Hari Mohan Rai

List of Publications by Year
in descending order

32 papers	**848** citations	471509 **17** h-index	526287 **27** g-index
33 all docs	**33** docs citations	**33** times ranked	**746** citing authors

#	ARTICLE	IF	CITATIONS
1	ECG signal processing for abnormalities detection using multi-resolution wavelet transform and Artificial Neural Network classifier. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3238-3246.	5.0	176
2	Electronic and optical properties of BaTiO3 across tetragonal to cubic phase transition: An experimental and theoretical investigation. Journal of Applied Physics, 2017, 122, .	2.5	95
3	Hybrid CNN-LSTM deep learning model and ensemble technique for automatic detection of myocardial infarction using big ECG data. Applied Intelligence, 2022, 52, 5366-5384.	5.3	59
4	Raman spectroscopy for study of interplay between phonon confinement and Fano effect in silicon nanowires. Journal of Raman Spectroscopy, 2016, 47, 283-288.	2.5	43
5	Interplay between phonon confinement and Fano effect on Raman line shape for semiconductor nanostructures: Analytical study. Solid State Communications, 2016, 230, 25-29.	1.9	42
6	Hybrid adaptive algorithm based on wavelet transform and independent component analysis for denoising of MRI images. Measurement: Journal of the International Measurement Confederation, 2019, 144, 72-82.	5.0	38
7	Amplification or cancellation of Fano resonance and quantum confinement induced asymmetries in Raman line-shapes. Physical Chemistry Chemical Physics, 2017, 19, 31788-31795.	2.8	36
8	Fe doped $LaGaO_3$: good white light emitters. RSC Advances, 2016, 6, 100230-100238.	3.6	35
9	2D MRI image analysis and brain tumor detection using deep learning CNN model LeU-Net. Multimedia Tools and Applications, 2021, 80, 36111-36141.	3.9	31
10	Observation of large dielectric permittivity and dielectric relaxation phenomenon in Mn-doped lanthanum gallate. RSC Advances, 2016, 6, 26621-26629.	3.6	30
11	Detection of brain abnormality by a novel Lu-Net deep neural CNN model from MR images. Machine Learning With Applications, 2020, 2, 100004.	4.4	29
12	A Novel Adaptive Feature Extraction for Detection of Cardiac Arrhythmias Using Hybrid Technique MRDWT & MPNN Classifier from ECG Big Data. Big Data Research, 2018, 12, 13-22.	4.2	28
13	Role of metal nanoparticles on porosification of silicon by metal induced etching (MIE). Superlattices and Microstructures, 2016, 94, 101-107.	3.1	22
14	Automatic and accurate abnormality detection from brain MR images using a novel hybrid UnetResNext-50 deep CNN model. Biomedical Signal Processing and Control, 2021, 66, 102477.	5.7	21
15	Room temperature magnetodielectric studies on Mn-doped $LaGaO_3$. Materials Research Express, 2015, 2, 096105.	1.6	17
16	Observation of room temperature magnetodielectric effect in Mn-doped lanthanum gallate and study of its magnetic properties. Journal of Materials Chemistry C, 2016, 4, 10876-10886.	5.5	17
17	Possibility of spin-polarized transport in edge fluorinated armchair boron nitride nanoribbons. RSC Advances, 2016, 6, 11014-11022.	3.6	17
18	Half-metallicity in armchair boron nitride nanoribbons: A first-principles study. Solid State Communications, 2015, 212, 19-24.	1.9	16

#	Article	IF	Citations
19	Room-Temperature Magneto-dielectric Effect in $LaGa_{0.7}Fe_{0.3}O_{3+\gamma}$; Origin and Impact of Excess Oxygen. Inorganic Chemistry, 2017, 56, 3809-3819.	4.0	14
20	Electronic and Transport Properties of Zigzag Boron Nitride Nanoribbons. Journal of Computational and Theoretical Nanoscience, 2013, 10, 368-375.	0.4	13
21	ECG signal classification using wavelet transform and Back Propagation Neural Network. , 2012, , .		12
22	Effect of Hf doping on the structural, dielectric and optical properties of CaCu3Ti4O12 ceramic. Journal of Materials Science: Materials in Electronics, 2016, 27, 5878-5885.	2.2	11
23	Hybrid CNN-LSTM model for automatic prediction of cardiac arrhythmias from ECG big data. , 2020, , .		10
24	Importance of frequency dependent magnetoresistance measurements in analysing the intrinsicality of magnetodielectric effect: A case study. Journal of Applied Physics, 2017, 122, .	2.5	8
25	A Novel Deep CNN Model for Classification of Brain Tumor from MR Images. , 2020, , .		8
26	Deblurring and Denoising of Magnetic Resonance Images using Blind Deconvolution Method. International Journal of Computer Applications, 2013, 81, 7-12.	0.2	5
27	Myocardial Infarction Detection Using Deep Learning and Ensemble Technique from ECG Signals. Lecture Notes in Networks and Systems, 2021, , 717-730.	0.7	4
28	Effect of Mn doping on dielectric response and optical band gap of $LaGaO_3$. Advances in Materials and Processing Technologies, 2017, 3, 539-549.	1.4	3
29	ECG arrhythmia classification using daubechies wavelet and radial basis function neural network. , 2012, , .		2
30	Static Handwritten Signature Recognition Using Discrete Random Transform and Combined Projection Based Technique. , 2014, , .		2
31	Tumor Detection from Brain Magnetic Resonance Images Using MRDWTA-RBFNNC. Lecture Notes in Networks and Systems, 2021, , 267-278.	0.7	2
32	A flight control method for unmanned aerial vehicles based on vibration suppression. IET Collaborative Intelligent Manufacturing, 2021, 3, 252-261.	3.3	0