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文獻類型

- Articles 112, Editorial Materials 40, Proceedings Papers 19, Notes 4

Web of Science 領域

- Physics Applied 76, Materials Science Multidisciplinary 61

1 Special Issue on Application of Electronic Devices on Intelligent System Meen, TH and Kuo, CC Jul 2021 | ELECTRONICS 10 (13) 14 參考文獻

2 Hybrid Algorithm Based on Simulated Annealing and Bacterial Foraging Optimization for Mining Imbalanced Data Lee, CY; Lee, ZJ; (...); Meen, TH 2021 | SENSORS AND MATERIALS 33 (4), pp.1297-1312 20 參考文獻

3 SPECIAL ISSUE ON ADVANCED MATERIALS AND SENSING TECHNOLOGIES ON IOT APPLICATIONS: PART 1-2 PREFACE Meen, TH; Zhao, WB and Yang, CF 2021 | SENSORS AND MATERIALS 33 (9) 0 參考文獻

4 SPECIAL ISSUE ON NOVEL MATERIALS AND SENSING TECHNOLOGIES ON ELECTRONIC AND MECHANICAL DEVICES PART 2(2)

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2021 | [SENSORS AND MATERIALS](#) 33 (2)

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5 [Special Issue on Novel Materials and Sensing Technologies on Electronic and Mechanical Devices Part 2\(1\)](#)

[Meen, TH; Zhao, WB and Tseng, HW](#)
2021 | [SENSORS AND MATERIALS](#) 33 (1)

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6 [Enhanced Autonomous Navigation of Robots by Deep Reinforcement Learning Algorithm with Multistep Method](#)

[Peng, XH; Chen, RF; \(...\); Meen, TH](#)
2021 | [SENSORS AND MATERIALS](#) 33 (2) , pp.825-842

In this paper, we propose a new method to improve the autonomous navigation of mobile robots. The new method combines a multistep update method with a double deep Q-network (MS-DDQN) to realize reinforcement learning (RL) to enhance the navigation ability of mobile robots. The proposed MS-DDQN gives two types of rewards for taking actions: terminal and non-terminal rewards. These rewards are subdivided into several ... [顯示更多](#)

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7 [Evaluation of Intensified Colorectal Cancer Treatment Using Model Based on Delphi Method, Fuzzy Logic, and Analytical Hierarchy Process \(DFAHP\)](#)

[Wu, CL; Ke, TW and Meen, TH](#)
2021 | [SENSORS AND MATERIALS](#) 33 (10) , pp.3499-3512

Colorectal cancer is one of the major fatal diseases in Taiwan, and the age of patients is decreasing yearly. As the early symptoms of malignant intestinal swelling are not obvious, most patients are not diagnosed with colorectal cancer until they are in a serious condition, and early diagnosis of colorectal cancer is a major challenge. In addition to genetic factors, colorectal cancer is caused by stress and poor dietary habits. To improve ... [顯示更多](#)

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8 [Selected Papers from the Eurasian Conference on Educational Innovation 2020](#)

[Meen, TH; Tijus, C and Tu, JC](#)
Aug 2020 | [SUSTAINABILITY](#) 12 (15)

The 3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020) was held in Hanoi, Vietnam from 5-7 February 2020. The Special Issue "Selected Papers from the Eurasian Conference on Educational Innovation 2020" selected excellent papers from ECEI 2020 about the topics of education and awareness of sustainability. There were 36 papers published in this Special Issue from 366 papers presented at ECEI 2020. The topic ... [顯示更多](#)

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9 [Special Issue on Clinical Medicine for Healthcare and Sustainability](#)

[Meen, TH; Matsumoto, Y and Lee, KH](#)
Jul 2020 | [JOURNAL OF CLINICAL MEDICINE](#) 9 (7)

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10 [Special issue: international conference on applied system innovation \(ICASI 2018\)](#)

 [Young, SJ](#); [Meen, TH](#); (...); [Michel, B](#)

 Apr 2021 | Jun 2020 (早期取閱) | [MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS](#) 27 (4), pp.1017-1017

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11 [A Vector Field Texture Generation Method without Convolution Calculation](#)

 [Du, XF](#); [Liu, HL](#); (...); [Meen, TH](#)

May 2020 | [SYMMETRY-BASEL](#) 12 (5)

In the LIC algorithm process, symmetrical streamline tracing is used to symmetrically convolve the original values of all the primitive values that pass by to obtain the resulting texture. In this process, streamline tracking and convolution consume a lot of computing resources. To generate more expressive textures for vector fields with less time consumption, a novel method named random increment streamline (RIS) is put forward, wl... [顯示更多](#)

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12 [Selected Papers from IIKII 2019 Conferences in Symmetry](#)

 [Meen, TH](#); [Tijus, C](#) and [Tu, JF](#)

May 2020 | [SYMMETRY-BASEL](#) 12 (5)

The International Institute of Knowledge Innovation and Invention (IIKII) is an institute that promotes the exchange of innovations and inventions, and establishes a communication platform for international innovations and researches. In 2019, IIKII cooperated with the Institute of Electrical and Electronics Engineers (IEEE) Tainan Section Sensors Council to hold IEEE conferences such as IEEE ICIASE 2019, IEEE ECBIOS 2019, IEEE ICKII 2... [顯示更多](#)

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13 [Special Issue on Intelligent Electronic Devices](#)

 [Meen, TH](#); [Zhao, WB](#) and [Yang, CF](#)

Apr 2020 | [ELECTRONICS](#) 9 (4)

The second IEEE International Conference on Knowledge Innovation and Invention 2019 (IEEE ICKII 2019) was held in Seoul, South Korea, 12-15 July 2019. This special issue "Intelligent Electronic Devices" selects 13 excellent papers from 260 papers presented in IEEE ICKII 2019 conference about the topics of Intelligent Electronic Devices. The main goals of this special issue are to encourage scientists to publish their experimental and the ... [顯示更多](#)

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14 [Special Issue on Selected Papers from IEEE ICKII 2019](#)

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Apr 2020 | [ENERGIES](#) 13 (8)


This Special Issue on "Selected papers from IEEE ICKII 2019" selected 13 excellent papers from 260 papers presented in IEEE ICKII 2019 on topics in energies. The fields include: energy fundamentals, energy sources and energy carriers, energy exploration, intermediate and final energy use, energy conversion systems, and energy research and development. The main goal of this Special Issue is to discover new scientific knowled... [顯示更多](#)

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- 15 [Selected Papers from 2019 IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability \(IEEE ECBIOS 2019\)](#)
 [Meen, TH; Matsumoto, Y and Hsu, KS](#)
 Apr 2020 | [INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH](#) 17 (8) 9
參考文獻
 Recently, healthcare has undergone a sector-wide transformation thanks to advances in computing, networking technologies, big data, and artificial intelligence. Healthcare is not only changing from being reactive and hospital-centered to preventive and personalized, but it is also changing from being disease focused to well-being centered. Healthcare systems, as well as fundamental medicine research, are becoming smarter and ... [顯示更多](#)
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- 16 [Can Higher Education, Economic Growth and Innovation Ability Improve Each Other?](#)
 [Xu, HY; Hsu, WL; \(...\); Zhu, JH](#)
 Mar 2 2020 | [SUSTAINABILITY](#) 12 (6) 8
引用文獻
 This study argues that the coupling between higher education, economic growth, and innovation ability is of great significance for regional sustainable development. Through the experience of Jiangsu Province in China, this study establishes a coupling coordination evaluation index system and applies the coupling coordination model to evaluate interactive relationships among the three. It finds that during 2007-2017, the level of couj ... [顯示更多](#)
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- 17 [Hamming Code Strategy for Medical Image Sharing](#)
 [Li, L; Chang, CC; \(...\); Meen, TH](#)
 Mar 2020 | [APPLIED SYSTEM INNOVATION](#) 3 (1) 1
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參考文獻
 In medical practice, the scanned image of the patient between the patient and the doctor is confidential. If info is stored on a single server and the server is successfully attacked, it is possible to expose confidential information. Password encryption and data authentication are commonly used to protect patient data, however, encryption and data authentication are computationally expensive and take time to execute on a mobile de ... [顯示更多](#)
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- 18 [Selected Papers from IEEE ICASI 2018](#)
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 Feb 2020 | [APPLIED SCIENCES-BASEL](#) 10 (3) 10
參考文獻
 This Special Issue on "Selected Papers from IEEE ICASI 2018" includes excellent papers presented at the IEEE ICASI 2018 regarding the "applied system innovation" topic. Mechanical engineering and design innovations are both academic and practical engineering fields, which involve systematic technological materialization through scientific principles and engineering designs. Technological innovations in mechanical engi ... [顯示更多](#)
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- 19 [Fabrication of Integrated Device Comprising Flexible Dye-sensitized Solar Cell and Graphene-doped Supercapacitor](#)
 [Chuang, WC; Lee, CY; \(...\); Meen, TH](#)
 2020 | [SENSORS AND MATERIALS](#) 32 (6), pp.2077-2087 2
引用文獻
 Currently, flexible surfaces are becoming increasingly common in electronic devices. Electronic devices fabricated on flexible substrates are considered to have potential. Flexible supercapacitors have a long cycle life, high power density, stability, and flexibility. In this study, a flexible supercapacitor was prepared using activated carbon doped with graphene and was integrated with a flexible dye-sensitized solar cell (DSSC) to fabrica ... [顯示更多](#)
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[來自出版商的免費全文](#) ... 20 Fusion High-Resolution Network for Diagnosing ChestX-ray Images [Huang, ZW; Lin, JZ; \(...\); Meen, TH](#)
Jan 2020 | [ELECTRONICS](#) 9 (1)

The application of deep convolutional neural networks (CNN) in the field of medical image processing has attracted extensive attention and demonstrated remarkable progress. An increasing number of deep learning methods have been devoted to classifying ChestX-ray (CXR) images, and most of the existing deep learning methods are based on classic pretrained models, trained by global ChestX-ray images. In this paper, we are intereste ... [顯示更多](#)

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 21 SPECIAL ISSUE ON NOVEL MATERIALS AND SENSING TECHNOLOGIES ON ELECTRONIC AND MECHANICAL DEVICES PART 1 PREFACE[Meen, TH; Zhao, WB and Tseng, HW](#)
2020 | [SENSORS AND MATERIALS](#) 32 (10)

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 22 Selected Papers From 2019 IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability (IEEE ECBIOS 2019) [Meen, TH; Matsumoto, Y and Wang, MS](#)
Jan 2020 | [SUSTAINABILITY](#) 12 (1)

The 2019 IEEE Eurasia Conference on Biomedical Engineering, Healthcare, and Sustainability (IEEE ECBIOS 2019) was held in Okinawa, Japan on 31 May-3 June 2019, and provided a unified communication platform for researchers in the fields of biomedical engineering, healthcare, and sustainability. Recently, healthcare has undergone a sector-wide transformation thanks to advances in computing, networking technologies, big ... [顯示更多](#)

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 23 Combination of Self-organizing Map and k-means Methods of Clustering for Online Games Marketing [Yu, SY; Yang, M; \(...\); Meen, TH](#)
2020 | [SENSORS AND MATERIALS](#) 32 (8) , pp.2697-2707


Data mining has been applied in many fields, such as pattern evaluation, image recognition, and data analysis. Clustering is one of the most popular methods of data mining. There are many algorithms concerning clustering, such as k-means and Farthest First in data mining fields, and adaptive resonance theory (ART) and self-organizing map (SOM) in machine learning. ART and SOM are unsupervised learning algorithms, w ... [顯示更多](#)

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 24 Selected Papers from the Eurasian Conference on Educational Innovation 2019 [Meen, TH; Tijus, C and Tu, JC](#)
Dec 2019 | [SUSTAINABILITY](#) 11 (23)

The Second Eurasian Conference on Educational Innovation 2019 (ECEI 2019) was held in Singapore, 25-27 January 2019, and provided a communication platform for researchers on the topic of educational innovations. This conference aims to enable interdisciplinary collaboration between educators and experts from other areas in the academic and industrial fields, as well as international networking. Sustainability is an internationa ... [顯示更多](#)

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Meen, TH; Tijus, C and Chang, CY
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鎖 | ZnO Nanogenerator Prepared from ZnO Nanorods Grown by Hydrothermal Method
Chen, CC; Wu, TL; (...); Liu, DS
2019 SENSORS AND MATERIALS 31 (3) , pp.1083-1089 | 1
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| In this study, a zinc oxide (ZnO) film was deposited by sputtering on an indium tin oxide (ITO) glass substrate. ZnO nanorods were then grown on the film by the hydrothermal method, then assembled with a gold electrode to fabricate a nanogenerator. The ZnO nanostructure and nanogenerator were analyzed by field emission scanning electron microscopy (FE-SEM), X-ray diffraction (XRD), and the measurement of current-voltage ... 顯示更多 | | 相關記錄 |
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鎖 | Applied system innovation
Meen, TH; Chang, SJ and Prior, SD
Oct 12 2018 ADVANCES IN MECHANICAL ENGINEERING 10 (10) | 0
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| <input type="checkbox"/> 29 | Zinc-oxide nanorod array fabricated by high temperature hydrothermal method applied to gas sensor
Hsu, WD; Tsai, JK; (...); Wu, TC
IEEE International Conference on Applied System Innovation (IEEE ICASI)
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| Zinc oxide (ZnO) nanorod based gas sensor was successfully fabricated with interdigital electrode on silicon substrate. The highest sensitivity value is 5.24 at 600 ppm CO2 gas ambient. The influence of growth temperature of ZnO ranging from 90 to 190 degrees C by the high temperature hydrothermal method was investigated. The ZnO nanorod array were characterized by using field emission scanning electron microscopy (FE-SEM), phot... 顯示更多 | | 相關記錄 |
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| 🏠 | Young, SJ; Meen, TH; (...); Michel, B
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| ☐ | 31 Introduction to a New Journal: Applied System Innovation | |
| 🏠 | Li, M; Chang, SJ; (...); Yamamoto, I
Mar 2018 APPLIED SYSTEM INNOVATION 1 (1) | 3
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| ☐ | 32 Effects of TiO2 Nanoparticle Doping in Coconut-shell Carbon on the Properties of Supercapacitor | |
| 🏠 | Huang, CH; Meen, TH; (...); Wu, TC
IEEE International Conference on Applied System Innovation (IEEE ICASI)
2018 SENSORS AND MATERIALS 30 (3) , pp.645-653 | 2
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| In this study, TiO2 nanoparticles at different weight ratios were added to composite coconut-shell carbon and conductive carbon black electrode material to investigate their effects on the properties of a supercapacitor. Then, the composite carbon electrodes were further treated by rapid thermal annealing (RTA) and measured by field emission scanning electron microscopy (FE-SEM), electronic data system (EDS) analysis, cyclic voltam ... 顯示更多 | | |
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| Meen, TH; Lam, ADKT and Prior, SD
2018 JOURNAL OF INTERNET TECHNOLOGY 19 (2) , pp.531-532 | | |
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| ☐ | 35 Application of ZnO micro rods on the composite photo-electrode of dye sensitized solar cells | |
| Wu, TL; Meen, TH; (...); Wu, TC
IEEE International Conference on Applied System Innovation (IEEE ICASI)
Jan 2018 MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS 24 (1) , pp.285-289 | | |
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In this study, we prepared low-density ZnO micron rods (MRs) on ITO/PEN substrate by hydrothermal method, and used the scraper to fill the ZnO nanoparticles into the micron rods to prepare ZnO composite structure as the photo-electrode of dye sensitized solar cells (DSSCs) ... [顯示更多](#)

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36 [Special Issue: International Conference on Applied System Innovation \(ICASI 2016\)](#)

[Young, S.J.](#); [Meen, TH.](#); (...); [Michel, B.](#)
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[Meen, TH.](#); [Li, M.](#); (...); [Lam, ADKT.](#)
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40 [Guest Editorial: Internet Technology on Mechanical Engineering and Design Innovations](#)

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| ☐ 45 | Fabrication of Open-End TiO2 Nanotubes Attached to Front-Illuminated Dye-Sensitized Solar Cells | 2 |
| | Wu, TL ; Meen, TH ; (...); Huang, CJ
International Conference on Applied System Innovation (ICASI)
2016 SENSORS AND MATERIALS 28 (5) , pp.539-545 | 引用文獻 |
| | In this study, we used secondary anodization to prepare open-end TiO2 nanotube arrays and then transferred them to fluorine-doped tin oxide (FTO) glass attached to front-illuminated dye-sensitized solar cells (DSSCs). X-ray diffraction (XRD) patterns found that TiO2 nanotubes form the anatase phase when the annealing temperature is greater than 280 degrees C. The best annealing temperature for TiO2 nanotubes is 450 degrees C. Fro ... 顯示更多 | 22
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| ☐ 46 | Effects of gold nanoparticles inlaid in the photo-electrode on the properties of dye-sensitized solar cells | 3 |
| | Chao, SM ; Meen, TH ; (...); Huang, CJ | 引用文獻 |

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| | <p>Dec 1 2015 MICROELECTRONIC ENGINEERING 148 , pp.29-33</p> <p>In this study, we prepared gold nanoparticles by electrochemical synthesis and inlaid in the photo-electrode of dye-sensitized solar cells (DSSCs) to study the surface plasma resonant (SPR) and light-scattering effects on the properties of dye-sensitized solar cells. The analyses of field emission scanning electron microscopy (FE-SEM) show that the average diameter of gold nanoparticles is 50 nm. The results of ultraviolet-visible abs... 顯示更多</p> <p>出版商的全文 ***</p> | <p>14
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Dec 1 2015 MICROELECTRONIC ENGINEERING 148 , pp.17-20</p> <p>In this study, the silicon dioxide (SiO₂) films coated on plastic substrate are used as the water barrier layer by liquid phase deposition method. The result revealed that the maximum refraction index is up to 1.43 after undergoing N-2 ambient annealing for 2 h. After permeation test, the OH group is slightly observed in the Fourier transform infrared (FTIR) spectra, indicating that the LPD-SiO₂ film could suffice for the requirement of a w ... 顯示更多</p> <p>出版商的全文 ***</p> | <p>2
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| <p><input type="checkbox"/> 48</p> | <p>Morphology and optical properties of ZnO microrods grown by high-temperature hydrothermal method</p> <p>Tsai, JK; Meen, TH; (...); He, YK
Dec 1 2015 MICROELECTRONIC ENGINEERING 148 , pp.55-58</p> <p>The ZnO microrods were fabricated on a fluorine-doped tin oxide (FTO) glass by using a high-temperature hydrothermal method. The main goal is to investigate the correlation between synthesis temperature and characteristics of ZnO microrods. The morphology of ZnO microrods was investigated by field-emission scanning electron microscope (FESEM), the optical properties were measured by photoluminescence (PL), and the c ... 顯示更多</p> <p>出版商的全文 ***</p> | <p>7
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Nov 2015 JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 15 (11) , pp.9246-9249</p> <p>A blue organic light-emitting diode with a double hole-transporting (DHT) structure has been developed. The device, ITO/N,N'-Bis (naphthalene-1-yl)-N,N'-bis(phenyl)-benzidine/4,4'-Bis (N-carbazolyl)-1,1'-biphenyl (CBP)/4,4'-Bis(2,2-diphenylethen-yl) diphenyl/CBP/tris(8-hydroxyquinolate)aluminum/lithium fluoride/aluminum, consists of a hole-transporting layer, a DHT structure layer and an electron-transporting layer. The blue color p ... 顯示更多</p> <p>檢視全文 ***</p> | <p>24
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Oct 30 2015 NANOSCALE RESEARCH LETTERS 10</p> <p>In this research, the zinc oxide (ZnO) microrods were grown by hydrothermal method on fluorine-doped tin oxide (FTO) glass functionalized by self-assembled monolayer of octadecyltrimethoxysilane (ODS; CH₃(CH₂)₁₇Si(OCH₃)₃). The sharp-tip or polygonal shape with specific facets at the top end of ZnO microrods can be obtained by post retention at low temperature. The morphologies were characterized by the field-emissic ... 顯示更多</p> <p>來自出版商的免費全文 ***</p> | <p>2
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54 Guest Editorial: Computation Design with Internet Technology Meen, TH Dec 2014 | JOURNAL OF INTERNET TECHNOLOGY 15 (7) , pp.1161-1161

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	Meen, TH; Tsai, JK; (...); Chang, SJ Sep 23 2014 NANOSCALE RESEARCH LETTERS 9	引用文獻
	In this study, the P25 titanium dioxide (TiO ₂) nanoparticle (NP) thin film was coated on the fluorine-doped tin oxide (FTO) glass substrate by a doctor blade method. The film then compressed mechanically to be the photoanode of dye-sensitized solar cells (DSSCs). Various compression pressures on TiO ₂ NP film were tested to optimize the performance of DSSCs. The mechanical compression reduces TiO ₂ inter-particle distance improvir ... 顯示更多	20
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	Liu, YH; Young, SJ; (...); Chang, SJ May 2014 IEEE TRANSACTIONS ON ELECTRON DEVICES 61 (5) , pp.1541-1545	引用文獻
	Vertical Mg-ZnO nanorods were synthesized on glass substrates using a low-temperature hydrothermal method. The field emission performance of Mg-ZnO nanorods was greatly enhanced by UV light illumination. It was found that the Mg-ZnO nanorods grown at 80 degrees C were structurally uniform and well oriented with pure wurtzite structure. Mg-ZnO nanorod exhibited turn-on fields was 2.27 V/μm, and field enhancement factr ... 顯示更多	30
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	Liu, YH; Young, SJ; (...); Chang, SJ Apr 1 2014 IEEE PHOTONICS TECHNOLOGY LETTERS 26 (7) , pp.645-648	引用文獻
	In this letter, Mg-doped ZnO nanorods were fabricated successfully on a glass substrate at 80 degrees C by hydrothermal method. The visible-blind photodetectors show good stability properties in ultraviolet (UV) illumination. The resulting Mg-doped ZnO nanorods have excellent potential for application in a UV photodetector because of Mg-doped ZnO nanorods UV photodetector has a high UV-to-visible ratio, fast rise/fal ... 顯示更多	31
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	We demonstrate that heterojunction photovoltaics based on hydrothermal-grown In ₂ S ₃ on p-Si were fabricated and characterized in the paper. An n-type In ₂ S ₃ nanoflake-based film with unique 'cross-linked network' structure was grown on the prepared p-type silicon substrate. It was found that the bandgap energy of such In ₂ S ₃ film is 2.5 eV by optical absorption spectra. This unique nanostructure significantly enhances the su ... 顯示更多	23
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[Meen, TH; Huang, C.J; \(...\); Wu, J.C](#)
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In this study, we used a citrate reduction method and electrophoretic deposition (EPD) to prepare hybrid nanocrystalline TiO₂/Au films and applied it to the photoelectrode of dye-sensitised solar cell. The films and solar cells were investigated by field emission scanning electron microscopy (FE-SEM), energy dispersive X-ray analysis (EDX), X-ray diffraction (XRD), I-V characteristics and electrochemical impedance spectroscopy (EIS ... [顯示更多](#)

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
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[Ji, LW; Wu, C.Z; \(...\); Lam, KT](#)
Dec 2013 | [IEEE SENSORS JOURNAL](#) 13 (12) , pp.4940-4943

In this paper, we demonstrate the fabrication of ZnO-based thin-film transistors (TFTs) on flexible substrates (polyethylene terephthalate) through radio-frequency sputtering and low-temperature procedure. The device structure belongs to bottom-gate type TFTs where ZnO and HfO₂ are used as channel and gate dielectric layer, respectively. XRD results show that the ZnO channel layers are hexagonal wurtzite structure with (002) ori ... [顯示更多](#)




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Ji, LW; Hsiao, YJ; (...); Wu, YS
Nov 9 2013 NANOSCALE RESEARCH LETTERS 8 | 14
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| | <p>The preparation and characterization of heterojunction solar cell with ZnS nanocrystals synthesized by chemical bath deposition method were studied in this work. The ZnS nanocrystals were characterized by X-ray diffraction (XRD) and high-resolution transmission electron microscopy (HRTEM). Lower reflectance spectra were found as the annealing temperature of ZnS film increased on the textured p-Si substrate. It was found tha ... 顯示更多</p> <p>來自出版商的免費全文 ***</p> | 17
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| | <p>In this study, dye-sensitized solar cells (DSSCs) were fabricated using nanocrystalline titanium dioxide (TiO2) nanoparticles as photoanode. Photoanode thin films were prepared by doctor blading method with 420 kg/cm(2) of mechanical compression process and heat treatment in the air at 500A degrees C for 30 min. The optimal thickness of the TiO2 NP photoanode is 26.6 mu m with an efficiency of 9.01% under AM 1.5G illumination i ... 顯示更多</p> <p>來自出版商的免費全文 ***</p> | 17
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Meen, TH; Tsai, JK; (...); Huang, CJ
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| | <p>In this study, we prepared different shapes of gold nanoparticles by seed-mediated growth method and applied them on the photoelectrodes of dye-sensitized solar cells (DSSCs) to study the surface plasma resonant (SPR) effect of gold nanoparticles on the photoelectrodes of dye-sensitized solar cells. The analyses of field emission scanning electron microscopy show that the average diameter of the spherical gold nanoparticles is ... 顯示更多</p> <p>來自出版商的免費全文 ***</p> | 20
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Hsiao, YJ; Meen, TH; (...); Huang, CJ
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| | <p>The synthesis and heterojunction solar cell properties of ZnS microdisks prepared by the chemical bath deposition method were investigated. The ZnS deposited on the p-Si blanket substrate exhibits good coverage. The lower reflectance spectra were found as the thickness of the ZnS film increased. The optical absorption spectra of the 80 degrees C ZnS microdisk exhibited a band-gap energy of 3.4 eV and the power conversion effic ... 顯示更多</p> <p>出版商的全文 ***</p> | 20
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Jun 1 2013 THIN SOLID FILMS 536 , pp.235-239 | 4
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- Small molecule organic solar cell with an optimized structure of indium tin oxide (ITO)/poly (3,4-ethylenedioxythiophene): poly (styrenesulfonate) (PEDOT: PSS) doped with three solvents, respectively/copper phthalocyanine (CuPc) (10 nm)/CuPc: fullerene (C-60) mixed (20 nm)/C-60 (20 nm)/bathocuproine (BCP) (10 nm)/Ag was fabricated. In this study, the electrical characterization, morphology and optical quality ... [顯示更多](#)
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-  [Chen, KL; Huang, CJ; \(...\); Kang, CC](#)
2013 | [INTERNATIONAL JOURNAL OF PHOTOENERGY](#) 2013
- The work demonstrates the improvement of color stability for white organic light-emitting diode (WOLED). The devices were prepared by vacuum deposition on ITO-glass substrates. These guestmaterials of 5,6,11,12-tetraphenylnaphthacene (Rubrene) were deposited in 4,4'-bis(2,2-diphenyl vinyl)-1,1'-biphenyl (DPVBi), resulting in an emitting layer. Experimental results reveal that the properties in themultiple-ultra-thin ... [顯示更多](#)
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-  [Chen, YC; Gao, CY; \(...\); Huang, CJ](#)
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- The influence of silver nanoparticles (SNPs) on the performance of organic light-emitting diodes (OLEDs) is investigated in this study. The SNPs are introduced between the electron-transport layers by means of thermal evaporation. SNPs are found to have the surface plasmon resonance at wavelength 525 nm when the mean particle size of SNPs is 34 nm. The optimized OLED, in terms of the spacing between the emitting layer and ... [顯示更多](#)
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Jan 2013 | [SOLID-STATE ELECTRONICS](#) 79 , pp.130-132
- In this study, the as-deposited and annealed fluorinated silicon dioxide (SiOF) films were coated on plastic substrate as a moisture barrier layer by the liquid phase deposition (LPD) method. Their ability of resistance to moisture was investigated under an environment of 105 degrees C and 50% relative humidity (RH) for 24 h. By the measurement of Fourier transform infrared absorption spectroscopy, the water-absorbed related pe... [顯示更多](#)
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- 74 **Improved Efficiency of Flexible Organic Light-Emitting Diodes by Insertion of Ultrathin SiO₂ Buffer Layers**
-  [Huang, CJ; Chen, KL; \(...\); Wu, SL](#)
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- An ultrathin hole-injection buffer layer (HBL) using silicon dioxide (SiO₂) by electron beam evaporation in flexible organic lightemitting diode (FOLED) has been fabricated. While the current of the device at constant driving voltage decreases as increasing SiO₂ thickness. Compared to the different thicknesses of the buffer layer, the FOLED with the buffer layer of 4 nm showed the highest luminous efficiency. The atomic force microscopy (A... [顯示更多](#)
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- 75 **TiO₂-Based Ultraviolet Photodetectors**
- [Ji, LW; Water, W; \(...\); Shih, WS](#)
International Conference on Information, Communication and Engineering (ICICE 2012)
Jan 1 2013 | [INTEGRATED FERROELECTRICS](#) 143 (1) , pp.65-70
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This study demonstrates that anatase TiO₂ thin films were grown on Corning glass substrates by radio frequency magnetron sputtering and were then used to fabricate metal-semiconductor-metal (MSM) ultraviolet (UV) photodetectors (PDs) with different contact electrodes (Ag or Au). With a 320-nm illumination and 5V applied bias, the responsivities for the Ag/TiO₂/Ag and Au/TiO₂/Au MSM PDs were 4.31 and 16.6 A/W, respectiv ... 顯示更多

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76 **Influence of Fe Doping on the Optical and Magnetic Characteristics of RTA Treated Transparent Zn_{1-x}FexO Nanocrystalline Films**

[Lin, TT](#); [Young, SL](#); (...); [Meen, TH](#)

International Conference on Information, Communication and Engineering (ICICE 2012)

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Herein transparent Zn_{1-x}FexO nanocrystalline films have been prepared on glass substrates by sol-gel method followed by rapid thermal annealing treatment. The effects of Fe doping on the microstructure, transmittance and magnetism of Zn_{1-x}FexO nanocrystalline films are investigated. The x-ray diffraction patterns of all compositions show the same wurtzite hexagonal structure with the space group P6(3)/mc. FE-SEM image ... 顯示更多

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[Meen, TH](#); [Chen, KL](#); (...); [Huang, CJ](#)

2013 | [INTERNATIONAL JOURNAL OF PHOTOENERGY](#) 2013

The conductivity of poly(3,4-thylenedioxythiophene): poly(styrenesulfonate) (PEDOT: PSS) films by adding various molar concentrations of sulfuric acid (H₂SO₄) was improved and studied in this paper. The sheet resistance of the doped PEDOT: PSS film was enhanced with increasing the ratio of H₂SO₄, but it drops after the maximum sheet resistance. The reason for this phenomenon is resulting from the fact that the H₂SO₄ preferentia ... 顯示更多

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

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International Conference on Information, Communication and Engineering (ICICE 2012)
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2013 INTERNATIONAL JOURNAL OF PHOTOENERGY 2013</p> <p>The Taguchi method was adopted to determine the optimal gel electrolyte used in dye-sensitized solar cells (DSSCs). Since electrolyte is a very important factor in fabrication of high performance and long-term stability DSSCs, to find the optimal composition of gel electrolyte is desired. In this paper, the common ingredients used in the liquid electrolyte were chosen. The ingredients then mixed with cheap ionic liquids and poly(viny ... 顯示更多</p> <p>來自出版商的免費全文 ...</p> | <p>5
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| <p><input type="checkbox"/> 82</p> <p></p> | <p>n-ZnO nanorods/p(+)-Si (111) heterojunction light emitting diodes</p> <p>Tsai, JK; Shih, JH; (...); Meen, TH
Dec 6 2012 NANOSCALE RESEARCH LETTERS 7</p> <p>In this study, we report the effects of thermal annealing in nitrogen ambient on the optical and electrical properties of zinc oxide (ZnO) nanorod (NR) arrays for the application in light emission diodes (LED). The single-crystalline ZnO NR array was synthesized on p(+)-Si (111) substrate without seed layer using simple, low-cost, and low-temperature hydrothermal method. The substrate surface was functionalized by hydrofluoric acid ... 顯示更多</p> <p>來自出版商的免費全文 ...</p> | <p>10
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| <p><input type="checkbox"/> 83</p> | <p>ZnO thin film with nanorod arrays applied to fluid sensor</p> <p>Water, W; Chen, SE; (...); Ji, LW
Aug 2012 ULTRASONICS 52 (6) , pp.747-752</p> <p>A ZnO guiding layer with nanorod arrays grown on a 90 degrees-rotated ST-cut (42 degrees 45) quartz substrate was used to fabricate a Love wave fluid sensor. ZnO nanorod arrays synthesized on the guiding layer enhance the sensitivity of the flow rate. ZnO thin films were deposited by radio frequency magnetron sputtering and ZnO nanorod arrays were then synthesized on the thin films via the hydrothermal method. The crystalli ... 顯示更多</p> <p>出版商的全文 ...</p> | <p>9
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| <p><input type="checkbox"/> 84</p> | <p>Investigation of Hole Transport Layer in Relation to the Properties of Organic Solar Cells</p> <p>Ghou, DW; Huang, CJ; (...); Yang, CF
International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE)
Apr 2012 JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 12 (4) , pp.3460-3463</p> <p>Organic solar cells based on a blend of copper phthalocyanine and bulk fullerene are fabricated with a double hole transport layer system. The double hole transport layer was composed of poly(3,4-ethylenedioxythiophene):polystyrenesulfonate, and copper phthalocyanine and inserted between the anode and active layer. The double hole transport layer system utilizes advantages of both layer. The poly(3,4-ethylenedioxythiophene:po ... 顯示更多</p> <p>出版商的全文 ...</p> | <p>1
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| <p><input type="checkbox"/> 85</p> | <p>Optical characteristics of LiZnVO₄ green phosphor at low temperature preparation</p> | <p>13</p> |

<p>Hsiao, YJ; Chai, YL; (...); Prior, SD Mar 1 2012 MATERIALS LETTERS 70 , pp.163-166</p> <p>Photoluminescence characterization of LiZnVO4 oxides by the vibrating milled solid-state reaction was investigated in this work. The products were characterized by X-ray diffraction, scanning electron microscopy, photoluminescence spectroscopy and absorption spectra. The excitation wavelengths associated with charge transfer bands of [VO4](3-) are located at 355 nm. The photoluminescence results reveal that the sample pr ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻 20 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 86 Improved the efficiency of small molecule organic solar cell by double anode buffer layers Huang, CJ; Ke, JC; (...); Yang, CE Dec 2011 SOLAR ENERGY MATERIALS AND SOLAR CELLS 95 (12) , pp.3460-3464</p> <p>Small molecule organic solar cell with an optimized hybrid planar-mixed molecular heterojunction (PM-Hi) structure of indium tin oxide (ITO)/ poly(3,4-ethylenedioxythiophene): poly(styrenesulfonate) (PEDOT: PSS) doped with 4 wt% sorbitol/ pentacene (2 nm)/ copper phthalocyanine (CuPc) (10 nm)/ CuPc: Co-60 mixed (20 nm)/ fullerene (C-60) (20 nm)/ bathocuproine (BCP) (10 nm)/Al was fabricated. PEDOT: PSS layer doped with ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻 27</p> <hr/> <p>參考文獻 18</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 87 Effect of Oxygen Plasma Treatment on Characteristics of TiO2 Photodetectors Shih, WS; Young, SJ; (...); Shiu, HW Nov 2011 IEEE SENSORS JOURNAL 11 (11) , pp.3031-3035</p> <p>In this study, titanium dioxide (TiO2) films were prepared on Corning glass substrates by radio frequency (RF) magnetron sputtering and treated with different O-2 plasma conditions, and then were used to fabricate metal-semiconductor-metal (MSM) ultraviolet (UV) photodetectors (PDs). The effects of the changes on TiO2 films were investigated by using field-emission scanning electron microscope (FE-SEM), photoluminescence (l ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻 15</p> <hr/> <p>參考文獻 32</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 88 Effect of rapid thermal annealing on pentacene-based thin-film transistors Chou, DW; Huang, CJ; (...); Meen, TH Jul 2011 SOLID-STATE ELECTRONICS 61 (1) , pp.76-80</p> <p>The bottom contact pentacene-based thin-film transistor is fabricated, and it is treated by rapid thermal annealing (RTA) with the annealed temperature up to 240 degrees C for 2 min in the vacuum of 1.3 x 10(-2) tort. The morphology and structure for the pentacene films of OTFTs were examined by scanning electron microscopy and X-ray diffraction technique. The thin-film phase and a very small fraction of single-crystal phase were fou ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻 11</p> <hr/> <p>參考文獻 20</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 89 Applications of vertically oriented TiO2 micro-pillars array on the electrode of dye-sensitized solar cell Meen, TH; Huang, CJ; (...); Ji, LW Jun 2011 JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 72 (6) , pp.653-656</p> <p>In this research, dye-sensitized solar cells based on TiO2 micro-pillars fabricated by inductive couple plasma etcher were investigated by analyses of X-ray diffraction (XRD), scanning electron microscopy (SEM), contact angle, ultraviolet-visible absorption spectra (UV-vis), and current-voltage characteristics. X-ray diffraction patterns show that the TiO2 anatase phase forms while sintering at 450 degrees C for 30 min. The SEM images reveal ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻 3</p> <hr/> <p>參考文獻 21</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 90 High temperature characteristics of ZnO-based MOS-FETs with a photochemical vapor deposition SiO2 gate dielectric Young, SJ; Hsiao, CH; (...); Chen, KJ Feb 2011 JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 72 (2) , pp.147-149</p>	<p>引用文獻 11</p> <hr/> <p>參考文獻 19</p>

The authors report the fabrication of ZnO-based metal-oxide-semiconductor field effect transistors (MOSFETs) with a high quality SiO₂ gate dielectric by photochemical vapor deposition (photo-CVD) on a sapphire substrate. Compared with ZnO-based metal-semiconductor FETs (MES ... [顯示更多](#)

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91 [Characterization of YAG Phosphor by Electrophoretic Deposition Technique](#)

[Chen, WR](#); [Bai, JA](#); (...); [Meen, TH](#)

Joint Meeting of the 19th IEEE International Symposium on the Applications of Ferroelectrics/10th European Conference on the Applications of Polar Dielectrics

2011 | [FERROELECTRICS](#) 420 , pp.95-100

In our experiments, by varying the concentration of YAG phosphor, the deposition thickness of YAG phosphor plate can be controlled approximately 16 to 40 micrometer under a bias voltage of 200 V. By combining the blue LED light and the above EPD YAG phosphor plate, the white light with a correlated colour temperature (CCT) can be achieved and varied from 3800 K to 6000 K. In the conventional dispense package, the larger CCT ... [顯示更多](#)

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92 [Characterization and Synthesis of Silica-Coated Silver Nanoparticles by Sol-Gel Method with Controlling of Adding Ammonical Silver Nitrate Amount](#)

[Chiu, PH](#); [Huang, CJ](#); (...); [Meen, TH](#)

Joint Meeting of the 19th IEEE International Symposium on the Applications of Ferroelectrics/10th European Conference on the Applications of Polar Dielectrics

2011 | [FERROELECTRICS](#) 421 , pp.30-36

In this study, silica-coated silver nanoparticles (SSNPs) with a core-shell structure are successfully fabricated using a simple sol-gel method without using primer, surfactant or surface modification of core. To investigate the influence of ammonical silver nitrate (AgNO₃) on the synthesis of SSNPs, the amount of an aqueous solution of AgNO₃ was varied in the range from 3 to 12 mL. It was found that the thickness of silver shell could be for ... [顯示更多](#)

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93 [Emission Shift Upon Recombination Using Hole Blocking Layer \(HBL\)](#)

[Chou, DW](#); [Huang, CJ](#); (...); [Meen, TH](#)

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2011 | [FERROELECTRICS](#) 421 , pp.16-22

In this study, the organic material 2-4-tert-butylphenyl-5-4-biphenyl-1,3,4-oxadiazole (PBD) is used as a hole blocking layer (HBL) and is inserted between 4, 4'-bis (2,2-diphenylvinyl)-1,1'-biphenyl (DPVBi) and tris-(8-hydroxyquinoline) aluminum (Alq(3)) layers to avoid color mixing in devices. The configuration of device was as follows; indium tin oxide (ITO)/N,N'-bis-(1-naphthyl) -N,N'-diphenyl-1,1'-biphenyl-4,4-diamine (NPB ... [顯示更多](#)

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94 [Structural and Magnetic Properties of CoPt@Au Core-Shell Nanoparticles Prepared Under Ambient Pressure](#)

[Meen, TH](#); [Liu, HM](#); (...); [Wang, LY](#)

Joint Meeting of the 19th IEEE International Symposium on the Applications of Ferroelectrics/10th European Conference on the Applications of Polar Dielectrics

2011 | [FERROELECTRICS](#) 421 , pp.37-42

In this study, cobalt platinum alloy-core/gold-shell (CoPt@Au) nanoparticles are prepared by reverse micelle method under ambient pressure, and investigated by X-ray diffraction, transmission electron microscopy (TEM), ultraviolet-visible absorption spectra, and superconducting quantum interference device (SQUID) analyses. Cobalt platinum alloy (CoPt) nanoparticles are synthesized via chemical assembly, and achi ... [顯示更多](#)

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 Tsai, JK; Wu, TL; (...); Chen, WR
 Joint Meeting of the 19th IEEE International Symposium on the Applications of Ferroelectrics/10th European Conference on the Applications of Polar Dielectrics
 2011 FERROELECTRICS 421 , pp.43-49</p> <p>In this study, magnetic iron platinum alloy-core/gold-shell (FePt@Au) nanoparticles (NPs) were synthesized using the reverse micelle technique under ambient pressure at 25 degrees C. Gold-coated NPs are prevented FePt oxidation and allowed the samples to be manipulated without additional precautions to prevent oxidation. FePt@Au NPs were successfully fabricated and demonstrated by X-ray diffractometry (XRD) and t... 顯示更多</p> <p>出版商的全文 ...</p> | <p>2
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| <p><input type="checkbox"/> 96 Thermally stable Ir/n-ZnO Schottky diodes
 Young, SJ; Chang, SJ; (...); Hu, ZS
 Jan 2011 MICROELECTRONIC ENGINEERING 88 (1) , pp.113-116</p> <p>Temperature-dependent characteristics of ZnO Schottky diodes with Iridium (Ir) contact electrodes were investigated. Using Norde model, it was found that the effectively Schottky barrier heights of Iron n-ZnO were around 0.837, 0.829, 0.801, 0.750 and 0.719 eV when measured at 25, 30, 50, 100 and 150 C, respectively. Using Cheung's method, it was found that Schottky barrier heights between It and the n-ZnO were 0.824, 0.823, 0.789 ... 顯示更多</p> <p>出版商的全文 ...</p> | <p>19
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 Ji, LW; Wu, CZ; (...); Liu, CH
 Dec 2010 JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS 5 (3) , pp.300-303</p> <p>Metal-semiconductor-metal ultraviolet photodetectors on flexible polyethylene terephthalate (PET) substrates with ZnO nanorods have been characterized. The photoresponsivity and UV-to-visible rejection ratio of the ZnO nanorod-based sensor were 0.0409 A/W and 282.59, respectively. Compared to a traditional ZnO photodetector without nanorods, the fabricated novel photodetector showed much higher photore ... 顯示更多</p> <p>出版商的全文 ...</p> | <p>7
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| <p><input type="checkbox"/> 98 Thin film transistors based on TiO2 fabricated by using radio-frequency magnetron sputtering
 Shih, WS; Young, SJ; (...); Chu, WC
 Dec 2010 JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 71 (12) , pp.1760-1762</p> <p>This study demonstrates that nanocrystalline TiO2 thin films were deposited on ITO/glass substrate by radio-frequency magnetron sputtering Field-emission scanning electron microscope (FE-SEM) and atomic force microscopic (AFM) images showed the morphology of TiO2 channel layer with grain size and root-mean-square (RMS) roughness of 15 and 5 39 nm respectively TiO2 thin-film transistors (TFTs) with sputter-SiO2 gate diel ... 顯示更多</p> <p>出版商的全文 ...</p> | <p>6
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| <p><input type="checkbox"/> 99 Characterization of UV photodetectors with MgxZn1-xO thin films
 Chu, TT; Jiang, HL; (...); Zhong, JC
 Nov 2010 MICROELECTRONIC ENGINEERING 87 (9) , pp.1777-1780</p> <p>In this study the metal-semiconductor-metal (MSM) structure ultraviolet (UV) photodetectors (PDs) based on MgxZn1-xO thin films were fabricated. The MgxZn1-xO thin films were grown on glass substrates by sol-gel method. The results show that the optical absorption has a blue shift and higher transmittance with increasing Mg dopant. The optical band gap were modified by 3.28-3.52 eV, which corresponded to x = 0 and x = ... 顯示更多</p> <p>出版商的全文 ...</p> | <p>6
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□ 100 [Enhanced lifetime characteristics in flexible polymer light-emitting devices by encapsulation of epoxy/silica-coated gold nanoparticles resin \(ESGR\)](#)

[Chiu, PH](#); [Huang, CJ](#); (...); [Wang, YH](#)

Sep 15 2010 | [MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS](#) 172 (3) , pp.317-320

This paper reports the effects of a new multilayer encapsulation for the lifetime of flexible PLEDs on plastic substrate. The multilayer encapsulation consisted of a novel epoxy/silica-coated gold nanoparticles resin (ESGR) as the pre-encapsulation layer and a SiO₂ layer as the encapsulation cap. The ESGR was prepared by mixing UV-curable epoxy resin and powders of silica-coated gold nanoparticles. The silica-coated gold nar ... [顯示更多](#)

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101 Effect of electron transport layer materials on the performance of copper phthalocyanine/fullerene heterojunction with function of organic solar cells. Chou, DW; Huang, CJ; (...); Meen, TH. Sep 1 2010 | JOURNAL OF NON-CRYSTALLINE SOLIDS 356 (41-42), pp.2156-2161. Small-molecule organic solar cells with structure of indium tin oxide-coated glass substrate/Copper phthalocyanine/fullerene/electron transport layer/aluminum were studied. 2-(4-Biphenyl)-5-(4-tertbutylphenyl)-1, 3, 4-oxadiazole, bathocuproine and tris (8-hydroxy-quinolinato) aluminum were used as electron transport layers. It was found that the power conversion efficiency of the devices with bathocuproine layer is five ... 顯示更多. 出版商的全文 ...

102 Preparation and characteristics of hybrid ZnO-polymer solar cells. Ji, LW; Shih, WS; (...); Meen, TH. Jun 2010 | JOURNAL OF MATERIALS SCIENCE 45 (12), pp.3266-3269. We demonstrate a hybrid solar cell which was made by blending nanocrystalline ZnO (nc-ZnO) and conjugated polymer regioregular poly(3-hexylthiophene) (P3HT) as the active layer of the solar cell. It can be seen that the efficiency of this new type of solar cells obviously varied as the size and morphology of ZnO nanostructures. The short-circuit photocurrent, fill factor, and power conversion efficiency were enhanced w ... 顯示更多. 出版商的全文 ...

103 Red polymer light-emitting devices based on dye-dispersed poly (9,9-dioctylfluorene-alt-benzothiadiazole). Chiu, PH; Huang, CJ; (...); Wang, YH. International Electron Devices and Material Symposium (IEDMS). May 2010 | MICROELECTRONICS RELIABILITY 50 (5), pp.692-695. A polymer-organic host-guest emitter (POHGE) system for obtaining polymer light-emitting diodes (PLEDs) with pure red emission and high luminance is proposed. The POHGE system was prepared by the fluorescent dye 4-(dicyanomethylene)-2-t-butyl-6-(1,1,7,7-tetra-methyljulolidyl-9-enyl)-4H-pyran (DCJTb) doped in green-emitting polymer poly (9,9-dioctylfluorene-alt-benzothiadiazole) (BTF8). A photoluminescence (PL) quer ... 顯示更多. 出版商的全文 ...

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Ji, LW; Wu, CZ; (...); Liu, CH
May 2010 JAPANESE JOURNAL OF APPLIED PHYSICS 49 (5)
In this work, ZnO-based metal-semiconductor-metal photodetectors with and without a ZnO cap layer were fabricated on flexible substrates of poly(ethylene terephthalate) (PET) for comparative analysis. The ZnO films were prepared by a low-temperature sputtering process. The photodetector with a ZnO cap layer (stack structure: ZnO/Ag/ZnO/PET) shows a much higher UV-to-visible rejection ratio of $1.56 \times 10(3)$ than tha ... 顯示更多
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| <input type="checkbox"/> 105 | Structural and optical properties of ZnO nanorods grown on Mg_xZn_{1-x}O buffer layers
Ji, LW; Lin, CM; (...); Zhong, JC
Jan 15 2010 APPLIED SURFACE SCIENCE 256 (7) , pp.2138-2142
ZnO nanorod arrays were synthesized by chemical-liquid deposition techniques on Mg _x Zn _{1-x} O (x = 0, 0.07 and 0.15) buffer layers. It is found that varying the Mg concentration could control the diameter, vertical alignment, crystallization, and density of the ZnO nanorods. The X-ray diffraction (XRD), transmission electron microscopy (TEM), and selected area electron diffraction (SAED) data show the ZnO nanorods prefer to gro ... 顯示更多
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| <input type="checkbox"/> 106 | Improvement of color purity and electrical characteristics by co-doping method for flexible red-light organic light emitting devices
Huang, CJ; Meen, TH; (...); Kang, CC
Dec 2009 DISPLAYS 30 (4-5) , pp.164-169
This work demonstrates the improvement of the color purity and electrical characteristics for flexible red-light organic light emitting devices (FROLEDs). The devices were prepared by vacuum deposition on ITO-plastic substrates. These guest materials of DCJTb and Rubrene were doped into the host material of Alq(3), resulting in an emitting layer. Experimental results reveal that the properties in the above case are better than ... 顯示更多
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| <input type="checkbox"/> 107 | Improving the color purity and efficiency of blue organic light-emitting diodes (BOLED) by adding hole-blocking layer
Huang, CJ; Kang, CC; (...); Meen, TH
Nov 2009 JOURNAL OF LUMINESCENCE 129 (11) , pp.1292-1297
This work demonstrates the fabrication of a bright blue organic light-emitting diode (BOLED) with good color purity using 4,4'-bis(2,2-diphenylvinyl)-1,1'-biphenyl (DPVBi) and bathocuproine (BCP) as the emitting layer (EML) and the hole-blocking layer (HBL), respectively. Devices were prepared by vacuum deposition on indium tin oxide (ITO)-glass substrates. The thickness of DPVBi used in the OLED has an important effect on color a ... 顯示更多
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| <input type="checkbox"/> 108 | The mechanism of efficiency enhancement with proper thickness of DPVBi layer for blue organic light-emitting devices (BOLED)
Huang, CJ; Meen, TH; (...); Su, YK
Mar-apr 2009 JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 70 (3-4) , pp.765-768
We report on the fabrication of blue organic light-emitting devices (BOLEDs) with structure: ITO/NPB/DPVBi/Alq(3)/LiF/Al. The hole-blocking effect in NPB/DPVBi interface was indirectly demonstrated and deduced by inserting DCJTb layer. In addition, the effect of the device with better J-V characteristics because of the extra DCJTb layer is discussed as well. However, the performance of devices was investigated with ... 顯示更多
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- 109 [A ZnO-based MOSFET with a photo-CVD SiO₂ gate oxide](#) 4
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[Young, S.J.; Ji, L.W.](#); (...); [Chen, K.J](#)
 Mar 2009 | [SEMICONDUCTOR SCIENCE AND TECHNOLOGY](#) 24 (3)
 We demonstrate that a high quality SiO₂ was successfully deposited onto ZnO by photochemical vapor deposition (photo-CVD). ZnO-based metal-oxide-semiconductor field effect transistors (MOSFETs) were also fabricated with such a photo-CVD oxide as the insulating layer. As compared with similar structure of ZnO-based metal-semiconductor FETs (MESFETs), it can be found that the gate leakage current was decreased to mo ... [顯示更多](#)
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- 110 [Application of TiO₂ nano-particles on the electrode of dye-sensitized solar cells](#) 46
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[Meen, T.H.; Water, W.](#); (...); [Huang, C.J](#)
 Feb 2009 | [JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS](#) 70 (2) , pp.472-476
 In this study, nano-TiO₂ thin film electrode and solar cell have been investigated by X-ray diffraction (XRD), scanning electron microscopy (SEM), ultraviolet-visible absorption spectra, contact angle, X-ray photoelectron spectroscopy (XPS), and current-voltage characteristics analyses. X-ray diffraction patterns show that the best sintering temperature of a nano-TiO₂ film is 600 degrees C, at which TiO₂ anatase phase fc ... [顯示更多](#)
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- 111 [Structural and Morphological Properties of Gold Nanodumbbells](#) 2
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[Chiu, P.H.; Huang, C.J.](#); (...); [Wang, Y.H](#)
 2009 | [JOURNAL OF THE ELECTROCHEMICAL SOCIETY](#) 156 (2) , pp.E35-E39
 Gold nanodumbbells (GNDs) are fabricated successfully via a simple electrochemical method in the presence of surfactant cetyltrimethylammonium bromide, cosurfactant tetradecyltrimethylammonium bromide, and acetone solvent. The difference in the shape of the nanodumbbells and the normal nanorods is observed in the diameter (width) section. The nanodumbbell's waist was thinner in diameter than that of its two end ... [顯示更多](#)
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- 112 [Effect of magnesium doping on the structural and piezoelectric properties of sputtered ZnO thin film](#) 9
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[Water, W.; Yan, Y.S](#) and [Meen, T.H](#)
 May 28 2008 | [SENSORS AND ACTUATORS A-PHYSICAL](#) 144 (1) , pp.105-108
 Structural and piezoelectric characteristics of magnesium-doped ZnO films were investigated. Magnesium-doped ZnO films with a c-axis preferred orientation were deposited on ST-cut quartz by radio frequency magnetron sputtering. The crystalline structure and surface morphology of films were studied by X-ray diffraction, scanning electron microscopy and atomic force microscopy. The electromechanical coupling coeffici ... [顯示更多](#)
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- 113 [Nitride-based light-emitter and photodiode dual function devices with InGaN/GaN multiple quantum dot structures](#) 13
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[Ji, L.W.; Young, S.J.](#); (...); [Jywe, W.Y](#)
 May 1 2008 | [JOURNAL OF CRYSTAL GROWTH](#) 310 (10) , pp.2476-2479
 In this work, a light-emitter with InGaN/GaN multiple quantum dot structures has been employed for a dual function device exhibiting the photodiode (PD) characteristics in reverse bias. The turn-on voltage in forward bias and the breakdown voltage in reverse bias were 3 and -13.5V, respectively. Furthermore, with an incident wavelength of 350 nm and 3 V applied bias, the maximum responsivity of this device was 0.13 A/W ... [顯示更多](#)
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- 114 [Synthesis and characterization of gold nanodogbones by the seeded mediated growth method](#) 22

	<p>Huang, CJ; Chiu, PH; (...); Yang, CF Oct 3 2007 NANOTECHNOLOGY 18 (39)</p> <p>Novel gold nanodogbones (GDBs) are successfully fabricated using a simple seeded mediated growth (SMG) method. The shapes of GDBs depend on the amount of added vitamin C solvent. The amount of vitamin C solvent was varied from 10 to 40 mu l to investigate the influence of vitamin C solvent on the GDBs. It is found that the aspect ratios (R) of GDBs were in the range from 2.34 to 1.46, and the UV - vis absorption measurem ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻</p> <p>40 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 115</p>	<p>Effects of nitridation time on top-emission inverted organic light-emitting diodes Juang, ES; Ji, LW; (...); Meen, TH Jul 1 2007 JOURNAL OF CRYSTAL GROWTH 305 (1) , pp.109-112</p> <p>A top-emission inverted organic light-emitting diode (TEIOLED) was fabricated by using Al/AlN_x layer as the cathode in the device structure of glass/Al/AlN_x/AlQ(3)/NPB/MTDATA/Au/Ag, where AlN_x ultra-thin layer was obtained from Al layer under 90 W microwave plasma treatments in Ar and N-2 mixed-gas environment. The N-2/Ar ratio and plasma treatment time were adjusted to obtain the maximum luminance and effici ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻</p> <p>1</p> <hr/> <p>8 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 116</p>	<p>Superconductivity and calorimetric studies of Pr1.85Ce0.15CuO4+delta under different annealing conditions Meen, TH; Chen, WR; (...); Huang, CJ Jul 2007 JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 68 (7) , pp.1390-1395</p> <p>Polycrystalline samples of electron-doped Pr1.85Ce0.15CuO4+delta have been prepared under different annealing conditions and investigated by means of X-ray-diffraction, oxygen content analysis, electrical resistivity, magnetic susceptibility and low temperature specific heat measurements. X-ray-diffraction patterns show that samples contain a single T' phase. The superconducting transition temperatures T_{cm} taken with t ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻</p> <p>22 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 117</p>	<p>Nanoscale mechanical characteristics of vertical ZnO nanowires grown on ZnO : Ga/glass templates Young, SJ; Ji, LW; (...); Chen, JC Jun 6 2007 NANOTECHNOLOGY 18 (22)</p> <p>The mechanical properties of vertical single-crystal ZnO nanowires on ZnO: Ga/glass templates were characterized by nanoindentation experiments in this work. The results from x-ray diffraction and Raman spectra show good crystal quality for the ZnO nanowires. The buckling loads were found to be 1465 and 215 mu N for ZnO nanowires of 100 and 30 nm diameters, respectively. When the fixed - fixed column mode was used, it ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻</p> <p>50</p> <hr/> <p>34 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 118</p>	<p>Preparation and characterization of gold nanodumbbells Huang, CJ; Chiu, PH; (...); Yang, CF Nov 14 2006 NANOTECHNOLOGY 17 (21) , pp.5355-5362</p> <p>Well-dispersed gold nanodumbbells (GNDs) in an aqueous phase have been successfully fabricated by an electrochemical method using a micelle template formed by two surfactants with the addition of acetone solvent during electrolysis, the primary surfactant being cetyltrimethylammonium bromide (CTABr) and the cosurfactant being tetradecyltrimethylammonium bromide (TTABr). The role of acetone solvent is found ... 顯示更多</p> <p>出版商的全文 ...</p>	<p>引用文獻</p> <p>16</p> <hr/> <p>45 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 119</p>	<p>Electrochemical synthesis of gold nanocubes Huang, CJ; Wang, YH; (...); Meen, TH Jul 2006 MATERIALS LETTERS 60 (15) , pp.1896-1900</p>	<p>引用文獻</p> <p>52</p>

- Monodispersed gold nanocubes of highly uniform size were fabricated by a simple electrochemical method. The lengths of the edges of the gold nanocubes were about 30 nm. The growth solution was prepared from two cationic surfactant solutions as micelle templates with added acetone solvent. The primary surfactant was hexadecyltrimethylammonium bromide (CTAB) and the co-surfactant was tetradodecylamm ... 顯示更多
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[Ji, LW; Fang, TH and Meen, TH](#)
 Jun 26 2006 | [PHYSICS LETTERS A](#) 355 (2) , pp.118-121
- In this study, Raman spectra were measured in the backscattering geometry at temperatures from 100 K to 298 K. Samples with the InGaN self-assembled quantum dot (SAQD) structures of high strain show a strong compressive stress in InGaN epilayer by Raman measurement. Furthermore, we have applied the dots-in-a-well (DWELL) structure to nitride-based light-emitting diodes (LEDs). It was found that EL peak variation of the LED' ... 顯示更多
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- 121 [P-down ZnSTeSe/ZnSe/GaAs heterostructure photodiodes](#)
[Chen, WR; Meen, TH; \(...\); Lin, WJ](#)
 May 2006 | [IEEE ELECTRON DEVICE LETTERS](#) 27 (5) , pp.347-349
- High-quality quaternary ZnSTeSe epitaxial layers with uniform carrier concentration of $1 \times 10^{17} \text{ cm}^{-3}$ were successfully grown on p-GaAs substrates by molecular beam epitaxy. P-down ZnSTeSe/ZnSe/GaAs heterostructure photodiodes were also fabricated. It was found that the maximum quantum efficiency of the fabricated ZnSTeSe photodiodes was around 75% with a large spectral width of 500 nm. ... 顯示更多
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[Huang, CJ; Chiu, PH; \(...\); Meen, TH](#)
 2006 | [JOURNAL OF THE ELECTROCHEMICAL SOCIETY](#) 153 (8) , pp.D129-D133
- This investigation demonstrates the rapid synthesis of a large quantity of uniform-sized gold nanocubes by an electrochemical method, using a surfactant solution and acetone. A redshift is observed in ultraviolet-visible absorption spectra as the shape of gold nanoparticles changes from spherical to cubic. The selected area electron diffraction patterns reveal that the gold nanocubes are single crystalline with lattice constant ... 顯示更多
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[Meen, TH; Chen, WR and Huang, CJ](#)
 Aug 2005 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS](#) 44 (8) , pp.6008-6011
- Polycrystalline samples of electron-doped Pr_{1.85}Ce_{0.15}CuO₄+delta have been prepared under different annealing conditions and investigated by X-ray diffraction analysis, oxygen content analysis, electrical resistivity, magnetic susceptibility and low-temperature specific heat measurements. X-ray-diffraction patterns show that the samples contain a single T' phase. The superconducting transition temperatures T_c taken wi ... 顯示更多
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- 124 [Preparation and characterization of Ni-indium tin oxide cosputtered thin films for organic light-emitting diode application](#)
[Hsu, CM; Lee, JW; \(...\); Wu, WT](#)
 Mar 1 2005 | [THIN SOLID FILMS](#) 474 (1-2) , pp.19-24
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The characteristics of organic light-emitting diode (OLED) can be improved by the doping of nickel (Ni) into indium tin oxide (ITO) anode. Ni-doped ITO films were synthesized using Ni and ITO cosputter approach. Film properties, such as surface roughness, optical transmittance, el... 顯示更多

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125 Non-d-wave behavior observed in low-temperature specific heat of Pr_{1.85}Ce_{0.15}CuO_{4.065}

[Meen, TH; Huang, CJ; \(...\); Chen, WR](#)

Mar 2005 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS](#) 44 (3), pp.1239-1242

Recently, possible evidence from the low-temperature specific heat (LTSH) for the lines of nodes in the superconducting order parameter of cuprate superconductors has attracted considerable attention and is still a controversial issue. To clarify this issue, N-type Pr_{1.85}Ce_{0.15}CuO_{4+delta} samples have been prepared under different annealing conditions and investigated by means of X-ray diffraction and oxygen content analyses, ... 顯示更多

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126 Synthesis of crooked gold nanocrystals by electrochemical technique

[Huang, CJ; Chiu, PH; \(...\); Meen, TH](#)

2005 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 2-LETTERS & EXPRESS LETTERS](#) 44 (28-32), pp.L941-L944

In this article, we demonstrate the synthesis of crooked gold nanocrystals (CGNCs) by an electrochemical technique using micelle templates formed by two surfactants with different amounts of isopropanol solvent, the primary surfactant being hexadecyltrimethylammonium bromide (C16)TABr and the cosurfactant being tetradodecylammonium bromide (TC12)ABr). To investigate the influence of isopropanol solvent on the CGNC... 顯示更多

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127 Pyroelectric Mg-modified PbTiO₃ thin films and devices for thermal infrared detection

[Meen, TH; Kao, MC and Chen, YC](#)

Jan 2005 | [APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING](#) 80 (1), pp.87-91

High-performance pyroelectric infrared (IR) detectors have been fabricated using magnesium-doped lead titanate (Pb_{1-x}Mg_xTiO₃ (PMT), with x = 0 similar to 0.08) thin films deposited on Pt/SiO₂/Si substrates by diol-based sol-gel processing. The randomly oriented PMT thin film exhibits a relatively small dielectric constant and a large pyroelectric coefficient. The pyroelectric characteristics of detectors with various magnesiur... 顯示更多

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128 Thin copper seed layers in interconnect metallization using the electroless plating process

[Meen, TH; Chen, WR; \(...\); Chiu, CJ](#)

Aug 2004 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS](#) 43 (8A), pp.5100-5104

In this paper, we present a process for growing a Cu seed layer on a Ta/SiO₂/Si substrate using an electroless plating (ELP) process at an extremely low temperature (similar to 30 degrees C). In this process, the activation treatment of the Ta/SiO₂/Si substrate was carried out by immersion in a PdCl₂/HCl solution prior to electroless Cu deposition. The optimum activation time for the substrate was clearly observed to be 7 min. The C... 顯示更多

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129 Formation of CuInSe₂ thin films on flexible substrates by electrodeposition (ED) technique

[Huang, CJ; Meen, TH; \(...\); Chen, WR](#)

May 30 2004 | [SOLAR ENERGY MATERIALS AND SOLAR CELLS](#) 82 (4), pp.553-565

This work reveals the formation of electrodeposition (ED) of CuInSe₂ (CIS) film on flexible substrate. Ternary compounds were co-deposited on Au coated plastic substrate from an aqueous acidic solution containing 1 mM CuCl₂, 5 mM InCl₃ and 1 mM SeO₂ adjusted to pH = 1.65. It was found that the film stoichiometry improves when the growth solution consisted of 1 M triethanolamine (TEA) and 0.1 M Na-citrate. The optimal ED-CI... 顯示更多

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<p><input type="checkbox"/> 130 Microwave dielectric characteristics of ZnTa1.7Nb0.3O6 ceramics</p> <p>Cheng, CM; Chen, YC; (...); Meen, TH Nov 2003 JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS 42 (11) , pp.7005-7008</p> <p>ZnTa2O6 ceramic sintered at 1300degreesC exhibits the microwave dielectric characteristics of dielectric constant epsilon(r)=36.1, quality value Q x f = 60180 GHz, temperature coefficient of resonant frequency tau(f) = 9.31 ppm/degreesC, and density d = 8.184 g/cm(3), and 1200degreesC-sintered ZnNb2O6 ceramic shows the microwave dielectric characteristics of epsilon(r)=23.9, Q x f = 77270 GHz, tau(f) = -58.2 ppm/degreesC ... 顯示更多</p> <p>出版商的全文 ***</p>	<p>3 引用文獻</p> <hr/> <p>12 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 131 Evidence from the low-temperature specific heat for d-wave pairing symmetry in Pr1.85Ce0.15CuO4</p> <p>Meen, TH; Chu, JJ; (...); Huang, CJ Jan 2003 JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS 42 (1) , pp.88-90</p> <p>Recently, possible evidence from the low-temperature specific heat (LTSH) for the lines of nodes in the superconducting order parameter of cuprate superconductors has attracted much attention and is still a controversial issue. To clarify this issue, N-type Pr1.85Ce0.15CuO4 has been investigated by means of X-ray diffraction, electrical resistivity, magnetic-susceptibility and LTSH measurements. X-ray diffraction pattern shows ... 顯示更多</p> <p>出版商的全文 ***</p>	<p>2 引用文獻</p> <hr/> <p>22 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 132 Structural and magnetic properties of (R1-xYx)(1.85)Ce0.15CuO4 (R = Pr, Nd, Sm and Eu)</p> <p>Meen, TH Jun 2000 JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS 39 (6A) , pp.3366-3370</p> <p>(R1-xYx)(1.85)Ce0.15CuO4 (R = Pr, Nd, Sm and Eu) have been investigated by means of X-ray-diffraction and magnetic-susceptibility measurements. Basically, the lattice parameters a, c, and V decrease linearly with decreasing ionic radius of R in R1.85Ce0.15CuO4 (R = Pr, Nd, Sm and Eu), and k pronounced change of the slope at R = Eu is observed. This suggests that a structural distortion occurs in the R1.85Ce0.15CuO4 se ... 顯示更多</p> <p>出版商的全文 ***</p>	<p>2 引用文獻</p> <hr/> <p>33 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 133 Magnetic ordering and transport properties of PrBa2Cu4O8</p> <p>Yang, HD; Lin, JY; (...); Ku, HC Dec 1 1997 PHYSICAL REVIEW B 56 (21) , pp.14180-14184</p> <p>We present studies of the thermal, magnetic, and electrical transport properties of polycrystalline PrBa2Cu4O8 prepared at ambient oxygen pressure. Measurements of the low-temperature specific heat C(T) and magnetic susceptibility chi(T) show similar results as in PrBa2Cu3O7. An anomaly observed at 17 K in C(T) and d chi/dT may be due to the antiferromagnetic ordering of the Pr sublattice. The upper limit of the entropy asso ... 顯示更多</p> <p>出版商的全文 ***</p>	<p>12 引用文獻</p> <hr/> <p>31 參考文獻</p> <hr/> <p>相關記錄</p>
<p><input type="checkbox"/> 134 Thermal properties of PrBa2Cu4O8 prepared at ambient oxygen pressure</p> <p>Yang, HD; Lin, CW; (...); Wu, MK International Conference on Materials and Mechanisms of Superconductivity - High Temperature Superconductors V Aug 1997 PHYSICA C 282 , pp.1407-1408</p> <p>Polycrystalline PrBa2Cu4O8 (Pr124) has been prepared at ambient oxygen pressure by nitrite pyrolysis method. Powder x-ray-diffraction patterns show a nearly single R124 phase. Thermogravimetric analysis indicates that its thermal stability is distinct from that of Pr123. Specific heat C has been measured from 0.5 to 40 K, and is very similar to that of Pr123. A maximum of C occurs around 17 K which could be due to a magnetic orderi ... 顯示更多</p> <p>出版商的全文 ***</p>	<p>8 參考文獻</p> <hr/> <p>相關記錄</p>

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[Lin, CW; Lin, JY; \(...\); Wu, MK](#)
 Mar 15 1997 | [PHYSICA C](#) 276 (3-4) , pp.225-228
 We report for the first time the successful synthesis of polycrystalline PrBa₂Cu₄O₈ (Pr124) at ambient oxygen pressure. Pr124 has been prepared by nitric pyrolysis and oxalate coprecipitation methods, and both methods yield qualitatively the same results. Powder X-ray-diffraction patterns of samples prepared by both methods show a nearly single "124" phase. Thermogravimetric analysis indicates no oxygen loss until the temp. ... [顯示更多](#)
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[Wu, SY; Li, WH; \(...\); Yang, HD](#)
 Oct 1 1996 | [PHYSICAL REVIEW B](#) 54 (14) , pp.10019-10026
 The magnetic order of the Tb ions in polycrystalline Pb₂(Sr₂)TbCu₃O₈ has been studied by neutron-diffraction and ac-susceptibility measurements. Magnetic correlations are observed to develop below T approximate to 9 K, and the correlation length diverges at T-N=5.3 K. At high temperatures the in-phase component of the ac susceptibility chi' exhibits Curie-Weiss behavior, while it departs from this behavior as the magnetic c ... [顯示更多](#)
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[Wu, SY; Li, WH; \(...\); Yang, HD](#)
 40th Annual Conference on Magnetism and Magnetic Materials
 Apr 15 1996 | [JOURNAL OF APPLIED PHYSICS](#) 79 (8) , pp.6571-6573
 The magnetic response of the Tb spins in Pb₂Sr₂TbCu₃O₈ to the applied magnetic field have been studied by ac susceptibility measurements. Both the in-phase component chi' and the out-of-phase component chi'' of ac susceptibility are found to be sensitive to the frequency but not to the strength of the driving field. At high temperatures chi' exhibits Curie-Weiss behavior, it departs from this behavior as the magnetic correlatio ... [顯示更多](#)
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- 138 [Ionic-size effect on the structure and T-c, of T⁻¹-\(R\(1-x\)R'\(x\)\)\(1.85\)Ce_{0.15}CuO₄\(R=Pr,Nd,Sm and Eu; R'=Gd and Y\)](#) 24
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 Apr 1 1996 | [PHYSICA C](#) 260 (1-2) , pp.117-124
 (R(1-x)R'(x))(1.85)Ce_{0.15}CuO₄ (R = Pr, Nd, Sm and Eu; R' = Gd and Y) have been investigated by means of X-ray diffraction, electrical-resistivity, and magnetic-susceptibility measurements. Lattice parameters a, c, and the unit-cell volume V decrease with increasing Gd or Y concentration x, and the decreasing rates with Y are larger than those with Gd. It is found that the critical concentration x(c), at which the superconductiv ... [顯示更多](#)
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[Yang, HD; Tsay, HL; \(...\); Meen, TH](#)
 1995 Taiwan International Conference on Superconductivity (TICS 95)
 Apr 1996 | [CHINESE JOURNAL OF PHYSICS](#) 34 (2) , pp.252-258
 Electrical, magnetic and specific-heat properties of Pr-based cuprates, such as PrBa₂-(Cu_{1-x}Gax)(3)O-7, Pr₂CuO₄, PrBa₂Cu₂NbO₈, and PrSr₂Cu_{2.7}Mo_{0.3}O₇ are presented and discussed. It was found that the value of normal state resistivity (such as rho(100 K) of these Pr-based cuprates is strongly correlated with the occurrence of superconductivity in their doped samples. Superconductivity occurs in doped Pr₂CuO ... [顯示更多](#)
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- 140 [Effect of Ag₂O addition in Y_{0.9}Ca_{0.1}Ba₂Cu₄O₈ on the structure and contact resistivity of Y_{0.9}Ca_{0.1}Ba₂Cu₄O₈/Ag](#) 2
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 Effects of Ag₂O addition in Y_{0.9}Ca_{0.1}Ba₂Cu₄O₈ on the structure and the contact resistivity of Y_{0.9}Ca_{0.1}Ba₂Cu₄O₈/Ag interfaces have been investigated by tile measurements of X-ray diffraction and contact resistivity. For Ag₂O-free specimens, they must be sintered three times at 800 degrees C for 24 h with intermediate grinding to obtain the pure 124 phase. However, with addition of 25 wt% Ag₂O in Y_{0.9}Ca_{0.1}Ba₂Cu₄O₈, the sing ... [顯示更多](#)
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[Yang, HD; Tsay, HL; \(...\); Chen, YC](#)
 Dec 1 1995 | [PHYSICAL REVIEW B](#) 52 (21) , pp.15099-15102
 The specific heat of PrBa₂(Cu_{1-x}Ga_x)(₃)O-7-delta (x = 0, 0.04, and 0.08; delta similar to 0.1) in magnetic fields up to 8 T was studied. A depression of antiferromagnetic transition temperature T-N for Pr ions with Ga substitution becomes evident through broad specific-heat anomalies peaked at 17, 14, and 10 K for x = 0, 0.04, and 0.08, respectively. Both the magnitude of the anomaly and the T-N values can be suppressed with ma ... [顯示更多](#)
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[TSAY, HL; SHIH, CR; \(...\); YANG, HD](#)
 Oct 1 1995 | [PHYSICA C](#) 252 (1-2) , pp.79-86
 Polycrystalline samples RSR(2)Cu(2.7)Mo(0.3)O(7-delta) with R = Y, Pr, Gd, and To were synthesized and studied by means of powder X-ray diffraction, electrical resistivity, magnetic susceptibility, and specific-heat measurements. All four samples form a perovskite-layer structure with a tetragonal symmetry. The calculated lattice constants using space group P4/mmm indicate that these rare-earth ions are basically in the 3 + ... [顯示更多](#)
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[SHEN, RC; TYAN, TQ; \(...\); YANG, HD](#)
 Apr 1995 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS](#) 34 (4A) , pp.1839-1843
 X-ray diffraction and magnetic susceptibility measurements have been investigated for Gd₂CuO₄ and T'-(R(1-x)Y(x))(2) CuO₄(R = Pr, Nd, Sm and Eu). Lattice parameters a, b and c decrease with increasing Y concentration in (R(1-x)Y(x))(2)CuO₄, and the values of solubility limit are about x = 0.4, 0.4, 0.4 and 0.3 for R = Pr, Nd, Sm and Eu, respectively. The magnetic anomalies that occur at T-N(Cu) similar to 285 K and T-m similar to 2 ... [顯示更多](#)
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[MEEN, TH; JUANG, FL; \(...\); YANG, HD](#)
 Feb 10 1995 | [PHYSICA C](#) 242 (3-4) , pp.373-380
 YBa₂(Cu(1-x)M(x))(4)O-8 (M=Fe, Co, Ni, Zn and Ga; 0 less than or equal to x less than or equal to 0.05) have been investigated by means of X-ray diffraction, electrical-resistivity and magnetic-susceptibility measurements. X-ray-diffraction patterns show that all samples studied contain the nearly single 124 phase. They exhibit an orthorhombic-to-tetragonal structural transition at about x=0.03 for M=Fe and Co; and at x=0.04 for M=Ga; ... [顯示更多](#)
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 CHEN, YC; YANG, CK; (...); YANG, HD
 Dec 26 1994 APPLIED PHYSICS LETTERS 65 (26) , pp.3392-3394</p> <p>出版商的全文 ***</p> | <p>2
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 SHIH, CR; MEEN, TH; (...); YANG, HD
 Oct 1 1994 PHYSICAL REVIEW B 50 (13) , pp.9619-9622</p> <p>The magnetic-field dependence of the specific-heat measurements on Pb2Sr2TbCu3O8+delta with 0.5 K < T < 30 K, are reported in order to study the magnetic order in this compound. Anomalies in the specific heat C(T) of Pb2Sr2TbCu3O8+delta are observed at T(N1) approximately 5.3 K and T(N2) approximately 2.4 K, which are related to two antiferromagnetic transitions in the Tb sublattice. While the anomaly seen in the sp ... 顯示更多</p> <p>出版商的全文 ***</p> | <p>8
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 CHEN, YC; MEEN, TH; (...); LIAW, KW
 20th International Conference on Low Temperature Physics
 Feb 1994 PHYSICA B 194 , pp.2039-2040</p> <p>R1-xPrxBa2Cu4O8 (R=Eu, Gd, Dy, Ho, Er, Tm; x=0 and 0.2) have been investigated by means of X-ray diffraction and electrical-resistivity measurements. Lattice parameters a and b increase with the increase of ionic-radius of rare elements, and c is almost invariant. Therefore, the separation between rare-earth ions and the Cu-O2 planes will decrease with the increasing radius of the R3+ ions. in R0.8Pr0.2Ba2Cu4O8 system, the DELT7 ... 顯示更多</p> <p>出版商的全文 ***</p> | <p>15
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 MEEN, TH; JUANG, FL; (...); YANG, HD
 20th International Conference on Low Temperature Physics
 Feb 1994 PHYSICA B 194 , pp.2061-2062</p> <p>Y(Ba1-xCax)2Cu4O8 (0 less-than-or-equal-to x less-than-or-equal-to 0.1) have been investigated by means of x-ray diffraction and electrical-resistivity measurements. X-ray-diffraction patterns show that all samples contain the single YBa2Cu4O8 phase. Lattice parameters a, b and c decrease with the Ca concentration. Zero resistance temperature T(co) increases from 79 K at x=0 to 90.5 K at x=0.075, and then decreases to 88 K at x= ... 顯示更多</p> <p>出版商的全文 ***</p> | <p>1
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 MEEN, TH; CHEN, YC; (...); YANG, HD
 Oct 1993 JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS 32 (10) , pp.4503-4508</p> <p>YBa2(Cu1-xMx)4O8(M=Fe, Zn; x=0 to 0.05) has been investigated by means of X-ray diffraction, thermogravimetric analysis, electrical resistivity and magnetic susceptibility measurements. X-ray diffraction patterns show that all samples contain the nearly single YBa2Cu4O8 phase. The results of structural analysis indicate that the orthorhombic-to-tetragonal transition occurs at about x=0.03 for M=Fe, whereas the structure ... 顯示更多</p> <p>出版商的全文 ***</p> | <p>8
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| □ 150 | <p>MAGNETIC-PROPERTIES OF NONSUPERCONDUCTING PB2SR2RCU3O8+Y (R=Y, PR, GD AND TB)</p> | <p>6</p> |

[LIAW, KW](#); [MEEN, TH](#); (...); [YANG, HD](#)

Sep 1 1993 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 2-LETTERS & EXPRESS LETTERS](#) 32 (9A) , pp.L1225-L1228

X-ray diffraction patterns reveal that all samples contain the single $Pb_2Sr_2YCu_3O_{8+y}$ phase. The results of electrical-resistivity measurements show that $Pb_2Sr_2RCu_3O_{8+y}$ (R=Y, Pr, Gd and Tb) are not superconducting at temperatures above 10 K. The paramagnetic effective moments $\mu(\text{eff})$ and the magnetic transition temperatures $T(N)$ derived from the magnetic susceptibility data are 3.11 $\mu(B)$, 7.94 $\mu(B)$ and 10.04 $\mu(B)$, i.... [顯示更多](#)

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151 OCCURRENCE OF WEAK FERROMAGNETISM IN T'-(R1-XYX)2CUO4 (R = SM AND EU)
YANG, HD; MEEN, TH and CHEN, YC
Sep 1 1993 | PHYSICAL REVIEW B 48 (10), pp.7720-7723
Results for the temperature dependence of the magnetic susceptibility for Gd2CuO4, (Sm1-xYx)2CuO4, and (Eu1-xYx)2CuO4 with various Y concentrations are reported. The magnetic anomalies that occurred at T(N)(Cu) approximately 285 K and T(m) approximately 20 K in Gd2CuO4, are not observed in Sm2CuO4 or Eu2CuO4, and are seen in (Sm1-xYx)2CuO4 and (Eu1-xYx)2CuO4 with x greater-than-or-equal-to 0.3 and x greater-tha ... 顯示更多
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152 EFFECT OF PRASEODYMIUM ON SUPERCONDUCTIVITY AND MAGNETISM IN Y1-XPRXBA2CU4O8 PREPARED BY NITRITE PYROLYSIS METHOD
MEEN, TH; CHEN, YC; (...); YANG, HD
Aug 1993 | JOURNAL OF THE AMERICAN CERAMIC SOCIETY 76 (8), pp.1948-1952
X-ray diffraction patterns show that most samples of Y1-xPrxBa2Cu4O8 examined in the present study contained a single YBa2Cu4O8 (1-2-4) superconductive phase for x < 0.7. Lattice parameters a and b increase with Pr concentration, suggesting that most of the Pr is trivalent in Y1-xPrxBa2Cu4O8. The zero-resistance temperature, T(co), decreases monotonically from 80 K at x = 0 to 12 K at x = 0.65, and superc ... 顯示更多
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153 STRUCTURAL TRANSFORMATION AND MAGNETIC-PROPERTIES OF SR-DOPED GD2CUO4
YANG, HD; MEEN, TH and CHEN, YC
May 1 1993 | PHYSICA C 209 (4), pp.573-578
X-ray diffraction and magnetic susceptibility measurements have been investigated for the effects of Sr doping on the structural and magnetic properties of T-phase compound Gd2CuO4. For (Gd1-xSrx)2CuO4, the T' phase is retained in the range 0 less-than-or-equal-to x less-than-or-equal-to 0.05 and transforms into T* phase at about x=0.4, in which the local Cu-O units are a square and a pyramid, respectively. The magnetic ord ... 顯示更多
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[MEEN, TH; CHEN, YC](#) (...); [TAI, ME](#)
 Dec 1992 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS](#) 31 (12A) , pp.3825-3829

X-ray diffraction patterns show that samples contain the nearly single 124 phase for $x < 0.7$. Lattice parameters a and b increase with Pr concentration. Thermal stability is reduced with increasing Pr concentration. Zero resistance temperature $T(c_0)$ decreases monotonically from 80 K at $x=0$ to 12 K at $x=0.65$. Room-temperature resistivity changes linearly to $x=0.7$ and increases abruptly at $x=0.75$. Thus the critical concentration x_l ... [顯示更多](#)
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[CHEN, YC; CHONG, KK](#) (...); [HOUNG, MP](#)
 Jul 1991 | [JOURNAL OF THE AMERICAN CERAMIC SOCIETY](#) 74 (7) , pp.1710-1714

The effect of humidity on the bismuth superconductor is investigated under 90% humidity at 30-degrees-C for 250 h. Nearly none of the peaks of high-T(c) phase (2223) can be observed in the X-ray pattern after the test. The silver contact resistance of the sample also increases prominently in the time interval from 60 h to 100 h. When the humidity-tested sample is heated again under sintering conditions (845-degrees-C for 50 h i ... [顯示更多](#)
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[CHEN, YC; CHONG, KK](#) and [MEEN, TH](#)
 Jan 1991 | [JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS](#) 30 (1) , pp.33-37

Better metal electrode can be obtained by heat treatment which causes deeper diffusion of metal particles into the (Pb, Bi)SrCaCuO superconductor to improve contacts between metal electrodes and the sample. However, high-T(c) phase of the specimen was destroyed at 700-degrees-C and the sample showed semiconducting behaviour. Low room temperature contact resistivity was obtained about 3.21×10^{-4} (OMEGA-cm-2) an ... [顯示更多](#)
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