CAP CENTRE OF EXCELLENCE (CoE)

i. Meningkatkan Penulisan Penerbitan Ilmiah melalui Penyelidikan Berimpak dan Berkualiti

CAP CENTRE OF EXCELLENCE (COE)

IPTA	**Universiti Malaysia Perlis (UniMAP)**
Projek Agenda Kritikal	**Centre of Excellence (CoE)**
KPI	**Menghasilkan bilangan penulisan ilmiah atau tesis yang berkualiti untuk diterbitkan di jurnal berindeks tinggi atau SCOPUS.**
Tajuk Aktiviti	**MENINGKATKAN PENULISAN PENERBITAN ILMIAH MELALUI PENYELIDIKAN BERIMPAK DAN BERKUALITI.**

Latar Belakang Aktiviti

Aktiviti ini dipilih untuk membantu mencapai taraf CoE dengan menjalankan penyelidikan secara usahasama penyelidikan dengan pusat penyelidikan sama ada di peringkat nasional dan antarabangsa. Dengan cara ini ia dapat mempercepatkan taraf pengantarabangsaan CoE dan juga meningkatkan bilangan hasil penulisan ilmiah atau jurnal yang bakal terhasil melalui kolaborasi tersebut dengan cara penyeliaan tesis bersama.

Perancangan Aktiviti

Mengadakan usahasama dengan pusat penyelidikan yang terpilih secara kolaborasi tatacara penyeliaan tesis pelajar dan penyelidikan yang berkualiti tinggi.

Pelaksanaan Aktiviti

1. Mengenalpasti pusat penyelidikan yang boleh bekerjasama dalam mewujudkan peluang penyelidikan yang sesuai dengan bidang penyelidikan di CoE.
2. Mengadakan lawatan susulan untuk merangka dan mengatur arah tuju penyelidikan bagi mencapai objektif kedua-dua belah pihak dan mencapai kata putus bagi tujuan kolaborasi.
3. Menandatangani MoA dan MoU bagi mengesahkan perjanjian dengan pusat penyelidikan.
4. Menjalankan penyelidikan secara usahasama dengan pusat penyelidikan terbabit dan menghasilkan penulisan ilmiah, tesis atau jurnal yang boleh diterbitkan di jurnal berwasit atau SCOPUS.
5. Menghasilkan bilangan pelajar pasca siswazah secara penyeliaan bersama.

Pencapaian

1. MOU dan MOA di antara Universiti Malaya (UM) dan INEE, UniMAP.
2. MOU di antara Universiti Teknologi Malaysia (UTM) dan INEE, UniMAP.
3. MOU di antara National Centre of Physics, Pakistan dan INEE, UniMAP.

Isu-Isu Pelaksanaan

1. Masalah dari segi isu kewangan di mana terdapatnya kekurangan bajet kerana aktiviti-aktiviti penyelidikan yang dirancang memerlukan belanja yang agak besar.

2. Masalah dari segi tenaga kerja di mana terdapatnya kekurangan pensyarah atau penyelidik untuk melaksanakan tugasan-tugasan penyeliaan secara sepenuh masa. Sehingga Mei 2012, INEE mempunyai seorang Profesor, seorang Profesor Madya, 2 orang Pensyarah Kanan dan 3 orang Pensyarah.

3. Masalah pemantauan kemajuan pelajar pascasiswazah yang berjumlah sebanyak 18 pelajar PhD dan 39 MSC sehingga Mei 2012.

Penambahbaikan

1. Masalah dari segi isu kewangan di mana terdapatnya kekurangan bajet daripada peruntukan universiti dan peruntukan sendiri kerana aktiviti-aktiviti yang dirancang memerlukan belanja yang agak besar.

2. Memerlukan komitmen dan tenaga kerja yang boleh memberikan sepenuh perhatian terhadap kerja penyeliaan penyelidikan secara sepenuh masa.

3. Pemantauan kemajuan pelajar harus dilakukan dengan lebih efisien.

Bahagian/Unit Bertanggungjawab

Institute Nano Electronic Engineering (INEE)
Universiti Malaysia Perlis.

Senarai Penerbitan

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
1	Mohammad Nuzaihan Md. Noor	2008	*Design and process development of silicon nanowire based DNA biosensor using electron beam lithography*	*2008 International Conference on Electronic Design, ICED 2008*	Scopus
2	Prof. Dr. Uda Hashim	2008	*Mask design and fabrication of LiSFET for light sensor application*	*2008 International Conference on Electronic Design, ICED 2008*	Scopus
3	Prof. Dr. Uda Hashim	2008	*Characterization of intermetallic growth of gold ball bonds on aluminum bond pads*	*International Journal of Mechanical and Materials Engineering*	Scopus
4	Prof. Dr. Uda Hashim	2008	*Design and process development of silicon nanowire based DNA biosensor using electron beam lithography*	*2008 International Conference on Electronic Design, ICED 2008*	Scopus
5	Prof. Dr. Uda Hashim	2008	*Nanowire conductance biosensor by spacer patterning lithography technique for DNA hybridization detection: Design and fabrication method*	*Proceedings of the IEEE/CPMT International Electronics Manufacturing Technology (IEMT) Symposium*	Scopus
6	Prof. Dr. Uda Hashim	2008	*Silicon nitride gate ISFET fabrication based on four mask layers using standard MOSFET technology*	*IEEE International Conference on Semiconductor Electronics, Proceedings, ICSE*	Scopus
7	Prof. Dr. Uda Hashim	2008	*Design and fabrication of Nanowire-based conductance biosensor using spacer patterning technique*	*2008 International Conference on Electronic Design, ICED 2008*	Scopus
8	Prof. Dr. Uda Hashim	2008	*Thermal aging study at 150 Â°C and 200 Â°C: Gold ball bonds to aluminum bond pad*	*Proceedings - Electrochemical Society*	Scopus
9	Prof. Dr. Uda Hashim	2008	*A simple oxidation technique for quantum dot dimension shrinkage and tunnel barriers generation*	*Microelectronics Journal*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
10	Prof. Dr. Uda Hashim	2008	*Fabrication and characterization of Si quantum dots and SiO2 tunnel barriers grown by a controlled oxidation process*	*Nanotechnology*	Scopus
11	Prof. Madya Dr. Yarub A-Douri	2008	*Optical investigations using ultra-soft pseudopotential calculations of Si0.5Ge0.5 alloy*	*Solid State Communications*	Scopus
12	Prof. Madya Dr. Yarub A-Douri	2008	*Swift heavy ion effects in gallium nitride*	*International Journal of Nanoelectronics and Materials*	
13	Nur Hamidah Abdul Halim	2009	*Chemoenzymatic and microbial dynamic kinetic resolutions*	*Chirality*	Scopus
14	Prof. Dr. Uda Hashim	2009	*Development of nanogap automated permittivity measurement system fo DNA hybridization detection kit*	*International Conference for Technical Postgraduates 2009, TECHPOS 2009*	Scopus
15	Prof. Dr. Uda Hashim	2009	*A silicon-oxide-silicon vertically separated electrode nanogap device structure*	*AIP Conference Proceedings*	Scopus
16	Prof. Dr. Uda Hashim	2009	*CdS film thickness characterization by R.F. magnetron sputtering*	*AIP Conference Proceedings*	Scopus
17	Prof. Dr. Uda Hashim	2009	*Organic thin film transistor memories with carbon nanodots fabricated by focused ion beam chemical vapor deposition*	*AIP Conference Proceedings*	Scopus
18	Prof. Dr. Uda Hashim	2009	*Nanowire formation using electron beam lithography*	*AIP Conference Proceedings*	Scopus
19	Prof. Dr. Uda Hashim	2009	*Electrode design and planar uniformity of anodically etched small area porous silicon*	*AIP Conference Proceedings*	Scopus
20	Prof. Dr. Uda Hashim	2009	*Pressure effect on Si quantum-dot potential*	*AIP Conference Proceedings*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
21	Prof. Dr. Uda Hashim	2009	*Design of digital display system for ISFET pH sensor by using PIC microcontroller unit (MCU)*	*2009 1st Asia Symposium on Quality Electronic Design, ASQED 2009*	Scopus
22	Prof. Dr. Uda Hashim	2009	*Nano-silver microcavity enhanced UV GaN light emitter*	*International Journal of Nanomanufacturing*	Scopus
23	Prof. Dr. Uda Hashim	2009	*Statistical design of ultra-thin SiO2 for nanodevices*	*Sains Malaysiana*	Scopus
24	Prof. Madya Dr. Yarub A-Douri	2009	*Pressure effect on Si quantum-dot potential*	*AIP Conference Proceedings*	Scopus
25	Prof. Madya Dr. Yarub A-Douri	2009	*Structural, elastic, electronic, optical and thermal properties of c-SiGe2N4*	*European Physical Journal B*	Scopus
26	Prof. Madya Dr. Yarub A-Douri	2009	*FP-APW + lo calculations of the elastic properties in zinc-blende III-P compounds under pressure effects*	*Computational Materials Science*	Scopus
27	Prof. Madya Dr. Yarub A-Douri	2009	*Electronic properties of orthorhombic LiGaS2 and LiGaSe 2*	*Applied Physics A: Materials Science and Processing*	Scopus
28	Ruslinda A.Rahim	2009	*Organic thin film transistor memories with carbon nanodots fabricated by focused ion beam chemical vapor deposition*	*AIP Conference Proceedings*	Scopus
29	Prof. Dr. Uda Hashim	2009	*Defining of vinyl functional organic inorganic hybrid sol gel materials for fabrication of integrated optical circuits.*	*Accepted for Elsevier Journal of Optical Materials*	
30	Prof. Dr. Uda Hashim	2009	*Optical transmittance of organic inorganic hybrid thin film materials at NIR for photonic waveguide applications.*	*Journal of Non-Crystalline Solids*	Scopus
31	Prof. Dr. Uda Hashim	2009	*Micropatterning of organic-inorganic hybrid sol gel film with incorporation of chelated titanium alkoxides for fabrication of intergrated optical circuits*	*Journal of Sol-Gel Science and Technology*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
32	Prof. Dr. Uda Hashim	2009	*Photochromism of 6-nitro BIPs in organic nanomatrix siloxane system derived from vinylic functional triethoxysilane.*	*Journal of Nano Research*	
33	Prof. Dr. Uda Hashim	2009	*Shallow junction determination and boron profiling using electrochemical capacitance voltage (ECV).*	*Jurnal Fizik Malaysia*	
34	Prof Dr. Uda Hashim	2009	*Design of digital display for ISFET pH sensor by using PIC microcontroller*	*MASAUM Journal of Basic and Applied Sciences*	
35	Prof Dr. Uda Hashim	2009	*Design of hand-held ISFET pH meter based on embedded system*	*MASAUM Journal of Computing*	MASAUM Network
36	Prof. Dr. Uda Hashim	2009	*Investigation of the absorption coefficient, refractive index, energy band gap, and film thickness for Al0.11Ga0.89N, Al0.03Ga0.97N, and GaN by optical transmission method.*	*International Journal Nanoelectronics and Materials*	
37	Prof. Dr. Uda Hashim	2009	*Optical properties on rapid densification of SiO2:TiO2 thin film prepared by sol gel-spin coating technique*	*International Journal of Microengineering and Nanoelectronics*	
38	Prof. Dr. Uda Hashim	2009	*Design and fabrication of quantum dot single electron transistor structure using e-beam nanolithography.*	*International Journal Nanoelectronincs and Materials*	
39	Prof Dr. Uda Hashim	2009	*Alignment system in mix and match lithography for realization of nano- and micrometer structures.*	*International Journal of Microengineering and Nanoelectronics*	Serials Publications
40	Prof Dr. Uda Hashim	2009	*Application of synopsys' taurus TCAD in developing CMOS fabrication process module.*	*International Journal Nanoelectronics and Materials*	
41	Prof Dr. Uda Hashim	2009	*Between multimedia presentation and simulation: new paradigm or new approach in engineering education*	*MASAUM Journal of Computing*	MASAUM Network

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
42	Prof. Madya Dr. Yarub A-Douri	2009	*Electronic and positronic studies of zinc-blend boron phosphide BP under pressure*	*International Journal of Nanoelectronics and Materials*	
43	Prof. Madya Dr. Yarub A-Douri	2009	*Investigation of the absorption coefficient, refractive index, energy band gap, and film thickness for Al0.11Ga0.89 N, Al0.33 Ga0.97 and GaN by optical transmission method*	*International Journal of Nanoelectronics and Materials*	
44	Mohammad Nuzaihan Md. Noor	2010	*Development of carbon nanotube based biosensor fabrication for medical diagnostics application*	*2010 International Conference on Enabling Science and Nanotechnology, ESciNano 2010 - Proceedings*	Scopus
45	Mohammad Nuzaihan Md. Noor, Nurhamidah, Uda	2010	*Top-down approach: Fabrication of silicon nanowires using scanning electron microscope based electron beam lithography method and inductively coupled plasma-reactive ion etching*	*AIP Conference Proceedings*	Scopus
46	Prof. Dr. Uda Hashim	2010	*Development of carbon nanotube based biosensor fabrication for medical diagnostics application*	*2010 International Conference on Enabling Science and Nanotechnology, ESciNano 2010 - Proceedings*	Scopus
47	Prof. Dr. Uda Hashim	2010	*An ab initio study of the electronic structure and optical properties of CdS1-xTex alloys*	*Solar Energy*	Scopus
48	Prof. Dr. Uda Hashim	2010	*A study for optimum productivity yield in 0.16Î¼m mixed of wafer fabrication facility*	*IEEE International Conference on Semiconductor Electronics, Proceedings, ICSE*	Scopus
49	Prof. Dr. Uda Hashim	2010	*A review on the electrochemical sensors and biosensors composed of nanogaps as sensing material*	*Journal of Optoelectronics and Advanced Materials*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
50	Prof. Dr. Uda Hashim	2010	*Theoretical and experimental study towards fabrication of nanogap dielectric biosensor by reversed spacer lithography*	*AIP Conference Proceedings*	Scopus
51	Prof. Dr. Uda Hashim	2010	*Top-down approach: Fabrication of silicon nanowires using scanning electron microscope based electron beam lithography method and inductively coupled plasma-reactive ion etching*	*AIP Conference Proceedings*	Scopus
52	Prof. Madya Dr. Yarub A-Douri	2010	*An ab initio study of the electronic structure and optical properties of CdS1-xTex alloys*	*Solar Energy*	Scopus
53	Ruslinda A.Rahim	2010	*Aptamer-based biosensor for sensitive PDGF detection using diamond transistor*	*Biosensors and Bioelectronics*	Scopus
54	Prof. Madya Dr. Yarub A-Douri	2010	*Quantum dot potential calculation of ZnxCd1-xSe*	*Journal of Materials Science and Engineering*	
55	Prof Dr. Uda Hashim	2010	*Optical properties on rapid densification of SiO2:tiO2 thin film prepared by sol gel-spin coating technique.*	*Journal of Microengineering and Nanoelectronics*	
56	Prof Dr. Uda Hashim	2010	*Alignment system in mix and match lithography for realization of nano and micrometer structures*	*Journal of Microengineering and Nanoelectronics*	Scopus
57	Dr. Mohd Nazree Derman	2010	*Primary study on machiability of aluminium matrix composite using WEDM*	*International Journal of Engineering and Technology*	
58	Prof Dr. Uda Hashim	2011	*The alignment of carbon nano tube between Aluminum electrodes using AC dielectrophoresis method*	*2011 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2011 - Programme and Abstracts*	
59	Prof Dr. Uda Hashim	2011	*The characterization study of functionalized multi-wall carbon nanotubes purified by acid oxidation*	*2011 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2011 - Programme and Abstracts*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
60	Prof Dr. Uda Hashim	2011	*Polysilicon nanogap capacitive biosensors for the pH detection*	*2011 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2011 - Programme and Abstracts*	Scopus
61	Prof Dr. Uda Hashim	2011	*Colorimetric sensor for label free detection of porcine PCR product (ID: 18)*	*AIP Conference Proceedings*	Scopus
62	Prof Dr. Uda Hashim	2011	*ZnO nanoporous structure growth, optical and structural characterization by aqueous solution route*	*AIP Conference Proceedings*	Scopus
63	Prof Dr. Uda Hashim	2011	*Design and fabrication of nano biologically sensitive field-effect transistor (nano bio-FET) for bio-molecule detection*	*AIP Conference Proceedings*	Scopus
64	Prof Dr. Uda Hashim	2011	*Fabrication and characterization of a-Si micro and nano-gap structure for electrochemical sensor*	*AIP Conference Proceedings*	Scopus
65	Prof Dr. Uda Hashim	2011	*Analysis of Pork Adulteration in Commercial Burgers Targeting Porcine-Specific Mitochondrial Cytochrome B Gene by TaqMan Probe Real-Time Polymerase Chain Reaction*	*Food Analytical Methods*	Scopus
66	Prof Dr. Uda Hashim	2011	*Swine-Specific PCR-RFLP Assay Targeting Mitochondrial Cytochrome B Gene for Semiquantitative Detection of Pork in Commercial Meat Products*	*Food Analytical Methods*	Scopus
67	Prof Dr. Uda Hashim	2011	*Nanobiosensor for the detection and quantification of specific DNA sequences in degraded biological samples*	*IFMBE Proceedings*	Scopus
68	Prof Dr. Uda Hashim	2011	*Polysilicon nanogap formation using size expansion technique for biosensor application*	*IFMBE Proceedings*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
69	Prof Dr. Uda Hashim	2011	*Optimization of input process parameters variation on threshold voltage in 45 nm NMOS device*	*International Journal of Physical Sciences*	Scopus
70	Prof Dr. Uda Hashim	2011	*5 nm gap via conventional photolithography and pattern-size reduction technique*	*International Journal of Physical Sciences*	Scopus
71	Prof Dr. Uda Hashim	2011	*Nanobiosensor for detection and quantification of DNA sequences in degraded mixed meats*	*Journal of Nanomaterials*	Scopus
72	Prof Dr. Uda Hashim	2011	*Fabrication of lateral polysilicon gap of less than 50nm using conventional lithography*	*Journal of Nanomaterials*	Scopus
73	Prof Dr. Uda Hashim	2011	*Fabrication and characterization of gold nano-gaps for ssDNA immobilization and hybridization detection*	*Journal of New Materials for Electrochemical Systems*	Scopus
74	Prof Dr. Uda Hashim	2011	*Sensitivity of A-549 human lung cancer cells to nanoporous zinc oxide conjugated with Photofrin*	*Lasers in Medical Science*	Scopus
75	Prof Dr. Uda Hashim	2011	*Functionalised zinc oxide nanotube arrays as electrochemical sensors for the selective determination of glucose*	*Micro and Nano Letters*	Scopus
76	Prof Dr. Uda Hashim	2011	*Nanoparticle sensor for label free detection of swine DNA in mixed biological samples*	*Nanotechnology*	Scopus
77	Prof Dr. Uda Hashim	2011	*Fabrication and characterization of 50 nm silicon nano-gap structures*	*Science of Advanced Materials*	Scopus
78	Prof Dr. Uda Hashim	2011	*Probing the Ph measurement of self-alligned polysilicon nanogap capacitor*	*Advanced Materials Research*	Scopus
79	Prof Dr. Uda Hashim	2011	*Low cost diffuser based micropump using pinch actuation*	*Advanced Materials Research*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
80	Prof Dr. Uda Hashim	2011	*Species Authentication Methods in Foods and Feeds: the Present, Past, and Future of Halal Forensics*	*Food Analytical Methods*	Scopus
81	Prof Dr. Uda Hashim	2011	*Gold nanoparticle sensor for the visual detection of pork adulteration in meatball formulation*	*Journal of Nanomaterials*	Scopus
82	Prof Dr. Uda Hashim	2011	*Morphological, optical, and Raman characteristics of ZnO nanoflakes prepared via a sol-gel method*	*Physica Status Solidi (A) Applications and Materials*	Scopus
83	Prof. Uda bin Hashim	2011	*The characterization study of functionalized multi-wall carbon nanotubes purified by acid oxidation*	*2011 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2011 - Programme and Abstracts*	Scopus
84	Prof. Uda bin Hashim	2011	*Polysilicon nanogap capacitive biosensors for the pH detection*	*2011 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2011 - Programme and Abstracts*	Scopus
85	Prof. Uda bin Hashim	2011	*Colorimetric sensor for label free detection of porcine PCR product (ID: 18)*	*AIP Conference Proceedings*	Scopus
86	Prof. Uda bin Hashim	2011	*ZnO nanoporous structure growth, optical and structural characterization by aqueous solution route*	*AIP Conference Proceedings*	Scopus
87	Prof. Uda bin Hashim	2011	*Design and fabrication of nano biologically sensitive field-effect transistor (nano bio-FET) for bio-molecule detection*	*AIP Conference Proceedings*	Scopus
88	Prof. Uda bin Hashim	2011	*Fabrication and characterization of a-Si micro and nano-gap structure for electrochemical sensor*	*AIP Conference Proceedings*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
89	Prof. Uda bin Hashim	2011	*Analysis of Pork Adulteration in Commercial Burgers Targeting Porcine-Specific Mitochondrial Cytochrome B Gene by TaqMan Probe Real-Time Polymerase Chain Reaction*	*Food Analytical Methods*	Scopus
90	Prof. Uda bin Hashim	2011	*Swine-Specific PCR-RFLP Assay Targeting Mitochondrial Cytochrome B Gene for Semiquantitative Detection of Pork in Commercial Meat Products*	*Food Analytical Methods*	Scopus
91	Prof. Uda bin Hashim	2011	*Nanobiosensor for the detection and quantification of specific DNA sequences in degraded biological samples*	*IFMBE Proceedings*	Scopus
92	Prof. Uda bin Hashim	2011	*Polysilicon nanogap formation using size expansion technique for biosensor application*	*IFMBE Proceedings*	Scopus
93	Prof. Uda bin Hashim	2011	*Optimization of input process parameters variation on threshold voltage in 45 nm NMOS device*	*International Journal of Physical Sciences*	Scopus
94	Prof. Uda bin Hashim	2011	*5 nm gap via conventional photolithography and pattern-size reduction technique*	*International Journal of Physical Sciences*	Scopus
95	Prof. Uda bin Hashim	2011	*Nanobiosensor for detection and quantification of DNA sequences in degraded mixed meats*	*Journal of Nanomaterials*	Scopus
96	Prof. Uda bin Hashim	2011	*Fabrication of lateral polysilicon gap of less than 50nm using conventional lithography*	*Journal of Nanomaterials*	Scopus
97	Prof. Uda bin Hashim	2011	*Fabrication and characterization of gold nano-gaps for ssDNA immobilization and hybridization detection*	*Journal of New Materials for Electrochemical Systems*	Scopus

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98	Prof. Uda bin Hashim	2011	*Sensitivity of A-549 human lung cancer cells to nanoporous zinc oxide conjugated with Photofrin*	*Lasers in Medical Science*	Scopus
99	Prof. Uda bin Hashim	2011	*Functionalised zinc oxide nanotube arrays as electrochemical sensors for the selective determination of glucose*	*Micro and Nano Letters*	Scopus
100	Prof. Uda bin Hashim	2011	*Nanoparticle sensor for label free detection of swine DNA in mixed biological samples*	*Nanotechnology*	Scopus
101	Prof. Uda bin Hashim	2011	*Fabrication and characterization of 50 nm silicon nano-gap structures*	*Science of Advanced Materials*	Scopus
102	Dr Mohd Nazree bin Derman	2011	*Growth of Cu-Zn5 and Cu5Zn8 intermetallic compounds in the Sn-9Zn/Cu joint during liquid state aging*	*Advanced Materials Research*	Scopus
103	Dr Mohd Nazree bin Derman	2011	*Characterization of porous anodic aluminium oxide film on aluminium templates formed in anodizing process*	*Advanced Materials Research*	Scopus
104	Cik. Nurhamidah binti Abdul Halim	2011	*The alignment of carbon nano tube between Aluminum electrodes using AC dielectrophoresis method*	*2011 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2011 - Programme and Abstracts*	Scopus
105	Cik. Nurhamidah binti Abdul Halim	2011	*The characterization study of functionalized multi-wall carbon nanotubes purified by acid oxidation*	*2011 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2011 - Programme and Abstracts*	Scopus
106	P.M. Dr Yarub Al Douri	2011	*Electronic and positron properties of zinc-blende MgTe, CdTe and their alloy Mg1-xCdxTe*	*Advanced Materials Research*	Scopus
107	P.M. Dr Yarub Al Douri	2011	*Structural and electronic properties of GaNxAs1-x alloys*	*Applied Physics A: Materials Science and Processing*	Scopus
108	P.M. Dr Yarub Al Douri	2011	*Calculated optical properties of GaX (X = P, As, Sb) under hydrostatic pressure*	*Applied Physics A: Materials Science and Processing*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
109	P.M. Dr Yarub Al Douri	2011	*New optical features to enhance solar cell performance based on porous silicon surfaces*	*Applied Surface Science*	Scopus
110	P.M. Dr Yarub Al Douri	2011	*Investigated optical and elastic properties of Porous silicon. Theoretical study*	*Materials and Design*	Scopus
111	P.M. Dr Yarub Al Douri	2011	*Nano and micro porous GaN characterization using image processing method*	*Optik*	Scopus
112	P.M. Dr Yarub Al Douri	2011	*Investigated optical studies of Si quantum dot*	*Solar Energy*	Scopus
113	P.M. Dr Yarub Al Douri	2011	*Stiffness properties of porous silicon nanowires fabricated by electrochemical and laser-induced etching*	*Superlattices and Microstructures*	Scopus
114	Prof. Uda bin Hashim	2012	*Probing the Ph measurement of self-alligned polysilicon nanogap capacitor*	*Advanced Materials Research*	Scopus
115	Prof. Uda bin Hashim	2012	*Low cost diffuser based micropump using pinch actuation*	*Advanced Materials Research*	Scopus
116	Prof. Uda bin Hashim	2012	*Nano Lab-on-Chip Systems for biomedical and environmental monitoring*	*African Journal of Biotechnology*	Scopus
117	Prof. Uda bin Hashim	2012	*Effect of different seed solutions on the morphology and electro-optical properties of ZnO Nanorods*	*Journal of Nanomaterials*	Scopus
118	Prof. Uda bin Hashim	2012	*Structural and impedance spectroscopy study of Al-doped ZnO nanorods grown by sol-gel method*	*Emerald Microelectronics International*	Scopus
119	Prof. Uda bin Hashim	2012	*Resist Uniformity Evaluation through Swing Curve phenomena.*	*Advances in Natural and Applied Sciences*	Scopus
120	Prof. Uda bin Hashim	2012	*Development of Swine-Specific DNA Markers for Biosensor-Based Halal Authentication*	*Genetics and Molecular Research*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
121	Prof. Uda bin Hashim	2012	*Design and fabrication of single atom size polysilicon Nanowire*	*Journal of Applied Sciences Research*	Scopus
122	Prof. Uda bin Hashim	2012	*Design and fabrication of Passive Fluid Driven Microchamber for Fast Reaction Assays in Nano lab-on-chip Domain*	*Journal of Applied Sciences Research*	Scopus
123	Prof. Uda bin Hashim	2012	*Disposable Polymeric Electromagnetic Actuated Micropump*	*Advance Science Letters*	Scopus
124	Prof. Uda bin Hashim	2012	*Dynamic Audio-Visual Client Recognition modeling*	*International Journal of Computer Science and Security (IJCSS)*	Scopus
125	Prof. Uda bin Hashim	2012	*Probe Real-Time Polymerase Chain Reaction Assay Targeting A Short-Segment of Mitochondrial Cytochrome B Gene for The Determination of Pork Adulteration in Chicken Nuggets*	*Journal of Food and Nutrition Research.*	Scopus
126	Prof. Uda bin Hashim	2012	*Characterization and Identification of Soft Rot Bacterial Pathogens in Bangladeshi Potatoes*	*African Journal of Microbiology Research*	Scopus
127	Prof. Uda bin Hashim	2012	*Isolation, Characterization, and Identification of Biological Control Agent for Potato Soft Rot in Bangladesh*	*The Scientific World Journal.*	Scopus
128	Prof. Uda bin Hashim	2012	*Nanobiosensor for the detection and quantification of pork adulteration in meatball formulation*	*Journal of Experimental Nanoscience*	Scopus
129	Prof. Uda bin Hashim	2012	*Potentiometric uric acid sensor based on ZnO nanoflakes with immobilized uricase.*	*Sensors*	Scopus
130	Prof. Uda bin Hashim	2012	*Analysis of Pork Adulteration in Commercial Meatballs Targeting Porcine-Specific Mitochondrial Cytochrome B Gene by TaqMan Probe Real-Time Polymerase Chain Reaction*	*Elsevier Meat Science Journal*	Scopus

BIL	NAMA STAF AKADEMIK	TAHUN PENERBITAN	TAJUK PENERBITAN	NAMA JURNAL	PANGKALAN DATA
131	Prof. Uda bin Hashim	2012	*Polysilicon Nanogap Fabrication Using a Thermal Oxidation Process*	*Emerald Microelectronics International*	Scopus
132	Prof. Uda bin Hashim	2012	*Fabrication of Amorphous Silicon Microgap Structure for Energy Saving Devices*	*Sains Malaysiana*	Scopus
133	Prof. Uda bin Hashim	2012	*Further optical properties of CdX (X=S,Te) compounds under quantum dot diameter effect: ab initio method*	*Renewable Energy*	Scopus
134	Prof. Uda bin Hashim	2012	*Shallow Junction Formation: A Simulation Based Study of Thermal Diffusion by Spinon-dopants technique.*	*Journal of Applied Sciences Research*	Scopus
135	Prof. Uda bin Hashim	2012	*Species Authentication Methods in Foods and Feeds: The Present, Past, and Future of Halal Forensics*	*Food Analytical Methods*	Scopus
136	Prof. Uda bin Hashim	2012	*Micro/Nanoscale Biosensing in Microfluidics: Selection of Polymers and Microstructures.*	*Journal of Applied Sciences Research*	Scopus
137	Prof. Uda bin Hashim	2012	*Real-time polymerase chain reaction for the determination of pork adulteration in meat nuggets*	*Journal of Food and Nutrition Research.*	Scopus
138	Prof. Uda bin Hashim	2012	*Characterization, analysis and Optical properties of nanostructure ZnO using the sol-gel method*	*Micro & Nano Letters*	Scopus
139	Prof. Uda bin Hashim	2012	*Nanobioprobes for the determination of pork adulteration in burger formulations*	*Journal of Nanomaterials*	Scopus
140	Prof. Uda bin Hashim	2012	*Low Cost Diffuser Based Micropump Using Pinch Actuation*	*Advanced Materials Research*	Scopus
141	Prof. Uda bin Hashim	2012	*Probing the Ph Measurement of Self-Alligned Polysilicon NanogapCapacitor*	*Advanced Materials Research*	Scopus

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142	Prof. Uda bin Hashim	2012	*Gold nanoparticle sensor for the visual detection of pork adulteration in meatball formulation*	*Journal of Nanomaterials*	Scopus
143	Prof. Uda bin Hashim	2012	*Species Authentication Methods in Foods and Feeds: The Present, Past, and Future of Halal Forensics*	*Journal Food Analytical Methods*	Scopus
144	Prof. Uda bin Hashim	2012	*Morphological, optical, and Raman characteristics of ZnO nanoflakes prepared via a sol–gel method*	*Physica Status Solidi (A) Applications and Materials*	Scopus
145	Prof. Uda bin Hashim	2012	*Formation of Polysilicon Nanowires as Transducer for Biosensor using Plasma Trimming Process" prepared*	*IEEE-EMBS International Conference on Biomedical Engineering and Sciences*	
146	Prof. Uda bin Hashim	2012	*Low Cost Fabrication of Micromixer and Microchamber for Microfluidic Lab-On-Chip"*	*IEEE-EMBS International Conference on Biomedical Engineering and Sciences*	
147	Prof. Uda bin Hashim	2012	*Fabrication Techniques of Electrical Nanogap biosensor*	*8th International Conference on Emerging Technologies (ICET2012)*	
148	Prof. Uda bin Hashim	2012	*Reliability Study of Cu and Au wires used in Flash Memory Fine line BGA Package*	*IEEE COMPONENTS, PACKAGING, & MANUFACTURING TECHNOLOGY SOCIETY (IEEE CPMT-Taipei).*	
149	Prof. Uda bin Hashim	2012	*Reliability Challenges of Cu Wire Deployment in Flash Memory Packaging*	*IEEE COMPONENTS, PACKAGING, & MANUFACTURING TECHNOLOGY SOCIETY (IEEE CPMT-Taipei).*	
150	Prof. Uda bin Hashim	2012	*Numerical Simulation of Microfluidic Devices*	*IEEE Xplore*	
151	Prof. Uda bin Hashim	2012	*Recent Advancement In Micro To Nanogap Biosensor,*	*ICSE2012*	
152	Prof. Uda bin Hashim	2012	*Growth of ZnO nanorods and effect of seed layer on interdigitated electrode (IDE) impedance*	*International conference Nanotech 2012*	

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153	Prof. Uda bin Hashim	2012	*Synthesis and electro-optical characterization of n-ZnO nanoflakes/p-GaN heterojunction light emitting diode,*	*International conference Nanotech 2012*	
154	Prof. Uda bin Hashim	2012	*Optical and electrochemical sensing characterization of ZnO nanoflakes.*	*International conference Nanotech 2012*	
155	Prof. Uda bin Hashim	2012	*Structural Properties of Nanocrystalline CdS Thin Films Using Sol-Gel Method for Solar Cells Applications*	*The Asian International Conference on Materials, Minerals, and Polymer 2012 (MAMIP2012).*	
156	Prof. Uda bin Hashim	2012	*Development of Polysilicon Nanowire Lab-On-Chip: from Nano Structure to Systems for Life Science Applications*	*Proceeding 2nd Annual International Conference on Advances in Biotechnology (BioTech 2012).*	
157	Prof. Uda bin Hashim	2012	*Fabrication and Characterization of Nano Lab-On-Chip for Bio Medical Diagnostics: From nano Structure to Systems*	*Proceeding Book. International Scientific Spring (ISS-2012).*	
158	Prof. Uda bin Hashim	2012	*Study of ZnO Thin Film on Silicon Substrate by Sol-Gel Spin Coating Method for Bio-Medical Application.*	*International Conference on Biomedical Engineering (ICOBE 2012)*	
159	Prof. Uda bin Hashim	2012	*Microstructure and Polymer Choice in Microfluidic Interfacing for Nanoscale Biosensing*	*International Conference on Biomedical Engineering (ICOBE 2012)*	
160	Prof. Uda bin Hashim	2012	*Designing an Artificial Neural Network Model for The Prediction of Kidney Problems Sympton through Patient's Metal Behavior for Pre-Clinical Medical Diagnostic*	*International Conference on Biomedical Engineering (ICOBE 2012)*	
161	Prof. Uda bin Hashim	2012	*Photodynamic Damage in Liver Carcinoma HepG2 Cells*	*International Conference on Biomedical Engineering (ICOBE 2012)*	

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162	Prof. Uda bin Hashim	2012	*Development of Highly Selective Electronic Nose Using Molecular Imprinted Polymer (MIP) for Recognition of Fruit ripeness*	*Proceeding International Conference on Man-Machine Systems (ICOMMS 2012)*	
163	Prof. Uda bin Hashim	2012	*Recognition of Limonene Volatile Using Interdigitated Electrode MolecularImprinted Polymer Sensor.*	*Proceeding - 3rd International Conference on Intelligent Systems Modelling and Simulation, ISMS 2012*	
164	Prof. Uda bin Hashim	2012	*Effect of Sn doping on crystal structure and optical properties of ZnO thin films.*	*14th IEEE International Multitopic Conference 2011, Pakistan*	
165	Prof. Uda bin Hashim	2012	*Mask Design for the reproducible fabrication and reliable pattern transfer for polysilicon Nanowire.*	*International Conference on Enabling Science and nanotechnology 2012 (ESciNan0 2012).*	
166	Prof. Uda bin Hashim	2012	*Fabrication of PDMS multi-layer microstructure: The Electroosmosis mechanism in fluidics for life sciences*	*International Conference on Enabling Science and nanotechnology 2012 (ESciNan0 2012).*	
167	P.M. Dr Yarub Al Douri	2012	*Density functional study of optical properties of beryllium chalcogenides compounds in nickel arsenide B8 structure*	*Physica B: Condensed Matter*	Scopus
168	P.M. Dr Yarub Al Douri	2012	*Structural and electronic properties of zinc blende B xAl 1-xN yP 1-y quaternary alloys via rst-principle calculations*	*Physica B: Condensed Matter*	Scopus