

ABDUL RAHMAN SARMANI

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EXPERTISE

APPLIED OPTICS

Dr. Abdul Rahman Sarmani obtained his PhD. from University of St. Andrews under the supervision of Prof. Wilson Sibbett, the Father of Femtosecond Laser Physics: https://www.st-andrews.ac.uk/~www_pa/news/old_news/archive/OLEfather.htm. His PhD. title was “Yb-doped Femtosecond Lasers and Their Frequency Doubling” : <https://core.ac.uk/download/files/95/1585900.pdf>. He works in the Department of Physics, Faculty of Science by forming a teamwork with the Wireless and Photonics Network Research Centre, UPM and Department of Physics in University of Malaya. His expertise cover from solid-state lasers to fiber lasers especially in random fiber lasers. The wavelength of his concerns are from near to mid-infrared region that have many applications in optical sensors, medical surgery and defense industry. He has authored and coauthored in various international highly reputable journals and presenting papers in world- class conferences in Europe and North America. Currently his group focus on publishing in Q1 highly reputable journals based on the philosophy of “QUALITY rules over Quantity”.

Current Research Interest

Single-, dual-, multi-wavelength and passive mode-locking in fiber lasers, optical sensors, mid-infrared wavelengths sources. Random fiber lasers versus conventional setups. Nonlinear effects in optical fibers: stimulated Raman scattering (SRS), stimulated Brillouin scattering (SBS), Rayleigh scattering.

LINK TO POSTGRADUATE FIELD OF STUDY:

ADDITIONAL INFORMATION:

I have discovered a new phenomenon in random fiber lasers and still in the process of drafting the results. I believe these will be internationally pioneering research works. I aim to be a pioneer and founder in the specific area that I'm developing. The main objective in the future is to publish in Nature and other high quality review papers

Currently I have a PhD. Project available in Malaysia that is open to everybody in the world, please contact me for more information.

<http://www.eng.upm.edu.my/wipnetfk>