Index Page

3.4.5. Bibliometrics of the publications during the last five years based on average Citation index in Scopus/ Web of Science (5)

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Documents

Sastri, M.V.S.S., Jagannadha Rao, K., Bhikshma, V.

Estimation of compressive strength of concrete by testing the pozzolanic reactions of blended cement mortars using bolomey's equation
(2019) *International Journal of Recent Technology and Engineering*, 8 (3), pp. 6525-6534. Cited 1 time.

2-s2.0-85073750729
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Roy, R., Bhasi, A.

Investigation of Arching Effect in Geosynthetic-Reinforced Piled Embankments
(2019) *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, 43, pp. 249-262. Cited 1 time.

2-s2.0-85067351634
Document Type: Article
Publication Stage: Final
Source: Scopus

International Journal of Mechanical and Production Engineering Research and Development • *Open Access* • Volume 9, Issue 4, Pages 849 - 858 • 31 August 2019 • Article number IJMPERDAUG201987

Document type
Article • *Bronze Open Access*

Source type
Journal

ISSN
22496890

DOI
10.24247/ijmperdaug201987

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A short review on constitutive modelling of the shape memory alloys-1

Gurubrahmam K.[a]; Baburam M.[a]; Kumar, Avenkatasai[a]; Gara, Dheeraj K.[b]

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[a] Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, India

[b] Vsky Aerospace Technologies, India

Abstract

Shape memory alloys (SMAs) received significant attention by biomedical, aerospace and automotive industries due to their captivating properties called shape memory effect (SME) and Pseudo elasticity. However, the applications of these alloys are mostly found to be biocompatible, and are very sensitive to aerospace and automotive applications. This realization of developing the materials amenable to both aerospace and automotive applications along with biomedical applications needs an assignment of developing suitable constitutive model, to understand the behavior of these materials in different environments. As a result, the present paper emphasizes a short review on

Characterization of Glass/Jute Hybrid Fibre Reinforced Epoxy Composite for Axial Flow Fan Blade

By: Chinta, Venkata Sushma (Chinta, Venkata Sushma) ; Reddy, P. Ravinder (Reddy, P. Ravinder) ; Prasad, Koorapati Eshwara (Prasad, Koorapati Eshwara) ; Vadapally, Krishna Sai (Vadapally, Krishna Sai) ; Anand, Sathola (Anand, Sathola) ; Kiran, B. Venkata Sai (Kiran, B. Venkata Sai)

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JOURNAL OF POLYMER & COMPOSITES

Volume: 7 **Issue:** 3 **Page:** 32-43

Published: 2019

Indexed: 2020-08-12

Document Type: Article

Abstract

These days the interest in the area of research has shifted towards using natural fibres as reinforcement in the preparation of polymer composite material. Having superior properties such as lower density, higher stiffness, better mechanical properties and as since the natural fibres are abundantly available, being renewable and biodegradable, the natural fibre -based composite preparation has gathered a special attention in the field of research. Traditionally, axial flow fan blades were manufactured by using metal alloys, but with the increase in blade size, the blades grew heavier resulting in more vibrations during its working. It is impossible to manufacture the metallic blades to close tolerances, making it uneconomical. Due to this dimensional instability, the metallic impeller fan blades are instead fabricated with glass fibre reinforced plastics (GFRP). To reduce the aftereffects of GFRP blades on the environment, it necessitates the partial reinforcement of natural fibre. The availability of natural jute fibre at very low cost and as to find an alternative to decrease the aftereffects of glass fibre on environment, research has been undertaken to develop hybrid fibre reinforced polymer (HFRP) composites. This paper deals with the characterization of GFRP blade material with

International Journal of Mechanical and Production Engineering Research and Development • *Open Access* • Volume 9, Issue 3, Pages 939 - 946 • 2019 • Article number IJMPERDJUN2019102

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10.24247/ijmperdjun2019102

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Experiemental studies on optimization of molding sand composition with tamarind kernel powder as additive

Laxmaiah G.; Ravindra Reddy P.V.R.; Solomonraj S.

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[a] Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract

Among all the manufacturing processes, sand casting process still remains as one of the most complex process as it involves heat transfer, fluid flow and so many other things. As the properties of the green sand mix influence the casting defects, the parameters affecting these properties should be identified and controlled precisely. Since, Traditional method of trial-and-error based methods have many disadvantages such as being nonsystematic, time consuming, error-prone and requirement for long durations of experimentation [1], statistical techniques are to be employed. The process parameters that are being varied are clay, water and additive . L-9 orthogonal array is used for experimental design and S/N ratio, and ANOVA are employed to find the optimal process parameter

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Performance evaluation of induction motor for unipolar and bipolar pulse width modulation techniques

Murali Krishna T.[a]; Krishna Veni K.[b]; Suresh Babu G.[a]; Sushma D.[a]; Harish C.[a]

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[a] EEE Department, CBIT, Hyderabad, India
[b] CBIT, India

2017 14th IEEE India Council International Conference, INDICON 2017 • 9 October 2018 • Article number 8487876 • 14th IEEE India Council International Conference, INDICON 2017 • Roorkee • 15 December 2017through 17 December 2017 • Code 140717

Optimal Combined Overcurrent and Distance Relays Coordination using Teaching Learning based Optimization

Roy, Saptarshi ; Babu, P. Suresh ; Babu, N.V. Phanendra

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[a] EED, National Institute of Technology, Warangal, India

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- Sultana, Q. (1)

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Guda, V., Ramadevi, Y.

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(2019) *International Journal of Recent Technology and Engineering*, 8 (2), pp. 2861-2865.

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Pramod Kumar, P., Sagar, K.

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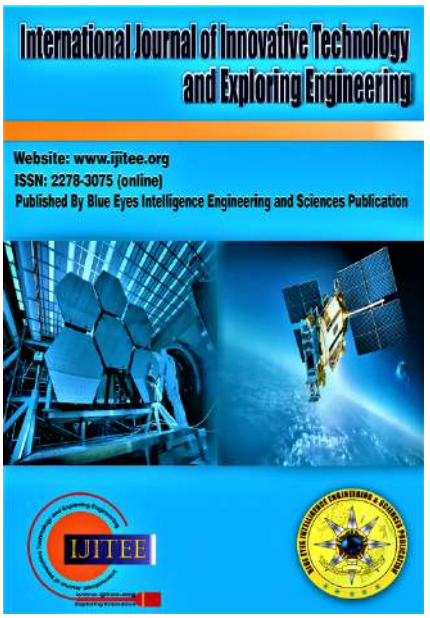

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Published By: Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)
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Journal Starting Year: 2012
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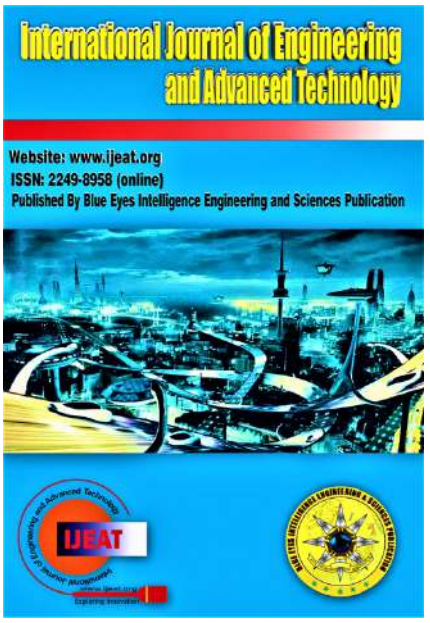

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Scopus Indexing: 2018-2019
Publishing Frequency: 06 Issue per year (Bi-monthly: *February, April, June, August, October and December*)
Published By: Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)
First Volume/Issue Publishing Year: 2011
Journal Starting Year: 2011
Publication Language: English
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CrossRef: Yes
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Padmalatha, E., Sekhar, K.A.S., Mudiam, D.R.R.

Real time analysis of crowd behaviour for automatic and accurate surveillance
(2019) *International Journal of Advanced Computer Science and Applications*, 10 (3), pp. 492-496.

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2021	2020

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Documents

Bhukya, S.N.[a] , Pabboju, S.[b]

Software engineering: risk features in requirement engineering
(2019) *Cluster Computing*, 22, pp. 14789-14801. Cited 2 times.

DOI: 10.1007/s10586-018-2417-3

[a] Faculty of Computer Science and Engineering, Osmania University, Hyderabad, Telangana, India
[b] CBIT, Osmania University, Hyderabad, Telangana, India

Abstract
The term risk is defined as the potential future harm that may arise due to some present actions. Risk management in software engineering is related to the various future harms that could be possible on the software due to some minor or non-noticeable mistakes in software development project or process. There are quite different types of risk analysis that can be used. Basically, risk analysis identifies the high risk elements of a project in software engineering. Also, it provides ways of detailing the impact of risk mitigation strategies. Risk analysis has also been found to be most important in the software design phase to evaluate criticality of the system. The main purpose of risk analysis understands the risks in better ways and to verify and correct the attributes. A successful risk analysis includes important elements like problem definition, problem formulation, data collection. Some of the requirement risks are Poor definition of requirements, Inadequate of requirements, Lack of testing, poor definition of requirements etc. The likelihood of the events which tends to the goal can be evaluated from the evidence of Satisfaction and denial of the goal and it can be achieved through Tropos goal model. Original Tropos model is modified to meet the risk assessment requirements in requirements engineering. The event considers as a risk which based on the likelihood values. The relations are defined between multiple goals and events, which identify the necessity of a particular goal. In order to analyze the risk in achieving some particular goals, a set of candidate solutions are generated. Based on the risk affinitive value, the candidate solutions can be evaluated. There are three risk parameters to compute the risk affinitive value, which are (1) low (2) medium (3) high. The risk parameters and cost analysis clearly evaluate the affinity of that event to a particular set of goals. © 2018, Springer Science+Business Media, LLC, part of Springer Nature.

Author Keywords
Cost analysis; Risk analysis; Risk management; Tropos goal model

Index Keywords
Cost accounting, Cost benefit analysis, Risk assessment, Risk management, Software design; Cost analysis, Data collection, Goal modeling, Problem definition, Problem formulation, Requirement engineering, Risk mitigation strategy, Software development projects; Risk analysis

Publisher: Springer

ISSN: 13867857
2-s2.0-85043696192
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Ratna Raju, A.[a] , Pabboju, S.[b] , Rajeswara Rao, R.[c]

Hybrid active contour model and deep belief network based approach for brain tumor segmentation and classification

(2019) *Sensor Review*, 39 (4), pp. 473-487. Cited 7 times.

DOI: 10.1108/SR-01-2018-0008

[a] Mahatma Gandhi Institute of Technology, Hyderabad, India
[b] Chaitanya Bharathi Institute of Technology, Hyderabad, India
[c] JNTUK-UCEV, Vizianagaram, India

Abstract
Purpose: Brain tumor segmentation and classification is the interesting area for differentiating the tumorous and the non-tumorous cells in the brain and classifies the tumorous cells for identifying its level. The methods developed so far lack the automatic classification, consuming considerable time for the classification. In this work, a novel brain tumor classification approach, namely, harmony cuckoo search-based deep belief network (HCS-DBN) has been proposed. Here, the images present in the database are segmented based on the newly developed hybrid active contour (HAC) segmentation model, which is the integration of the Bayesian fuzzy clustering (BFC) and the active contour model. The proposed HCS-DBN algorithm is trained with the features obtained from the segmented images. Finally, the classifier provides the information about the tumor class in each slice available in the database. Experimentation of the proposed HAC and the HCS-DBN algorithm is done using the MRI image available in the BRATS database, and results are observed. The simulation results prove that the proposed HAC and the HCS-DBN algorithm have an overall better performance with the values of 0.945, 0.9695 and 0.99348 for accuracy, sensitivity and specificity, respectively. Design/methodology/approach: The proposed HAC segmentation approach integrates the properties of the AC model and BFC. Initially, the brain image with different modalities is subjected to segmentation with the BFC and AC models. Then, the Laplacian correction is applied to fuse the segmented outputs from each model. Finally, the proposed HAC segmentation provides the error-free segments of the brain tumor regions prevailing in the MRI image. The next step is to extract the useful features, based on scattering transform, wavelet transform and local Gabor binary pattern, from the segmented brain image. Finally, the extracted features from each segment are provided to the DBN for the training, and the HCS algorithm chooses the optimal weights for DBN training. Findings: The experimentation of the proposed HAC with the HCS-DBN algorithm is analyzed with the standard BRATS database, and its performance is evaluated based on metrics such as accuracy, sensitivity and specificity. The simulation results of the proposed HAC with the HCS-DBN algorithm are compared against existing works such as k-NN, NN, multi-SVM and multi-SVNN. The results achieved by the proposed HAC with the HCS-DBN algorithm are eventually higher than the existing works with the values of 0.945, 0.9695 and 0.99348 for accuracy, sensitivity and specificity, respectively. Originality/value: This work presents the brain tumor segmentation and the classification scheme by introducing the HAC-based segmentation model. The proposed HAC model combines the BFC and the active contour model through a fusion process, using the Laplacian correction probability for segmenting the slices in the database. © 2019, Emerald Publishing Limited.

Author Keywords
Active contour; BFC; Brain tumor segmentation; Classification; Deep belief network

Index Keywords
Brain, Brain mapping, Classification (of information), Database systems, Laplace transforms, Magnetic resonance imaging, Nearest neighbor search, Support vector machines, Tumors, Wavelet transforms; Active contours, Automatic classification, Brain tumor classifications, Brain tumor segmentation, Deep belief networks, Design/methodology/approach, Local Gabor binary patterns, Sensitivity and specificity; Image segmentation

Publisher: Emerald Group Holdings Ltd.

ISSN: 02602288
CODEN: SNRVD
2-s2.0-85070329900
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Kumar, K.K.[a] , Pabboju, S.[b]

An efficient adaptive genetic algorithm technique to improve the neural network performance with aid of adaptive GA operators

(2019) *International Journal of Networking and Virtual Organisations*, 20 (2), pp. 127-142. Cited 3 times.

DOI: 10.1504/IJNVO.2019.097630

[a] Department of Computer Science and Engineering, Kakatiya University, Warangal, India
[b] Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract
The neural network (NN) performance improvement is one of the major topics. Thus an adaptive genetic algorithm (AGA) technique is proposed by making adaptive with respect to genetic operators like crossover and mutation. Our adaptive GA technique starts with the generation of initial population as same as the normal GA and performs the fitness calculation for each individual generated chromosome. After that, the genetic operator's crossover and mutation will be performed on the best chromosomes. The AGA technique will be utilised in the NN performance improvement process. The AGA will utilise some parameters obtained from the NN by back propagation algorithm. The utilisation of NN parameters by AGA will improve the NN performance. Hence, the NN performance can be improved more effectively by achieving high performance ratio than the conventional GA with NN. The technique will be implemented in the working platform of MATLAB and the results will be analysed to demonstrate the performance of the proposed AGA. Copyright © 2019 Inderscience Enterprises Ltd.

Author Keywords
Adaptive genetic algorithm; AGA; ANN; Artificial neural network; Back propagation algorithm; BPA; Crossover; GA; Genetic algorithm; Mutation

Index Keywords
Backpropagation, Chromosomes, Gallium, Neural networks; Adaptive genetic algorithms, Crossover, Crossover and mutation, Fitness calculation, High performance ratio, Initial population, Mutation, Neural network (nn); Genetic algorithms

Publisher: Inderscience Publishers

2-s2.0-85061178928
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Trupthi, M.[a] , Pabboju, S.[b] , Gugulotu, N.[c]

Deep sentiments extraction for consumer products using NLP-based technique
(2019) *Advances in Intelligent Systems and Computing*, 898, pp. 191-201. Cited 5 times.

[a] Jawaharlal Nehru Technological University Hyderabad, Hyderabad, India
[b] Chaitanya Bharathi Institute of Technology, Hyderabad, India
[c] Jawaharlal Nehru Technological University Sultanpur, Sultanpur, India

Abstract
The growth in the field of e-commerce and product availability over the Internet is the higher availability of the consumable items is making the customers seek for higher quality and comparative price points. The primary reason for this ambiguity is the lack of in hand experience for the customers before the purchase. The customers mostly tend to rely on the feedbacks of the other buyers. The feedbacks on the products are often made in thousands in numbers, and it is difficult for the potential buyers to decide by looking into these feedbacks or reviews. Thus the demand of the modern research is to automate the process for extracting the true feedback matching their needs based on usage or price or location constraints. The feedback or the review system can be easily manipulated by the incorrect feedbacks. Hence it is important to reduce the influence of those feedbacks during extracting the overall sentiment of any product. Also, yet another challenge is that most of the feedbacks are not in formal English, thus making it difficult to extract the accurate feedback. This work proposes a novel-automated frame for extracting the deep sentiments from the reviews or the feedbacks on e-commerce websites. Another major outcome of this work is to detect the false reviews and making the sentiment true for any decision making. The research work generates a trustable sentiment extraction process to justify the need of true feedbacks for customer decision making. © Springer Nature Singapore Pte Ltd. 2019.

Author Keywords
Deep sentiment extraction; False review detection; Pointwise mutual information validation; Semantic orientation analysis; Weighted sentiment analysis

Index Keywords
Consumer products, Data mining, Decision making, Electronic commerce, Extraction, Sales, Semantics, Sentiment analysis, Soft computing; Customer decisions, E-commerce websites, Extraction process, Location constraints, Pointwise mutual information, Potential buyers, Product availability, Semantic orientation; Signal processing

Publisher: Springer Verlag

2-s2.0-85062303125
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

Scopus

Documents

Vasanth Sena, P.[a] , Sammulal, P.[b]

An optimal heuristic for student failure detection and diagnosis in the sathvahana educational community using WEKA

(2019) *Lecture Notes in Electrical Engineering*, 500, pp. 671-678. Cited 1 time.

DOI: 10.1007/978-981-13-0212-1_68

[a] R&D Cell, JNTUH, Hyderabad, India
[b] CSE Department, JNTUH-CEJ, Karimnagar, India

Abstract
The study offered in this paper aims to explore students characteristics and to determine unsuccessful student groups in respective subjects based on their earlier education and the impact of other factors in multiple dimensions. Predictive data mining techniques such as as classification analysis is applied in the analysis process. Datasets used in the investigation were collected from all academic years in the Sathavahana educational community contains different professional disciplines through online. The method adopted is to know the number of students failing in each subject and analyze the reasons for failure using data mining tools like WEKA. This model works effectively with large datasets. It has been tested on WEKA with different algorithms. © Springer Nature Singapore Pte Ltd. 2019.

Author Keywords
Classification; Diagnosis; Educational; Failure detection; Institutions

Index Keywords
Classification (of information), Computer aided diagnosis, Data mining, Diagnosis, Education computing, Failure (mechanical), Safety engineering, Societies and institutions; Classification analysis, Data-mining tools, Educational, Educational community, Failure detection, Multiple dimensions, Predictive data mining, Professional disciplines; Students

Publisher: Springer Verlag

2-s2.0-85053616796
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

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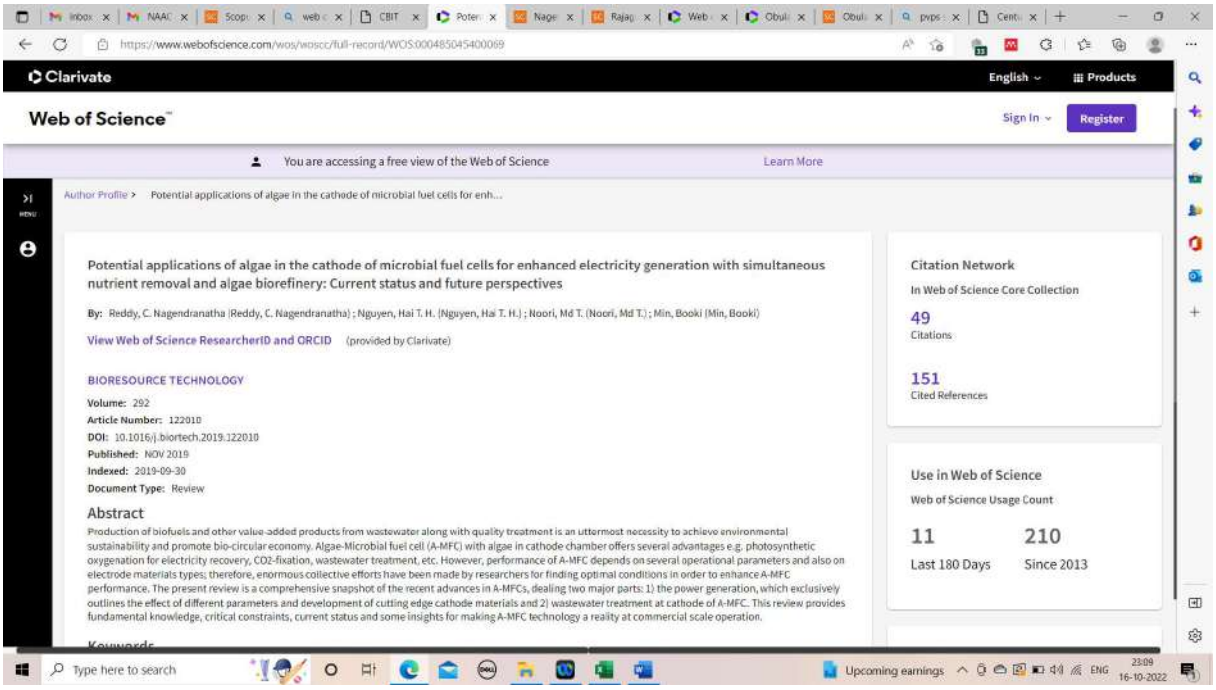

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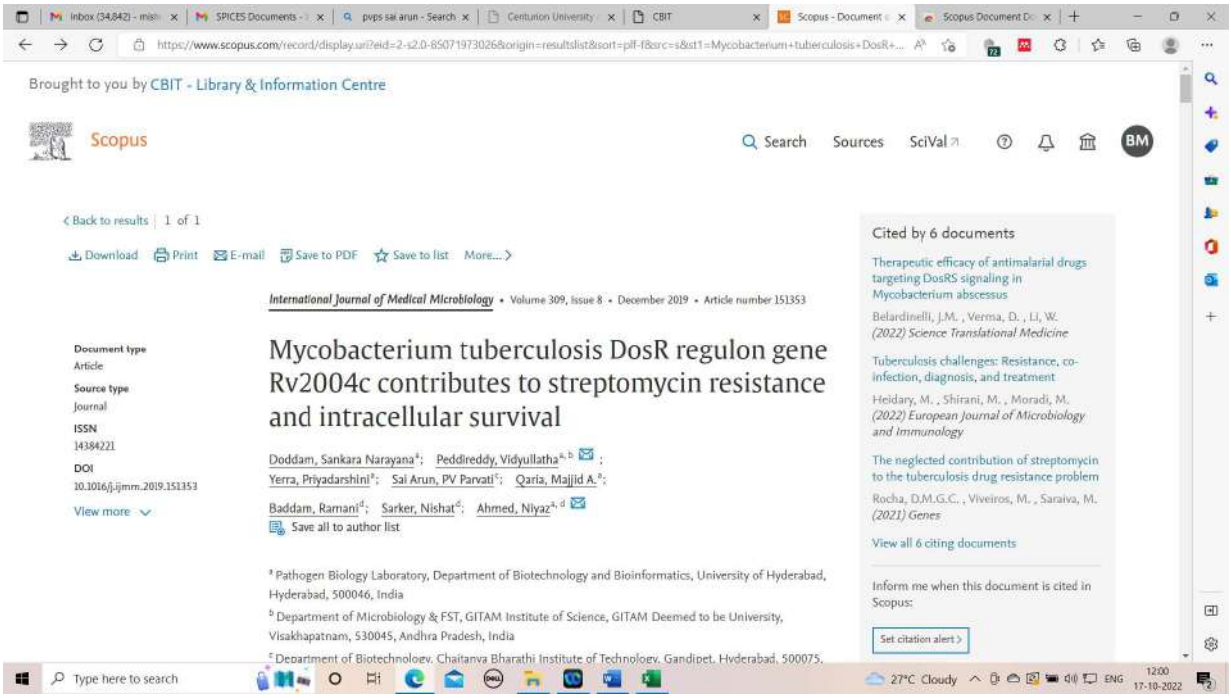

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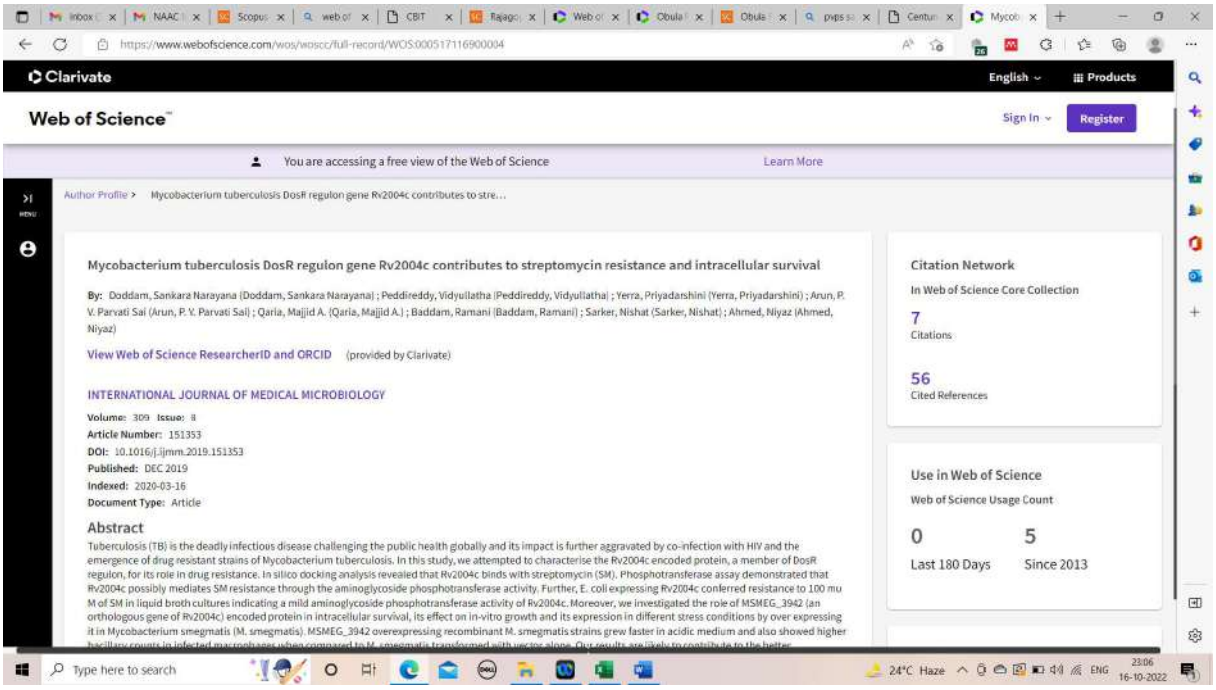

Physica B: Condensed Matter • Volume 568, Pages 13 - 17 • 1 September 2019

Document type
Article

Source type
Journal

ISSN
09214526

DOI
10.1016/j.physb.2019.05.017

View more

Electromagnetic interference shielding effectiveness of amorphous and nanocomposite soft magnetic ribbons

Murugaiyan, Premkumar[a, d] ; Mitra, Amitava[a]; Panda, Ashis K.[a]; Kumar, A.Santhosh[c]; Roy, Rajat K.[a]; Manna, Kunal[b]; Srivastava, Suneel Kumar[b]

Save all to author list

[a] NDE & Magnetic Materials Gr., AMP Division, CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India
[b] Department of Chemistry, Indian Institute of Technology, Kharagpur, 721302, India
[c] Department of Materials Engineering, Defence Institute of Advanced Technology, Girinagar, Pune, 411025, India
[d] Academy of Scientific and Innovative Research (AcSIR), CSIR-NML Campus, Jamshedpur, 831007, India

Abstract

The electromagnetic interference shielding effectiveness (EMI SE) of amorphous and annealed melt-spun ribbons having typical composition of $Co_{72.5}Si_{12.5}B_{15}$, $(Fe_{0.65}Co_{0.35})_{83}Si_{1.3}B_{11.7}Nb_3Cu_1$, $Fe_{80}Si_8B_{12}$ and $Fe_{83}Si_2B_{13}Nb_2$ were studied in the 0.2–8.5 GHz microwave range. The amorphous nature of the as-quenched ribbons was confirmed by X-ray diffraction patterns and differential scanning calorimetry (DSC). The flexible electromagnetic wave absorber ribbons of CoSiB, FeSiB, and FeCoSiBNbCu based alloys exhibit ~99.99% attenuation of electromagnetic waves in the entire 0.2–8.5 GHz (L, S and C-

Physical Review B • *Open Access* • Volume 100, Issue 18 • 12 November 2019 • Article number 180404

Document type
Article • *Green Open Access*

Source type
Journal

ISSN
24699950

DOI
10.1103/PhysRevB.100.180404

View more

Coexistence of spin semimetal and Weyl semimetal behavior in FeRhCrGe

Venkateswara Y.[a]; Samatham, S. Shanmukharao[a, b]; Babu P.D.[c]; Suresh K.G.[a] ; Alam, Aftab[a, d]

Save all to author list

[a] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, India

[b] Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, Andhra Pradesh, 535005, India

[c] UGC-DAE Consortium for Scientific Research, Mumbai Centre, BARC Campus, Mumbai, 400085, India

[d] Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, India

Abstract

We report the theoretical prediction of a class of spintronic materials, namely, spin semimetals, which is indirectly supported by experimental data measured for one such system. The band structure of this class of materials is such that one of the spin bands resembles that of a semimetal, while the other is similar to that of an insulator/semiconductor. We show that quaternary Heusler alloy FeRhCrGe possesses band features characterizing it as a spin semimetal. It is found to possess a magnetic moment of 3μB and a Curie temperature of 550 K. Measurements below 300 K show weakly temperature dependent electrical conductivity and a moderate Hall effect. Band structure calculations also reveal that the spin-up (semimetallic) band shows a strong signature of type-II Weyl semimetallic

Journal of Physics Condensed Matter • *Open Access* • Volume 31, Issue 34 • 2019 • Article number 345403

Document type
Article • *Green Open Access*

Source type
Journal

ISSN
09538984

DOI
10.1088/1361-648X/ab21ee

View more

An evidence of local structural disorder across spin-reorientation transition in $DyFeO_3$: An extended x-ray absorption fine structure (EXAFS) study

Panchwanee, Anjali[a]; Schiesaro, Irene[b]; Mobilio, Settimio[b]; Reddy, S Shravan Kumar[c]; Meneghini, Carlo[b]; Welter, Edmund[d]; Reddy, V. Raghavendra[a]

Save all to author list

[a] UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore, 452001, India
[b] Dipartimento di Scienze, Universita di Roma Tre, Roma, I-00146, Italy
[c] Physics Department, CBIT, Gandipet, Hyderabad, 500075, India
[d] Deutsches Elektronen-Synchrotron - A Research Centre of the Helmholtz Association, Hamburg, 22607, Germany

Abstract

The present work is aimed at exploring the local atomic structure modifications related to the spin reorientation transition (SRT) in $DyFeO_3$ orthoferrite exploiting x-ray absorption fine structure (XAFS) spectroscopy. For this purpose we studied by XAFS the evolution of the local atomic structure around Fe and Dy as function of temperature (10-300 K) in a $DyFeO_3$ sample having the SRT around 50-100 K. For sake of comparison we studied a $YFeO_3$ sample having no SRT. The analysis of the extended region has revealed an anomalous trend of Fe-O nearest neighbour distribution in DFO revealing (i) a weak

Journal of Physics Condensed Matter • Volume 31, Issue 49 • 13 September 2019 • Article number 495804

Document type
Article

Source type
Journal

ISSN
09538984

DOI
10.1088/1361-648X/ab3ddd

View more

Magnetism of 3d and 4d doped $Mn_{0.7}T_{0.3}NiGe$ (T = Fe, Co, Ru and Rh): Bulk magnetization and ab initio calculations

Samatham, S Shanmukharao[a] ; Patel, Akhilesh Kumar[b]; Lukoyanov A.V.[c, d]; Baglasov E.D.[d]; Suresh K.G.[b]

Save all to author list

[a] Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, Andhra Pradesh, 535005, India

[b] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Maharashtra, Mumbai, 400076, India

[c] M. N. Miheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences, Ekaterinburg, 620108, Russian Federation

[d] Ural Federal University, Ekaterinburg, 620002, Russian Federation

Abstract

We compare the magnetic properties of 3d (Fe and Co) and 4d (Ru and Rh) transition metals doped MnNiGe using the combined results of magnetization and ab initio calculations. The alloys crystallize in austenite Ni_2In-type hexagonal phase (space group: $P6_3/mmc$) with insignificant difference in the lattice parameters. $Mn_{0.7}Fe_{0.3}NiGe$ and $Mn_{0.7}Co_{0.3}NiGe$ exhibit spin-glass behavior, resulting from the competing ferro-and antiferromagnetic interactions. These alloys exhibit spontaneous exchange bias

Journal of Alloys and Compounds • Volume 806, Pages 575 - 579 • 25 October 2019

Document type
Article

Source type
Journal

ISSN
09258388

DOI
10.1016/j.jallcom.2019.07.186

View more

Magnetism and electronic structure of Gd_5Ge_2Sb: Experiment and theory

Samatham, S. Shanmukharao[a] ; Patel, Akhilesh Kumar[b]; Lukoyanov, Alexey V.[c, d]; Suresh K.G.[b]
Save all to author list

[a] Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, 535005, Andhra Pradesh, India

[b] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, Maharashtra, India

[c] M. N. Miheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences, Yekaterinburg, 620108, Russian Federation

[d] Ural Federal University, Yekaterinburg, 62002, Russian Federation

Abstract

We report on the magnetic behaviour and electronic structure of partly Sb doped Gd_5Ge_3 i.e., Gd_5Ge_2Sb. The compound crystallizes in Mn_5Si_3-type hexagonal structure with $P6_3/mcm$ space group. Strong ferromagnetic exchange correlations in the compound can be inferred from the large positive Weiss temperature θ_W = 143 K. A weak Griffiths phase at T_G~ 213 K, which sustains up to a field of 5

Nature Environment and Pollution Technology • Volume 18, Issue 4, Pages 1333 - 1338 • 2019

Document type
Article

Source type
Journal

ISSN
09726268

View more

Natural background gamma radiation levels in the environs of proposed petro-chemical industry near Jadcherla, Telangana State, India

Reddy, G. Srinivas[a]; Reddy, K. Vinay Kumar[b]; Reddy, B. Linga[b]; Reddy, B. Sreenivasa[b]

Save all to author list

[a] Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad, 500075, India

[b] Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, India

Abstract

A survey of environmental gamma radiation levels is attempted in the geographical site under construction to establish a petrochemical industry. The knowledge of natural background radiation is one of the significant steps in establishing the chemical industry. Some chemical operations such as chemical refinement may sometimes influence the natural radiation levels. The attempt of measurement of natural background gamma levels in the present paper is to establish the baseline data, which on further measurements will be useful to analyse the changes in natural background radiation levels at the time of operation of a chemical plant. The present investigation shows the activity levels of gamma radiation in the site under construction at 65 locations. The gamma levels are found to vary from 1459 μGyy^{-1} to 2765 μGyy^{-1} with the average of 2141±304 μGyy^{-1}. It is to be noted from the study that the average gamma radiation levels at two sample locations, cement mixing point (2307 μGyy^{-1}) and stone crushing point (2529 μGyy^{-1}) have been elevated. The elevated radiation levels at the two sample locations can be attributed to the radioactive dust emitted in the process of crushing stones and cement mixing.

Indoor and Built Environment • Volume 29, Issue 7, Pages 1038 - 1044 • 1 August 2020

Document type
Article

Source type
Journal

ISSN
1420326X

DOI
10.1177/1420326X19865998

View more

Natural background gamma radiation levels in dwellings constructed under the Double Bedroom Housing Scheme at Erravalli and Narasannapet model villages of Telangana state, India

Reddy, K Vinay Kumar; Reddy, B Sreenivasa ; Reddy, B Linga
Save all to author list

[a] Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract

Quantification of natural background gamma radiation levels in indoors has attracted mounting interest for the past few decades due to the detrimental effects of radiation. The indoor radiation levels depend on many parameters like geology, building materials, temperature, ventilation, etc. The natural background gamma radiation levels were estimated using a μR-Survey Meter in indoors and outdoors of dwellings constructed under the Double Bedroom Housing Scheme of Telangana state government at Erravalli and Narasannapet model villages. The average gamma radiation levels in the Erravalli village was found to be 2873 ± 413 μGyy^{-1}, while in Narasannapet village it was 2621 ± 355 μGyy^{-1}, which are relatively high as compared to the national average 775 ± 370 μGyy^{-1}. The indoor to outdoor

AIP Conference Proceedings • Volume 2265 • 5 November 2020 • Article number 030259 • 64th DAE Solid State Physics Symposium 2019, DAE-SSPS 2019 • Jodhpur, Rajasthan • 18 December 2019through 22 December 2019 • Code 164824

Document type
Conference Paper

Source type
Conference Proceedings

ISSN
0094243X

ISBN
978-073542025-0

DOI
10.1063/5.0017089

View more

As-deposited sol-gel made TiO_2-SiO_2 films as protective coatings for silver

Manikya Pratima B.[a] ; Uday Kumar K.[b]; Subrahmanyam A.[b]
Save all to author list

[a] Faculty in Physics, Freshman Engineering, Institute of Aeronautical Engineering, Hyderabad, India
[b] Semiconductor Laboratory, Department of Physics, Indian Institute of Technology Madras, Chennai, 600 036, India

Abstract

Silver surface is prone for tarnish when exposed to sulfide and sulfate environments. Present work reports protection of silver surfaces with sol-gel derived mixed oxides of titanium-silicon (TiO_2-SiO_2) thin films prepared at room temperature (300K) by dip coating technique without any post annealing. 0.1M and 0.3M titania and silica individual sols are mixed in fixed volume to prepare 0.1M (TS1) and 0.3M (TS3) titania-silica mixed oxides. The corrosion measurements of the coated and un-coated silver surfaces have been evaluated by conventional electro-chemical measurements; alkaline Na_2S and Na_2SO_4 are the electrolytes. The corrosion rates have been estimated from Tafel plots. The titania-silica protective thin films have shown significant decrease in the corrosion rates: bare silver from 1.06mmpy to protected silver surface 0.07mmpy. Ti-O-Si covalent bonds are revealed in Raman spectra of the mixed oxide films. The present investigation shows that sol-gel derived titania-silica films protect the silver surface from alkaline sulfide and sulfate environment very effectively.

Journal of Physics Condensed Matter • Volume 31, Issue 12 • 1 February 2019 • Article number 125803

Document type
Article

Source type
Journal

ISSN
09538984

DOI
10.1088/1361-648X/aafcf7

View more

Revelation of spin glass behavior in Ru doped MnNiGe: Experiment and theory

Samatham, S. Shanmukharao[a] ; Patel, Akhilesh Kumar[b]; Lukoyanov A.V.[c, d]; Suresh K.G.[b]

Save all to author list

[a] Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, Andhra Pradesh, 535005, India

[b] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, Maharashtra, 400076, India

[c] Institute of Metal Physics, Russian Academy of Sciences, Ural Branch, Yekaterinburg, 620137, Russian Federation

[d] Ural Federal University, Yekaterinburg, 620002, Russian Federation

Abstract

We report on the nature of the magnetism in Ru substituted MnNiGe using the combined results of x-ray diffraction, dc-magnetization, ac-susceptibility and ab initio calculations. $Mn_{0.7}Ru_{0.3}NiGe$ crystallizes in Ni_2In-type hexagonal structure ($P6_3/mmc$) at room temperature with lattice parameters a = b = 4.099 and c = 5.367 Å. From the dc-magnetization; a broad peak around 46.55 K, separation between zero-field cooled and field-cooled warming state and non-saturating isothermal magnetization with typical S-type hysteresis indicate glassy behavior. A cusp in is observed to shift toward high temperatures with increasing frequency. Mydosh parameter (), single-relaxation time (s)

Journal of Alloys and Compounds • Volume 783, Pages 977 - 989 • 30 April 2019

Document type
Article

Source type
Journal

ISSN
09258388

DOI
10.1016/j.jallcom.2018.12.343

View more

Effect of Ru substitution on structural, magnetic and transport behavior of $Ni_{50}Mn_{38}Sb_{12}$

Patel, Akhilesh Kumar[a]; Samatham, S. Shanmukharao[a, b]; Yadav A.K.[c]; Jha S.N.[c]; Bhattacharyya D.[c]; Suresh K.G.[a]

Save all to author list

[a] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, Maharashtra, India

[b] Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Chintalavalasa, Vizianagaram, 535005, Andhra Pradesh, India

[c] Atomic & Molecular Physics Division, Bhabha Atomic Research Centre, Mumbai, 400094, India

Abstract

We report on the structural, magnetic and transport properties of Ru doped $Ni_{50-x}Ru_xMn_{38}Sb_{12}$ (x = 0, 3 and 4) alloys. The alloys are found to crystallize in orthorhombic phase for x = 0, orthorhombic plus cubic phase for x = 3 and purely cubic for x = 4 respectively, at room temperature. Extended x-ray absorption fine structure (EXAFS) spectroscopy confirms the orthorhombic and cubic structure for x = 0 and 4 respectively while x = 3 shows mixed austenite and martensite phases, at room temperature. Temperature dependent EXAFS data confirms, first order structural transition from cubic austenite

Journal of High Energy Physics • *Open Access* • Volume 2018, Issue 12 • 1 December 2018 • Article number 105

Document type
Article • *Gold Open Access* • *Green Open Access*

Source type
Journal

ISSN
11266708

DOI
10.1007/JHEP12(2018)105

View more

Resummed transverse momentum distribution of pseudo-scalar Higgs boson at NNLO $_A$+NNLL

Agarwal, Neelima[a] ; Banerjee, Pulak[b, c] ; Das, Goutam[d] ; Dhani, Prasanna K.[b, c] ; Mukhopadhyay, Ayan[e] ; Ravindran V.[b, c] ; Tripathi, Anurag[e]

Save all to author list

[a] Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, Telangana State, India

[b] The Institute of Mathematical Sciences, IV Cross Road, CIT Campus, Chennai, 600 113, India

[c] Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400085, India

[d] Theory Group, Deutsches Elektronen-Synchrotron (DESY), Notkestrasse 85, Hamburg, D-22607, Germany

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Abstract

In this article we have studied the transverse momentum distribution of the pseudo-scalar Higgs boson at the Large Hadron Collider (LHC). The small p_T region which provides the bulk of the cross section is not accessible to fixed order perturbation theory due to the presence of large logarithms in the series. Using the universal infrared behaviour of the QCD we resum these large logarithms up to next-to-next-to-leading logarithmic (NNLL) accuracy. We observe a significant reduction in theoretical uncertainties due to the unphysical scales at NNLL level compared to the previous order. We present the p_T distribution matched to NNLO$_A$+NNLL, valid for the whole p_T region and provide a detailed

Ceramics International • Volume 44, Issue 16, Pages 19314 - 19318 • November 2018

Document type
Article

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Journal

ISSN
02728842

DOI
10.1016/j.ceramint.2018.07.159

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The electrical, magnetic and ^{57}Fe Mössbauer studies of Al doped $PrFeO_3$ polycrystalline materials

Ramesh J.[a]; Reddy S.S.K.[d]; Raju N.[a]; Reddy, M. Sreenath[b]; Reddy, Ch. Gopal[a]; Reddy, P. Yadagiri[a] ; Reddy, K. Rama[a]; Reddy, V. Raghavendra[c]

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[a] Department of Physics, Osmania University, Hyderabad, Telangana, India

[b] Department of Physics, Nizam College, Basheerbagh, Hyderabad, India

[c] UGC DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore, 452001, Madhya Pradesh, India

[d] Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, India

Abstract

The structural, electrical, magnetic and ^{57}Fe Mössbauer studies of sol-gel synthesized polycrystalline $Pr_{1-x}Al_xFeO_3$ (x = 0, 0.1, 0.2, 0.3, 0.4 and 0.5) samples are reported in this paper and the phase purity of the materials was confirmed from Rietveld refinement of XRD pattern. From the magnetization studies it is observed that the Al doping at Pr site changed the magnetic ordering of the system at both room

Materials Today: Proceedings • Volume 5, Issue 13, Pages 26817 - 26822 • 2018 • 2016 International Conference on Advances in Materials and Manufacturing, ICAMM 2016 • Hyderabad • 8 December 2016through 10 December 2016 • Code 144174

Document type
Conference Paper

Source type
Journal

ISSN
22147853

DOI
10.1016/j.matpr.2018.08.162

View more

Preparation characterisation of alumina nanocomposites

Charvani S.[a] ; Reddy, S. Shravan Kumar[b]; Narendar G.[c]; Gopal Reddy, Ch.[b]

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[a] Department of SandH, Inst. of Aeronautical Engineering, Dundigal Hyderabad, India

[b] Department of Physics, University College of Science, Osmania University, Hyderabad, India

[c] Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad, India

Abstract

To meet the industrial requirements of light weight and high strength materials, lot of research work is going on worldwide for improvement of properties of light weight non-metallic composites. Researchers are trying to meet the industrial requirements by adding nanoparticles in preparation of composite materials and making nanocomposites. Nanocomposites are formed by mixing two or more dissimilar materials and adding nanoparticles in the matrix in order to control and develop new and improved properties of composites. The properties of composites depend not only upon the individual components used but also upon the morphology and the interfacial characteristics of the constituents and nanoparticles added. In the present investigation, laminates of epoxy resin and nanoparticles of Al_2O_3 as filler are used with Aramid fibre, hybrid of Carbon and Aramid fibre as reinforcement are prepared. The nanoparticles, in the proportion of 1%, 3% and 5% are loaded into the composites. Nanoparticles of Al_2O_3 of 20-30nm size are first dispersed into methanol by mechanical stirring. The

Industrial and Engineering Chemistry Research • Volume 57, Issue 48, Pages 16192 - 16200 • 5 December 2018

Document type
Article

Source type
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ISSN
08885885

DOI
10.1021/acs.iecr.8b02859

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Enhanced photocatalytic activity of magnetic $BaFe_{12}O_{19}$ nanoplatelets than TiO_2 with emphasis on reaction kinetics, mechanism, and reusability

Raut, Sandesh S.[a]; Adpa, Santhosh Kumar[b]; Jambhale, Amruta[b]; Abhyankar, Ashutosh C.[b]; Kulkarni, Prashant S.[a]

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[a] Energy and Environment Laboratory, Department of Applied Chemistry, Defence Institute of Advanced Technology (DU), Ministry of Defence, Pune, 411 025, India

[b] Magnetic Materials Laboratory, Department of Materials Engineering, Defence Institute of Advanced Technology (DU), Ministry of Defence, Pune, 411 025, India

Abstract

Magnetically separable, barium hexaferrite ($BaFe_{12}O_{19}$) nanoplatelets were synthesized at various temperatures by cost-effective, molten salt technique and its photocatalytic activity was compared with commercially available TiO_2. $BaFe_{12}O_{19}$ nanostructures were characterized by using UV-vis-DRS, FE-SEM, XRD, BET, and Raman and further, subjected to photocatalytic degradation of an organic pollutant, hexahydro-1,3,5-trinitro-1,3,5 triazine (RDX) under UV and visible light. The reaction parameters, degradation kinetics, and mechanism were thoroughly studied, and optimum reaction

Journal of Physics Condensed Matter • Volume 30, Issue 29 • 26 June 2018 • Article number 295802

Document type
Article

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Journal

ISSN
09538984

DOI
10.1088/1361-648X/aacb19

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Magnetization, resistivity, specific heat and ab initio calculations of Gd_5Sb_3

Samatham, S Shanmukharao[a, b] ; Patel, Akhilesh Kumar[a]; Lukoyanov A.V.[c, d]; Suresh K.G.[a]

Save all to author list

[a] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Maharashtra Mumbai, 400076, India

[b] Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Chintalavalasa, Vizianagaram, Andhra Pradesh, 535005, India

[c] Institute of Metal Physics, Russian Academy of Sciences, Ural Branch, Yekaterinburg, 620137, Russian Federation

[d] Ural Federal University, Yekaterinburg, 620002, Russian Federation

Abstract

We report on the combined results of the structural, magnetic, transport and calorimetric properties of Mn_5Si_3-type hexagonal Gd_5Sb_3, together with ab initio calculations. It exhibits a ferromagnetic (FM)-like transition at 265 K, antiferromagnetic (AFM) Néel transition at 95.5 K followed by a spin-orientation transition at 62 K. The system is found to be in AFM state down to 2 K in a field of 70 kOe. The FM-AFM phase coexistence is not noticeable despite large positive Curie-Weiss temperature (K). Instead, low-temperature AFM and high-temperature FM-like phases are separated in large temperatures. Temperature-magnetic field (H-T) phase diagram reveals field-driven complex magnetic

Materials Research Express • Volume 6, Issue 2 • February 2019 • Article number 026407

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Optical and mechanical properties of Sol-gel prepared Titania (TiO_2) -Silica (SiO_2) mixed thin films 'as prepared at 300 K' without any post heat treatment

Pratima B.M.[a] ; Valleti, Krishna[b]; Subrahmanyam A.
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[a] Department of Physics, Indian Institute of Technology Madras, Chennai, 600036, India
[b] Scientist D, ARCI, Balapur, Hyderabad, 500005, India

Abstract


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Conference Paper
Source type
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ISSN
22147853
DOI
10.1016/j.matpr.2019.07.759
A concise review on the advancement of anode materials for Li-ion batteries
Saritha D.
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* Department of Chemistry, Chaitanya Bharathi Institute of Technology (A), Hyderabad,
Cited by 6 documents
Antimony Nanoparticles Encapsulated in Self-Supported Organic Carbon with a Polymer Network for High-Performance Lithium-Ion Batteries Anode
Wang, Z., Zeng, F., Zhang, D. (2022) Nanomaterials
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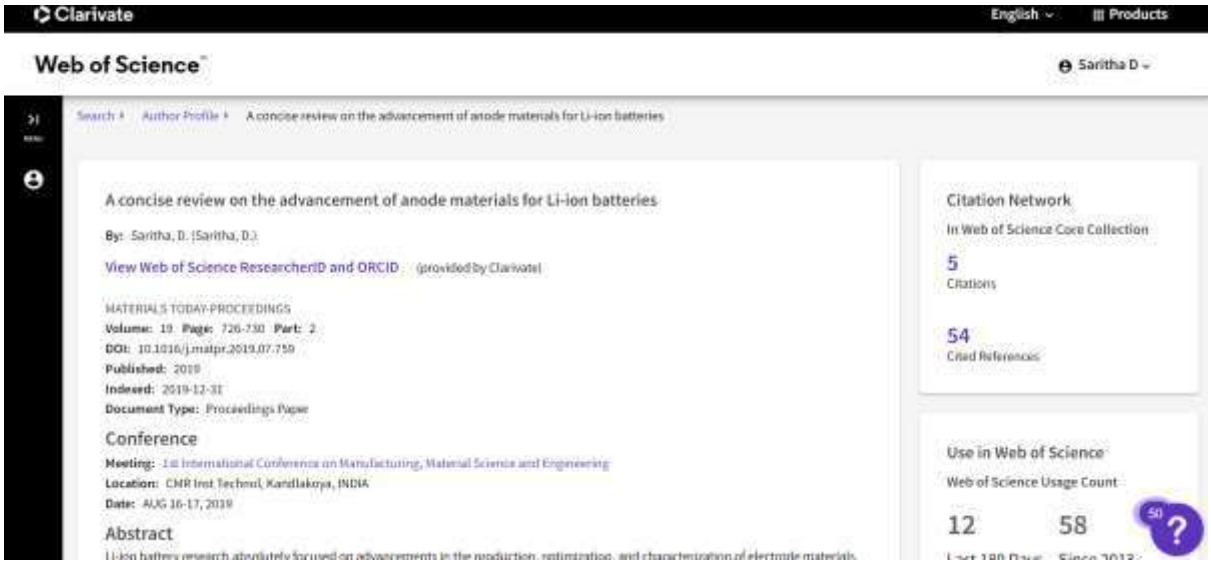
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Volume: 19 Page: 726-730 Part: 2
DOI: 10.1016/j.matpr.2019.07.759
Published: 2019
Indexed: 2019-12-31
Document Type: Proceedings Paper
Conference
Meeting: 1st International Conference on Manufacturing, Material Science and Engineering
Location: CMR Inst Technol, Kandlakoya, INDIA
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Poly(ethylene glycol) supported metal nitrates as well-organized reagents for hunsdiecker conversion of α,β-unsaturated acids to β-nitrostyrenes under solvent and acid-free conditions
Ramesh K.[a]; Shylaja S.[a]; Ramgopal S.[b]; Rao, A. Sambashiva[c]; Rajanna K.C.[b]
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Polyethylene Glycols as Efficient Catalysts for the Oxidation of Bicyclic Monoterpenes by Ceric Ammonium Nitrate in Acetonitrile under Acid-Free Conditions: Kinetic and Mechanistic Approach
Rajitha N.; Shylaja S.; Rajanna K.C. ; Yadagiri B.
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The effect of mixed sodium dodecyl sulfate–polyethylene glycol systems on kinetic of oxidation of o-Cresol by cerium(IV) in H2SO4 medium
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International Journal of Scientific and Technology Research • Volume 9, Issue 4, Pages 2880 - 2886 • April 2020

Document type
Article

Source type
Journal

ISSN
22778616

An efficient flow table management of flow entry in openflow switch/router

Veeramani S.[a] ; Indira B.[b] ; Pandi M.[a] ; Sivakumar T.[a]
Save all to author list

[a] Dept. of CSE at Dr.MCET, Pollachi, India
[b] Dept. of CSE at PSR Engineering College, Sivakasi, India

Focus | Published: 10 April 2019

An approach to enhance packet classification performance of software-defined network using deep learning

B. Indira, K. Valarmathi & D. Devaraj

Soft Computing **23**, 8609–8619 (2019) | Cite this article

Abstract

Packet classification in software-defined network has become more important with the rapid growth of Internet. Existing approaches focused on the data structure algorithms to classify the packets. But the existing algorithms lead to the problem of time budget and fails to accommodate large rule sets. Thus the key task is to design an algorithm for packet classification that inflicts process overhead, and the algorithm should handle large databases of classification rule. These challenging issues are achieved by proposing rectified linear unit deep neural network. The aim of this work is twofold. First various hyper-parameter values are

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International Journal of Innovative Technology and Exploring Engineering • Open Access • Volume 8, Issue 11, Pages 2029 - 2037 • September 2019

An automated VM security framework for live migration

Jyothi A.[a]; Indira, Baddam[b]
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[a] Anurag Group of Institutions, Hyderabad, India
[b] Chaitanya Bharathi Institute of Technology, Hyderabad, India

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International Journal of Recent Technology and Engineering • Volume 8, Issue 2, Pages 35 - 40 • July 2019

A unique six sigma based segmentation technique for brain tumor detection and classification using hybrid cnn-svm model

Kothari, Arati[a]; Indira B.[b]
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[a] Department of Computer Science, Gulbarga University, Kalaburagi, India
[b] Department of Computer Science, Chaitanya Bharathi Institute of Technology, Hyderabad, India

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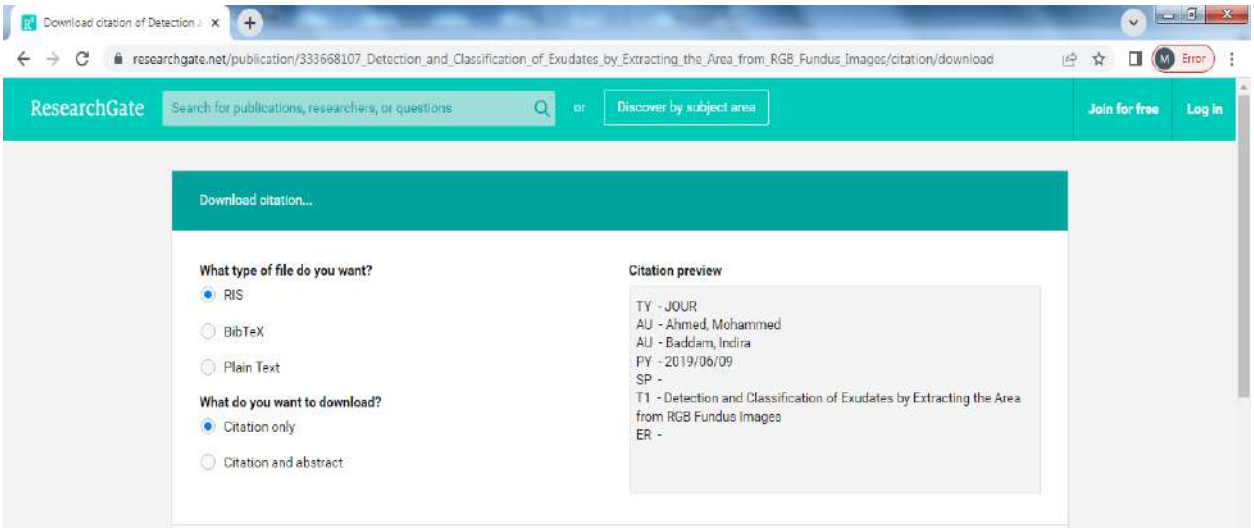
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International Journal of Mechanical and Production Engineering Research and Development • *Open Access* • Volume 8, Issue 4, Pages 397 - 402 • 31 August 2018

Document type
Article • *Bronze Open Access*

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Journal

ISSN
22496890

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10.24247/ijmperdaug201841

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Review on the advancements to additive manufacturing-4D and 5D printing

Ravinder Reddy P.; Anjani Devi P.

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[a] Chaitanya Bharati Institute of Technology, Hyderabad, Telangana, India

Abstract

3D printing is established additive manufacturing technology in the Industry for quite a time. While the Additive Manufacturing industry is still discovering new applications, new materials, and new 3D printers, research is on for other technologies. 4D printing was started a year ago and recently 5D printing is being thought about and experimented. 4D printing has the ability to change the shape of 3D printed objects over time, which is the 4thdimension. 5D printing has the capability to print in 5 different axes thus printing the layers in any required layers and curves. © TJPRC Pvt. Ltd.

Author keywords

IOP Conference Series: Materials Science and Engineering • *Open Access* • Volume 455, Issue 1 • 20 December 2018 • Article number 012061 • 2nd International Conference on Advancements in Aeromechanical Materials for Manufacturing, ICAAMM 2018 • Telangana • 13 July 2018through 14 July 2018 • Code 143490

Document type
Conference Paper • *Bronze Open Access*

Source type
Conference Proceedings

ISSN
17578981

DOI
10.1088/1757-899X/455/1/012061

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Evaluation of Mechanical Properties of Tailor Welded Sheet Metal Blanks

Sabitha K.C.[a]; Ravinder Reddy P.[b]; Krishnaiah A.[c]; Uday Kumar R.[a]

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[a] Department of Mechanical Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad, 500075, India

[b] Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technolgy, Gandipet, Hydrabad, 5000075, India

[c] Department of Mechanical Engineering, University College of Engineering, Hyderabad, OU, 5000075, India

Abstract

Materials Today: Proceedings • Volume 5, Issue 13, Pages 27043 - 27050 • 2018 • 2016 International Conference on Advances in Materials and Manufacturing, ICAMM 2016 • Hyderabad • 8 December 2016through 10 December 2016 • Code 144174

Document type
Conference Paper

Source type
Journal

ISSN
22147853

DOI
10.1016/j.matpr.2018.09.008

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Prediction of angular error in wire-EDM taper cutting of AISI D2 tool steel by RSM approach

Uday Kiran K.L.[a] ; Sarath P.[a]; Saraswathamma K.[a]; Chandra Mohan Reddy G.[b]

Save all to author list

[a] Department of Mechanical Engineering, Osmania University, Hyderabad TS, 500007, India

[b] Department of Mechanical Engineering, CBIT, Gandipet Hyderabad TS, 500075, India

Abstract

Taper-cutting is one of the most important application of wire electrical discharge machining (WEDM) process used for producing precise complex geometries with inclined surfaces in hard material parts that are extremely difficult to machine by conventional machining process. The wire is subjected to deformation during taper cutting operation leading to deviations in the angular dimensions and loss of tolerances in machined parts. For the correction of error time consuming

Materials Today: Proceedings • Volume 5, Issue 1, Pages 2928 - 2937 • 2018

Document type
Conference Paper

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Journal

ISSN
22147853

DOI
10.1016/j.matpr.2018.01.088

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Influences of process parameters on weld strength of low carbon alloy steel in purged SAW

Sailender M.[a] ; Reddy, G. Chandramohan[b]; Venkatesh S.[c]

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[a] Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad, 500 007, India

[b] Mahathma Gandhi Institute of Technology, Gandipet, Hyderabad, 500 075, India

[c] Mechanical Engineering Department, University College of Engineering, Osmania University, Hyderabad, 500 007, India

Abstract

Submerged arc welding (SAW) is one of the most widely employed welding process in manufacturing industry due to its inherent advantages such as deep penetration, smooth bead and reliability with high quality. SAW is notable with a large number of process parameters , which act

Influences of process parameters on weld strength of low carbon alloy steel in purged SAW

By: Sailender, M. (Sailender, M.) ; Reddy, G. ChandraMohan (Reddy, G. ChandraMohan) ; Venkatesh, S. (Venkatesh, S.)

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Volume: 5 **Issue:** 1 **Page:** 2928-2937 **Part:** 3

DOI: 10.1016/j.matpr.2018.01.088

Published: 2018

Indexed: 2018-04-13

Document Type: Proceedings Paper

Conference

Meeting: International Conference on Advanced Materials and Applications (ICAMA)

Location: Bengaluru, INDIA

Date: JUN 15-17, 2016

Abstract

Submerged arc welding (SAW) is one of the most widely employed welding process in manufacturing industry due to its inherent advantages such as deep penetration, smooth bead and reliability with high quality. SAW is notable with a large number of process parameters, which act together in an intricate manner and influence the output performance, successively affects the weld quality. As quality is at high priority, it is important in selecting process parameters. In the present work, parametric optimization of main factors, viz. Open circuit voltage (OCV), wire feed rate (WFR), welding speed (WS) and nozzle to plate distance (NPD) and thus to study influences on weld strength. Taguchi's L-9 orthogonal array, at three levels, has been adopted to conduct experiments as part of design experiments. Experiments are conducted 'purging with CO2 gas' in SAW to investigate the weld strength variations against the traditional SAW 'as weld' condition. The performance measure of control levels to select, are observed through S/N ratio, as the best cope with the noise to their effect. Analysis of variance (ANOVA) is calculated to

Materials Today: Proceedings • Volume 5, Issue 1, Pages 1387 - 1400 • 2018

Document type
Conference Paper

Source type
Journal

ISSN
22147853

DOI
10.1016/j.matpr.2017.11.225

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Numerical Analysis on the Effect of Various Parameters on Fracture Limit for Deep Drawn Cups

Rao B.V.S.[a] ; Reddy, G. Chandra Mohan[a]; Rao, G. Krishna Mohana[b]; Reddy, Pvr. Ravindra[a]

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[a] Department of Mechanical Engineering, CBIT, Gandipet, Hyderabad, 75, India

[b] Department of Mechanical Engineering, JNTU College of Engg., Hyderabad, India

Abstract

Deep drawing is the process of converting a blank into cup shaped articles like kitchen sinks, cooking pans, automobile panels, gas tanks, fountain pen caps etc. Wrinkles and fractures are the major defects in deep drawn products. Fracture is the separation or fragmentation of a solid body into two or more parts under the action of stress. In deep drawn cups tearing is usually an open crack in the vertical wall which occurs near the base due to high tensile stress that causes thinning and fracture of the metals at this location. During this process the punch force acting on the bottom of the cup is

Numerical Analysis On The Effect Of Various Parameters On Fracture Limit For Deep Drawn Cups

By: Rao, B. V. S. (Rao, B. V. S.) ; Reddy, G. Chandra Mohan (Reddy, G. Chandra Mohan) ; Rao, G. Krishna Mohana (Rao, G. Krishna Mohana) ; Reddy, P. V. R. Ravindra (Reddy, P. V. R. Ravindra)

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MATERIALS TODAY-PROCEEDINGS

Volume: 5 **Issue:** 1 **Page:** 1387-1400 **Part:** 1

DOI: 10.1016/j.matpr.2017.11.225

Published: 2018

Indexed: 2018-04-16

Document Type: Proceedings Paper

Conference

Meeting: International Conference on Processing of Materials, Minerals and Energy (PMME)

Location: Ongole, INDIA

Date: JUL 29-30, 2016

Sponsor: PACE Inst Technol & Sci

Abstract

Deep drawing is the process of converting a blank into cup shaped articles like kitchen sinks, cooking pans, automobile panels, gas tanks, fountain pen caps etc. Wrinkles and fractures are the major defects in deep drawn products. Fracture is the separation or fragmentation of a solid body into two or more parts under the action of stress. In deep drawn cups tearing is usually an open crack in the vertical wall which occurs near the base due to high tensile stress that causes thinning and fracture of the metals at this location. During this process the punch force acting on the bottom of the cup is transferred to the side of the cup. The narrow ring of metal just above the bottom of the cup is subjected to plane strain condition. As a result, failure of the cup easily happens in this zone due to necking induced by the tensile stress, leading to tearing. This type of failure can also occur on the flange as the metal is pulled over the sharp die corner. In addition to this sharp corner on the punch could also cause fracture of the cup

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2-s2.0-85044170095
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Investigation on performance and emission characteristics of EGR coupled semi adiabatic diesel engine fuelled by DEE blended rubber seed biodiesel

By: Krishna, K. Vamsi (Krishna, K. Vamsi) ; Sastry, G. R. K. (Sastry, G. R. K.) ; Krishna, M. V. S. Murali (Krishna, M. V. S. Murali) ; Barma, John Deb (Barma, John Deb)

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Volume: 21 **Issue:** 1 **Page:** 122-129
DOI: 10.1016/j.jestch.2018.02.010
Published: FEB 2018
Indexed: 2018-04-06
Document Type: Article

Abstract

The test case was semi adiabatic diesel engine (SADE) produced by thermal barrier 8 YSZ (Yttria Stabilized Zirconia) ceramic coated cylinder head and liner with bond coat NiCrAl as an intermediate layer and coupled with an EGR (exhaust gas recirculation) of 10% constant rate. The test fuels injected directly into the combustion chamber are diesel and blend A15B85 by vol. (Additive Diethyl Ether 15% + Rubber seed based Biodiesel 85%). Throughout the experimentation, a constant compression ratio 18:1, fuel injection pressure 190 bar and speed 1800 rpm. Load from 0% to 100% and start of injection (SOI) timing from 30 degrees BTDC to 35 degrees BTDC were varied to investigate performance, in-cylinder pressure and emission parameters of SADE and ordinary diesel engine (ODE) fuelled by test fuels. It was found that advancement of SOI timing improved all the investigated parameters except NOx emissions. Compared to ODE with diesel at any specific SOI timing, the test case with blend found to be favourable. The optimum results of SADE were 7% enhancement of BTE with the reduction in BSEC by 5.5%, particulates by 48.5%, NOx by 19.5% and exhaust gas temperature by 18.5% found with the blend at 33 degrees BTDC with higher load compared to ODE with neat diesel at 30 degrees BTDC. The optimum configuration of ODE found to be diesel fuel at 34 degrees BTDC with higher load. (C) 2018 Karabuk University. Publishing services by Elsevier B.V.

Keywords

Author Keywords: Yittria-stabilized zirconia; Exhaust gas recirculation; Rubber seed oil-biodiesel; Diethyl ether additive; Start of injection timing; Diesel engine
Keywords Plus: ALTERNATIVE FUEL; OIL; COMBUSTION; PRESSURE; JATROPHA; NEEM

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DOI: 10.22266/IJIES2018.0430.10

Department of Computer Science and Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract
Recent advancements in business strategies marked the significance of e-commerce in marketing any service of the organization. Moreover, users are quiet dependent on the average ratings of the products showcased in the marketing interface in turn these average ratings made remarkable impact on sales phenomena of the product. The average rating of a product is the aggregation of individual users ratings biased with the tendency of the user towards publishing the opinion. The optimistic user tends to give a slight high rating than a neutral judgement and vice versa with a pessimistic user. However, these biased ratings produce an aggregate value that is degraded with its trustworthiness. This paper proposed a novel approach named DBT (De-biased Tendency) Recommender to analyze the bias in product rating which recalculates the average ratings of the products by making user tendencies as part of the process. The solution implemented on a big data environment on demand of high computation complexity involved in the process. Experimental results had shown a significant improvement in the trustworthiness of the product ratings with the proposed approach. © 2018 Intelligent Network and Systems Society.

Author Keywords
De-biasing; E-commerce; Opinion mining; Recommender system

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An approach to mine time interval based weighted sequential patterns in sequence databases
(2018) *Proceedings - 13th International Conference on Signal-Image Technology and Internet-Based Systems, SITIS 2017*, 2018-January, pp. 29-34. Cited 2 times.

DOI: 10.1109/SITIS.2017.16

[a] Computer Science, JNTUH, College of Engineering, Hyderabad, India
[b] Dept. of IT, CBIT, Gandipet, Hyderabad, India
[c] Dept. of CSE, JNTUH, College of Engineering, Jagtial, Karimnagar, India

Abstract
Sequence pattern mining is an important data mining task with broad applications. Many sequence mining algorithms have been developed to discover frequent sub-sequences as sequential patterns in a sequence database given the minimum support threshold. One of the drawbacks with the conventional sequential pattern mining is, it considered only the generation order of elements in the sequences in finding sequential patterns.However, in real world application domain sequences, the generation times and time-intervals between the elements are also very important. Another drawback is, all the sequence patterns are treated uniformly while in reality different sequential patterns have different importance. To address the second drawback, weighted sequential pattern mining was proposed, which aims to find more interesting sequential patterns, by considering different significance for data elements in a sequence database. However, weighted sequential pattern mining did not consider time-interval information of the sequences. This paper presents a new approach for mining time-interval based weighted sequential patterns (TIWSP) in a sequence database. In the proposed approach, the weight of each sequence in a sequence database is obtained from the time-intervals of successive elements in the sequence, and then sequential pattern are mined by considering the time interval weight. Experimental results show that TIWSP mining is efficient than PrefixSpan in generating more interesting patterns. © 2017 IEEE.

Author Keywords
Sequential pattern mining; Time interval weight; Time interval weighted Sequential Pattern; Time interval weighted support

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Database systems, Structural analysis; Minimum support thresholds, Sequence pattern mining, Sequential patterns, Sequential-pattern mining, Time interval, Weighted sequential pattern, Weighted sequential pattern mining, Weighted supports; Data mining

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Bayesian HCS-based multi-SVNN: A classification approach for brain tumor segmentation and classification using Bayesian fuzzy clustering

(2018) *Biocybernetics and Biomedical Engineering*, 38 (3), pp. 646-660. Cited 58 times.

DOI: 10.1016/j.bbe.2018.05.001

[a] Mahatma Gandhi Institute of Technology, Hyderabad, India
[b] Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India
[c] JNTUK-UCEV, Andhra Pradesh, India

Abstract
Brain tumor segmentation and classification is the interesting area for differentiating the tumerous and the non-tumerous cells in the brain and to classify the tumerous cells for identifying its level. The conventional methods lack the automatic classification and they consumed huge time and are ineffective in decision-making. To overcome the challenges faced by the conventional methods, this paper proposes the automatic method of classification using the Harmony-Crow Search (HCS) Optimization algorithm to train the multi-SVNN classifier. The brain tumor segmentation is performed using the Bayesian fuzzy clustering approach, whereas the tumor classification is done using the proposed HCS Optimization algorithm-based multi-SVNN classifier. The proposed method of classification determines the level of the brain tumor using the features of the segments generated based on Bayesian fuzzy clustering. The robust features are obtained using the information theoretic measures, scattering transform, and wavelet transform. The experimentation performed using the BRATS database conveys proves the effectiveness of the proposed method and the proposed HCS-based tumor segmentation and classification achieves the classification accuracy of 0.93 and outperforms the existing segmentation methods. © 2018 Nalecz Institute of Biocybernetics and Biomedical Engineering of the Polish Academy of Sciences

Author Keywords
Bayesian fuzzy clustering; Brain tumor classification; Brain tumor segmentation; MRI image; Support vector neural network

Index Keywords
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Materials Today: Proceedings • Volume 18, Pages 320 - 326 • 2019 • 2018 International Conference on Advances In Materials and Manufacturing Engineering, ICAMME 2018 • Nagarjuna Nagar, Guntur • 24 January 2018through 25 January 2018 • Code 155287

A literature review on corrugated plate heat exchanger

Sri Valli G.[a] ; Kommineni, Ravindra[b]; Sreedhara Rao B.[c]

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[a] Mechanical Engineering Department, V.R. Siddhartha Engineering college, Vijayawada, India

[b] Mechanical Engineering Department, RVR and JC College of Engineering, Guntur, India

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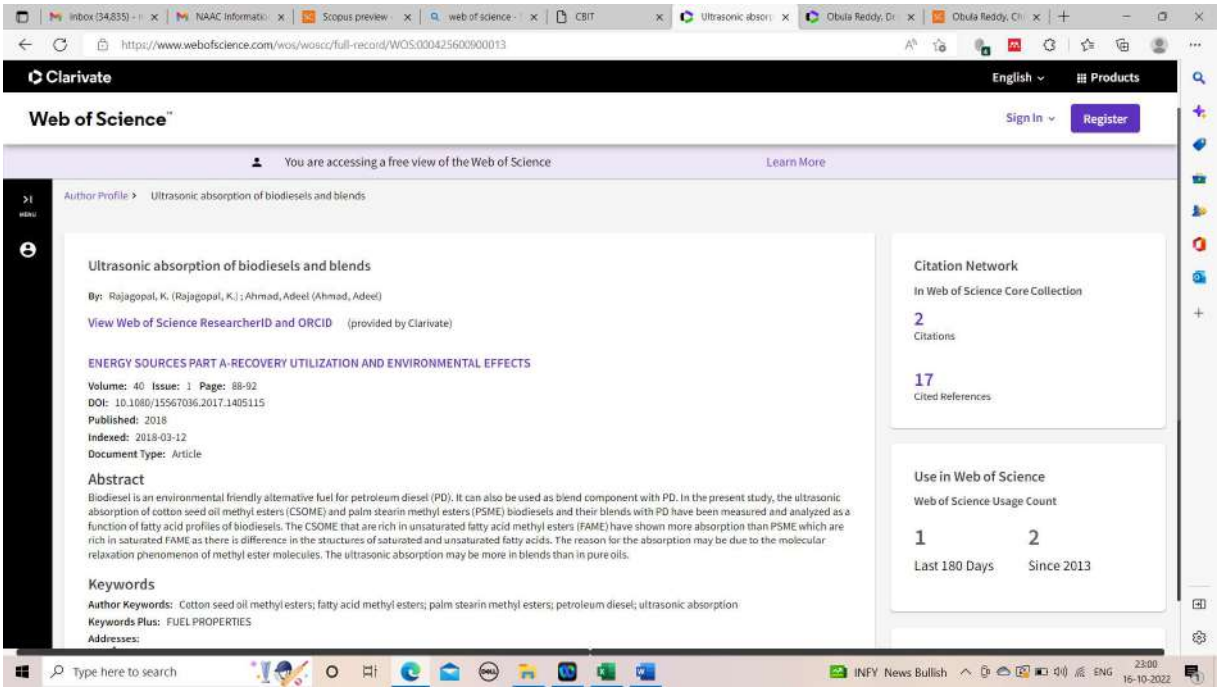

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Ultrasonic absorption of biodiesels and blends

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[a] Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India
[b] Biophysics unit, Department of Physics, Nizam College, Osmania University, Hyderabad, Telangana, India

Abstract

Biodiesel is an environmental friendly alternative fuel for petroleum diesel (PD). It can also be used as blend component with PD. In the present study, the ultrasonic absorption of cotton seed oil methyl esters (CSOME) and palm stearin methyl esters (PSME) biodiesels and their blends with PD have been measured and analyzed as a function of fatty acid profiles of biodiesels. The CSOME that are rich in unsaturated fatty acid methyl esters (FAME) have shown more absorption than PSME which are rich in saturated FAME as there is difference in the structures of saturated and unsaturated fatty acids. The reason for the absorption may be due to the molecular relaxation phenomenon of methyl ester molecules. The ultrasonic absorption may be more in blends than in pure oils. © 2017 Taylor & Francis Group, LLC.

Author keywords

Cotton seed oil methyl esters; fatty acid methyl esters; palm stearin methyl esters; petroleum diesel; ultrasonic absorption

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Critical exponents and universal magnetic behavior of noncentrosymmetric $Fe_{0.6}Co_{0.4}Si$

Samatham, S. Shanmukharao ; Suresh K.G.
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[a] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Maharashtra, Mumbai, 400076, India

Abstract

The critical magnetic properties of a non-centrosymmetric B20 cubic helimagnet $Fe_{0.6}Co_{0.4}Si$ are investigated using magnetization isotherms. It belongs to the 3D-Heisenberg universality class with short range magnetic coupling as inferred from the self-consistent critical exponents $\beta = 0.411 \pm 0.003$, $\gamma = 1.325 \pm 0.062$, $\delta = 4.223 \pm 0.004$ and $\alpha = -10.115 \pm 0.007$ in combination with exchange interaction $J(r) \approx r^{-4.88}$. Itinerant magnetic nature of the compound is realized by the Rhodes-Wholfarth analysis. Field-induced weak first (para→helical) to second (para→field-polarized) order transition is reported to occur at low critical field due to the weak spin-orbit coupling arising from the weak Dzyaloshinksii-Moriya interactions. Our study suggests the distinct phenomenological magnetic structures for Fe-based cubic magnets ($Fe_{1-x}Co_xSi$ and FeGe) and MnSi which cause contrasting physical properties. © 2018 IOP Publishing Ltd.

Author keywords

chiral magnetism; critical phenomenon; Dzyaloshinskii-Moriya interactions; exchange interaction

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Document type
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10.1088/1361-648X/aab0bc

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Quantum phase transition and non-Fermi liquid behavior in $Fe_{1-x}Co_xSi$ (x 0.7)

Shanmukharao Samatham S.[a, b] ; Suresh K.G.[a]; Ganesan V.[b]

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[a] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Maharashtra, Mumbai, 400076, India

[b] Low Temperature Laboratory, UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Madhya Pradesh, Indore, 452001, India

Abstract

We report on the nature of electron correlations in $Fe_{1-x}Co_xSi$ () using combined results of magnetization, specific heat and transport properties. Doping driven quantum critical point is observed to occur at . The magnetically unstable regime is identified to be centered around []. The emergence of non-Fermi liquid behaviors in x = 0.8 (near to ferromagnetic quantum critical point) and x = 0.9 (disorder-induced) compositions are discussed on the basis of the power-law dependence of susceptibility (for x = 0.8 and 0.55 for x = 0.9), specific heat (for x = 0.8 and 0.9) and resistivity (for x = 0.8 and 1.38 for x = 0.9). Further, a comprehensive classification of doping dependent physical properties of $Fe_{1-x}Co_xSi$ is presented in the revisited temperature-composition (T-x) phase diagram. © 2018 IOP Publishing Ltd.

Author keywords

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Competing magnetic and spin-gapless semiconducting behavior in fully compensated ferrimagnetic CrVTiAl: Theory and experiment

Venkateswara Y.[a]; Gupta, Sachin[a, b]; Samatham, S. Shanmukharao[a]; Varma, Manoj Raama[c]; Enamullah[d]; Suresh K.G.[a] ; Alam, Aftab[d]

Save all to author list

[a] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, India

[b] WPI-Advanced Institute for Materials Research (WPI-AIMR), Tohoku University, Sendai, 980-8577, Japan

[c] National Institute for Interdisciplinary Sciences and Technology (CSIR), Thiruvananthapuram, India

[d] Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, India

Abstract

We report the structural, magnetic, and transport properties of the polycrystalline CrVTiAl alloy along with first-principles calculations. The alloy crystallizes in a LiMgPdSn-type structure with a lattice parameter of 6.14 Å at room temperature. The absence of the (111) peak along with the presence of a weak (200) peak indicates the antisite disorder of Al with Cr and V atoms, which is different from the pure DO3 type. Magnetization measurements reveal a magnetic transition near 710 K, a coercive field of ~100 Oe at 3 K, and a moment of ~10-3μB/f.u. These observations are indicative of fully compensated ferrimagnetism in the alloy, which is confirmed by theoretical modeling. The temperature coefficient of resistivity is found to be negative, signaling the semiconducting nature. However, the absence of exponential dependence indicates the semiconducting nature with

Journal of Magnetism and Magnetic Materials • Volume 448, Pages 130 - 134 • 15 February 2018

Document type
Article

Source type
Journal

ISSN
03048853

DOI
10.1016/j.jmmm.2017.06.067

Publisher
Elsevier B.V.

CODEN
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Original language
English

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Spin fluctuations in Cr doped MnSi

Mishra, Ashish Kumar[a] ; Krishnan M.[a]; Singh, Durgesh[a]; Samatham, S. Shanmukharao[a, b]; Gangrade, Mohan[a]; Venkatesh R.[a]; Ganesan V.[a]

Save all to author list

[a] UGC-DAE Consortium for Scientific Research, Indore, 452001, MP, India

[b] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Powai, 400076, Mumbai, India

Abstract

Transport and calorimetric properties of $Mn_{1-x}Cr_xSi$ (x = 0.025) down to 2 K and magnetic fields up to 13 T are reported. Electrical resistivity in zero field as well as in magnetic fields, below a magnetic transition temperature, T_c = 23.6 K could be described using a T^2 term with large coefficient, invoking the role of spin fluctuations. Sommerfeld coefficient 'γ' of specific heat is an enhanced one as compared to the pure MnSi. Negative magnetoresistance (35% at 13 T) with maximum at T_c and a decrease in coefficient of T^2 term in resistivity suggests the suppression of spin fluctuations in high magnetic fields. This is further supported by negative magneto-specific heat in the vicinity of T_c coupled with a decrement in the Sommerfeld coefficient 'γ' of specific heat under a field of 10 T. Kadowaki-Woods ratio places the system close to other systems showing strong spin fluctuations. © 2017 Elsevier B.V.


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Oriental Journal of Chemistry • Open Access • Volume 34, Issue 3, Pages 1270 - 1277 • 2018

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Shaik S.B.[a] , Gantala A.[b] , Anjaneyulu P.[c]

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[a] Department of Electronics and Communication Engineering, Chaitanya Bharathi Institute Of Technology, India

[b] Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Hyderabad, 500043, India

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1st Year Published	1975
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Issues Per Year	12
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10.1080/00150193.2017.1362201

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Effect of sintering temperature on leakage current of polycrystalline multiferroic $DyFeO_3$ system

Reddy, S. Shravan Kumar[a]; Raju N.[a]; Ramesh J.[a]; Reddy, Ch. Gopal[a] ; Reddy, P. Yadagiri[a]; Reddy, K. Rama[a]; Reddy, V. Raghavendra[b]

Save all to author list

[a] Department of Physics, Osmania University, Hyderabad, Telangana, India

[b] UGC DAE Consortium for Scientific Research, University Campus, Indore, Madhya Pradesh, India

Abstract

Effect of sintering temperature on the leakage current of polycrystalline multiferrioc $DyFeO_3$ material is reported. Samples were synthesized through Sol-Gel route. From the Rietveld refinement of X-Ray Diffraction (XRD) data it is observed that, samples were found to be of single phase. From the room temperature leakage current density study, it was observed that leakage current density decreases with increase of sintering temperature and Space charge limited conduction (SCLC) and Ohmic conduction mechanisms are dominant at lower and higher electric field values. The observations are corroborated in terms of microstructure changes with sintering temperature. © 2017 Taylor & Francis Group, LLC.

Author keywords

Fe-57 Mossbauer study of spin reorientation transition in polycrystalline NdFeO3

By: Ramesh, J. (Ramesh, J.) ; Raju, N. (Raju, N.) ; Reddy, S. Shravan Kumar (Reddy, S. Shravan Kumar) ; Reddy, M. Sreenath (Reddy, M. Sreenath) ; Reddy, Ch. Gopal (Reddy, Ch. Gopal) ; Reddy, P. Yadagiri (Reddy, P. Yadagiri) ; Reddy, K. Rama (Reddy, K. Rama) ; Reddy, V. Raghavendra (Reddy, V. Raghavendra)

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Volume: 711 **Page:** 300-304

DOI: 10.1016/j.jallcom.2017.03.353

Published: JUL 15 2017

Indexed: 2017-06-09

Document Type: Article

Abstract

The present work reports the preparation of polycrystalline NdFeO3 using sol-gel method and characterization using X-ray diffraction (XRD), Raman spectroscopy, bulk magnetization, Fe-57 Mossbauer spectroscopy and ferroelectric measurements. XRD and Raman spectroscopy measurements confirm the phase purity of the prepared sample. The temperature dependent magnetization measurement shows the signatures of spin re-orientation transition (T-SRT) between 66 and 158 K and magnetic field induced transition at about 2.5 T and 5 K. It is observed from the low temperature (25-300 K) Fe-57 Mossbauer measurements that the temperature variation of hyperfine parameters shows the signatures of T-SRT. The observed area ratio of second and third line intensity (A(23)) in Mossbauer sextet, across T-SRT, show deviations from the value characteristic of random spin orientation in polycrystalline sample. In addition, the quadrupole shift changes sign across T-SRT indicating the spin-reorientation of Fe3+ ions. The room temperature leakage current density (J-E) measurements indicate that Ohmic contribution and space charge limited conduction are the dominating mechanisms at low and high applied electric fields, respectively, similar to that of other RFeO3 (R-rare earth) based compounds. Lossy ferroelectric loops

Ceramics International • Volume 43, Issue 8, Pages 6148 - 6155 • 1 June 2017

Document type
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Journal

ISSN
02728842

DOI
10.1016/j.ceramint.2017.02.010

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Study of Mn doped multiferroic $DyFeO_3$ ceramics

Reddy, S. Shravan Kumar[a]; Raju N.[a]; Reddy, Ch. Gopal[a] ; Reddy, P. Yadagiri[a]; Reddy, K. Rama[a]; Gupta S.M.[b]; Reddy, V. Raghavendra[c]

Save all to author list

[a] Department of Physics, Osmania University, Hyderabad, Telangana, India

[b] LMS, Raja Ramanna Center for Advance Technology, Indore, Madhya Pradesh, India

[c] UGC DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore, 452001, Madhya Pradesh, India

Abstract

Structural, Raman, room temperature and temperature dependent leakage current density, dielectric, magnetization and room temperature Mossbauer studies of Mn doped $DyFeO_3$ (i.e., $DyFe_{1-x}Mn_xO_3$; x=0 to 0.5) polycrystalline materials prepared through sol-gel route are reported in this paper. From Rietveld refinement of x-ray diffraction (XRD) patterns it is found that all the samples are formed in single phase without any detectable impurity. The Raman modes with doping are consistent with literature of such doped orthoferrites. From the room temperature (RT) leakage current density (J-E) measurements, it is observed that leakage current density increases with Mn doping concentration, which is explained in terms of microstructure. The leakage current density is found to decrease with the decrease of temperature in each sample as observed from low temperature leakage current density (J-E) measurements. Further, activation energy is calculated from the temperature dependent J-E data. The dielectric loss data is observed to exhibit frequency dependence and the activation energy

Acta Physica Polonica A • *Open Access* • Volume 131, Issue 6, Pages 1544 - 1549 • 23 June 2017

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DOI
10.12693/APhysPolA.131.1544

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Synthesis, characterization and magnetotransport behavior of la-based double layered manganites

Reddy Y.S.

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[a] Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad, Telangana State, 500 075, India

Abstract

The single phase double layered manganites La1:2Sr1:8xCaxMn2O7 (x = 0:0, 0.3) were synthesized by the sol-gel method. The electrical resistivity at various magnetic fields over a temperature range 4.2-300 K was measured. The insulator-to-metal transition temperature (TIM) decreases from 123 K (x = 0:0) to 70 K (x = 0:3). The spin-glass (SG)-like transition is observed in both the samples at 30 K (TSG-SG-like transition temperature). The transport behavior is analyzed in the entire temperature range (4.2-300 K) in three different regions: paramagnetic insulating region (T > TIM), ferromagnetic metallic region (TSG < T < TIM) and antiferromagnetic insulating region (T < TSG) by fitting the equations governing the conduction process to the temperature dependent resistivity data in different temperature regions. The results indicate that the Mott variable range hopping (VRH) dominates the transport behavior at T > TIM in the two samples. At TSG < T < TIM, the conduction follows the Zener

Materials Science- Poland • *Open Access* • Volume 35, Issue 2, Pages 440 - 446 • 2017

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Electrical transport and magnetoresistance of double layered CMR manganites $R_{1.2}Sr_{1.8}Mn_2O_7$ (R = La, Pr, Sm)

Reddy Y.S.

Save all to author list

[a] Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500 075, India

Abstract

Polycrystalline bulk samples of double layered (DL) colossal magnetoresistive (CMR) manganites $R_{1.2}Sr_{1.8}Mn_2O_7$ (R = La, Pr, Sm) were prepared by sol-gel method to study the effect of size of lanthanide ion on their magnetotransport properties. The electrical resistivity of the samples was investigated in the temperature range of 70 K to 300 K at different magnetic fields. The samples LSMO and PSMO show insulator-to-metal transition (IMT) behavior, while SSMO sample exhibits insulating behavior in the entire temperature range with a very large value of resistivity. The insulator-to-metal transition temperature (T_{IM}) decreases from 123 K (LSMO) to 90 K (PSMO) and disappears in SSMO sample. To

Applied Physics Letters • Volume 111, Issue 20 • 13 November 2017 • Article number 201904

Document type
Article

Source type
Journal

ISSN
00036951

DOI
10.1063/1.4985583

View more

Quantum size effect on the heat capacity of nickel nanolattice

Singh J.[a]; Tarachand[b]; Samatham S.S.[b, d]; Venkateshwarlu D.[b, e]; Kaurav, Netram[c]; Ganesan V.[b]; Okram G.S.[b]

Save all to author list

[a] Department of Physics, ISLE, IPS Academy, Rajendra Nagar, Indore, Madhya Pradesh, 452012, India

[b] UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore, Madhya Pradesh, 452001, India

[c] Department of Physics, Government Holkar Science College, A. B. Road, Indore, Madhya Pradesh, 452001, India

[d] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai Maharashtra, 400076, India

View additional affiliations

Abstract

Nearly exponentially decaying heat capacity was observed exceptionally in a well-characterized naturally assembled hexagonal closed packed lattice of 4.0 nm nickel nanoparticles (NPs). It was also associated with quantum jumps. These were however not observed in other NP sizes and have negligible effects of high magnetic fields. Magnetic susceptibilities in contrast revealed the evolution of

Journal of Magnetism and Magnetic Materials • Volume 444, Pages 439 - 443 • 15 December 2017

Document type
Article

Source type
Journal

ISSN
03048853

DOI
10.1016/j.jmmm.2017.08.052

View more

Spin-flop quasi-first order phase transition and putative tricritical point in Gd_3Co

Samatham, S. Shanmukharao[a] ; Barua, Soumendu[a, b]; Suresh K.G.[a]

Save all to author list

[a] Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, India

[b] Sagar Institute of Science and Technology, Jaipur Road, Gandhi Nagar, Bhopal, 462036, Madhya Pradesh (M.P.), India

Abstract

Magnetic nature of Gd_3Co is investigated using detailed measurements of temperature and field dependent magnetization. The antiferromagnetic phase is field-instable due to prevailing ferromagnetic exchange correlations above Néel temperature T_N~130K. Below T_N, with gradually increasing magnetic fields, the compound undergoes a quasi-first order phase transition from AFM to spin-flop over region and eventually acquires ferromagnetic phase in higher fields. Further the point at which the quasi-first order transition ends and second order transition sets in is the tricritical point, T_{TCP}~125.6K, H_{TCP}~4.4kOe. © 2017 Elsevier B.V.

Physica Status Solidi (B) Basic Research • Volume 255, Issue 3 • March 2018 • Article number 1700194

Document type
Article

Source type
Journal

ISSN
03701972

DOI
10.1002/pssb.201700194

View more

Anomalous Magnetotransport Properties of Bi Doped $La_{0.67}Sr_{0.33}MnO_3$

Kambhala, Nagaiah[a]; Samatham, S. Shanmukharao[b]; Venkatesh R.[b]; Ganesan V.[b]; Angappane S.[a]

Save all to author list

[a] Centre for Nano and Soft Matter Sciences, Jalahalli, Bangalore, 560013, India

[b] Low-temperature Laboratory, UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore, 452001, India

Abstract

We have studied the magnetotransport properties of $La_{0.67-x}Bi_xSr_{0.33}MnO_3$ (x = 0, 0.3, 0.4, 0.5). The x ≤ 0.3 samples show metal–insulator transitions, whereas x ≥ 0.4 samples exhibit an insulating behaviour at zero field. Notably, two low-temperature upturns were observed for $La_{0.37}Bi_{0.3}Sr_{0.33}MnO_3$, which indicates the existence of two different mechanisms. $La_{0.27}Bi_{0.4}Sr_{0.33}MnO_3$ shows field-induced metallic behavior due to the melting of charge ordering with applied magnetic field. A large magnetoresistance of ~100% is observed for $La_{0.27}Bi_{0.4}Sr_{0.33}MnO_3$ at ~90 K. On the other hand, $La_{0.37}Bi_{0.3}Sr_{0.33}MnO_3$ exhibits a nearly constant large magnetoresistance of ~80% between ~30 and 250 K, which decreases outside this temperature range. The observed anomalous low-temperature

Materials Chemistry and Physics • Volume 195, Pages 58 - 66 • 1 July 2017

Document type
Article

Source type
Journal

ISSN
02540584

DOI
10.1016/j.matchemphys.2017.03.049

View more

Photoluminescence quenching and enhanced spin relaxation in Fe doped ZnO nanoparticles

Ovhal, Manoj M.[a]; Santhosh Kumar A.[a]; Khullar, Prerna[b]; Kumar, Manjeet[a]; Abhyankar A.C.[a]

Save all to author list

[a] Department of Materials Engineering, Defence Institute of Advanced Technology, Girinagar, Pune, 411025, India
[b] School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi, 221005, India

Abstract

Cost-effective ultrasonically assisted precipitation method is utilized to synthesize Zinc oxide (ZnO) nanoparticles (NPs) at room temperature and the effect of Iron (Fe) doping on structural, optical and spin relaxation properties also presented. As-synthesized pure and Fe doped ZnO NPs possess a perfect hexagonal growth habit of wurtzite zinc oxide, along the (101) direction of preference. With Fe doping, 'c/a' ratio and compressive lattice strain in ZnO NPs are found to reduce and increase, respectively. Raman studies demonstrate that the E_1 longitudinal optical (LO) vibrational mode is very weak in pure which remarkably enhanced with Fe doping into ZnO NPs. The direct band gap energy (E_g) of the ZnO NPs has been increased from 3.02 eV to 3.11 eV with Fe doping. A slight red-shift observed with strong green emission band, in photoluminescence spectra, is strongly quenched in 6 wt.% Fe doped ZnO NPs.

Detection of exudates from RGB fundus images using 3σ control method

Publisher: IEEE Cite This PDF

Mohammed Shafeeq Ahmed ; Baddam Indira All Authors

Abstract:
Diabetic Retinopathy (DR) is characterized by color based pathologies. The fundus camera generates fundus image in RGB color and ophthalmologist analyze that image and mark the pathologies to diagnose level of DR. Early detection of exudates from retinal images can potentially reduces the risk of blindness of people suffering from DR. The aim of the work presented in this paper is to detect the exudates (yellowish fat deposit on the retinal surface) from fundus images in RGB color space, thereby facilitate a realistic diagnosis close to the

Proceedings of the 2017 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2017

• Volume 2018-January, Pages 44 - 47 • 21 February 2018 • 2nd IEEE International Conference on Wireless Communications, Signal Processing and Networking, WISPNET 2017 • Chennai • 22 March 2017through 24 March 2017 • Code 134757

Morphological technique for detection of microaneurysms from RGB fundus images

Ahmed, Mohammed Shafeeq[a, c] ; Indira, Baddam[b, c]

Save all to author list

[a] Department of Computer Science, Gulbarga University, Kalaburagi, 585106, India

[b] Kasturba Gandhi Degree College for Women, Secunderabad, 500026, India

[c] Research and Development Centre, Bharathiar University, Coimbatore, 641046, India

Document type
Conference Paper

Source type
Conference Proceedings

ISBN
978-150904441-2

DOI
10.1109/WISPNET.8299716

View more

Proceedings of the 2017 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2017

• Volume 2018-January, Pages 44 - 47 • 21 February 2018 • 2nd IEEE International Conference on Wireless Communications, Signal Processing and Networking, WISPNET 2017 • Chennai • 22 March 2017through 24 March 2017 • Code 134757

Document type
Conference Paper

Source type
Conference Proceedings

ISBN
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10.1109/WISPNET.8299716

Morphological technique for detection of microaneurysms from RGB fundus images

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[b] Kasturba Gandhi Degree College for Women, Secunderabad, 500026, India

[c] Research and Development Centre, Bharathiar University, Coimbatore, 641046, India