Curriculum Vitae

MAKLUMAT ASAS

DR. AHMAD RAZIF BIN MUHAMMAD

PENSYARAH UNIVERSITI
INSTITUT KEJURUTERAAN MIKRO & NANOELEKTRONIK (IMEN)
No.rasmi: UKM : 03 1234 5678

BIOGRAFI /BIOGRAPHY

Razif received his B.Eng (Hons) in Mechanical Engineering from the University of Malaya; M.Phil in Photonics Engineering from the University of Malaya; and PhD in Electrical Engineering (Photonics) in University of Malaya. His doctoral thesis focuses on short pulse fiber laser based on pure metal saturable absorber. Currently a research fellow at Institute of Microengineering and Nanoelectronics (IMEN), Universiti Kebangsaan Malaysia (UKM), Malaysia. His research interests include NIR fiber laser, ultrafast fiber laser, nanofiber for optical sensing.

KELAYAKAN AKADEMIK / ACADEMIC QUALIFICATION
(BIDANG PENGAJIAN),(PERINGKAT),(INSTITUSI),(TAHUN)

PHOTONICS , Doktor Falsafah , UNIVERSITI MALAYA , 2019
PHOTONICS ENGINEERING , Sarjana , UNIVERSITI MALAYA , 2015
MEKANIK , Sarjana Muda dengan Kepujian , UNIVERSITI MALAYA , 2012

KEPAKARAN / EXPERTISE

TECHNOLOGY AND ENGINEERING - ELECTRIC AND ELECTRONIC (Nanofiber Optics, Ultrafast Fiber Laser, Fiber Laser)

PENERBITAN TERKINI / LATEST PUBLICATION

Penerbitan Berimpak Tinggi

H. Haris, A. R. Muhammad, S. J. Tan, A. M. Markom, S. W. Harun, M. M. I Megat Hasnan, I. Saad. (2022). Generation Of Kelly And Dip Type Sidebands Soliton Employing Topological Insulator (bi2te3) As Saturable Absorber. - *Infrared Physics And Technology.* 1-8.

Hazlihan Haris, Malathy Batumalay, Sin Jin Tan, Arni Munira Markom, Ahmad Razif Muhammad, Sulaiman Wadi Harun, Megat Muhammad Ikhsan Megat Hasnan, Ismail Saad. (2022). Mode-locked Ydfl Using Topological Insulator Bismuth Selenide Nanosheets As The Saturable Absorber. - *Crystals.* 1-9.

N. F. Zulkipli, A. R. Muhammad, M. Batumalay, A. H. A. Rosol, A. Altuncu, F. E. Durak, M. F. Mamun, S. W. Harun. (2022). Yttrium Oxide (y2o3) As A Pulse Initiator In A Mode-locking Erbium-doped Fiber Laser. - *Photonics.* 1-9.

A.r.muhammad, M.f.rusdi, A.a. A. Jafry, .m.markom, Z.jusoh, H.haris, S.w.harun, P.yupapin. (2021). Evanescent Field Interaction Of 1550 Nm Pulsed Laser With Silver Nanomaterial Coated D-shape Fiber. - *Infrared Physics & Technology.* 1-7.

Penerbitan WOS

Arni Munira Markom, Ahmad Razif Muhammad, Mukul Chandra Paul, Sulaiman Wadi Harun. (2022). 50 Cm Of Zirconia, Bismuth And Silica Erbium-doped Fibers For Double-pass Amplification With A Broadband Mirror. - *Current Optics And Photonics.* 32-38.

Digest Journal Of Nanomaterials And Biostructures. 1461-1467.

A. R. Muhammad, A. A. A. Jafry, A. M. Markom, S. W. Harun, Z. Jusoh, N. Kasim, P. Yupapin. (2021). Titanium Aluminum Carbide Coated D-shaped Fiber As Passive Sturable Absorber For Nanosecond Pulses Generation. - *Chalcogenide Letters.* 129-135.

Penerbitan SCOPUS/ERA

H. Haris, A. R. Muhammad, S. J. Tan, A. M. Markom, S. W. Harun, M. M. I Megat Hasnan, I. Saad. (2022). Generation Of Kelly And Dip Type Sidebands Soliton Employing Topological Insulator (bi2te3) As Saturable Absorber. - *Infrared Physics And Technology.* 1-8.

N.f.zulkipli, A.r.muhammad, A.h.a.rosol, A.altuncu, M.yasin, Z.c.tiu, S.w.harun. (2022). Rare-earth Yttrium Oxide As Q-switcher In Fiber Laser System. - *Results In Optics.* 1-6.

Hazlihan Haris, Malathy Batumalay, Sin Jin Tan, Arni Munira Markom, Ahmad Razif Muhammad, Sulaiman Wadi Harun, Megat Muhammad Ikhsan Megat Hasnan, Ismail Saad. (2022). Mode-locked Ydfl Using Topological Insulator Bismuth Selenide Nanosheets As The Saturable Absorber. - *Crystals.* 1-9.

N. F. Zulkipli, A. R. Muhammad, M. Batumalay, A. H. A. Rosol, A. Altuncu, F. E. Durak, M. F. Mamun, S. W. Harun. (2022). Yttrium Oxide (y2o3) As A Pulse Initiator In A Mode-locking Erbium-doped Fiber Laser. - *Photonics.* 1-9.

Arni Munira Markom, Muhammad Hakimi Aiman Hadri, Tuah Zayan Muhamad Yazid, Zakiah Mohd Yusof, Marni Azira Markom, Ahmad Razif Muhammad. (2022). Electricity Generation From Renewable Energy Based On Abandoned Wind Fan. - *Indonesian Journal Of Electrical Engineering And Computer Science.* 1-8.

Arni Munira Markom, Ahmad Razif Muhammad, Mukul Chandra Paul, Sulaiman Wadi Harun. (2022). 50 Cm Of Zirconia, Bismuth And Silica Erbium-doped Fibers For Double-pass Amplification With A Broadband Mirror. - *Current Optics And Photonics.* 32-38.

A.r.muhammad, M.f.rusdi, A.a. A. Jafry, .m.markom, Z.jusoh, H.haris, S.w.harun, P.yupapin. (2021). Evanescent Field Interaction Of 1550 Nm Pulsed Laser With Silver Nanomaterial Coated D-shape Fiber. - *Infrared Physics & Technology.* 1-7.

H. Haris, A. R. Muhammad, S. J. Tan, S. W. Harun, I. Saad. (2021). Pulse Generation Of Mode-locking Fiber Laser At 1.053 µm Using Graphene Oxide Film As Saturable Absorber. - *Digest Journal Of Nanomaterials And Biostructures.* 1461-1467.

A. R. Muhammad, A. A. A. Jafry, A. M. Markom, S. W. Harun, Z. Jusoh, N. Kasim, P. Yupapin. (2021). Titanium Aluminum Carbide Coated D-shaped Fiber As Passive Sturable Absorber For Nanosecond Pulses Generation. - *Chalcogenide Letters.* 129-135.

Prosiding Terindeks

Nurul Athirah Mohamad Abdul Ghafar, Arni Munira Markom, Marni Azira Markom, Ahmad Razif Muhammad. (2021). Optical Fiber Sensor For Heavy Chemical Detection: An Overview. - *The 4th Photonics Meeting 2021 (pm21).* 1-6.

A Ahmad, M F A Rahman, M A M Johari, A A Latiff, M H Jali, H H M Yusof, X S Cheng, A R Muhammad, S W Harun. (2021). Hafnium Bismuth Erbium Co-doped Fiber Based Dark Pulses Generation With Black Phosphorus As Saturable Absorber. - *The 4th Photonics Meeting 2021 (pm21).* 1-8.

PROJEK PENYELIDIKAN / RESEARCH PROJECT
(TAJUK),(PERANAN),(TEMPOH),(TAHAP)

Aktif

Geometrical Modification of Multi-D-Shape Sensing Zone using Side-Polishing Technique for Sensitivity Enhancement in Optical Fiber Sensor , Ketua Projek , 07-09-2021 sehingga 06-09-2023 , Kebangsaan

Ti2AlN as a New Two-dimensional Material based Saturable Absorber for Pulsed Fiber Laser Development in 2.0-micron Region , Ketua Projek , 01-09-2021 sehingga 31-08-2023 , Universiti

Application of Digital Technology in Personalised Strategies for Managing Non-Communicable Disease , Penyelidik Bersama , 01-10-2021 sehingga 30-09-2022 , Universiti

Application of Digital Technology in Personalised Strategies for Managing Non-Communicable Disease , Penyelidik Bersama , 15-06-2021 sehingga 14-06-2023 , Kebangsaan

ANUGERAH DAN PENGURUSAN / AWARD AND STEWARDSHIP
(NAMA ANUGERAH/PENTADBIRAN),(INSTITUSI PENGANUGERAHAN),(TAHUN)

PENYELIAAN PELAJAR / SUPERVISION

Pelajar Sarjana

Teknik Pengilapan Sebahagian Permukaan Gentian Optik dalam Aplikasi Penderia Index Biasan, MUHAMAD HAKIM BIN IZANI, Sarjana

KHIDMAT SOSIAL / SOCIAL @ PUBLIC ENGAGEMENT
(SUMBANGAN),(TEMPOH),(PERINGKAT)

Khidmat Luar

Bismuth-doped fiber Q-switcher in Erbium-doped fiber laser cavity , 08-03-2021 sehingga 30-03-2021 , Antarabangsa

Optics Communications , 05-06-2021 sehingga 20-06-2021 , Antarabangsa

Infrared Physics and Technology , 14-04-2021 sehingga 15-04-2021 , Antarabangsa

Microwave and Optical Technology Letters , 08-03-2021 sehingga 30-03-2021 , Antarabangsa

Innovation & Technology (INOTEK 2021) , 02-06-2021 sehingga 09-06-2021 , Kebangsaan

Optics Letters , 04-05-2021 sehingga 30-05-2021 , Antarabangsa

Pertandingan Inovasi Penyelidikan , 02-07-2021 sehingga 01-01-1970 , Kebangsaan

2021/2 INTI IU Seed Grant , 22-07-2021 sehingga 26-07-2021 , Kebangsaan

Applied Optics , 18-07-2021 sehingga 07-08-2021 , Antarabangsa

ICT Chair , 01-01-2020 sehingga 31-12-2022 , Kebangsaan

Infrared Physics and Technology , 01-11-2021 sehingga 29-11-3775 , Antarabangsa

Optical Materials Express , 12-11-2021 sehingga 30-11-2021 , Antarabangsa

Journal of Optics and Laser Technology , 08-12-2021 sehingga 20-12-2021 , Antarabangsa

Applied Optics , 07-01-2022 sehingga 25-01-2022 , Antarabangsa

Khidmat Dalam

AHLI JAWATANKUASA JAMINAN KUALITI IMEN , 18-07-2021 sehingga 19-07-2022 , Fakulti / Institut / Pusat Perkhidmatan

AKREDITASI PROGRAM PENGAJIAN INSTITUT KEJURUTERAAN MIKRO DAN NANOELEKTRONIK (IMEN) , 01-12-2021 sehingga 30-04-2023 , Fakulti / Institut / Pusat Perkhidmatan

IMEN JUNIOR ELECTRONICS AND NANOTECHNOLOGY CAMP , 30-03-2021 sehingga 01-04-2021 , Fakulti / Institut / Pusat Perkhidmatan

IMEN JUNIOR ELECTRONICS AND NANOTECHNOLOGY CAMP , 14-12-2021 sehingga 31-12-2021 , Fakulti / Institut / Pusat Perkhidmatan

IMEN JUNIOR ELECTRONICS AND NANOTECHNOLOGY CAMP , 14-09-2022 sehingga 17-09-2022 , Universiti

Kolokium Siswazah IMEN 2022 , 21-07-2022 sehingga 21-07-2022 , Fakulti / Institut / Pusat Perkhidmatan

NANOTECHNOLOGY MALAYSIA ANNUAL SYMPOSIUM (NANOSYM 2021) , 08-10-2021 sehingga 13-10-2021 , Fakulti / Institut / Pusat Perkhidmatan

NANOTECHNOLOGY MALAYSIA ANNUAL SYMPOSIUM (NANOSYM 2021) , 11-10-2021 sehingga 13-10-2021 , Universiti

PENILAI BEBAS KOLOKIUM SISWAZAH IMEN 2021 , 31-05-2021 sehingga 14-07-2021 , Fakulti / Institut / Pusat Perkhidmatan