Printing of Magnetic Particles Toward Anisotropic Magnetic Properties. <i>Scientific Reports</i> , 2019, 9, 16261.	3.3	15
40	Quadruple Butterfly Coil With Passive Magnetic Shielding for Focused Transcranial Magnetic Stimulation. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	14
41	Transcranial Magnetic Stimulation: Design of a Stimulator and a Focused Coil for the Application of Small Animals. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	14
42	Field induced structural phase transition at temperatures above the Curie point in $Gd_5(SixGe_{1-x})_4$. <i>Journal of Applied Physics</i> , 2009, 105, 07A927.	2.5	13
43	Calculation of Lorentz Forces on Coils for Transcranial Magnetic Stimulation During Magnetic Resonance Imaging. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 4058-4061.	2.1	12
44	Enhancement of microwave absorption bandwidth of polymer blend using ferromagnetic gadolinium silicide nanoparticles. <i>Materials Letters</i> , 2019, 252, 178-181.	2.6	12
45	Gadolinium silicide (Gd_5Si_4) nanoparticles for tuneable broad band microwave absorption. <i>Materials Research Express</i> , 2019, 6, 055053.	1.6	12
46	Phase transition and magnetocaloric effect in particulate Fe-Rh alloys. <i>Journal of Materials Science</i> , 2020, 55, 13363-13371.	3.7	12
47	Development of anatomically accurate brain phantom for experimental validation of stimulation strengths during TMS. <i>Materials Science and Engineering C</i> , 2021, 120, 111705.	7.3	12
48	Growth and characterization of Pt-protected Gd_5Si_4 thin films. <i>Journal of Applied Physics</i> , 2014, 115, 17C113.	2.5	11
49	Annealing influence on the magnetostructural transition in $Gd_5Si_{1.3}Ge_{2.7}$ thin films. <i>Materials Letters</i> , 2015, 159, 301-304.	2.6	11
50	Investigation of magnetic interactions, electrical and magneto-transport properties in Ga-substituted $La_{0.4}Bi_{0.6}MnO_3$ perovskite manganites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 209, 75-86.	3.5	11
51	Effect of Transcranial Magnetic Stimulation on Demyelinated Neuron Populations. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	2.1	11
52	Multiphase $Ho_{36}Co_{48}Al_{16}$ alloy featuring table-like magnetocaloric effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 467, 108-113.	2.3	11
53	Magnetocaloric Effect of Micro- and Nanoparticles of Gd_5Si_4 . <i>Jom</i> , 2019, 71, 3159-3163.	1.9	11
54	Safety Study of Combination Treatment: Deep Brain Stimulation and Transcranial Magnetic Stimulation. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 123.	2.0	11

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55	Magnetocaloric effect in GdCoAl ₂ x system for (0.15x) compositions. Journal of Applied Physics, 2014, 115, 17A914.	2.5	10
56	Effect of Fiber Tracts and Depolarized Brain Volume on Resting Motor Thresholds During Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	10
57	Characterisation of Energy Generating PolyVinylidene Fluoride (PVDF) Based Piezoelectric Filament. Advanced Materials Research, 2011, 410, 366-369.	0.3	9
58	Suppression of impurity phases and the study of magnetic and magnetocaloric properties of Ho ₂ Co ₂ Al intermetallic compound. Journal of Magnetism and Magnetic Materials, 2017, 443, 79-84.	2.3	9
59	Differential effect of magnetic alignment on additive manufacturing of magnetocaloric particles. AIP Advances, 2020, 10, .	1.3	9
60	Quintuple AISI 1010 carbon steel core coil for highly focused transcranial magnetic stimulation in small animals. AIP Advances, 2021, 11, .	1.3	9
61	Effect of neuroanatomy on corticomotor excitability during and after transcranial magnetic stimulation and intermittent theta burst stimulation. Human Brain Mapping, 2022, 43, 4492-4507.	3.6	9
62	Voltage response of piezoelectric PVDF films in vacuum and at elevated temperatures. Smart Materials and Structures, 2012, 21, 085028.	3.5	8
63	Influence of Mn Concentration on Magnetic Topological Insulator MnBi ₂ Te ₃ Thin-Film Hall-Effect Sensor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
64	Suppression of magnetostructural transition on GdSiGe thin film after thermal cyclings. Thin Solid Films, 2017, 621, 247-252.	1.8	8
65	Randomized trial of rTMS in traumatic brain injury: improved subjective neurobehavioral symptoms and increases in EEG delta activity. Brain Injury, 2022, 36, 683-692.	1.2	8
66	Study of the Second-Order "Hidden" Phase Transition of the Monoclinic Phase in the Mixed Phase Region of Gd ₅ (Si _x Ge _{1-x}) ₄ . IEEE Transactions on Magnetics, 2012, 48, 4070-4073.	2.1	7
67	Focused and deep brain magnetic stimulation using new coil design in mice. , 2013, , .		7
68	Computational analysis of transcranial magnetic stimulation in the presence of deep brain stimulation probes. AIP Advances, 2017, 7, .	1.3	7
69	The effect of Co substitution on the magnetic and magnetocaloric properties of Gd ₃ Ru. Journal of Magnetism and Magnetic Materials, 2018, 451, 368-372.	2.3	7
70	Gd ₅ Si ₄ -PVDF nanocomposite films and their potential for triboelectric energy harvesting applications. AIP Advances, 2019, 9, .	1.3	7
71	Room-temperature polymer-assisted additive manufacturing of microchanneled magnetocaloric structures. Journal of Alloys and Compounds, 2022, 920, 165891.	5.5	7
72	Resistivity recovery in Gd ₅ Si _{2.09} Ge _{1.91} by annealing. Journal of Applied Physics, 2010, 107, 09C501.	2.5	5

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73	Size reduction of permanent magnet generators for wind turbines with higher energy density permanent magnets. , 2014, , .		5
74	Phenomenological modelling of first order phase transitions in magnetic systems. Journal of Applied Physics, 2014, 115, 183902.	2.5	5
75	Enhancement of magnetocaloric effect in the Gd ₂ Al phase by Co alloying. Journal of Applied Physics, 2014, 116, 183908.	2.5	5
76	Critical behavior studies in Ti-substituted lanthanum bismuth perovskite manganites. Current Applied Physics, 2015, 15, 1245-1250.	2.4	5
77	Gd ₅ Si ₄ Micro- and Nano-Particles for Self-Regulated Magnetic Hyperthermia. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
78	Time dependent heat transfer of proliferation resistant plutonium. Nuclear Engineering and Technology, 2019, 51, 510-517.	2.3	5
79	Effect of Addition of Multiwalled Carbon Nanotubes on the Piezoelectric Properties of Polypropylene Filaments. Journal of Nanoscience and Nanotechnology, 2015, 15, 7130-7135.	0.9	4
80	Broadband Analysis of Response From Magnetic Cores Used in Inductive Sensors for Pulsed Nuclear Magnetic Resonance Applications. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
81	Development of Focused Transcranial Magnetic Stimulation Coils for Treating Schizophrenia. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	4
82	Structure, magnetic properties, and magnetocaloric effect of polycrystalline Ho ₃ M (M = Rh, Ru) alloys. Journal of Magnetism and Magnetic Materials, 2020, 497, 166055.	2.3	4
83	Magnetic phase transition, magnetocaloric and magnetotransport properties in Pr _{0.55} Sr _{0.45} MnO ₃ perovskite manganite. Materials Today: Proceedings, 2021, 46, 6218-6222.	1.8	4
84	Magnetocrystalline Anisotropy in Single Crystal Gd ₅ Si _{2.7} Ge _{1.3} and Gd ₅ Si ₂ Ge ₂ . IEEE Transactions on Magnetics, 2012, 48, 3989-3991.	2.1	3
85	Fine Structure Observation in Magnetostriction Near the First-Order Phase Transition Temperature in Gd ₅ Si _{1.95} Ge _{2.05} . IEEE Transactions on Magnetics, 2013, 49, 820-823.	2.1	3
86	Magnetic Interaction and Electronic Transport in La _{0.4} Bi _{0.6} Mn _{0.5} Ti _{0.5} Co ₃ /s Manganite. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.0	3
87	Second order phase transition temperature of single crystals of Gd ₅ Si _{1.3} Ge _{2.7} and Gd ₅ Si _{1.4} Ge _{2.6} . Journal of Applied Physics, 2015, 117, .	2.5	3
88	Analysis of ringing effects due to magnetic core materials in pulsed nuclear magnetic resonance circuits. Journal of Applied Physics, 2015, 117, 17E508.	2.5	3
89	Gd ₅ (Si _{1-x} Ge _x) ₄ system “ updated phase diagram. Journal of Magnetism and Magnetic Materials, 2015, 395, 143-146.	2.3	3
90	Investigation of magnetic interactions and transport mechanism in Al ³⁺ substituted La _{0.4} Bi _{0.6} MnO ₃ manganites. Journal of Alloys and Compounds, 2016, 681, 212-224.	5.5	3

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91	Gd-Based Magnetic Nanoparticles for Biomedical Applications. , 2018, , 137-155.		3
92	Rare-Earth Magnetocaloric Thin Films. , 2018, , 269-294.		3
93	Investigation of shape, position, and permeability of shielding material in quadruple butterfly coil for focused transcranial magnetic stimulation. AIP Advances, 2018, 8, 056705.	1.3	3
94	Particle size-dependent magnetic hyperthermia in gadolinium silicide micro- and nano-particles from calorimetry and AC magnetometry. Journal of Magnetism and Magnetic Materials, 2021, 519, 167441.	2.3	3
95	Estimation of the Focality of Coils and Quality of Stimulation of Biological Tissues During Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	3
96	YeÅyil Enerji Tekstil UygulamalarÄ± Ä°Åsin Piezoelektrik Monofilament Eldesi. Tekstil Ve Muhendis, 2012, , 1-5.	0.3	3
97	Modeling of Transcranial Magnetic Stimulation Versus Pallidal Deep Brain Stimulation for Parkinson's Disease. IEEE Transactions on Magnetics, 2019, , 1-5.	2.1	2
98	Development of Anatomically Accurate Brain Model of Small Animals for Experimental Verification of Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	2
99	A numerical dosimetry study for pediatric transcranial magnetic stimulation. , 2013, , .		1
100	Microwave Permeability of FeCo-Based Magnetic Thin Films. Advanced Materials Research, 0, 881-883, 1109-1112.	0.3	1
101	Stability of magnetocaloric La(FexCoySi1-x-y)13 in water and air. AIP Advances, 2019, 9, 035239.	1.3	1
102	Evolution of two-step magnetic transition on nanogranular Gd5Si1.3Ge2.7 thin film. Journal of Physics Condensed Matter, 2020, 32, 265401.	1.8	1
103	Room temperature ferromagnetic nanoparticles of Gd<inf>5</inf>Si<inf>4</inf>. , 2015, , .		0
104	Femto second pulsed laser deposition of nanoparticulate thin film of Gd<inf>5</inf>(Si<inf>x</inf>Ge<inf>1âˆx</inf><inf>4</inf>. , 2015, , .		0
105	Magnetic interaction and electronic transport in La<inf>0.4</inf>Bi<inf>0.6</inf>Mn<inf>0.5</inf>Ti<inf>0.5</inf>O<inf>3</inf> manganite. , 2015, , .		0
106	Size reduction of permanent magnet generators for wind turbines using halbach cylinders. , 2015, , .		0
107	Influence of Mn concentration on magnetic topological insulator Mn<inf>x</inf>Bi<inf>2âˆx</inf>Te<inf>3</inf> thin film Hall effect sensor. , 2015, , .		0
108	Real-time visualization of magnetic flux densities for transcranial magnetic stimulation on commodity and fully immersive VR systems. Proceedings of SPIE, 2017, , .	0.8	0

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109	Study of Spin Polarized Tunneling in Magnetoresistance and Low Temperature Anomaly in Nanoparticles of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$.. , 2018, , .		0
110	Transcranial magnetic stimulation: design of a high current magnetic pulse generator with custom coil for the application on small animals. , 2018, , .		0
111	Transcranial magnetic stimulation: comparison of 15 coils with 50 MRI derived head models.. , 2018, , .		0
112	Effect of $\text{Gd}^{5+}\text{Si}^{4+}$ Ferromagnetic Nanoparticle Sizes on T_1 , T_2 and T_2^* Relaxation in MRI. , 2018, , .		0
113	Study of magnetotransport and low temperature anomaly in half doped lanthanum calcium manganite nanoparticle. AIP Conference Proceedings, 2019, , .	0.4	0