

The following Table contains all the publications undertaken during the GRAFOL Project

NO.	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Year of publication	Relevant pages
1	Graphene: Hype and Hope	H. Kurz	Alcatel-Lucent			2012	
2	Spintronics with graphene	P. Seneor	MRS Bulletin			2012	1245
3	Graphene-passivated nickel as oxidation-resistant electrode for spintronics.	B. Dlubak	ACS Nano	6		2012	10930
4	Parameter Space of Graphene Chemical Vapor Deposition on Polycrystalline Cu	P.R. Kidambi	J. Phys. Chem. C	116		2012	22492
5	Highly efficient spin transport in epitaxial graphene on SiC	B. Dublack	Nature Physics	8		2012	557
8	Evolutionary Kinetics of Graphene Formation on Copper	K. Celebi	NanoLetters	vol 13	ACS	2013	967
9	Enhanced infra-red emission from sub-mm MEMS micro hotplates via inkjet deposited carbon nanoparticles and fullerenes	A. De Luca	JAP			2013	
10	Graphene SOI CMOS sensors for detection of ppb levels of NO <sub>2</sub> in air	J.W. Gardner	IEEE Sensors 2013			2013	
11	Graphene based integrated circuits: From an inverter towards and ring oscillator	D. Schall	Graphene 2013			2013	
12	Temperature gradient chemical vapor deposition of vertically aligned carbon nanotubes	S.K. Youn	Carbon	vol 54	Elsevier	2013	343
13	High density carbon nanotube growth using a plasma pretreated catalyst	C. Zhang	Carbon	vol 53	Elsevier	2013	339
14	Substrate-assisted nucleation of ultra-thin dielectric layers on graphene	B. Dlubak	App Phys Lett	100	AIP	2012	173113

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	by atomic layer deposition						
15	Electrical conduction of carbon nanotube forests through sub-nanometric films of alumina	S Esconjauregui	App Phys Lett	102	AIP	2013	113109
16	Chemically Modulated Graphene Diodes	H.-Y. Kim	Nanoletters	13	ACS	2013	2182
17	Highly efficient spin transport in epitaxial graphene	P. Seneor	APS 2013			2013	
22	In Situ Characterization of Alloy Catalysts for Low-Temperature Graphene Growth	R.S. Weatherup	Nanoletters	11		2011	4154
23	On the mechanism of Ni-Catalysed Graphene Chemical Vapour Deposition	R.S. Weatherup	Chem. Phys. Chem.	13		2012	2544
24	In situ observations of the atomistic mechanisms of Ni catalyzed low temperature graphene growth	L.L. Patera	ACS Nano	7		2013	7901
30	Electromagnetic Performance of RF NEMS Graphene Capacitive Switches	P. Sharma	IEEE Transactions			2014	70-79
31	Fabrication and Characterization of Graphene RF NEMS Capacitive Switches	C. F. Moldovan	40th Micro and Nano Engineering	145		2104	5
32	Nanoelectromechanical microwave switch based on graphene	P. Sharma	Ultimate Integration on Silicon			2014	
34	Spatial Variability in Large Area Single and Few- layer CVD Graphene	C. F. Moldovan	International Conference on Ultimate Integration on Silicon			2015	
36	Graphene RF NEMS shunt switches for analog and digital phase shifters	C. F. Moldovan	18th International Conference on Solid-State Sensors, Actuators and Microsystems			2015	
38	Doped Graphene as Electrode in Organic Light Emitting Diodes	J. Meyer	MRS Spring Meeting			2014	
39	Metal oxide induced charge transfer doping and band alignment of graphene electrodes for efficient organic light emitting diodes	J. Meyer	Sci. Rep.	4		2014	5380
40	Organic light emitting diodes with environmentally and thermally stable	J. Meyer	J. Mater. Chem. C	2		2014	6940-6945

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	doped graphene electrodes						
41	Multifunctional oxides for integrated manufacturing of efficient graphene electrodes for organic electronics	P.R. Kidambi	Appl. Phys. Lett.	106		2015	063304
42	In Situ Observations of the Atomistic Mechanisms of Ni Catalyzed Low Temperature Graphene Growth	L. Laerte	ACS Nano			2013	7901
43	Introducing Carbon Diffusion Barriers for Uniform, High-Quality Graphene Growth from Solid Sources	R S Weatherup	Nanoletters	13		2013	4624
44	Observing Graphene Grow: Catalyst-Graphene Interactions during Scalable Graphene Growth on Polycrystalline Copper	P.R. Kidambi	Nanoletters	13		2013	4769
45	Interdependency of Subsurface Carbon Distribution and Graphene-Catalyst Interaction	R S. Weatherup	JACS	136		2014	13698
46	The influence of intercalated oxygen on the properties of graphene on polycrystalline Cu under various environmental conditions	R. Blume	PhysChemChemPhys	16			25989
47	In Situ Observations during Chemical Vapor Deposition of Hexagonal Boron Nitride on Polycrystalline Copper	P.R. Kidambi	Chem. Mater	26		2014	6380
48	“Characterizing Graphitic carbon with XPS: A Step by Step Approach	R. Blume	Chem. Cat. Chem			2015	
49	Structure identification in high-resolution transmission electron microscopy images: graphene electron microscopy images: an example on graphene	J S Vestergaard	Microsc. & Microanal			2014	1772
51	Organic light emitting diodes with environmentally and thermally stable doped graphene electrodes	A. Kuruvila	J Materials Chemistry C	2		2014	6940
52	Pattern recognition approach to quantify the atomic structure of graphene	J. Kling	Carbon	74		2014	363
53	Direct observation of structure controlled	J.B.	AVS61			2014	

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	carbon growth by environmental TEM	Wagner					
54	Direct observation of structure controlled carbon growth by environmental TEM	J.B. Wagner	Electron Microscopy Frontiers			2014	
55	Automated structure detection in HRTEM images: An example with graphene	J. Kling	Microscopy & Microanalysis	20		2013	1772
58	Growth of high-density carbon nanotube forests on conductive TiSiN supports	J. Yang	Applied Physics Letters	106		2015	083108
59	Influence of packing density and surface roughness of vertically-aligned carbon nanotubes on adhesive properties of gecko-inspired mimetics	B. Chen	ACS Applied Materials & Interfaces	7		2015	3626
60	The synergistic effect in the Fe-Co bimetallic catalyst system for the growth of carbon nanotube forests.	D. Hardeman	J Applied Physics	117		2015	044308
61	Low temperature growth of carbon nanotubes on tetrahedral amorphous carbon using Fe-Cu catalyst	R. Cartwright	Carbon	81		2015	639
62	Comparison of carbon nanotube forest growth using AlSi, TiSiN, and TiN as conductive catalyst supports	J. Yang	Physica Status Solidi	251		2014	2389
63	Stability of graphene doping with MoO <sub>3</sub> and I <sub>2</sub> .	L. D'Arsié	Applied Physics Letters	105		2014	103103
64	Growth kinetics and growth mechanism of ultrahigh mass density carbon nanotube forests on conductive Ti/Cu supports	H. Sugime	ACS Applied Materials & Interfaces	6		2014	15440
65	Effect of oxygen plasma alumina treatment on growth of carbon nanotube forests.	J. Yang	The Journal of Physical Chemistry	118		2014	18683
66	The role of the sp <sup>2</sup> :sp <sup>3</sup> substrate content in carbon supported nanotube growth	R. Cartwright	Carbon	75		2014	327
67	Hybrids of carbon nanotube forests and gold nanoparticles for improved surface plasmon manipulation.	T. Makaryan	ACS Applied Materials & Interfaces	6		2014	5344
68	Carbon nanotube forests growth using catalysts from atomic layer deposition.	B. Chen	J Applied Physics	115		2014	144303
69	Carbon nanotube growth on conductors:	S.	Carbon	73		2014	13

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	influence of the support structure and catalyst thickness	Esconjauregui					
70	Effect of catalyst pretreatment on chirality-selective growth of single-walled carbon nanotubes.	M. Fouquet	The Journal of Physical Chemistry	118		2014	5773
71	Diameter and wall number control of carbon nanotubes by chemical vapor deposition	R. Xie	Journal of Applied Physics	114		2013	244302
72	Evaluation of bimetallic catalysts for the growth of carbon nanotube forests.	H. Tornatzky	Physica Status Solidi B	250		2013	2605
73	Low temperature growth of ultra-high mass density carbon nanotube forests on conductive supports	H. Sugime	Applied Physics Letters	103		2013	073116
75	Kinetic Control of Catalytic CVD for High-Quality Graphene at Low Temperatures	R.S. Weatherup	ACS Nano	Vol 6		2012	9996
76	Atomic layer deposition of sub-nanometer thin oxide barriers for magnetic tunnel junctions,	M.-B. Martin	ACS Nano	Vol 8		2014	7890
77	Defect/oxygen assisted direct write technique for nanopatterning graphene.	A. Cagliani	Nanoscale	Vol. 7		2015	6271-6277
78	Graphene transport properties upon exposure to PMMA processing and heat treatments.	L. Gammelgaard	2D materials	Vol. 1		2014	035005
79	Large-area nanopatterned graphene for ultrasensitive gas sensing	A. Cagliani	<a href="#">Nano Research</a> ,	Vol. 7		2014	743-754
80	Transfer induced compressive strain in graphene: Evidence from Raman spectroscopic mapping	M.B. Larsen,	Engineering	Vol. 121		2014	113-117
80	Experimental verification of electro-refractive phase modulation in graphene	M. Mohsin	Scientific Reports	5		2015	10967
81	Highly Air Stable Passivation of Graphene Based Field Effect Devices	A.A. Sagade	Nanoscale	7		2015	3558
82	50 GBit/s photodetectors based on wafer-scale graphene for integrated silicon photonic communication systems	D. Schall	ACS Photonics	1		2014	781

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83	Graphene based low insertion loss electro-absorption modulator on SOI waveguide	M. Mohsin	Optics Express	22		2014	15292
84	Integrated Ring Oscillators based on high-performance Graphene Inverters	D. Schall	Scientific Reports	3		2013	2592
105	Electrical properties of doped and folded graphene	T. Hallam	Carbonhagen, Copenhagen 2013, Invited Talk			2013	
106	Graphene for Sensing	T. Hallam	Nanodays Stuttgart 203, Invited Talk				
107	In-Situ grown carbon nanotubes for enhanced CO <sub>2</sub> detection in non-dispersive-infra-red system	A. De Luca	SENSORS			2013 IEEE	1-4
108	Enhanced infra-red emission from sub-millimeter microelectromechanical systems micro hotplates via inkjet deposited carbon nanoparticles and fullerenes	A. De Luca	Journal of Applied Physics	113		2013	214907
109	Dip pen nanolithography-deposited zinc oxide nanorods on a CMOS MEMS platform for ethanol sensing	S. Santra	RSC Advances	5		2015	47609
115	Growth mechanism of graphene on platinum: Surface catalysis and carbon segregation	Sun	Appl. Phys. Lett.	104		2014	152107
116	Toward 300 mm Wafer-Scalable High-Performance Polycrystalline Chemical Vapor Deposited Graphene Transistors	Rahimi	ACS Nano	8		2014	10471–10479
117	Carbon nanotube forests as top electrode in electroacoustic resonators	S. Esconjauregui	Applied Physics Letters	107		2015	133106
118	Efficient Transfer Doping of Carbon Nanotube Forests by MoO <sub>3</sub>	S. Esconjauregui	ACS Nano	9		2015	10422
119	Large-Scale Diffusion Barriers from CVD Grown Graphene	C. Wirtz	Advanced Materials Interfaces	2		2015	
120	Large area suspended graphene for	T. Hallam	physica status solidi (b)	252		2015	2429

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	nano-mechanical devices						
121	Engineering high charge transfer n-doping of graphene electrodes and its application to organic electronics	S. Sanders	Nanoscale	7		2015	13135
122	3D graphene-carbon nanotubes hybrid nanomaterials: synthesis, electronic properties and applications	R. Ramos	Boston		MRS	2015	