

**LEMBAR  
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Identifying the Developmental Phase of Plasmodium Falciparum in Malaria Infected Red Blood Cells Using Adaptive Color Segmentation And Back Propagation Neural Network

Nama/ Jumlah Penulis : **Kusworo Adi**, Sri Pujiyanto, Rahmat Gernowo, Adi Pamungkas dan Ari Bawono Putranto/ 5 orang

Status Pengusul : Penulis ke- 1

Identitas Jurnal Ilmiah : a. Nama Jurnal : International Journal of Applied Engineering Research  
 b. Nomor ISSN : 0973-4562  
 c. Vol, No., Bln Thn : 11, 15, 2016  
 d. Penerbit : Research India Publications  
 e. DOI artikel (jika ada) : -  
 f. Alamat web jurnal : <https://www.ripublication.com/Volume/ijaerv11n16.htm>  
 Alamat Artikel : <https://eprints2.undip.ac.id/391/1/2016-Identifying%20the%20Developmental%20Phase%20of%20Plasmodium%20Falciparum%20in%20MalariaInfected%20Red%20Blood%20Cells.pdf>  
 g. Terindex : EBSCOhost, GOOGLE Scholar, JournalSeek, J-Gate, ICI, Index Copernicus IC Value 82.67

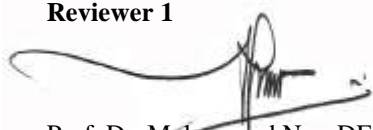
Kategori Publikasi Jurnal Ilmiah (beri ✓ pada kategori yang tepat) :  Jurnal Ilmiah Internasional  
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Semarang, 6 Mei 2020

**Reviewer 1**



Prof. Dr. Muhammad Nur, DEA  
 NIP. 195711261990011001  
 Unit Kerja : Departemen Fisika - FSM UNDIP

**Reviewer 2**



Prof. Dr. Heri Sutanto, SSi, MSi  
 NIP. 197502151998021001  
 Unit Kerja : Departemen Fisika - FSM UNDIP

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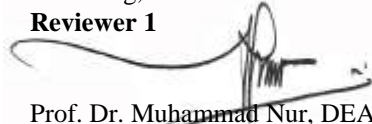
*Referensi mutakhir. Metoda standard dan bisa direflikasi oleh ahli sebidang. Data telah cukup mutakhir dan pembahasan masih sangat kurang.*

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Semarang, 6 Mei 2020

**Reviewer 1**



Prof. Dr. Muhammad Nur, DEA

NIP. 195711261990011001

Unit Kerja : Departemen Fisika - FSM UNDIP

**LEMBAR  
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Artikel telah ditulis secara lengkap sesuai template International Journal of Applied Engineering Research.

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**3. Kecukupan dan kemutakhiran data/informasi dan metodologi:**

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**4. Kelengkapan unsur dan kualitas terbitan:**

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Semarang, 6 Mei 2020

Reviewer 2



Prof. Dr. Heri Sutanto, SSI, MSI  
 NIP. 197502151998021001

Unit Kerja : Departemen Fisika - FSM UNDIP

# International Journal of Applied Engineering Research (IJAER)

**Print ISSN 0973-4562**

**Online ISSN 0973-9769**

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**Prof. Dr. Eng. Ali MERDJI,**

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University of Mascara,  
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**Aims and Scope:** The *International Journal of Applied Engineering Research (IJAER)* is an international research journal, which publishes top-level work from all areas of Engineering Research and their application including Mechanical, Civil, Electrical, Computer Science and IT, Chemical, Electronics, Mathematics, Environmental, Education Geological etc. Researchers in all technology and engineering fields are encouraged to contribute articles based on recent research. Journal publishes research articles and reviews within the whole field of Engineering Research, and it will continue to provide information on the latest trends and developments in this ever-expanding subject.

**Audience:** Mechanical, computer, aeronautical, chemical, civil, electronics, mathematic, geology, electrical.

**Submission:** Authors are requested to submit their papers electronically to [IJAERditor@gmail.com](mailto:IJAERditor@gmail.com)

**INDEXING:** SCOPUS(2010-2017), EBSCOhost, GOOGLE Scholar, JournalSeek, J-Gate, ICI, Index Copernicus IC Value 82.67 and **UGC Approved Journal - 2017 (Journal No. - 64529)**

**Publication Date and Frequency:** Twenty four issues per year.

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**Area of Interest** : Mechanical Engineering - Cad/Cam, Product Design, Rapid Prototyping, Finite Element Analysis

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**Area of Interest** : Power Quality, Electromagnetic Compatibility

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**Area of Interest** : Heterogeneous Catalysis And Development Of Novel Catalytic Green Processes. Catalytic Conversion Of Natural Gas And Light Alkanes Into Intermediates, Fuels And Chemicals Of Higher Added Value. Conversion Of Renewable Biomass For The Production Of Bulk Chemicals, Electrochemical Sensors

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**Area of Interest** : ICT, software engineering

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**Area of Interest** : Encompass Network Centric Data Management, Data

**Science:** - Analytics and Applications, CIoT Big-Data System, and Cognitive Apps Design & Explorations.

**Dr. Liew Pay Jun**, Senior Lecturer, Department Of Manufacturing Process, Faculty Of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka, Durian Tunggal, Melaka, Malaysia.

**Area of Interest** : Electrical discharge machining, machining, micro/nano machining, nanofluid

**Dr. G.PARAMASIVAM** , Associate Professor, Department Of Computer Science, KG COLLEGE OF ARTS AND SCIENCE, Tamil nadu, India.

**Area of Interest :** Image processing, Computer Network

**Dr. Ch. Swapna Priya**, Assistant Professor, Department Computer Science And Engineering, Vignans institute of Information Technology, Visakhapatnam, Andhra Pradesh, India.

**Area of Interest :** Image processing, Pattern recognition deep learning, machine learning

**Dr. K. Sangeetha**, Assistant Professor, Department Of Computer Science & Engineering, SNS College of Technology, Coimbatore, Tamilnadu, India.

**Area of Interest :** Theory of computation, Computer Networks, Advanced Computer Architecture, Operating Systems, Computer Programming, Network Security, Object Oriented Analysis and Design and Data Base Management System

**Dr. Deepali Gupta**, Professor And Head, Department Of Computer Science & Engineering, Maharishi Markandeshwar University, Sadopur, Sadopur, Ambala, India.

**Area of Interest :** Computer Engineering & Information Technology, Software Engineering, Genetic Algorithms and Cloud Computing

**Dr. Ghassan Fadhil Smaisim**, Associate Professor, Department of Mechanical Engineering, University of Kufa, Faculty of Engineering, Kufa, P.O. Box: 21, Najaf Government.

**Area of Interest :** Enhancement Heat Transfer, Renewable Energy, Fluid Mechanics, Thermal Nanofluid Flow, Power Generation, Solar Energy, CFD.

**Dr. Darshankumar Chandrakant Dalwadi**, Associate Professor, Department of Electronics and Communication Department, Birla Vishvakarma Mahavidyalaya Engineering College, Post Box No. 20

**Area of Interest :** Digital Communication, Wireless Communication and M Tech Information Theory and Coding

—

**Jong-Wook Lee**, Electrical & Computer Engineering, Ajou University, Worldcupro 206, Yeongtong-gu. 16499, Geonggi-do, **South Korea**

Area of Interest: I Device structure and materials for sub-0.5V voltage operation, I Scaling-down enabling technology, I Low-power, high-speed devices and circuits.

**Mohd Hafiz bin Jali**, Faculty of Electrical Engineering, Universiti Teknikal Malaysia Melaka, Hang Tuah Jaya, 76100, Melaka, **Malaysia**

Area of Interest: Control system, Signal Processing, Rehabilitation, Human assist technology. Pattern Recognition, Robotic.

**Timon Rabczuk**, Chair of Computational Mechanics, Bauhaus University Weimar, Marienstrasse 15, 99423 Weimar, **Germany**

**Hacene Mahmoudi**, Vice Rector for Animation, promotion of scientific research, Hassiba Benbouali University, B.P. 151, Chlef, **Algeria**

**Mircea Cristian DUDESCU**, Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Department of Mechanical Engineering, B-dul Muncii 103-105, 400641 Cluj-Napoca, **Romania**

Area of interest: mechanics of materials, experimental mechanics, mechanical testing, structural analysis of MEMS.

**Rajeev Ahuja**, Physics Department, Uppsala University, Box 530, 751 21 Uppsala, **Sweden**

Area of interest: Computational Materials Science, Electronic Materials, Spintronics, High pressure, Dynamics.

**Shigeru Aoki**, Department of Mechanical Engineering, Tokyo Metropolitan College of Technology, Shinagawa-ku, Tokyo 140-0011, **Japan**

Area of Interest: Random vibration, Seismic response of mechanical system, Approximate analysis of nonlinear vibration.

**G.Q. Chen**, Department of Mechanics and Engineering science, Peking University, Beijing 100871, **China**



Area of Interest: CFD (Computational fluid dynamics), energy and resources engineering, and systems ecology.

**Anna Laura Pisello**, Department of Engineering, CIRIAF – Interuniversity Research Center, University of Perugia, **Italy**

**Dr. Jahar Sarkar**, Department of Mechanical Engineering, IIT (BHU) Varanasi, UP-221005, **India**  
Area of Interest: Energy, Thermal & Fluid Engineering.

**Verena Kantere**, Centre Universitaire d'Informatique, University of Geneva, Bâtiment A, Route de Drize 7, 1227 Carouge, **Switzerland**

**Kong Fah TEE**, Department of Engineering Science, University of Greenwich, Central Avenue, Chatham Maritime, Kent ME4 4TB **United Kingdom**  
Area of Interest: Structural Health Monitoring and Management, Structural System Identification and Life Prediction, Forensic Engineering.

**B.T.F. Chung**, Department of Mechanical Engineering, University of Akron, Akron, Ohio 44325, **USA**  
Area of interest: Heat Transfer with Phase Changes, Optimum Design of Extended Surfaces, Radiative Heat Transfer System.

**Marcelo J.S. De Lemos**, Departamento de Energia - IEME, Instituto Tecnológico de Aeronáutica - ITA, 12228-900 Sao Jose dos Campos S.P. - **Brazil**  
Area of interest: Turbulence Modeling, Porous Media, Combustion in Porous Media, Numerical Methods, Finite Volume.

**Dimitris Drikakis**, Head of Aerospace Sciences Department, Cranfield University, School of Engineering, Cranfield, MK43 0AL, **United Kingdom**  
Area of Interest: Computational Fluid Dynamics, Aerodynamics, Turbulence Gas dynamics, Computational Nanotechnology.

**A.S. Al-Harthy**, Department of Civil, Surveying and Environmental Engineering, University of Newcastle, Callaghan, NSW 2308 **Australia**  
Area of interest: Concrete material and durability, Recycling construction materials, reliability assessment of structures.

**S.Z. Kassab**, Mechanical Engineering Department, Faculty of Engineering, Alexandria University, Alexandria, 21544 **Egypt**  
Area of Interest : Experimental Fluid Mechanics, Lubrication, Energy, Environment and Pollution.

**Bashar El-Khasawneh**, Chairman, Industrial Engineering Department, JUST, P.O. Box 3030, Irbid 22110 **Jordan**  
Area of Interest: Design process and manufacturing-related sciences and processes, advanced and parallel kinematics machine tools.

**Kazuhiko Kudo**, Laboratory of Micro-Energy Systems, Division of Human Mechanical Systems and Design, Graduate School of Engineering, Hokkaido University, **Japan**  
Area of interest: Radiative heat transfer analysis, transient analysis on surface tension.

**Carlos Mario Morales Bautista**, Calzada Olmeca 105. Cerrada Chiltepec No. 1. Fraccionamiento la Venta. Villa Parrilla II. C.P. 86280. Villahermosa, Centro, Tabasco, **Mexico**



**Ihab Obaidat**, Department Of Physics, College of Science, United Arab Emirates University, P.O. Box 15551, Al Ain, **UAE**

Area of Interest: Nanomagnetism, Superconductivity.

**Huihe QIU**, Department of Mechanical Engineering, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon **Hong Kong**

Area of Interest: Transport phenomena in microscale multiphase flows, micro sensors and actuators, optical diagnostics and instrumentation.

**S.A. Soliman**, Electrical Engineering Department, University of Qatar, P. O. Box 2713 Doha **Qatar**

**Area of Interest:** Applications of State Estimation to Electric Power Systems, Fuzzy and Neural System Applications to Electric Power Systems.

**Dimitri V. Val**, Dept. of Structural Engineering, Faculty of Civil and Environmental Engineering, Technion - Israel Institute of Technology, Haifa 32000, **Israel**

Area of Interest: structural safety and reliability; analysis, design, and assessment of reinforced concrete and steel structures.

**Guo-Xiang Wang**, Department of Mechanical Engineering, The University of Akron, Akron OH 44325-3903 **USA**

Area of Interest: Heat and Mass Transfer, Materials Processing, Solidification Theory and Application.

**Samir Mekid**, Mechanical Engineering Department, King Fahd University of Petroleum and Minerals PO Box 155, Dhahran, 31261, **Saudi Arabia**

**Abdul Razak Rehmat**, Department of Bioprocess & Polymer Engineering, Faculty of Chemical & Energy Engineering, Universiti Teknologi Malaysia, 81310 Johor Bahru, **Malaysia**

Area of Interest: Polymer Processing and Rheology, Biobased Polymer Composite, Microwave Processing of Polymer.

**V.R. Mudinepalli**, Department of Physics, National Taiwan Normal University, Taipei, 11677, **Taiwan.**

**Damodar Maity**, Civil Engineering Department Indian Institute of Technology, Kharagpur, West Bengal, **India**

Area of Interest: Damage Assessment of Structures; Seismic Resistant of Structures; Fluid-Structure Interaction; Sloshing; Concrete Gravity Dam.

**NG EYK**, School of Mechanical & Aerospace Engineering, Nanyang Technological University, 50 Nanyang Avenue, 639798 **Singapore**

Area of Interest: biomedical engg; computational fluid dynamics and numerical heat transfer.

**Mohammad Luqman**, Chemical Engineering Department King Saud University Chemical Engineering Department, Riyadh, **Saudi Arabia**

Area of Interest: Polymer Nanocomposites, Polymer/Plastic, Ionomers, Nanocomposites.

**Mohammad Valipour**, Department of Irrigation and Drainage Engineering, College of Abureyhan, University of Tehran, Pakdasht, Tehran, **Iran**

Area of Interest: Surface and pressurized irrigation, Drainage engineering, Fluid mechanics, Heat transfer in soil media.

**Najm Obaid Salim Alghazali**, Department of Civil Engineering, Babylon University, Hilla, Babylon, **Iraq**

Area of Interest: Hydraulic Structures, Hydraulics, Engineering Hydrology, Groundwater Hydrology, Dams Engineering.

**Sushant K. Singh**, Earth and Environmental Studies Department, Montclair State University, Montclair, 07043, New Jersey, **USA**

Area of Interest: Environmental pollution, Environmental management, Environmental toxicology, Environmental policy.

**Hongseok Choi**, Department of Mechanical Engineering, Clemson University, 205 Fluor Daniel Bldg. Clemson, SC 29634 **USA**

**Ling Zhou**, National Research Center of Pumps, Jiangsu University, No.301 Xuefu Road, Zhenjiang, Jiangsu 212013, **China**

Area of Interest : Fluids Engineering, Multiphase flow, CFD (Computational Fluid Dynamics).

**Dr. Jongwan Kim**, Al-Farabi Kazakh National University, Almaty, Kazakhstan, Senior Lecturer

Area of Interest : Computer and network security, it management, digital forensics, cryptocurrency, blockchain

**Marlen Bissaliye**, Al-Farabi Kazakh National University, Almaty, Kazakhstan, Senior Lecturer

Area of Interest : Computer and network security, it management, digital forensics, cryptocurrency, blockchain

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# International Journal of Applied Engineering Research

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Subject Area and Category

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Engineering  
Engineering (miscellaneous)

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Publication type

Journals

ISSN

09734562

Coverage

2011-2017 (cancelled)

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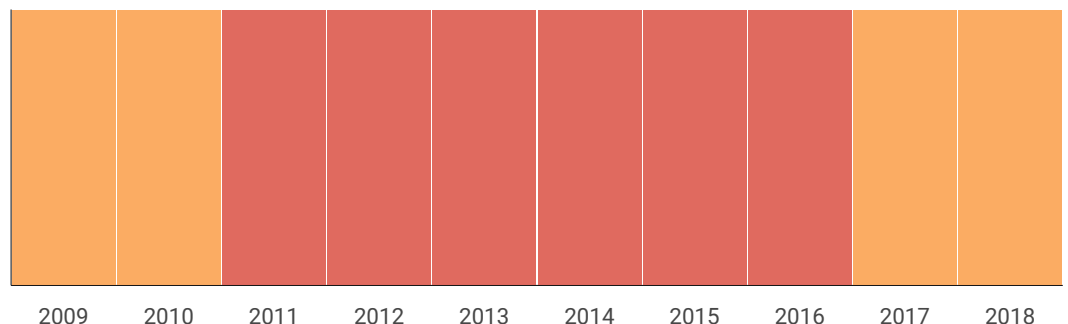
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Engineering (miscellaneous)



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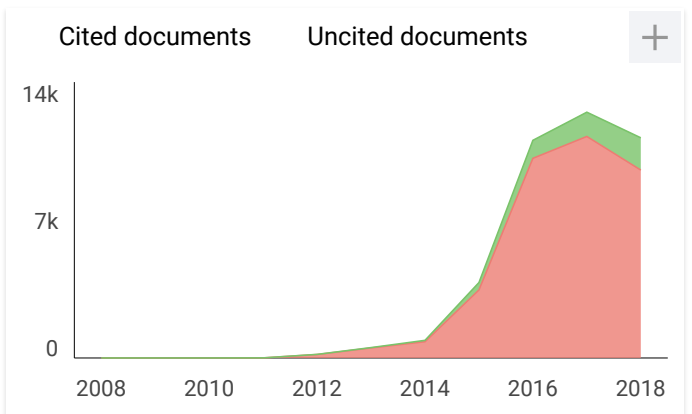
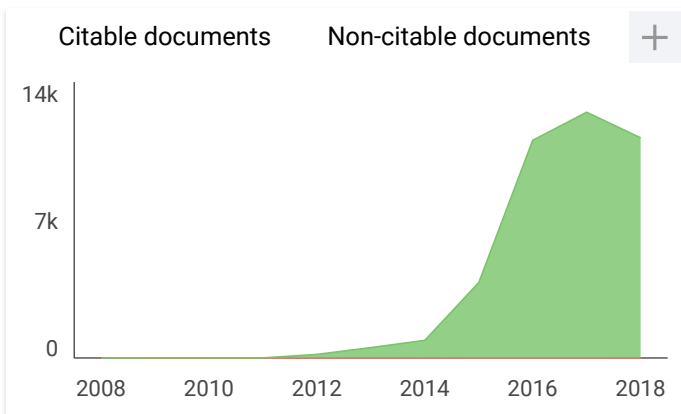
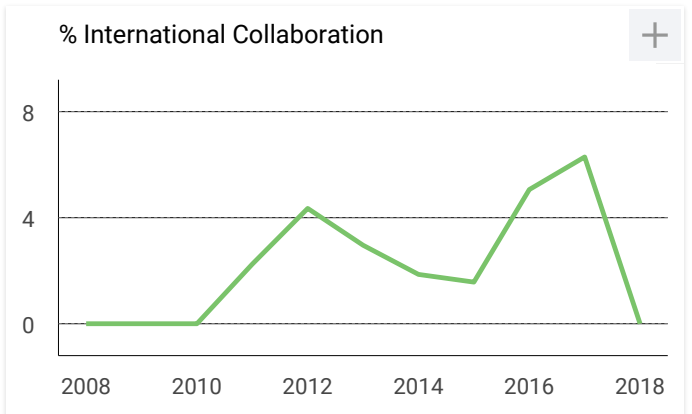
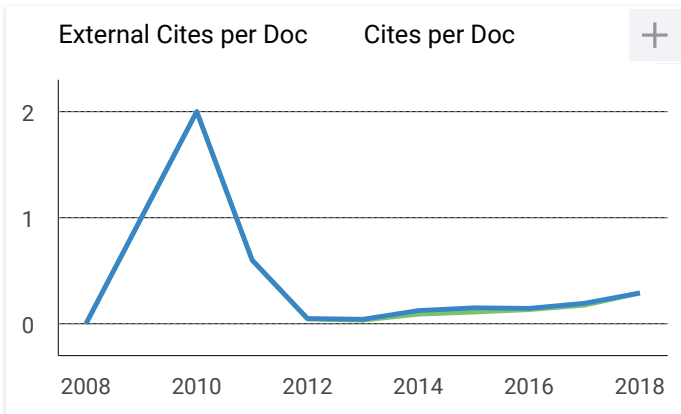
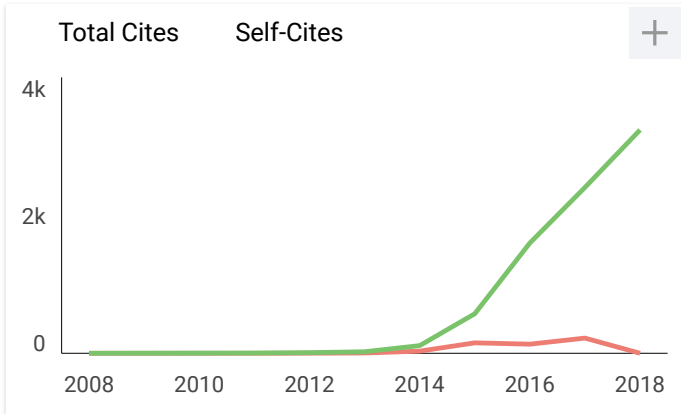
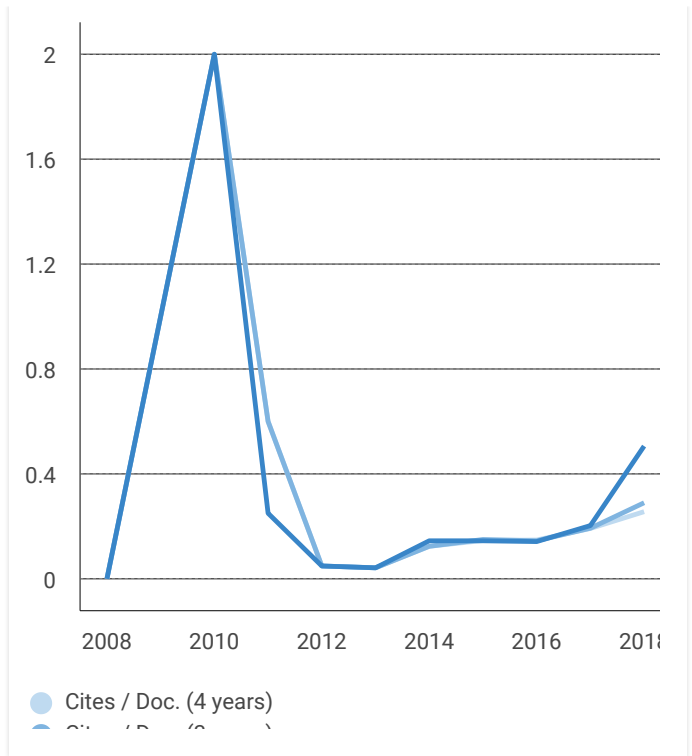
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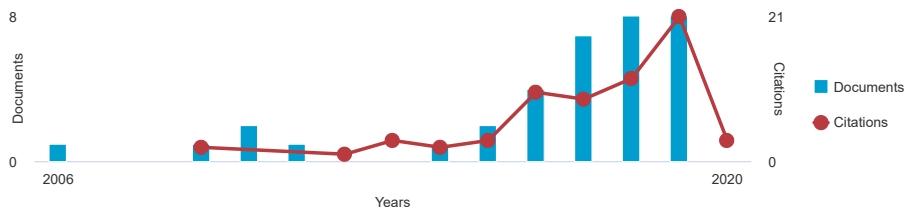
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## Abstract

Malaria is a medical emergency that must be dealt with as it has affected millions of sufferers in 90 countries each year. Malaria is caused by a parasite that infects the red blood cells. It is spread to other people by the Anopheles mosquito. One of the plasmodium that causes malaria is plasmodium falciparum. This plasmodium causes tertiana malaria, which is the most potent malaria type that could even cause death. This research is aimed at designing a system able to identify the developmental phase of plasmodium falciparum in red blood cells using adaptive color segmentation and classify that phase using back propagation neural network. Color segmentation is made possible by converting the color space that is used to be based on the RGB (Red, Green, Blue) components into the HSV (Hue, Saturation, Value) color space. A thresholding is then conducted on the Saturation component. The morphological parameters used to differentiate the developmental phase of plasmodium falciparum are area ratio and eccentricity, whereas the back propagation neural network algorithm is used to classify that phase. The results are 87.80% accuracy during training, and 87.14% accuracy during testing. © Research India Publications.

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