	Login Create account Athens/Institutional login			Quick search
Scie	nce and Technology of Advanced Materials	Title/Abstrac	t 🗾 All Da	ites 💌
		ja Al	journals jo Th	is journal only
Home	Search Collections Journals About Contact us My IOPscience	Author	s Referees	Librarians
Contin	uous production of flexible carbon nanotube-based transparent	U	sers also read	What's this?
conduc	tive films	1.	Synthesis and c	haracterization
Author	I Stuart Eraser ¹ Marcelo S Motta ^{2,4} Ron K Schmidt ^{3,4} and Alan H Windle ¹		of Eu ³⁺ ,Ti ⁴⁺ @Z and nanocrysta	nO organosols Iline c-ZnTiO ₃
Affiliation			thin films aiming	g at high ad
Amiliation	^s Department of Materials Science and Metallurgy, University of Cambridge, Cambridge CB2 3QZ, UK ² Thomas Swan and Co., Consett, County Durham, DH8 7ND, UK		luminescence	
	³ Akzo Nobel, Stoneygate Lane, Gateshead, Tyne and Wear, NE10 0JY, UK	2.	Low-energy	
	work done while at the Department of Materials Ocience, Cambridge Oniversity, Cambridge, OK.		cathodolumines	scence the
E-mail	ahw1@cam.ac.uk		characterization	of
Journal	Science and Technology of Advanced Materials Create an alert RSS this journal		nanostructures	
Issue	Volume 11, Number 4	3.	Spatio-tempora kinetics of <i>in sit</i>	l thermal <i>u</i> MWCNT
Citation	l Stuart Fraser et al 2010 Sci. Technol. Adv. Mater. 11 045004	heating in biological tissues		
	doi: 10.1088/1468-6996/11/4/045004			indulation
			016	
Article	References	R	elated review	What's this?
	Tag this article Full text PDF (909 KB)	a	rticles	What's the.
		1.	Recent develop	ments in
Abstract	I his work shows a simple, single-stage, scalable method for the continuous production of high-quality carbon nanotube-polymer transparent conductive films from carbon feedstock. Besides the ease of		nanotubes: suc	ed carbon cesses and
	scalability, a particular advantage of this process is that the concentration of nanotubes in the films, and		challenges	
	films can be readily prepared for any application desired, ranging from solar cells to flat panel displays. Our	2.	Lyotropic liquid	crystal directed
	best results show a surface resistivity of the order of 300 Ω square ⁻¹ for a film with 80% transparency, which		synthesis of nai materials	nostructured
	is promising at this early stage of process development.	2	Hydrothormol a	rowth of ZnO
PACS	81.16c Methods of nanofabrication and processing	5.	nanostructures	
	73.63.Fg Nanotubes	M	ore	
	61.46.Fg Nanotubes			
	and transmission coefficients, emissivity)	Ar	ticle links	
	68.55a Thin film structure and morphology	Po	st to CiteUlike	
	73.61.Ng Insulators	Po	est to Connotea	
Subjects	Condensed matter: electrical, magnetic and optical	Po	st to Bibsonomy	
-	Surfaces, interfaces and thin films			
	Nanoscale science and low-D systems	Vi	ew by subject	
Dates	Issue 4 (August 2010)	A	I Subjects	-
24.00	Received 6 五月 2010 , accepted for publication 25 八月 2010	A	I Dates	-
	Published 6 十月 2010	to	All journals in T	his journal only
				Security
				Search
Your la	st 10 viewed			

Export

BibTeX format (bib)

jn Abstract jn References

Export Results

•

3. Present status of amorphous In–Ga–Zn–O thin-film transistors Toshio Kamiya *et al* 2010 *Sci. Technol. Adv. Mater.* **11** 044305

Masoud Darvish Ganji et al 2010 Sci. Technol. Adv. Mater. 11 045001

I Stuart Fraser et al 2010 Sci. Technol. Adv. Mater. 11 045004

1. Continuous production of flexible carbon nanotube-based transparent conductive films

2. Theoretical investigation of methane adsorption onto boron nitride and carbon nanotubes