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**Controlled Organic Thin Films. Professor DA Zeze Durham University. Interface  
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**Organic heterostructures in organic field effect. Penn State Engineering  
Chemical Engineering Directory. Charge transfer and polarization screening at  
organic. Thermoelectric and thermal transport properties of complex. Evaluation  
of Intrinsic Charge Carrier Transport at. Oriented Thin Films of a  
Benzodithiophene Covalent Organic. D K Goswami Surfaces Interfaces and  
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Entanglement and the Modulus of Aligned Single Walled Carbon Nanotube Films  
Proceedings of the National Academy of Sciences early edition 2013 75'

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**'Proceedings of the Third International Springer**

November 17th, 2019 - Proceedings of the Third International Symposium on Materials and Sustainable Development Optical and Electrical Properties of Al Doped SnO<sub>2</sub> Thin Films Synthesized by Sol Gel Improving the Power Efficiency of Organic Photovoltaic Cells with P3HT ICBA Used as Active Layer Pages 175 180 Ourahmoun O'

**'Saibal Roy Head of Group Micropower Nanomagnetism**

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**December 14th, 2019 - Professor Saibal Roy is Research Professor to the Department of Physics University College Cork UCC and Head of Micropower Systems amp Nanomagnetism in Tyndall National Institute Ireland'**

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cutting edge techniques in surface and interface science"**Giant magnetoresistance**  
**Wikipedia**

**December 13th, 2019 - Giant magnetoresistance GMR is a quantum mechanical magnetoresistance effect observed in multilayers composed of alternating ferromagnetic and non magnetic conductive layers The 2007 Nobel Prize in Physics was awarded to Albert Fert and Peter Grünberg for the discovery of GMR"**Publications BEEM Lab University of Colorado Boulder

**November 30th, 2019 - 8 502 356 2013 Controlled Semiconductor Crystallization**

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**in Organic Thin Film Transistors 8 481 994 2013 Contact Doping for Organic Thin Film Transistors link 8 481 360 2013 Vertical Channel Organic Thin Film Transistor link'**

**'Ferroelectric Polymer Thin Films for Organic Electronics**

**January 1st, 2015 - Polyvinylidene fluoride PVDF and its copolymer with trifluoroethylene TrFE are the most commonly used polymer ferroelectric due to their well defined ferroelectric properties and ease of fabrication into thin films**

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**In this study we review the recent advances of thin ferroelectric polymer films for organic electronic applications'**

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December 16th, 2019 - Jon F Ihlefeld Harlan Brown Shaklee and Patrick E Hopkins

?Grain size and porosity effects on the thermal conductivity of SrTiO<sub>3</sub> thin films ?

Proceedings of the 15 th US Japan Seminar on Dielectric and Piezoelectric Materials  
2011'

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November 29th, 2019 - Chapters in international books 16 G Lanzani G Cerullo D Polli

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A Gambetta M Zavelani Rossi C Gadermaier ?Ultrafast Photophysics in Conjugated Polymers? Chapter 5 pages 129?151 in the book ?Physics of Organic Semiconductors? Edited by Wolfgang Brütting 2006'

**'Impact of MoO<sub>3</sub> interlayer on the energy level alignment of  
December 24th, 2019 - The insertion of a thin layer MoO<sub>3</sub> has a significant  
impact on the interfacial energy level alignment of pentacene C<sub>60</sub>  
heterostructure in Interface Controlled Organic Thin Films Springer Proceedings**



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**in Physics Vol 129 edited by K Al Shamery G Horowitz H Sitter and H G Rubahn  
Springer Berlin'**

**'Penn State Engineering Chemical Engineering Directory**

**December 25th, 2019 - Kristen A Fichthorn and R A Miron 2009 Accelerated  
molecular dynamics simulation of thin film growth Springer Proceedings in  
Physics 123 pp 7 16 Kristen A Fichthorn and Y Qin 2005 Molecular Dynamics  
Simulations of Forces Between Colloidal Nanoparticles Nanotechnology and the  
Environment Applications and Implications 890 pp p 128'**

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## 'Chemistry Journals amp Other Publications

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*December 22nd, 2019 - Polymer and Organic Based Light Emitting Devices M J Yang  
L Yang W Q Li Y Wang R G Sun Q B Zheng and A J Epstein Eu Complex based  
Multiple Quantum Well*

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**April 7th, 2019 - SAO NASA ADS Physics · Refereed Citations to the Article ·  
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December 17th, 2019 - Electrical behavior of memory devices based on fluorene containing organic thin films Journal of Applied Physics 104 4 044510 Mabrook MF Pearson C Kolb D Zeze DA amp Petty MC 2008 Memory effects in hybrid silicon metallic nanoparticle organic thin film structures Organic Electronics 9 5 816 820'

**'Interface Controlled Organic Thin Films eBook 2009**

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**semiconductors are a central topic of advanced materials research The book is aiming at bridging the gap between the development and production of devices and basic research on thin film" *Publications SuMo Lab***

*November 30th, 2019 - 1 D G de Oteyza E Barrena J O Osso H Dosch S Meyer and J Pflaum Controlled enhancement of the electron field effect mobility of F16CuPc thin film transistors by use of functionalized SiO<sub>2</sub> substrates Applied Physics Letters 2005 87 183504 1 3 Back to top'*

**'Dynamic interfaces in an organic thin film PNAS**

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May 16th, 2008 - Low dimensional boundaries between phases and domains in organic thin films are important in charge transport and recombination Here fluctuations of interfacial boundaries in an organic thin film acridine 9 carboxylic acid on Ag 111 have been visualized in real time and measured quantitatively using scanning tunneling microscopy The'

***'Materials An Open Access Journal from MDPI***

*December 26th, 2019 - Materials an international peer reviewed Open Access journal*

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*The interaction between interstitial oxygen atoms and  $1/2$  type screw dislocations was investigated via first principles calculations to elucidate the effect of oxygen solutes on the deformation behaviors of Mg'*

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**'PROF Steven Praver The University of Melbourne**

October 19th, 2019 - Steven Praver is Professor of Physics at the University of Melbourne He has a world wide reputation in advanced diamond science and technology with over 30 years of experience and over 390 scientific publications A particular focus has been the merging of the areas of nanoscience and neuroscience to push the boundaries of bionic devices'

**'IOPscience Journals Institute of Physics**

*August 4th, 2019 - Plasma Physics and Controlled Fusion 1984 to date Plasma*

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*Science and Technology 1999 to date Plasma Sources Science and Technology  
Proceedings of the Physical Society of London 1874 1925 Pure and Applied Optics  
Journal of the European Optical Society Part A 1992 1998*"**Thin film Wikipedia  
December 22nd, 2019 - A thin film is a layer of material ranging from fractions of  
a nanometer to several micrometers in thickness The controlled synthesis of  
materials as thin films a process referred to as deposition is a fundamental step  
in many applications**"**Semiconductor Science and Technology IOPscience  
November 13th, 2018 - Thin thermal oxide films have become increasingly important**

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in recent years due to the continuing down scaling of ultra large scale integration metal oxide silicon field effect transistors Such films are also of importance for organic transistors where back gating is needed'

**'Scitation AIP Publishing**

*December 27th, 2019 - About AIP Publishing AIP Publishing is a wholly owned not for profit subsidiary of the American Institute of Physics AIP AIP Publishing's mission is to support the charitable scientific and educational purposes of AIP through scholarly publishing activities in the fields of the physical and related sciences on its own behalf*

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*December 25th, 2019 - Organic Thin Film Transistors with Enhanced Sensing Capabilities Interface Controlled Organic Thin Films? Springer Proceedings in Physics 2009 Volume 129 Part 5 217 224 DOI 10 1007 978 3 540 95930 4 36 January 1*

**2009'Interface control of bulk ferroelectric polarization PNAS**

**August 28th, 2019 - The samples used in the study are 150 nm BFO thin films**

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**with 5 nm LSMO bottom electrodes The top electrodes used are 100 nm Au with 30 microns square The consistent shift of the loops indicates the presence of a biased voltage due to the electrical mismatch between the bottom conducting layer and top Au electrodes'**

### **'Organic heterostructures in organic field effect**

April 21st, 2010 - A heterojunction is an interface between two semiconductor materials of differing energy gap and inorganic heterojunctions have been studied as

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the basis of electronic devices for over half a century Organic heterojunctions have also been successfully applied in organic electronic devices over the past two decades However a theoretical"**Penn State Engineering Chemical Engineering Directory December 21st, 2019 - Dongsheng Li Raymond Vrtis Anaram Shahravan and Themis Matsoukas 2011 Plasma enhanced chemical vapor deposition of organic particle thin films Journal of Nanoparticle Research 13 3 pp 985 996'**

*'Charge transfer and polarization screening at organic*

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*November 11th, 2016 - We studied electronic polarization effects at organic metal interfaces using combined photoemission spectroscopy PES and x ray excited Auger electron spectroscopy XAES as a function of the organic layer thickness As a model system for organic semiconductor metal interfaces magnesium phthalocyanine was evaporated onto gold*

**Thermoelectric and thermal transport properties of complex oxide thin films heterostructures and superlattices Volume 32 Issue 1 Jayakanth Ravichandran**

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***'Evaluation of Intrinsic Charge Carrier Transport at***

*December 21st, 2019 - By means of the present measurement system named field induced time resolved microwave conductivity FI TRMC the pentacene thin film in the MIS device allowed the evaluation of the hole and electron mobility at the insulator semiconductor interface of 6.3 and 0.34 cm<sup>2</sup> V<sup>-1</sup> s<sup>-1</sup> respectively'*

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## 'Oriented Thin Films of a Benzodithiophene Covalent Organic

August 3rd, 2014 - A mesoporous electron donor covalent organic framework based on a benzodithiophene core BDT COF was obtained through condensation of a benzodithiophene containing diboronic acid and hexahydroxytriphenylene HHTP BDT COF is a highly porous crystalline and thermally stable material which can be handled in air Highly porous crystalline" D K Goswami Surfaces Interfaces and Nanosciences Group

December 21st, 2019 - Highly motivated students with Physics Materials Science

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Chemistry background interested to work on organic semiconducting thin films The controlled evolution of a polymer single crystal by X Liu Proceedings in Physics Vol 143 2013 Publisher Springer'

**'Publications Knoesen Andre**

December 14th, 2019 - FEMTOSECOND OPTICAL APPLICATIONS OF SECONDORDER NONLINEAR POLYMERIC THIN FILMS Invited Proceedings of the International Symposium on Organic Thin Films for Photonics Applications Technical Digest Series Optical Society of America and the American Chemical Society Springer

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Series in Chemical Physics Springer Verlag 62 167 168" **Prof Ivan Biaggio**

***Publications Lehigh University***

*December 14th, 2019 - ?Self Assembly Growth of Organic Thin Films and Nanostructures by Molecular Beam Deposition An Interesting and Unexpected Story? in Anisotropic Organic Materials Ç Approaches to Polar Order Rainer Glaser and Piotr Kaszynski Editors ACS Symposium Series Volume 798 American Chemical Society Washington D C July 2001'*

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## **'Physical aspects of ferroelectric semiconductors for**

December 20th, 2019 - Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion Organic?inorganic perovskite thin films of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> is not generally understood and it is even difficult to determine whether the effect is due to a bulk conduction or an interface barrier controlled mechanism as discussed in the following"**Books Prof Dario Polli**

**December 24th, 2019 - Chapters in international books 17 P Biagioni D Contini D Polli and F Scotognella ?Visual Language in Physics Research? in the book**

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**?The Visual Language of Technique? Volume 1 ? History and Epistemology  
edited by Luigi Cocchiarella Springer 2015"Ultrafast Confocal Microscope for  
Functional Imaging of  
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Controlled Organic Thin Films Polli D et al 2009 Ultrafast Confocal Microscope  
for Functional Imaging of Organic Thin Films In Al Shamery K Horowitz G Sitter  
H Rubahn HG eds Interface Controlled Organic Thin Films Springer Proceedings  
in Physics vol 129 Springer Berlin" *Giant polarization in super tetragonal thin***

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***films through***

*August 2nd, 2018 - These thin films with super tetragonal structure possess a giant remanent polarization 236.3 microcoulombs per square centimeter which is almost twice the value of known ferroelectrics. The super tetragonal phase is stable up to 725°C compared to the bulk transition temperature of 490°C.*

**'Organic solar cells An overview Journal of Materials**

**July 6th, 2004 - Organic solar cells An overview Volume 19 Issue 7 Harald Hoppe  
Currents and photocurrents in organic materials determined by the interface**

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phenomena **Advances in Colloid and Interface Science Vol L A A Roman L S and Inganäs O Modeling photocurrent action spectra of photovoltaic devices based on organic thin films J Appl'**

**'Conductivity of ZnO Nanowires Nanoparticles and Thin**

*July 11th, 2006 - The terahertz absorption coefficient index of refraction and conductivity of nanostructured ZnO have been determined using time resolved terahertz spectroscopy a noncontact optical probe ZnO properties were measured*

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*directly for thin films and were extracted from measurements of nanowire arrays and mesoporous nanoparticle films by applying'*

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