



## CURRICULUM VITAE

Name : Dr. H. Saktioto, S.Si M.Phil CPhys MInstP

Place / Date of Birth : Bagansiapiapi / 30 October 1970

Address : Jurusan Fisika FMIPA Universitas Riau  
Kampus Bina Widya, Panam, Pekanbaru, Riau  
Indonesia  
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Home Address : Jl. Meranti No.8 Labuhbaru Timur, Pekanbaru  
Tel. +62 (0) 761 20305

Religion : Muslim

Marrital Status : Married

Course Experiences : Primary School, Bagansiapiapi (1977-1983)  
Junior High School, Bagansiapiapi (1983-1986)  
Senior High School, Bagansiapiapi (1986-1989)

**Sarjana S-1, S.Si** (1989-1993), top of 5% (A)  
Department of Physics, Faculty of Math and  
Natural Sciences, University of Riau, Pekanbaru,

Riau, INDONESIA.(Hons of Bachelors)

**Master Degree, (Master of Philosophy, MPhil)**

Plasma Physics Group, Department of Physics  
University of Manchester Institute of Science and  
Technology (UMIST), at Manchester United  
Kingdom, Award: Hons of MPhil (1998 – 2000)  
(1 year 8 months to complete Master degree)

**Doctoral Degree (PhD)**

(Optoelectronic and Integrated Optics)  
Universiti Teknologi Malaysia (UTM)  
Johor – Malaysia  
(2006- 2008), Award: The first PhD awarded by  
Chancellor award  
(2 years to complete PhD)

Short Courses

- : 1. English Training Course (1977-1998)  
Palembang International TOEFL score: 520  
(1998)  
2. Summer School for Plasma Physics (July 1999)  
3. Achievement Motivation Training (1991)

Teaching Experiences

- : 1. Basics Physics I and II  
2. Numerical Method  
3. English Language  
4. Classical Mechanics  
5. Electromagnetism  
6. Philosophy of Science  
7. Basic Natural Sciences  
8. Plasma Physics  
9. Capital Selection  
10. Nuclear Physics  
11. Basic Computer Programming

Scientific Dictate for Lecture

- : 1. Plasma Physics Dictate (2000)  
2. Electromagnetic Dictate (2001)  
3. Learning Dictate of Philosophy of Science (2001)  
4. Basic Natural Science Dictate (2005)  
5. Nuclear Physics Dictate (2005)

Scientific Journal Publication

- : 1. National Journal: Kontribusi Fisika Indonesia  
ITB- Bandung, 2001 (Feb 2002 Subject:

- Computational Physics)
2. National Journal: Komunikasi Fisika Indonesia Universitas Riau- Pekanbaru, 2002 (2002-2005) Subject: Plasma Physics)
  3. International Journal: Plasma Physics Science Sorce and Technology, United Kingdom, 2001, (Jan 2001 Subject: Computational Plasma Physics)
  4. International Journal: WKS- Indonesia, France, 1999 (Subject: Electromagnetism)
  5. Proceeding Semirata: University Kebangsaan Malaysia- BKS MIPA se-Sumatera (2002) (Subject: Computational Physics)
- (Others are attached at the latest page)
- Scientific Book Publications : 1. Capital Selection: Plasma Physics Book (2005)  
2. Bingkisan Olimpiade Fisika (2005)  
3. Riau University Research (2000),
- International Seminar/Symposium/Conference Lokakarya/ Panel Discussion (See in the website by typing “Saktioto”)
1. Speaker for Seminar National ITB Bandung, 2001 (Subject: Computational Physics)
  2. Speaker for Seminar SEMIRATA BKS Wilayah Barat, 2001, Bandar Lampung
  3. Speaker for Seminar Nasional HFI /ITB Bandung, 2001 (Subject: Electromagnetism)
  3. Speaker for Seminar BKS Indonesia Wilayah Barat, Bandar Lampung 2001 (Subject: Plasma Physics)
  4. Speaker for Seminar BKS Wilayah Barat, Medan 2002 (Subject: Computational Physics)
  5. Speaker for International ISSM, Kassel, Germany 1999 (Subject: Plasma Physics)
  6. Speaker for International Seminar, Annual Meeting UMIST, United Kingdom 1999 (Subject: Electromagnetism)
  7. Speaker for SEMIRATA 15, BKS Seminar Nasional Bidang MIPA Wilayah Barat 2002.
  8. Speaker: Seminar FST, UKM –FMIPA UNRI II, 2002
  9. Speaker: Training of Organizational Leadership to develop human capital and undergraduate, 2003.
  10. Invited Speaker: Physics penetrates philosophy

- of religion, 2005.
11. Invited Speaker: Training of Scientific Writing, UNRI 2005.
  12. Invited Speaker: 100 years of Albert Einstein, 2005.
  13. Invited Speaker: To investigate Science Education, 2005.

(others are attached at the latest page)

1. **IEEE (Active Member)**
2. **SPIE (Active Member)**
3. **Insitute of Physics (IOP) (Member and Chartered Physics)**
4. **World Academy of Science, Engineering and Technology (WASET) (Active Member and Editor)**
5. **Optical Society of America (OSA) (Active Member)**
6. **American Physics Society (APS) (Active Member)**
7. **Himpunan Fisika Indonesia (HFI) (Active Member)**
8. **AMC (Academic Manuscript Centre, Turkey)**

### Book Publication

No	Title	Year	Number of Page	Press
1	Investigation of Photonic Devices Pigtailling Using Laser Welding Technique	2008	(170)	World Scientific Publishing Co - eBook
2	Power Parametrics of Single Mode Fiber Fusion	2010	224	VDM Verlag
3	Matrix Transfer Method of Power Propagation	2011	72	VDM Verlag
4	Directional Fiber Coupler Model Induced by Voltage	2011	104	VDM Verlag
5	Cadmium Sulphide Nanoparticles formed by the Langmuir Boldgett Technique	2011	216	VDM Verlag
6	Optical Fiber Technology: Nonlinear Optics in Fiber Bragg Grating	2012	(668)	In Tech Publisher, ISBN 978-953-51-0091-1
7	Kapita Selekt: Fisika Plasma	2015	150	Draft
8	Fisika Komunikasi: Fotonik Sebagai Komunikasi Abad XXI	2015	200	Draft


### G. Patent



No	Title	Year	Claim	IP Number
1	Power Propagation at Coupling Region of Fusion Fiber coupler	30 August 2010	Methodology Software	2010700061
2	A Method of Switching ON or OFF of Optical Fibers	25March2011	Methodology: Software	2011700030
3	A Method of Determining Power Propagation	31May2011	Methodology: Software	2011700078
4	Breakdown Voltage Effect on Coupling Ratio Fusion Fiber coupler	2012	Methodology: Software	On going process
6	Dual Sources light Intensity Trapped on Linear Cross Section of 2X5 Optical Fiber Coupler	2012	Methodology: Software	On going process
8	Nitrogen Species Densities Reactions for Higher Atmospheric Pressures	2012	Methodology: Software	On going process




### Awards

No	Specification	Awarded by	Year
1	Award of Best PhD	Chancellor of UTM, Malaysia	2009
2	Reviewer and Referee of Optical Engineering Journal	Optical Engineering Committee	2010
3	Award of Referee of Journal	Jurnal Teknologi, Malaysia	2011
4	Award of Best Scopus Journal Publication Quantity	Rector of University of Riau	2012
5	Award of Reviewer of IEEE TPC Conference	IEEE Committee	2013
6	Award of Best Researcher	Rector of University of Riau	2014
7	Award of Best Researcher	Rector of University of Riau	2015
8	Award of Best Lecturer	Rector of University of Riau	2015
9	Award of Nationally Final Prestige Lecturer	Directorate General of Higher Education	2015
10	Award of Journal Reviewer	Committe of Optical Applicata Journal	2015

# Publications and Conferences in SCOPUS

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<input type="checkbox"/> 2	Saktioto, Toto Saktioto, T.  <a href="#">View last title</a> 	3	Computer Science ; Physics and Astronomy ; Engineering; ...	Universitas Riau	Pekanbaru	Indonesia
<input type="checkbox"/> 3	Saktioto, J.  <a href="#">View last title</a> 	1	Physics and Astronomy ; Engineering	Universitas Riau	Pekanbaru	Indonesia

Documents: 63

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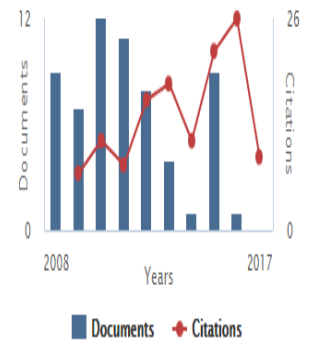
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Computationally numerical experiment of carbon species densities for thermal plasma dynamic Saktioto, Farma, R., Irawan, D., Sufi, M.S., Ismail, F.D. 2016 Proceedings - 2016 1st International Conference on Information Technology, Information Systems and Electrical Engineering, ICITISEE 2016 0

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Erratum: Laser-Induced Graphite Plasma Kinetic Spectroscopy under Different Ambient Pressures (Chinese Physics Letters (2015) 32:4 043201) Chaudhary, K., Rosalan, S., Aziz, M.S., (...), Bidin, N., Saktioto 2015 Chinese Physics Letters 0

Laser-induced graphite plasma kinetic spectroscopy under different ambient pressures Chaudhary, K., Rosalan, S., Aziz, M.S., (...), Bidin, N., Saktioto 2015 Chinese Physics Letters 2

[View abstract](#) | [Related documents](#)

Design of Mach-Zehnder interferometer and ring resonator for biochemical sensing Irawan, D., Saktioto, T., Ali, J., Yupapin, P. 2015 Photonic Sensors [Open Access](#) 3

[View abstract](#) | [Related documents](#)

Kinetic model for carbon species distribution in arc discharge plasma Roslan, M.S., Chaudhary, K., Aziz, M.S., (...), Bidin, N., Saktioto 2015 Journal of Computational and Theoretical Nanoscience 2

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Photonic and or gate by using fiber coupler Roslan, S.M., Safwan Aziz, M., Saktioto, Ali, J. 2015 Jurnal Teknologi 0

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Simplified linear configuration model of 3x3 single mode fiber coupler using matrix transfer Saktioto, Irawan, D., Defianto 2015 Telkomnika (Telecommunication Computing Electronics and Control) [Open Access](#) 0

### Author History

Publication range: 2001 - 2016

References: 602

#### Source history:

- Proceedings - 2016 1st International Conference on Information Technology, Information Systems and Electrical Engineering, ICITISEE 2016 [View documents](#)
- Procedia Engineering [View documents](#)
- Optoelectronics and Advanced Materials, Rapid Communications [View documents](#)
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**Saktioto, Toto**  
Universitas Riau, Department of Physics, Pekanbaru, Indonesia  
Author ID: 57188987179

Documents: 3 Analyze author output

Citations: 0 total citations by 0 document

h-index: 0

Co-authors: 6

Subject area: Computer Science, Physics and Astronomy [View More](#)

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GHz frequency filtering source using hexagonal metamaterial splitting ring resonators	Saktioto, T., Syahputra, R.F., Punthawanunt, S., Ali, J., Yupapin, P.	2017	Microwave and Optical Technology Letters	0
<a href="#">View abstract</a>   <a href="#">Related documents</a>				
Modification of Coupling Power Parameters for High Accuracy Coupling Ratio of Weakly Coupled Fiber	Saktioto, T., Irawan, D., Ali, J.	2016	Proceedings - 6th International Conference on Computer and Communication Engineering: Innovative Technologies to Serve Humanity, ICCCE 2016	0
<a href="#">View abstract</a>   <a href="#">Related documents</a>				
Multiport Single Mode Fiber Coupler Technique for Mechanical Microactuator to Damped Blood Flow	Saktioto, T., Irawan, D., Anita, S., Ali, J.	2016	Proceedings - 2015 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, 3PGCIC 2015	0

Documents

Years	Documents
2016	2
2017	1

Author History

Publication range: 2016 - Present

References: 28

Source history:

- Proceedings - 2015 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, 3PGCIC 2015 [View documents](#)
- Proceedings - 6th International Conference on Computer and Communication Engineering: Innovative Technologies to Serve Humanity, ICCCE 2016 [View documents](#)
- Microwave and Optical Technology Letters [View documents](#)

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## Paper Publication

No	Judul Artikel Ilmiah	Nama Jurnal	Volume/Nomor/ Tahun
1	GHz frequency filtering source using hexagonal metamaterial splitting ring resonators	Microwave and Optical Technology Letters	Volume 59, Issue 6, June 2017, Pages: 1337–1340
2	Erratum: Laser-Induced Graphite Plasma Kinetic Spectroscopy under Different Ambient Pressures	Chinesse Physics Letter ( <b>Berimpak dan Scopus</b> )	(2015) 32:4 043201



## Paper Publication in 2015

<b>No</b>	<b>Judul Artikel Ilmiah</b>	<b>Nama Jurnal</b>	<b>Volume/Nomor/Tahun</b>
1	Laser induced graphite plasma kinetic spectroscopy under different ambient pressures	Chinesse Physics Letters	32 (4), 043201, 2015
2	Design of MachZehnder interferometer and ring resonator for biochemical sensing	Photonic Sensors	Vol 5, No.1, 2015
3	An optimum design of fused silica directional fiber coupler	Optik	<a href="#">Volume 126, Issue 6</a> , March 2015, Pages 640–644, 2015
4	A single eye 3D image perception device using vertical double ring resonator construction	Microwave and Optical Technology Letters	Volume 57, Issue 8, pages 1802–1805, August 2015
5	Photonic and or gate by using fiber coupler	Jurnal Teknologi	<a href="#">Vol 74, No 8</a> , 2015
6	Simplified Linear Configuration Model of 3X3 Single Mode Fiber Coupler using Matrix Transfer	Jurnal Telkomnika	Vol.13, No.3, 2015

## Paper Publication in 2014

1	Saktioto T., Irawan D., Thammawongsa N. and Yupapin PP	Drug Delivery System Model using Optical Tweezer Spin Control J Biosens Bioelectron 5:3 (2014)
2	Saktioto T., Dedi Irawan, Preecha Yupapin P., and Prateep Phataracorn	Graphene Dual Properties, Mobility and Polarisibility: The Challenge J Biosens Bioelectron 5:3 (2014)
3	Fairuz Diyana Ismail, Saktioto	Numerical Studies of Magnetic Field Dynamics in Electrodes Plasma. Komunikasi Fisika Indonesia 11:8 Hal 538-546 (2014)
4	Muhammad Sufi, Saktioto. And Jalil Ali	Distribution Function for Nonlinear Potential Gradient High Pressure Plasma Applied Mechanics and Material Vols. 511-512 pp 85-93 (2014)
5	Saktioto	Multi-Photons Trapping Stability Within A Fiber Bragg Grating For Quantum Sensor Use Komunikasi Fisika Indonesia 11:8 Hal 568-576 (2014)
6	T. Saktioto, D. Irawan, and J. Ali	Experimental Determination of Fused Multi Directional Fiber Coupler 2014 I4CT
7	Saktioto, D. Irawan, J. Ali	Fused Multiport Coupler Technique For Supporting Microactuator to Ischemic strokes 2014 I4CT
8	Saktioto, Dedi Irawan, Defrianto	Optical Power Propagation for Parallel Configuration of Multiple Waveguide Fiber Couplers 2014 I4CT
9	Dedi Irawan, Toto Saktioto, Jalil Ali	An Advanced Technique of Fabricating Multi Silica Directional Fiber Coupler 3 <sup>rd</sup> ICAMPN

### Paper Publication in 2013

1	Irawan, D., <b>Saktioto</b> , Ali, J., Fadhali, M.	Birefringence analysis of directional fiber coupler induced by fusion and coupling parameters Optik 124 (17) , pp. 3063-3066 (2013)
2	Kasim, N., Munajat, Y., <b>Saktioto</b> , S., Farhah Razak, N.	Simulation of Ytterbium doped double clad fiber laser output power by using Liekki Application Designer Software Jurnal Teknologi (Sciences and Engineering) 62 (3) , pp. 99-102 (2013)
3	Jalil, M.A., Ong, C.T., <b>Saktioto</b> , T., Daud, S., Aziz, M.S., Yupapin, P.P.	Ultra-short laser pulse generated by a microring resonator system for cancer cell treatment Application Designer Software Artificial Cells, Nanomedicine and Biotechnology 41 (3) , pp. 152-158 (2013)
4	Jalil, M.A., Phelawan, J., Aziz, M.S., <b>Saktioto</b> , T., Ong, C.T., Yupapin, P.P.	Acne vulgarism treatment using ultra-short laser pulse generated by micro- and nano-ring resonator system Artificial Cells, Nanomedicine and Biotechnology 41 (2) , pp. 92-97 (2013)

### Paper Publication in 2012

1. [Jalil, M.A., Kamoldilok, S., Saktioto, T., Ong, C.T., Yupapin, P.P., Drug trapping and delivery for Alzheimer's diagnosis](#), Artificial Cells, Blood Substitutes, and Biotechnology 40 (5) , pp. 303-308, 2012. **(Impact factor 0.975)**.
2. Estimation of coupling parameters for auto-motorized fabrication of fused fiber coupler, Irawan, D., Saktioto, Ali, J., Fadhali, M., Erwin, Microwave and Optical Technology Letters 54 (8) , pp. 1932-1935, 2012. **(Impact factor 0.675)**.
3. Generation of THz frequency using PANDA ring resonator for THz imaging., Jalil, M.A., Abdolkarim, A., Saktioto, T., Ong, C.T., Yupapin, P.P., International journal of nanomedicine 7 , pp. 773-779, 2012. **(Impact factor 3.130)**.

4. Gold nanoparticle trapping and delivery for therapeutic applications, Aziz, M.S., Suwanpayak, N., Jalil, M.A., Jomtarak, R., Saktioto, T., Ali, J., Yupapin, P.P., *International Journal of Nanomedicine* 7 , pp. 11-17, 2012. **(Impact factor 3.130)**.
5. [Sufi, M., Mohamad, A., Saktioto, Ali, J., Modification model of soliton pulse for higher order, \*Advanced Materials Research\* 403-408, pp. 3744-3747., 2012.](#) **(Impact factor 0.12)**.
6. [Husein, N.A., Saktioto, Yusoff, Z., Ali, J., Slow light in vertically coupled resonator of conical rod portion, \*Advanced Materials Research\* 403-408, pp. 43-47, 2012.](#) **(Impact factor 0.12)**.
7. [Mohamad, A., Roslan, M.S., Saktioto, Ali, J., Electro-optic tuneable of direct current voltage in ring resonator, \*Advanced Materials Research\* 403-408, pp. 4174-4178., 2012,](#) **(Impact factor 0.12)**.
9. [Zainudin, M., Saktioto, Ali, J., Well potential of bright solitary wave in fiber Bragg grating, \*Advanced Materials Research\* 403-408, pp. 4300-4303., 2012,](#)**(Impact factor 0.12)**.
10. Irawan, D., Saktioto, Ali, J., Fadhali, M., Birefringence analysis of directional fiber coupler induced by fusion and coupling parameters, *Optik*, (doi).2012, **(Impact factor 0.57)**.

### **Paper Publication in 2011**

1. Nor Ain Husein, **Saktioto**, Zulfadzli Yusoff and Jalil Ali, “Slow light in vertically coupled resonator of Conical Rod Portion”, *IEEE Xplore*, 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 2011. **(Scopus)**
2. A.Mohamad, M.S.Roslan, **Saktioto** and Jalil Ali, “Electro-Optic Tuneable of Direct Current Voltage in Ring Resonator”, *IEEE Xplore*, 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 2011. **(Scopus)**
3. Muhammad Sufi, Azam Mohamad, **Saktioto** and Jalil Ali, “Modification Model of Soliton Pulse for Higher Order”, *IEEE Xplore*, 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 2011. **(Scopus)**

4. Mardiana Zainudin, **Saktioto** and Jalil Ali, “Well Potential of Bright Solitary Wave in Fiber Bragg Grating”, IEEE Xplore, 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 2011. (**Scopus**)
5. Nor Ain Husein, **Saktioto**, Zulfadzli Yusoff, Jalil Ali, Defrianto,” Slow light in vertically coupled resonator of conical rod portion”, IEEE Xplore, 2011, pp. 250-253, [978-1-61284-264-6/11/\\$26.00@2011](#) IEEE. (**Scopus**)
6. **Saktioto**, Muhammad Hamdi, Dedi Irawan, Jasman Zainal, Jalil Ali, “Investigation of Noise Effect of CMS Laser Lineshape and Frequency Fluctuations”, IEEE Xplore, pp 461-466, 2011. (**Scopus**)
7. Dedi Irawan, **Saktioto**, Muhammad Hamdi, Jalil Ali, Haryana Hairi, “Estimation of Coupling Power Parameters of 1X3 Directional Fused Fiber Couplers”, IEEE Xplore, IEEE Computer Society DOI 10.1109/CIMSim.2011.76, pp.384-387.(**Scopus**)
8. Dedi Irawan, **Saktioto**, Jalil Ali, “Breakdown Voltage Effect on Coupling Ratio Fusion Fiber Coupling”, 2011, Elsevier, Science Direct, *Physics Procedia*, Vol.19, 2011, pp. 477-481. (**Impact factor 0.21**)
9. Mohamed M.Fadhali, Fadhl A.Saeed, Nahlah M.Hashim, **Saktioto** Toto, Jalil Ali, “Investigation of Laser Induced Inhibition and Simulation in Biological Samples”, Optics and Photonics Journal, 2011, No. 1, pp.101-105. (**Impact factor 0.31**)
10. F.D.Ismail, T.**Saktioto**, M.Fadhali, P.P.Yupapin, R.Qindeel, J.Ali,”Thermodynamic equilibrium for nitrogen species discharge: Comparison with global model”, Optik, Elsevier, 122(2011) 455-458). (**Impact factor: 0.507**).
11. [Nawi, I.N.](#), [Saktioto](#), [Fadhali, M.](#), [Hussain, M.S.](#), [Ali, J.](#), Yupapin, P.P., “[A reliable Nd:YAG laser welded stainless steel 304 for photonics device packaging application](#)”, *Procedia Engineering* 8(2011), pp. 380-385. (**Impact factor 0.21**).
12. [Daud, S.](#), [Jalil, M.A.](#), [Najmee, S.](#), [Saktioto, S.](#), [Ali, J.](#), [Yupapin, P.P.](#), “[Development of FBG sensing system for outdoor temperature environment](#)”, *Procedia Engineering* 8(2011), pp. 386-392. (**Impact factor 0.21**).

13. [Nawi, I.N.](#), [Saktioto](#), [Fadhali, M.](#), [Hussain, M.S.](#), [Ali, J.](#), [Yupapin, P.P.](#), “[Nd:YAG laser welding of stainless steel 304 for photonics device packaging](#)”, *Procedia Engineering* 8(2011), pp. 374-379. **(Impact factor 0.21)**.
14. [Chaudhary, K.T.](#), [Qindeel, R.](#), [Saktioto](#), [Hussain, M.S.](#), [Ali, J.](#), [Yupapin, P.P.](#), “[Graphite thin film deposition using laser induced plasma](#)”, *Procedia Engineering* 8(2011), pp. 423-427. **(Impact factor 0.21)**.
15. [Ali, Z.](#), [Lee, S.](#), [Ismail, F.D.](#), [Saktioto](#), [Ali, J.](#), [Yupapin, P.P.](#), “[Radiation self absorption effect in Ar gas NX2 Mather type plasma focus](#)”, *Procedia Engineering* 8(2011), pp. 393-400. **(Impact factor 0.21)**.
16. S Mitatha, N Moongfangklang, M.A.Jalil, N Suwanpayak, **Saktioto**, J.Ali, P.P.Yupapin, “Proposal of Alzheimer’s diagnosis using molecular buffer and bus network”, *International Journal of Nanomedicine*, Dovepress, 2011:6, pp.1-8. . **(Impact factor: 4.9)**.
17. MS Aziz, Nathaporn Suwanpayak, Muhammad Arif Jalil, R Jomtarak, **T.Saktioto**, Jalil Ali, “Gold nanoparticle trapping and delivery for therapeutic applications”, *International Journal of Nanomedicine*, Dovepress, 2011: 7, pp.11-17. **(Impact factor: 4.9)**.

### **Presentations/ Conferences in 2011**

1. Nor Ain Husein, **Saktioto**, Zulfadzli Yusoff and Jalil Ali, “Slow light in vertically coupled resonator of Conical Rod Portion”, 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 4-6 November 2011, Shah Alam, Kuala Lumpur, Malaysia.
2. A.Mohamad, M.S.Roslan, **Saktioto** and Jalil Ali, “Electro-Optic Tuneable of Direct Current Voltage in Ring Resonator”, 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 4-6 November 2011, Shah Alam, Kuala Lumpur, Malaysia.

3. Muhammad Sufi, Azam Mohamad, **Saktioto** and Jalil Ali, "Modification Model of Soliton Pulse for Higher Order", 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 4-6 November 2011, Shah Alam, Kuala Lumpur, Malaysia.
4. Mardiana Zainudin, **Saktioto** and Jalil Ali, "Well Potential of Bright Solitary Wave in Fiber Bragg Grating", 7<sup>th</sup> International Conference on MEMS, NANO and Smart Systems (ICMENS) 4-6 November 2011, Shah Alam, Kuala Lumpur, Malaysia.
5. Nor Ain Husein, **Saktioto**, Zulfadzli Yusoff, Jalil Ali, Defrianto," Slow light in vertically coupled resonator of conical rod portion", IEEE Xplore, 2<sup>nd</sup> International Conference on Photonics (ICP), Kota Kinabalu, Sabah, Malaysia, pp. 250-253, [978-1-61284-264-6/11/\\$26.00@2011](https://doi.org/10.1109/ICP.2011.61284264) IEEE.
6. Dedi Irawan, **Saktioto**, Muhammad Hamdi, Jalil Ali, Haryana Hairi, "Estimation of Coupling Power Parameters of 1X3 Directional Fused Fiber Couplers", IEEE Xplore, 3<sup>rd</sup> International Conference on Computational Intelligence, Modelling & Simulation (CIMSIm), Langkawi, Malaysia 20-22 September 2011, IEEE Computer Society DOI 10.1109/CIMSIm.2011.76, pp.384-387.
7. **Saktioto**, Muhammad Hamdi, Dedi Irawan, Jasman Zainal, Jalil Ali, "Investigation of Noise Effect of CMS Laser Lineshape and Frequency Fluctuations", IEEE Xplore, 2011, IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA), Langkawi, Malaysia (25-28 Sept 2011)
8. Dedi Irawan, **Saktioto**, Jalil Ali, "Breakdown Voltage Effect on Coupling Ratio Fusion Fiber Coupling", 2011, International Conference on Optics in Precision Engineering and Nanotechnology, Singapore (ICOPEN 23-25 March 2011).
9. Hamdi, **Saktioto**, Haryana, Jasman Zainal, Dedi Irawan, Defrianto and Nor Ain Husein, "Semiconductor CMS Laser Lineshape and Frequency Fluctuations", 2011, Nanotechnology and Printed Electronics, International Symposium, Singapore (NANOPRINT 4-5 July 2011).

## **Paper Publication in 2010**

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2. I. Naim, **T. Saktioto**, M.Fadhali, P.P.Yupapin, J.Ali (2010), “Penetration Depth Estimation for Stainless Steel 304L using Pulsed Nd:YAG Laser Spot Microwelding”. (In progress for journal submission to OPTIK) (**Impact factor: 0.507**)
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