CURRICULUM VITAE

Personal Details
Butir-butir Peribadi

Full Name	Yazid Bin Yaakob	Title	*Dr.*	
MyKad No.	861028-91-5013	Race	Malay	
Citizenship	Malaysia	Gender	Male	
Designation	Senior Lecturer	Date of Birth	28 /10/1986	
Department / Faculty	Department of Physics Faculty of Science Universiti Putra Malaysia 43400 UPM Serdang, Selangor.			

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URL	https://scholar.google.com/citations?user=o0SIdM8AAAAJ&hl=en https://www.researchgate.net/profile/Yazid_Yaakob

Academic Qualification
Kelayakan Akademik

Certificate / Qualification *Nama Sijil / Kelayakan*	**School / Institution** *Sekolah / Institusi*	Year *Tahun*	Area of Specialization *Bidang Pengkhususan*
Bachelor of Engineering	Nagoya Institute of Technology	2010	Electric and Electronic Engineering
Master of Engineering	Nagoya Institute of Technology	2012	Engineering Physics, Electronics and Mechanics
Doctor of Engineering	Nagoya Institute of Technology	2015	Frontier Materials (Carbon nanomaterials)

Language Proficiency
Kemahiran Bahasa

Language	*Poor (1)*	*Moderate (2)*	*Good (3)*	*Very good (4)*	*Excellent (5)*
Bahasa Melayu					√
English				√	
Japanese			√		

Previous Employment
Pekerjaan Lepas

Employer	Designation	Department	Start Date	Date Ended
Universiti Putra Malaysia	Tutor	Dept. of Physics	01.07.2011	07.04.2016
Nagoya Institute of Technology	Postdoctoral Researcher	Frontier Materials	01-06-2015	31-03-2016
Universiti Putra Malaysia	Senior Lecturer	Dept. of Physics	08.04.2016	On-going

Professional Qualification / Membership / Affiliation

Kelayakan Profesional / Keahlian / Gabungan

- Malaysian Solid State Science and Technology Society (MASS), Life Member
- Microscopy Society Malaysia (MSM), Life Member
- Malaysian Tribology Society (MyTribos), Bureau (2020-2021), Life Member
- NITech(Nagoya Institute of Technology) Malaysia Alumni Association, Bureau (2020-2021), Life Member
- Japan Society of Applied Physics (JSAP), Member (2021-2022)

Scientific Experience and Specialization

Pengalaman Saintifik dan Pengkhususan

Organization	Position	Start Date	End Date	Expertise
Tanemura Laboratory, Nagoya Institute of Technology	Post-doctoral Researcher	04-2015	03-2016	In-situ Transmission Electron Microscopy
Microscopy Laboratory, Institute of BioScience, UPM.	Research Associate (INTERIM)	08-2018	On-going	Transmission Electron Microscopy (HR-TEM)
Advanced AFM Laboratory, Faculty of Science, UPM.	Technical Manager	08-2017	12-2020	Atomic Force Microscopy (AFM)

Research related technical experiences

Pengalaman teknikal berkaitan penyelidikan

1. Thin film fabrication techniques via pulse laser deposition
   i. Fabrication of multilayer thin film for spin-filtering tunnel junction.
   ii. Fabrication of single $CoFe_2O_4$ thin films for perpendicular magnetic anisotropy layer.

2. Nanostructured materials synthesis techniques.
   i. Materials surface structure decorations, carbon nanofibers via using ion beam irradiation
   ii. Carbon nanotubes, graphene via chemical vapor deposition (CVD)

3. Characterization techniques of nanomaterials
   i. Hand on skills in transmission and scanning electron microscopy (TEM, SEM).
   ii. Conversion electron mössbauer spectroscopy (CEMS) and Superconducting Quantum Interference Devices (SQUIDs) for magnetic properties analysis.
   iii. X-Ray diffraction (XRD) study and analysis.
   iv. Atomic Force Microscopy (AFM) for surface analysis

Final Year Project	Fabrication and Optimization of Ferromagnetic Oxide Thin Films for Spin Filter Devices and Magnetic Recording Materials
Master Project	Fabrication and Optimization of $CoFe_2O_4$ Thin Films towards Perpendicular Magnetic Recording Materials.
PhD Project	Ion-induced Composite Carbon Nanofibers : Synthesis and Investigation of Structural and Electrical Behavior.

Area of Interests

Bidang diminati

- Synthesis and application of carbon-based nanostructured materials
- Ion irradiation technique
- Chemical vapor deposition technique
- Electron microscopy
- Surface Science
- Composites

Research Project *Projek Penyelidikan*					**PI :** RM 327,900 **Co-I :** RM 7,173,800
No.	*Project Title*	*Role*	*Year*	*Source of fund*	*Status*
1	Surface properties enhancement of in situ CNTs incorporated anodic alumina nanocomposite film for protective coating application	Project Leader	2022-2025	Fundamental Research Grant Scheme (FRGS-5500572; RM 164,700)	On-going
2	Enhancement of Thermal and Electrical Properties in Carbon Nanotubes Incorporated Zinc Silicate Ceramic Composites via Colloidal Method	Project Leader	2022-2024	GP-IPS - GERAN PUTRA INISIATIF SISWAZAH (IPS-9724300; RM 20,000)	On-going
3	The Development of Palm Oil Mill Effluent (POME) Treatment System for Sustainalbe Energy Production and Recovery Based on Material Innovation	Member	2023-2028	The Science and Technology Research Partnership for Sustainable Developmentt (SATREPS-UTM; 6,994,800)	On-going
4	Microwave-assisted Synthesis of Transition Metals/Carbon Catalysts for Hydrogenation of 5-hydroxymethylfurfural to 2,5 dimethylfuran	Member	2020-2022	UPM Geran Putra (IPM-9683400; RM 49,000)	On-going
5	Thermal treatment approach with Capping agent for synthesis of Bulk Rare Earth Based High Temperature Superconductors for Superconducting Magnet Application	Member	2019-2022	Fundamental Research Grant Scheme (FRGS-5540282; RM 130,000)	On-going
6	Enhancement of thermal diffusivity in carbon nanotubes (CNTs) incorporated willemite nanocomposites for light emitting diode (LED) application	Project Leader	2019-2022	Fundamental Research Grant Scheme (FRGS-5530132; RM 83,200)	On- going
7	Utilization of waste latex sludge as a precursor for carbon nanotubes growth via chemical vapor deposition	Project Leader	2017-2020	UPM Geran Putra (IPM-9543800; RM 60,000)	Completed

List of publications *Senarai Penerbitan*		**H-Index : 13** (Paper: 62, Citation: 512) Scopus ID : 55509330400
Journal		**Year**
[1]	Nur Afieqah Md.Ghazazi, Shahira Liza, Jun Ishimatsu, Noor Ayuma Mat Tahir, Nur Aszreen Zulkifli**, Yazid Yaakob,** Effect of pulse current on surface properties of aluminum oxide coating containing graphite, **Surface and Interface Analysis, 1-14 (2023).**	**2023**
[2]	Mohammad Ayman Abuallan, Mohd Hafiz Mohd Zaid, Khamirul Amin Matori, **Yazid Yaakob,** Abdul Rahman Sarmani, Wei Mun Cheong, Zhi Wei Loh, Evaluation study on experimental and theoretical simulation elastic properties analysis of neodymium-doped magnesium borotellurite glasses, Materials Today Communications, **106599 (2023).**	
[3]	SNF Zalamin, MH M Zaid, KA Matori, MKA Karim, **Y Yaakob,** WM Cheong, ZW Loh, MI Sayyed, **Progress in Nuclear Energy, 161, 104752 (2023)**.	
[4]	Noor Ayuma Mat Tahir, Shahira Liza Kamis, **Yazid Yaakob,** Nur Afieqah Md Ghazazi, Surface Refinement of Aluminium Oxide by Carbon-Based Reinforcement, **Journal of Advanced Research in Applied Mechanics, 105, 1, 28-40 (2023)**.	
[5]	Kar Fei Chan, Mohd Hafiz Mohd Zaid, Md Shuhazlly Mamat, Masaki Tanemura, Shahira Liza, Hidetoshi Miyazaki, Takahiro Maruyama, Katsuya Sako, Kamal Prasad Sharma, Nurul Huda Osman, Nor Kamilah Sa'at, Hazeem Ikhwan Mazlan, **Yazid Yaakob,** Experimental investigation on thermal properties of carbon nanotubes/zinc silicate composites prepared by powder processing, **Diamond and Related Materials, 134,109772 (2023).**	
[6]	Wei Ming Lin, Takumi Yoshida, Giri Suresh, Vikaskumar Pradeepkumar Gupta, Shinsuke Ozeki, Kento Oyama, Tatsuya Akiyama, **Yazid Yaakob,** Toru Asaka, Yang Yong, Hidetoshi Miyazaki, Noriyuki Sonoyama, Masaki Tanemura, Controllable fabrication of Au-nanoprotrusion arrays as a platform for the materials design and	

	characterization, **Applied Surface Science, 613, 156011 (2023).**	
[7]	Nur Adilah Mohd Rawian, Hiroki Akasaka, Shahira Liza, Kanao Fukuda, Nur Aszreen Zulkifli, Noor Ayuma Mat Tahir, **Yazid Yaakob, Diamond and Related Materials, 132, 109674 (2023).**	
[8]	Mohamad Saufi Rosmi, **Yazid Yaakob**, Mohd Zamri Mohd Yusop, Illyas Md Isa, Siti Munirah Sidik, Suriani Abu Bakar, Tanemura Masaki, INVESTIGATING THE STRUCTURAL TRANSFORMATION OF INDIVIDUAL Au-INCORPORATED CARBON NANOFIBER INTERCONNECT, **Malaysian Journal of Microscopy, 18, 2, 215-224 (2022).**	**2022**
[9]	Zhi Wei Loh, Mohd Hafiz Mohd Zaid, Mohd Mustafa Awang Kechik, Yap Wing Fen, **Yazid Yaakob,** Mohd Zul Hilmi Mayzan, Shahira Liza, Wei Mun Cheong, Effect of CaF2/P2O5 ratios on physical and mechanical properties of novel CaO–Na2O–B2O3–SiO2 glasses, **Journal of Physics and Chemistry of Solids, 171, 110991 (2022)**.	
[10]	Zhi Wei Loh, Wei Mun Cheong, Mohd Hafiz Mohd Zaid, Mohd Mustafa Awang Kechik, Yap Wing Fen, Mohd Zul Hilmi Mayzan, **Yazid Yaakob,** Shahira Liza, Development of fluoride-containing glass–ceramics using eggshells waste as calcium source, **Applied Physics A**, **128,10,893 (2022)**.	
[11]	**Yazid Yaakob**, Wei Ming Lin, Mohamad Saufi Rosmi, Mohd Zamri Mohd Yusop, Subash Sharma, Kar Fei Chan, Toru Asaka, Masaki Tanemura, Study of structural and electrical behavior of silicon-carbon nanocomposites via in situ transmission electron microscopy, **Materials Today Communications 32, 104081 (2022)**.	
[12]	Tatsuya Akiyama, Shuhei Nakanishi, **Yazid Yaakob**, Bhagyashri Todankar, Vikaskumar Pradeepkumar Gupta, Toru Asaka, Yosuke Ishii, Shinji Kawasaki, Masaki Tanemura, One-step and room-temperature fabrication of carbon nanocomposites including Ni nanoparticles for supercapacitor electrodes**, RSC Advances 12 (33), 21318-21331 (2022).**	
[13]	Bhagyashri Todankar, **Yazid Yaakob**, Golap Kalita, Masaki Tanemura, Electrochemical Reactivity Investigation of Urea Oxidation Reaction in Nichrome/Nitrogen Doped Carbon Nanofibers Synthesized by CVD Method, **ChemistrySelect 7 (26), e202201386 (2022)**.	
[14]	Nur Hidayah Shahemi, Shahira Liza, Yoshinori Sawae, Takehiro Morita, Hironori Shinmori, **Yazid Yaakob**, Effects of surface wettability and thermal conductivity on the wear performance of ultrahigh molecular weight polyethylene/graphite and ultrahigh molecular weight polyethylene/graphene oxide composites, **Polymers for Advanced Technologies 33 (6), 1916-1932 (2022).**	
[15]	Noor Ayuma Mat Tahir, Shahira Liza, Kanao Fukuda, Syazwani Mohamad, Mohd Zakir Fathi Hashimi, Mohd Saifulnizam Mohd Yunus, **Yazid Yaakob**, Intan Sharhida Othman, Surface and Tribological Properties of Oxide Films on Aluminium Alloy through Fly-Ash Reinforcement, **Coatings 12 (2), 256 (2022)**.	
[16]	K.F. Chan, A.K. Ranade, P. Desai, M.A. Hazan, N.F.I. Azman, S. Shaharifin, G. Kalita, M.S. Mamat, M. Tanemura, **Y. Yaakob**, Upcycling the barbeque grease into carbon nanomaterials, **Carbon Trends, 6, 100143 (2022)**.	
[17]	K. F. Chan, N. A. M. Maznam, M. A. Hazan, R. N. A. Ahmad, A. S. Sa'ari, N. F. I. Azman, M. S. Mamat, M. A. A. Rahman, M. Tanemura, **Y. Yaakob**, Multi-walled carbon nanotubes growth by chemical vapour deposition: Effect of precursor flowing path and catalyst size, **Carbon Trends, 6, 100142 (2022)**.	
[18]	S. H. Jaafar, M. H. M. Zaid, K. A. Matori, **Y. Yaakob**, H. M. Mustapha, Synthesis of Eu3+-Doped ZnO/Zn2SiO4 Composite Phosphor for Potent Optoelectronic Applications, **Brazilian Journal of Physics, 52, 6 (2022)**. (IF= 1.326)	
[19]	S. Kondo, D. Yamamoto, K. O. Sharma, **Y. Yaakob**, T. Saida, S. Naritsuka, M. Tanemura, T. Maruyama, Vertically aligned growth of small-diameter single-walled carbon nanotubes on flexible stainless steels by alcohol catalytic chemical vapor deposition with Ir catalyst on alumina buffer layer, **Jpn. J. Appl. Phys., 60, 128005 (2021)**. (IF= 1.48)	**2021**
[20]	B. Todankar, P. Desai, A. K. Ranade, **Y. Yaakob**, T. Asaka, G. Kalita, M. Tanemura, Influence on Electrochemical Reactivity and Synthesis of Stainless Steel/Nitrogen-Doped Carbon Nanofibers, **J. Phys. Chem. C, 125,45 (2021)**. (IF=4.126)	
[21]	M. H. M. Zaid, K. A. Matori, **Y. Yaakob**, I. M. Alibe, Simple thermal treatment approach for the synthesis of α-Zn2SiO4 nanoparticles, **Optics & Laser Technology, 140, 106991 (2021)**. (IF=3.867)	
[22]	N. H. Shahemi, S. Liza, Y. Sawae, T. Morita, K. Fukuda, **Y. Yaakob**,The relations between wear behavior and basic material properties of graphene‐based materials reinforced ultrahigh molecular weight polyethylene, **Polymers for Advanced Technologies, 32, 11 (2021)**. (IF=3.665)	
[23]	N.F.I. Azman, S.A. Zuhairi, C.T. Ratnam, **Y. Yaakob**, M.S. Mamat, Incorporation of Multiwalled Carbon Nanotubes and Graphene Nanoplatelets on the Morphology and Properties of Polyethylene Terephthalate Nanocomposites, **J. Nanomater. 2021 (2021) 1–9**. (IF=2.986)	

[24]	M.A. Hazan, K.F. Chan, K.A. Jofri, M.S. Mamat, N.A. Endot, S. Liza, I. Ismail, M.Z. Hussein, M. Tanemura, **Y. Yaakob**, Waste NR Latex Based-Precursors as Carbon Source for CNTs Eco-Fabrications, **Polymers (Basel). 13 (2021) 3409**. (IF=4.329)	
[25]	K.F. Chan, M.H. Mohd Zaid, S. Liza, M.S. Mamat, K.A. Matori, N.A. Endot, M. Tanemura, **Y. Yaakob**, Tuning the optical bandgap of multi-walled carbon nanotube-modified zinc silicate glass-ceramic composites, **Ceram. Int. 47 (2021) 20108–20116.** (IF=4.527)	
[26]	K.F. Chan, M.H.M. Zaid, M.S. Mamat, S. Liza, M. Tanemura, **Y. Yaakob**, Recent Developments in Carbon Nanotubes-Reinforced Ceramic Matrix Composites: A Review on Dispersion and Densification Techniques, **Crystals. 11 (2021) 457.** (IF=2.589)	
[27]	Syazwani Mohamad, Shahira Liza, **Yazid Yaakob**.; Strengthening of the mechanical and tribological properties of composite oxide film formed on aluminum alloy with the addition of graphite, **Surface and Coatings Technology, 403, 126435 (2020).** (IF= 3.784)	**2020**
[28]	Mohammad Adib Hazan, Syazwani Mohamad, Mohamad Amin Hamid, Shahira Liza, Md Shuhazlly Mamat, Kar Fei Chan, **Yazid Yaakob**.; Effect of Reaction Temperature on the Growth of Carbon Nanotubes from Waste Natural Rubber Glove. **Pertanika J. Sci. & Technol. 28 (S2): 217 - 230 (2020)**	
[29]	Adil Khan, Mukhtaj Khan, Sheeraz Ahmed, Nadeem Iqbal, Mohd Amiruddin Abd Rahman, Muhammad Khalis Abdul Karim, Mohd Shafie Mustafa, **Yazid Yaakob**.; EH-IRSP: Energy Harvesting Based Intelligent Relay Selection Protocol, **IEEE Access,in-press (2020).** (IF=3.745)	
[30]	M.S. Mamat, Gavin S Walker, David M Grant, **Y. Yaakob**, N. A. Shaharun.; Effect of the reaction temperature and ethene/hydrogen composition on the nanostructured carbon produced by CVD using supported NiFe2O4 as a catalyst, **Results in Physics, 19, 103497.(2020)** (IF=4.019)	
[31]	Balaram Paudel Jaisi, Subash Sharma, Sahar Elnobi, Amr Attia Abuelwafa, Yazid Yaakob, Golap Kalita, Masaki Tanemura.; Graphitization of Gallium‐Incorporated Carbon Nanofibers and Cones: In Situ and Ex Situ Transmission Electron Microscopy Studies., **physica status solidi (b), 257 (12) 2000309.(2020).** (IF= 1.481)	
[32]	Kar Fei Chan, Mohd Hafiz Mohd Zaid, Shahira Liza, Khamirul Amin Matori, Md Shuhazlly Mamat, Mohammad Adib Hazan, **Yazid Yaakob**.; Effect of CNT on microstructural properties of Zn2SiO4/CNT composite via dry powder processing. **Materials Research Express, 7 (10) 105601.(2020).** (IF= 1.929)	
[33]	Ahmad Fahad Ahmad, Sidek Ab Aziz, **Yazid Yaakob**, Ammar Abd Ali, Nour Attallah Issa.; Preparation and Characterization of Semi-Flexible Substrates from Natural Fiber/Nickel Oxide/Polycaprolactone Composite for Microstrip Patch Antenna Circuitries for Microwave Applications. **Polymers, 12 (10) 2400.(2020).** (IF=3.426)	
[34]	Rabiatul Adawiyah Abdul Wahab, Mohd Hafiz Mohd Zaid, Sidek Hj Aziz, Khamirul Amin Matori, Yap Wing Fen, **Yazid Yaakob**.; Effects of Sintering Temperature Variation on Synthesis of Glass-Ceramic Phosphor Using Rice Husk Ash as Silica Source. **Materials, 13 (23) 5413. (2020).** (IF= 3.057)	
[35]	Ibrahim Olanrewaju Alade, Mohd Amiruddin Abd Rahman, Zulkifly Abbas, **Yazid Yaakob**, Tawfik A Saleh; Application of support vector regression and artificial neural network for prediction of specific heat capacity of aqueous nanofluids of copper oxide, **Solar Energy, 197, 485-490 (2020)**. (IF=4.608)	
[36]	M. S. Amir Faiz, C. A. Che Azurahanim, **Y. Yazid**, A. B. Suriani, M. J. Siti Nurul Ain; Preparation and characterization of graphene oxide from tea waste and it's photocatalytic application of TiO2/graphene nanocomposite, **Materials Research Express, 7 (1) 015613 (2020).** (IF=1.41)	
[37]	Muhammad Faris Syazwan Mohd Shofri, Mohd Hafiz Mohd Zaid, Khamirul Amin Matori, Wing Fen Yap, **Yazid Yaakob**, Suhail Huzaifa Jaafar, Siti Aisyah Abdul Wahab, Yuji Iwamoto; Phase Transformation, Optical and Emission Performance of Zinc Silicate Glass-Ceramics Phosphor Derived from the ZnO–B2O3–SLS Glass System, **Applied Sciences,10 (14) 4940 (2020)**. (IF=2.474)	
[38]	Mohd Adib Hazan, Mohd Shuhazlly Mamat, Rafiuz Zaman Haroun, Shahira Liza Kamis, Ismayadi Ismail, Mohd Zobir Hussei, Subash Sharma, Masaki Tanemura and **Yazid Yaakob;** Carbon Nanostructures Grown from Waste Latex via Chemical Vapor Deposition, **Malaysian Journal of Microscopy Vol.15 (2019), Page 1-9.**	**2019**
[39]	Mohd Hafiz Mohd Zaid, Khamirul Amin Matori, Sidek Hj Ab Aziz, Halimah Mohamed Kamari, Yap Wing Fen, **Yazid Yaakob,** Nor Kamilah Sa'at, Ali Gürol, Erdem Şakar; *Effect of heat treatment temperature to the crystal growth and optical performance of Mn3O4 doped α-Zn2SiO4 based glass-ceramics.*, **Results in Physics, 15, 102569 (2019).**(IF= 3.28)	
[40]	Ibrahim Mustapha Alibe, Khamirul Amin Matori, Hj Ab Aziz Sidek, **Yazid Yaakob,** Umer Rashid, Ali Mustapha Alibe, Mohd Hafiz Mohd Zaid, Salisu Nasir, Maharaz Mohammed Nasir; *Effects of polyvinylpyrrolidone on structural and optical properties of willemite semiconductor nanoparticles by polymer thermal treatment method*, **Journal of Thermal Analysis and Calorimetry, 136 (6) 2249-2268 (2019).**(IF= 2.471)	

[41]	Ibrahim Olanrewaju Alade, Mohd Amiruddin Abd Rahman, Aliyu Bagudu, Zulkifly Abbas, **Yazid Yaakob,** Tawfik A Saleh**;** *Development of a predictive model for estimating the specific heat capacity of metallic oxides/ethylene glycol-based nanofluids using support vector regression*.,**Heliyon 5 (6) e01882 (2019).**(IF=1.65)	
[42]	Mohamad Amin Bin Hamid, Chan Kar Tim, **Yazid Bin Yaakob,** Mohammad Adib Bin Hazan; Structural, electronic and transport properties of silicene on graphene substrate., **Materials Research Express 6 (5) 055803 (2019).**(IF=1.41)	
[43]	Ibrahim Mustapha Alibe, Khamirul Amin Matori, Sidek Hj Abdul Aziz, **Yazid Yaakob**, Umer Rashid, Ali Mustapha Alibe, Mohd Hafiz Mohd Zaid and Mohammad Zulhasif Ahmad Khiri; *Effects of Calcination Holding Time on Properties of Wide Band Gap Willemite Semiconductor Nanoparticles by the Polymer Thermal Treatment Method.,* **Molecules, (2018) 23(4). pii: E873.**(IF= 3.060)	
[44]	Ibrahim Mustapha Alibe, Khamirul Amin Matori, Haj Abdul Aziz Sidek, **Yakoob Yazid**, Elias Saion, Ali Mustapha Alibe, Mohd Hafiz Mohd Zaid, Engku Abd Ghapur Engku Ali and Tasiu Zangina; The influence of calcination temperature on structural and optical properties of ZnO-SiO2 nanocomposite by simple thermal treatment route., **Arch. Metall. Mater. 63 (2018), 2, 539-545.** (IF= 0.697)	**2018**
[45]	Subash Sharma, Mohamad Saufi Rosmi**, Yazid Yaakob**, Mohd Zamri Mohd Yusop, Golap Kalita, Masashi Kitazawa, and Masaki Tanemura; *In situ TEM synthesis of Y-junction carbon nanotube by electromigration induced soldering,* **Carbon, 132, (2018) 165e171.** (IF= 7.43)	
[46]	Riteshkumar Vishwakarma, Mohamad Saufi Rosmi, Kazunari Takahashi, Yuji Wakamatsu, **Yazid Yaakob**, Mona Ibrahim Araby, Golap Kalita, Masashi Kitazawa and Masaki Tanemura; Transfer free graphene growth on SiO_2 substrate at 250°C, **Scientific Reports, 7, (2017) 43756.** (IF=4.259)	**2017**
[47]	Subash Sharma, Kamal Sharma, Mohamad Saufi Rosmi, **Yazid Yaakob**, Mona Ibrahim Araby, Hajime Ohtani, Golap Kalita, and Masaki Tanemura; *Morphology-Controlled Synthesis of Hexagonal Boron Nitride Crystals by Chemical Vapor Deposition;* **Cryst. Growth Des., 16 (11), pp 6440–6445 (2016).** (IF=4.4)	
[48]	Mohamad Saufi Rosmi, **Yazid Yaakob**, Mohd Zamri Mohd Yusop, Subash Sharma, Zurita Zulkifli, Aizuddin Supee, Golap Kalita and Masaki Tanemura: *Room temperature fabrication of 1D carbon-copper composite nanostructures directly on Cu substrate and their field emission properties*; **AIP Advances 6, 095109 (2016).** (IF= 1.4)	
[49]	Mohamad Saufi Rosmi, **Yazid Yaakob**, Mohd Zamri Mohd Yusop,Subash Sharma,Ritesh Vishwakarma, Mona Ibrahim Araby, Golap Kalita and Masaki Tanemura: *In situ fabrication of graphene from a copper–carbon nanoneedle and its electrical properties;* **RSC Adv.,6 , 82459-82466 (2016)** (IF=3.708)	**2016**
[50]	Mohamad Saufi Rosmi, Sachin M. Shinde, Nor Dalila Abd Rahman, Amutha Thangaraja, Subash Sharma , Kamal P. Sharma, **Yazid Yaakob**, Ritesh Kumar Vishwakarma, Suriani Abu Bakar, Golap Kalita, Hajime Ohtani, Masaki Tanemura: *Synthesis of uniform monolayer graphene on re-solidified copper from waste chicken fat by low pressure chemical vapor deposition* ; **Materials Research Bulletin, 83, 573–580 (2016).** (IF= 2.4)	
[51]	Riteshkumar Vishwakarma, Golap Kalita, Sachin M. Shinde, **Yazid Yaakob**, Chisato Takahashi, Masaki Tanemura: *Structure of nitrogen-doped graphene synthesized by combination of imidazole and melamine solid precursors*; **Materials Letters, 177, 89–93 (2016).** (IF= 2.4)	
[52]	**Yazid Yaakob**, Yu Kuwataka, Mohd Zamri Mohd Yusop, Shihomi Tanaka, Mohamad Saufi Rosmi, Golap Kalita, and Masaki Tanemura: *Room temperature growth of ion-induced Si- and Ge-incorporated carbon nanofibers*; **Physica Status Solidi B: Basic Solid State Physics**, **1–5 (2015)**. (IF=1.605)	**2015**
[53]	**Yazid Yaakob**, Mohd Zamri Mohd Yusop, Chisato Takahashi, Mohamad Saufi Rosmi, Golap Kalita, and Masaki Tanemura: *In Situ Transmission Electron Microscopy of Ag-Incorporated Carbon Nanofibers: The effect of Ag Nanoparticle Size on Graphene Formation.*; **RSC Advance, 5, (2015) 5647-5651.** (IF=3.708)	
[54]	Mohamad Saufi Rosmi, Mohd Zamri Yusop, Golap Kalita, **Yazid Yaakob**, Chisato Takahashi, and Masaki Tanemura: *Visualizing copper assisted graphene growth in nanoscale.*; **Scientific Reports, 4, (2014) 7563.** (IF=5.078)	
[55]	Chisato Takahashi, **Yazid Yaakob**, Mohd Zamri Mohd Yusop, Golap Kalita, and Masaki Tanemura; *Direct observation of structural change in Au-incorporated carbon nanofibers during field emission process*; **Carbon. 75, (2014) 277-280**. (IF=6.160)	**2014**
[56]	Mohd Zamri Yusop, Golap Kalita, **Yazid Yaakob**, Chisato Takahashi, and Masaki Tanemura *Field emission properties of chemical vapor deposited individual graphene*; **Applied Physics Letters. 104, (2014) 093501**. (IF=3.515)	
[57]	**Yazid Yaakob**, Mohd Zamri Yusop, Chisato Takahashi, Golap Kalita, Pradip Ghosh, and Masaki Tanemura; *Room-Temperature Fabrication of Au- and Ag-Incorporated Carbon Nanofibers by Ion Irradiation and Their Field Emission Properties.*; **Japanese Journal of Applied Physics 52, (2013) 11NL01**. (IF=1.057)	**2013**

[58]	Mohd Zamri Mohd Yusop, Pradip Ghosh, **Yazid Yaakob,** Golap Kalita, Masato Sasase, Yasuhiko Hayashi, and Masaki Tanemura,; *In Situ TEM Observation of Fe-Included Carbon Nanofiber; Evolution of Structural and Electrical Properties in Field Emission Process,* **ACS Nano. 6, (2012) 9567.** (IF=12.033)	**2012**

Intellectual Property (IP)

Patent

[1] Masaki Tanemura, Riteshkumar Ratneshkumar Vishwakarma, Mohamad Saufi Bin Rosmi, **Yazid Bin Yaakob**, Yuji Wakamatsu, Masashi Kitazawa; *Cantilever and manufacturing method for cantilever*., **US20190018042A1**, **US Patent App. 16/121,729, (2020).**

[2] Masaki Tanemura, Riteshkumar Ratneshkumar Vishwakarma, Mohamad Saufi Bin Rosmi, **Yazid Bin Yaakob**, Yuji Wakamatsu, Masashi Kitazawa; カンチレバーおよびカンチレバーの製造方法. **Patent No. 6754123, JP Patent (2020).**

[3] Masaki Tanemura, Riteshkumar Ratneshkumar Vishwakarma, Mohamad Saufi Bin Rosmi, Golap, Kalita, **Yazid Bin Yaakob;** 結晶性炭素ナノ材料を含む導電性材料の製造方法、導電性材料、透明電極、電極、配線、電子装置および半導体装置**. Patent No. 6937505, JP Patent (2021).**

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[1] **Yazid Yaakob,** Shahira Liza Kamis; Chapter 2 Carbon‐Based Nanomaterials: Synthesis and Characterization, **Enhanced Carbon‐Based Materials and Their Applications, Wiley‐VCH GmbH, 9-36 (2023) ISBN 9783527348022**.

[2] Yazid Yaakob, Mohammad Adib Hazan, Ellyanie Balqis Hasmuei, Mackinley Bujang Anak Guma, Mohamad Shuhazlly Mamat, Mohamad Saufi Rosmi, Subash Sharma and Masaki Tanemura; Chapter 6 Carbon Nanomaterials **EMERGING THEMES IN FUNDAMENTAL AND APPLIED SCIENCES - PHYSICS, New Edition, Online, Penerbit UPM, National, 9789673348135, [89-96], (2018) ISBN 9789673348135.**

Proceedings (Indexed)		Year
[1]	M. A. Hazan, M. S. Mamat, I. Ismail, M. Z. Hussein and **Y. Yaakob***; Fractionation of waste nitrile butadiene rubber (NBR) latex sludge***, AIP Conference Proceedings, 2151 (2019).**	**2019**
[2]	Che Zuraini Che Ab Rahman, Kuan-Ying Kok, Khamirul Amin Matori, Nur Ubaidah Saidin, Thye-Foo Choo, Nordin Hj Sabli, Zainal Abidin Talib, **Yazid Yaakob**; *Chemical synthesis and characterization of metal-oxide based electrocatalysts for fuel cell reactions*, **AIP Conference Proceedings, 2068 (2019).**	
[3]	Mohamad Saufi Rosmi, **Yazid Yaakob**, Subash Sharma, M. Zamri Yusop, Golap Kalita, and Masaki Tanemura; *In situ TEM visualization of Pd assisted graphene growth in nanoscale*; **Proceedings of the 16th International Conference on Nanotechnology, 622-623 (2016).**	**2016**
[4]	Mohamad Saufi Rosmi, M. Zamri Yusop, **Yazid Yaakob**, Golap Kalita, Chisato Takahashi, and Masaki Tanemura*: Visualization of graphene formation in nanoscale by in situ transmission electron microscopy : A Review,* **Proceedings of the 15th IEEE International Conference on Nanotechnology, 1254-1256 (2015).**	**2015**
[5]	Rosmi, M. S., Yaakob, Y., Zamri, M., Kalita, G., Tanemira, M.; In situ observation of Ni catalyzed bamboo-like carbon nanotubes growth by current-induced annealing; **JSAP-OSA Joint Symposia, JSAP 2014; 107848.**	**2014**

Conferences / Seminar

[1] **Yazid Yaakob**, Mohd Zamri Yusop, Chisato Takahashi, Golap Kalita, Pradip Ghosh, and Masaki Tanemura,; *Room-Temperature Fabrication of Au- and Ag-Incorporated Carbon Nanofibers by Ion Irradiation and Their Field Emission Properties.*; **ISPlasma2013 5th International Symposium on Advanced Plasma Science and its Applications for Nitrades and Nanomaterials**, 28 Jan - 1 Feb 2013, Nagoya University, Japan.

[2] **Yazid Yaakob**, Mohd Zamri Yusop, Chisato Takahashi, Golap Kalita, and Masaki Tanemura,; *Direct Observation of Ag-incorporated carbon nanofiber structural changes during field emission process*.; **The Japan Society of Applied Physics Student Chapter Tokai Symposium 2013 (JSAP SCTS 2013)**, 16 November 2013, Nagoya University, Nagoya, Japan.

[3] **Yazid Yaakob**, Mohd Zamri Yusop, Yu Kuwataka, Chisato Takahashi, Golap Kalita, and Masaki Tanemura,; *Structural transformation of Si-incorporated carbon nanofibers by in situ TEM*.; **The 6th IEEE International Nanoelectronics Conference 2014**, 28 -31 July 2014, Hokkaido University, Sapporo, Japan.

[4] **Yazid Yaakob**, Mohd Zamri Mohd Yusop, Yu Kuwataka, Mohamad Saufi Rosmi, Subash Sharma, Golap Kalita, and Masaki Tanemura,; *Direct Observation of Ge-incorporated Carbon Nanofiber Graphitization by In situ TEM*.; **28th International Microprocesses and Nanotechnology Conference 2015**, 10 -13 November 2015, Toyama International Conference Center, Toyama, Japan.

[5] **Yazid Yaakob,** Mohammad Adib Hazan, Ellyanie Balqis Hasmuei, Mackinley Bujang Anak Guma, Mohamad Shuhazlly Mamat, Mohamad Saufi Rosmi, Subash Sharma, Masaki Tanemura**; Synthesis of carbon nanomaterials by chemical vapor deposition : Effect of catalyst**; Fundamental Science Congress 2017 (FSC2017), 21-22 November 2017, Universiti Putra Malaysia, Selangor, Malaysia.

[6] **Y. Yaakob**, M. A. Hazan, K. A. Jofri, A. N. Hakim, N. A. M. Yamin, M. S. Mamat; **Green synthesis of carbon-based nanostructures from organic waste via chemical vapor deposition;** 10th International Fundamental Science Congress (iFSC2018), 23-34 Oct 2018 | MALAYSIA, RHR Hotel@UNITEN, Kajang, Selangor, Malaysia.

[7] M. A. Hazan, K. A. Jofri, M. S. Mamat, S. Liza, I. Ismail, M. Z. Hussein, **Y. Yaakob; Study of Carbon Nanostructures Grown From Waste Latex via ChemicalVapor Deposition;** 27th Scientific Conference of the Microscopy Society Malaysia (27th SCMSM 2018)3-4 Dis 2018| MALAYSIA,The Mudzaffar Hotel, Melaka, Malaysia.

[8] M. A. Hazan, K. Afiqa and **Y. Yaakob**;**Utilization of waste latex for chemical vapor deposited carbon nanostructured materials**; International Conference of Sustainable Environmental Technology (ISET2019) 20-22 August 2019, DoubleTree by Hilton, Johor Bahru, Malaysia. **[INVITED]**

[9] **Yazid Yaakob**, Mohd Adib Hazan, Mohd Shuhazlly Mamat, Shahira Liza, Kar Fei Chan, Masaki Tanemura; **Waste latex based-precursors as an economic carbon source for carbon nanotubes eco-fabrications**; The 8th International symposium on Organic and Inorganic Electronic Materials and Related Nanotehnologies (EM-NANO2021), 1-3 June 2021, JAPAN, Virtual (Zoom Platform).

[10] **Yazid Yaakob**, Masaki Tanemura; **In situ TEM observation of silicon-carbon nanofiber composites structural transformation via joule heat**; The 82nd JSAP Autumn Meeting 2021, 10-13 Septermber 2021, JAPAN, Virtual (Zoom Platform)

[11] **Y. Yaakob**, M. S. Mamat; **Karbon & Tenaga Hijau**; Young Scientist Talk (YST) 3.0, 22 October 2021, Malaysian Solid State Science & Technology (MASS). Virtual (Youtube). **[INVITED]**

[12] **Y. Yaakob**, M. S. Rosmi, S. Sharma, M. Tanemura; **Study of silicon-carbon nanocomposite structural and electrical properties for potential anode materials in lithium-ion batteries**; World Congress on Applied Nanotechnology (W-CAN) 2021, 24-26 November 2021, TURKEY. Virtual (Zoom Platform).

[13] **Yazid Yaakob**; **Visualization of Si-C nanocomposite and its electrical properties using TEM**; Webinar on Microscopy and Microanalysis : Towards High Impact Research Series 6, 8 December 2021, MALAYSIA. Virtual (Webex Platform). **[INVITED]**

Teaching & Supervision
Pengajaran & Penyeliaan

Student Supervision

Programme	Status	Graduated	On-going
PhD	Main Supervisor	0	1
	Co-Supervisor	2	3
Master (By research)	Main Supervisor	0	2
	Co-Supervisor	2	1
Undergraduate	Main Supervisor	13	0

Main Supervisor

Phd (On-going)

[1] Chan Kar Fei
POWDER PROCESSING AND COLLOIDAL PROCESSING OF CARBON NANOTUBES INCORPORATED ZINC SILICATE CERAMICS COMPOSITES

Master (On-going)

[1] Aflah A Aziz
MECHANICAL AND TRIBOLOGICAL ENHANCMENT OF CNTS-ALUMINIUM OXIDE LAYER

[2] Muhammad Izzat bin Muktar
CARBON NANOTUBE (CNT) INCORPORATED ANODIC ALUMINA NANOCOMPOSITE FILM AS PROTECTIVE LAYER FOR ALUMINUM ALLOY.

Co-Supervisor

Phd (Graduated)

[1] Alibe Ibrahim Mustapha (2019)
Optical and Structural Properties of Willemite Nanoparticles Synthesize by Simple Thermal Treatment Route

[2] Alade Ibrahim Olanrewaju (2021)

Development and applications of computational intelligent models in estimation of thermophysical properties of nanofluids.

Phd (On-going)

[1] Sani Yusuf
Development Of Radar Absorbing Materials (RAMS) Based On NaStructured Magnetic Materials And Applications

[2] Abuallan Mohammad Ayman Mohammad
INVESTIGATION LINEAR AND NONLINEAR OPTICAL PROPERTIES AND STRUCTURAL PROPERTIES FOR SC DOPED MAGNESIUM BORO-TELLURITE

[3] Che Zuraini Binti Che Ab Rahman
Synergistic Effect Between Transition Metal Oxides (TMO) and Their Reduced Graphene Oxide (rGO) Supports as Electrocatalyst for Oxygen Reactions.

Master (Graduated)

[1] Mohamad Amin Bin Hamid (2020)
First Principle Calculation on the Structural, Electronic and Transport Properties of Graphene, Silicene and Germanene Substrate System.

[2] Muhammad Amir Faiz Bin Mohd Shaifuddin (2022)
Low Cost Approach of Reduction of Graphene Oxide (GO) by using Palm Oil Leaves Extract for Potential Industrial and Biomedical Application

Master (On-going)

[1] Nuzul Fatihin Izatil binti Azman
Mechanical Studies of PET/GNP-CNT-GNF Nanocomposites
.

Code	Course	Credit	Semester
PHY3103	**Physics 1** *Fizik 1*	3+1	2019/2020-1 2018/2019-1
PHY3105	**Modern Physics** *Fizik Moden*	3+0	2020/2021-1
PHY3200	**Material Physics** *Fizik Bahan*	3+0	2022/2023-1
PHY3304	**Principle of Measurement System** *Prinsip Sistem Pengukuran*	3+1	2019/2020-2 2018/2019-2 2017/2018-2
PHY3306	**Electronics** *Elektronik*	3+1	2020/2021-1
PHY3901	**MECHANICAL AND THERMAL PHYSICAL LABORATORY** *Amali Mekanik dan Fizik Terma*	0+1	2022/2023-1 2022/2023-2
PHY4207	**Materials Processing Technology** *Teknologi Pemprosesan Bahan*	3+0	2019/2020-2 2018/2019-2 2016/2017-2
PHY4213	**Metallurgy** *Metalurgi*	3+0	2022/2023-2
PHY4902	**Special Topics* (Advanced Materials & Optoelectronics)** *Tajuk Khas*	3+0	2016/2017-2 2015/2016-2
PHY4995	**Advanced Laboratory** *Amali Lanjutan*	0+3	2019/2020-1 2018/2019-1 2017/2018-1 2016/2017-1
PHY4999	**Final Year Project*** *Projek Ilmiah Tahun Akhir*	0+3	2017/2018-2 (B) 2017/2018-1 (A)

Honours and Awards
Anugerah dan Hadiah

Name of awards ;Title	*Award Authority*	*Award Type*	*Year*
Academic Awards			
Best Poster Award-First Place	iFSC 2018; UPM-INSPEM	Certificate Medal	2018
Best Poster Award- Material Science	SAES 2019; KyuTech-UPM	Certificate Prize	2019
Bronze Award	Materials Technology Challenges (MTC) 2019); Malaysian Solid State Society (MASS)	Certificate	2019
Gold Award	Materials Technology Challenges (MTC) 2020); Malaysian Solid State Society (MASS)	Certificate	2020
Gold Award Gold Award Bronze Award	International Materials Technology Challenges (iMTC) 2023); Malaysian Solid State Society (MASS)	Certificate Medal	2023
Non- Academic Awards			
Sijil Perkhidmatan Cemerlang	UPM	Certificate	2016-2018
Insentif Makalah Jurnal 2016	RMC,UPM	Certificate Grant Incentive	2017
Insentif Makalah Jurnal 2020	RMC,UPM	Grant Incentive	2020
Inisiatif Pemerkasaan Penerbitan Jurnal Tahun 2022	RMC,UPM	Grant Incentive	2022

References
Rujukan

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