

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	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
2	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
3	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
4	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
5	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
6	Room-temperature polymer-assisted additive manufacturing of microchanneled magnetocaloric structures. Journal of Alloys and Compounds, 2022, 920, 165891.	5.5	7
7	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
8	Development of anatomically accurate brain phantom for experimental validation of stimulation strengths during TMS. Materials Science and Engineering C, 2021, 120, 111705.	7.3	12
9	Quintuple AISI 1010 carbon steel core coil for highly focused transcranial magnetic stimulation in small animals. AIP Advances, 2021, 11, .	1.3	9
10	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
11	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
12	Study of transport, magnetic and magnetocaloric properties in Sr ²⁺ substituted praseodymium manganite. Materials Research Express, 2020, 7, 016105.	1.6	20
13	Phase transition and magnetocaloric effect in particulate Fe-Rh alloys. Journal of Materials Science, 2020, 55, 13363-13371.	3.7	12
14	Evolution of two-step magnetic transition on nanogranular Gd ₅ Si _{1.3} Ge _{2.7} thin film. Journal of Physics Condensed Matter, 2020, 32, 265401.	1.8	1
15	Differential effect of magnetic alignment on additive manufacturing of magnetocaloric particles. AIP Advances, 2020, 10, .	1.3	9
16	Safety Study of Combination Treatment: Deep Brain Stimulation and Transcranial Magnetic Stimulation. Frontiers in Human Neuroscience, 2020, 14, 123.	2.0	11
17	Synthesis and characterization of Fe ₃ O 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
18	Magnetocaloric Effect of Micro- and Nanoparticles of Gd ₅ Si ₄ . Jom, 2019, 71, 3159-3163.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Study of magnetotransport and low temperature anomaly in half doped lanthanum calcium manganite nanoparticle. AIP Conference Proceedings, 2019, , .	0.4	0
20	Giant negative thermal expansion at the nanoscale in the multifunctional material Gd_5Si_4 . Physical Review B, 2019, 100, .	3.2	24
21	Stability of magnetocaloric $La_{1-x}Ca_xFe_{1-y}Si_2$ in water and air. AIP Advances, 2019, 9, 035239.	1.3	1
22	Modeling of Transcranial Magnetic Stimulation Versus Pallidal Deep Brain Stimulation for Parkinson's Disease. IEEE Transactions on Magnetics, 2019, , 1-5.	2.1	2
23	Gd ₅ Si ₄ -PVDF nanocomposite films and their potential for triboelectric energy harvesting applications. AIP Advances, 2019, 9, .	1.3	7
24	Transcranial Magnetic Stimulation: Development of a Novel Deep-Brain Triple-Halo Coil. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	20
25	Enhancement of microwave absorption bandwidth of polymer blend using ferromagnetic gadolinium silicide nanoparticles. Materials Letters, 2019, 252, 178-181.	2.6	12
26	Inkjet Printing of Magnetic Particles Toward Anisotropic Magnetic Properties. Scientific Reports, 2019, 9, 16261.	3.3	15
27	Time dependent heat transfer of proliferation resistant plutonium. Nuclear Engineering and Technology, 2019, 51, 510-517.	2.3	5
28	Gadolinium silicide (Gd_5Si_4) nanoparticles for tuneable broad band microwave absorption. Materials Research Express, 2019, 6, 055053.	1.6	12
29	Multiphase Ho ₃₆ Co ₄₈ Al ₁₆ alloy featuring table-like magnetocaloric effect. Journal of Magnetism and Magnetic Materials, 2018, 467, 108-113.	2.3	11
30	Investigating phase transition temperatures of size separated gadolinium silicide magnetic nanoparticles. AIP Advances, 2018, 8, 056428.	1.3	15
31	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
32	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
33	Study of Spin Polarized Tunneling in Magnetoresistance and Low Temperature Anomaly in Nanoparticles of La _{0.5} Ca _{0.5} MnO ₃ .. , 2018, , .		0
34	Transcranial magnetic stimulation: design of a high current magnetic pulse generator with custom coil for the application on small animals. , 2018, , .		0
35	Transcranial magnetic stimulation: comparison of 15 coils with 50 MRI derived head models.. , 2018, , .		0
36	Gd-Based Magnetic Nanoparticles for Biomedical Applications. , 2018, , 137-155.		3

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37	Effect of Gd ₅ Si ₄ Ferromagnetic Nanoparticle Sizes on T ₁ , T ₂ and T ₂ * Relaxation in MRI. , 2018, , .		0
38	Rare-Earth Magnetocaloric Thin Films. , 2018, , 269-294.		3
39	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
40	Transcranial Magnetic Stimulation: Design of a Stimulator and a Focused Coil for the Application of Small Animals. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	14
41	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
42	Development of Focused Transcranial Magnetic Stimulation Coils for Treating Schizophrenia. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	4
43	Enhancement of β -phase in PVDF films embedded with ferromagnetic Gd ₅ Si ₄ nanoparticles for piezoelectric energy harvesting. AIP Advances, 2017, 7, .	1.3	42
44	Effect of anatomical variability in brain on transcranial magnetic stimulation treatment. AIP Advances, 2017, 7, .	1.3	17
45	Transcranial Magnetic Stimulation-coil design with improved focality. AIP Advances, 2017, 7, .	1.3	43
46	Development of rare earth free permanent magnet generator using Halbach cylinder rotor design. Renewable Energy, 2017, 112, 84-92.	8.9	15
47	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
48	Gd ₅ Si ₄ Micro- and Nano-Particles for Self-Regulated Magnetic Hyperthermia. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	5
49	Computational analysis of transcranial magnetic stimulation in the presence of deep brain stimulation probes. AIP Advances, 2017, 7, .	1.3	7
50	Effect of Transcranial Magnetic Stimulation on Demyelinated Neuron Populations. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	11
51	Ferromagnetic Gd ₅ Si ₄ Nanoparticles as T2 Contrast Agents for Magnetic Resonance Imaging. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	19
52	Quadruple Butterfly Coil With Passive Magnetic Shielding for Focused Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	14
53	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
54	Suppression of magnetostructural transition on GdSiGe thin film after thermal cyclings. Thin Solid Films, 2017, 621, 247-252.	1.8	8

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55	Investigation of magnetic interactions, electrical and magneto-transport properties in Ga-substituted La _{0.4} Bi _{0.6} MnO ₃ perovskite manganites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 209, 75-86.	3.5	11
56	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
57	Investigation of Coil Designs for Transcranial Magnetic Stimulation on Mice. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	23
58	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
59	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
60	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
61	Room temperature ferromagnetic nanoparticles of Gd ₅ Si ₄ . , 2015, , .		0
62	Femto second pulsed laser deposition of nanoparticulate thin film of Gd ₅ (Si _x Ge _{1-x}) ₄ . , 2015, , .		0
63	Annealing influence on the magnetostructural transition in Gd ₅ Si _{1.3} Ge _{2.7} thin films. Materials Letters, 2015, 159, 301-304.	2.6	11
64	Large magnetocaloric effect of GdNiAl ₂ compound. Journal of Magnetism and Magnetic Materials, 2015, 391, 191-194.	2.3	15
65	Magnetic interaction and electronic transport in La _{0.4} Bi _{0.6} Mn _{0.5} Ti _{0.5} O ₃ manganite. , 2015, , .		
66	Magnetic Interaction and Electronic Transport in La _{0.4} Bi _{0.6} Mn _{0.5} Ti _{0.5} O ₃ Manganite. IEEE Transactions on Magnetics, 2015, 51, 1-4.		
67	Influence of Mn Concentration on Magnetic Topological Insulator Mn _x Bi _{2-x} Te ₃ Thin-Film Hall-Effect Sensor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
68	Size reduction of permanent magnet generators for wind turbines using halbach cylinders. , 2015, , .		0
69	Influence of Mn concentration on magnetic topological insulator Mn _x Bi _{2-x} Te ₃ thin film Hall effect sensor. , 2015, , .		0
70	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
71	Magnetic and electrical properties of Ti-substituted lanthanum bismuth manganites. Journal of Materials Science, 2015, 50, 3562-3575.	3.7	30
72	Deep brain transcranial magnetic stimulation using variable Halo coil system. Journal of Applied Physics, 2015, 117, .	2.5	16

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73	Critical behavior studies in Ti-substituted lanthanum bismuth perovskite manganites. Current Applied Physics, 2015, 15, 1245-1250.	2.4	5
74	Investigation of Room Temperature Ferromagnetic Nanoparticles of Gd ₅ Si ₄ . IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	26
75	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
76	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
77	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
78	Ferromagnetism of magnetically doped topological insulators in Cr _x Bi ₂ Te ₃ thin films. Journal of Applied Physics, 2015, 117, 17C748.	2.5	17
79	Gd ₅ (Si _x Ge _{1-x}) ₄ system – updated phase diagram. Journal of Magnetism and Magnetic Materials, 2015, 395, 143-146.	2.3	3
80	Effect of Anatomical Brain Development on Induced Electric Fields During Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	25
81	Size reduction of permanent magnet generators for wind turbines with higher energy density permanent magnets. , 2014, , .		5
82	Magnetocaloric effect in GdCo _x Al _{2-x} system for (0.15 ≤ x ≤ 1) compositions. Journal of Applied Physics, 2014, 115, 17A914.	2.5	10
83	Transcranial magnetic stimulation of mouse brain using high-resolution anatomical models. Journal of Applied Physics, 2014, 115, .	2.5	23
84	Growth and characterization of Pt-protected Gd ₅ Si ₄ thin films. Journal of Applied Physics, 2014, 115, 17C113.	2.5	11
85	Phenomenological modelling of first order phase transitions in magnetic systems. Journal of Applied Physics, 2014, 115, 183902.	2.5	5
86	Enhancement of magnetocaloric effect in the Gd ₂ Al phase by Co alloying. Journal of Applied Physics, 2014, 116, 183908.	2.5	5
87	Novel 3-D spacer fibre piezoelectric textiles for energy harvesting applications. Energy and Environmental Science, 2014, 7, 1670-1679.	30.8	234
88	Thermal and Mechanical Analysis of Novel Transcranial Magnetic Stimulation Coil for Mice. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	15
89	Evolution of Griffith's phase in La _{0.4} Bi _{0.6} Mn _{1-x} Ti _x O ₃ perovskite oxide. Journal of Applied Physics, 2014, 115, .	2.5	30
90	Structural, magnetic, and magnetoelastic properties of magnesium substituted cobalt ferrite. Journal of Applied Physics, 2013, 113, .	2.5	27

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91	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
92	Focused and deep brain magnetic stimulation using new coil design in mice. , 2013, , .		7
93	Growth and characterisation of Gd ₅ (SixGe _{1-x}) ₄ thin film. Journal of Applied Physics, 2013, 113, .	2.5	16
94	A numerical dosimetry study for pediatric transcranial magnetic stimulation. , 2013, , .		1
95	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
96	Continuous production of piezoelectric PVDF fibre for e-textile applications. Smart Materials and Structures, 2013, 22, 075017.	3.5	87
97	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
98	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
99	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
100	Voltage response of piezoelectric PVDF films in vacuum and at elevated temperatures. Smart Materials and Structures, 2012, 21, 085028.	3.5	8
101	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
102	Calculation of Lorentz Forces on Coils for Transcranial Magnetic Stimulation During Magnetic Resonance Imaging. IEEE Transactions on Magnetics, 2012, 48, 4058-4061.	2.1	12
103	Yeşil Enerji Tekstil Uygulamaları İçin Piezoelektrik Monofilament Eldesi. Tekstil Ve Muhendis, 2012, , 1-5.	0.3	3
104	An investigation of energy harvesting from renewable sources with PVDF and PZT. Smart Materials and Structures, 2011, 20, 055019.	3.5	218
105	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
106	Characterisation of Energy Generating PolyVinylidene Fluoride (PVDF) Based Piezoelectric Filament. Advanced Materials Research, 2011, 410, 366-369.	0.3	9
107	Resistivity recovery in Gd ₅ Si _{2.09} Ge _{1.91} by annealing. Journal of Applied Physics, 2010, 107, 09C501.	2.5	5
108	Irrecoverable and Recoverable Resistivity Resulting From the First Order Magnetic-Structural Phase Transition in Gd ₅ (Si _x Ge _{1-x}) ₄ . IEEE Magnetics Letters, 2010, 1, 6000104-6000104.		17

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109	Field induced structural phase transition at temperatures above the Curie point in $Gd_5(SixGe_{1-x})_4$. Journal of Applied Physics, 2009, 105, 07A927.	2.5	13
110	Anomalous Behavior in Electrical Transport Properties in Single-Crystal $Gd_{5-x}Si_{1.8-x}Ge_{2.2+x}$ and Polycrystalline $Gd_{5-x}Si_{2.09-x}Ge_{1.91+x}$. IEEE Transactions on Magnetics, 2009, 45, 4368-4371.	2.1	17
111	Determination of Curie temperature by Arrott plot technique in $Gd_5(SixGe_{1-x})_4$ for $x > 0.575$. Journal of Magnetism and Magnetic Materials, 2008, 320, e696-e698.	2.3	43
112	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
113	Microwave Permeability of FeCo-Based Magnetic Thin Films. Advanced Materials Research, 0, 881-883, 1109-1112.	0.3	1