

Hahslm Equation in Quran Al-Hijr 15.87

Roikhan Mochamad Aziz¹

¹State Islamic University (UIN) Syarif Hidayatullah Jakarta, Indonesia

Keywords: Quran; Equation; Hahslm; Islam; Science

Abstract: The research aims to found the form Quranic equation that almost able to unite the dimensions of time and space, but it still needs clear structure and systematics of the concept. Islam in the Quran Surah Al-Hijr [15]: 87 was interpreted as instruments of 7 and Quran. Quranic equation can be synchronized with the symbols of the root word of Islam. The research data from Quran and real factor in universe. The methodology uses system approach based on prophecies development and empirical values. The approach of the study is descriptive analysis with comparative advantages. The conclusion is Quran has equation as $H = Ah$ (SLM) to be a fundamental pattern of the creation.

1 INTRODUCTION

The concept of creation is begun by Islam. Grand Unified Theory and Islam can reconcile together which means Islam and its science certainly in accordance with nature and universal values (Edgar, 2013). So that the center point of the highest human civilization is Islam. In this study revealed that science originated from concept of Islam as a comprehensive system with the approach of Quarnic language (Arabic hijaiyah) from the root word of Islam by three consonants, sin, lam, mim. Then formulated in the function of Islam as H Theory based on the basic philosophy of ontology in Islam, epistemology in kaffah, and axiology of two directions. These function of H Theory can be explained as the background is Islam with big picture Kaffah concept which has balance of two directions.

Islamic knowledge must have a foundation of thought as a theory to be implemented in the field according to the progress of science at this time. Synchronization is required between theory derived by the Quran and the practice in the simulation or in the modern technology, so it took the corridors of the high concept from the basic sciences of Islam itself.

The first element is God, then the second element is human, and the third element or feedback is worship, as well as the other two elements are the path and straight. This formulation of Islam is derived by the Qur'an Surat A-Hijr [15]: 87.

Islamic Science can be developed in academics environment by integrated with Al-Quran and As-Sunnah, and also bring the concept of 3 dimensional elements where first element is God, second element is nature, and third elements is religious service. In the future, the integration is more difficult to be explained in the nano era. The reason is the modern science has rapid progress in some aspects. The capability of the scholar will be more focus and more partial. This will have a group of scientist to be in right concern and on the other hand the are a group of scientist that focus in left research. It will more difficult to have the middle scholar again. To accomodate the partially effort of religion and science then the scholar suggest to have new approach that is reflexivity. This will be the future concept of reflexivity about Islam and science. Islamization had been come from scholar with fiqh approach then current development as integration is contributed by scholar with modern approach. In the future there are scholars develop reflexivity concept with approach of universal pattern. The differentiation among three theories are: Islamization to explain science that has relation with Quran and Hadist, Integration to explain science with comparison between invention from classical Islamic scholar and modern contemporary scholar, and Reflexivity to explain science by showing the repetitive pattern from Islamic treasure and invented science.

Case study of the reflexivity approach is about to analyze the reflexivity of invention such as

Relativity Theory. History of this theory was spelled out by Einstein (1905) that founded $E=mc^2$ to develop theory into relativity. Relativity analyzes about space and time that have different perspective. However, since 1400 years ago Islam was already having an explanation about it and in the 9th century Allah Swt showed us all the evidence of the miracle of space and time through the story of Ashabul Kahf. In this study explained about the equation of $H=ah^q$ in the theory of reflexivity that shows the same direction from Quran into empirical study. The result of this research describes the pattern of equation $E=mc^2$ can be founded in some universal evidences such as rotation of earth and days of year for Qauniyah perspective and in Quran for Qauliyah perspective. The ultimate of $H=ah^q$ is invented by muslim scholar from the exploration of Quran in spiritual thought, where $E=mc^2$ was invented by non muslim scholar with physics theory in secular thought. Allah Swt put the holy proof for people to think that Allah Swt is Greatnes One that human can only found the mystery of universe after decades.

Einstein's theory of relativity does a fundamental redefinition of our understanding of space and time, which has been rooted for centuries. Serious thought of space and time, in the context of modern science, has at least emerged since Newton discovered laws of mechanics and gravity over three hundred years ago.

The theory of relativity teaches us (and quantum theory) to understand the deeper structure of the workings of the universe, through the laws of physics. In the 19th century, the phenomenon of light, as well as electricity and magnetic fields began to be understood as aspects of the electric field and magnetic field. Maxwell's equations give a change relationship in the magnetic field followed by changes in the electric field, and vice versa. Maxwell found the solution of electromagnetic phenomena in the form of electromagnetic waves that propagate with constant speed.

The physics was born in the nineteenth century, supported by two great theories namely Newtonian mechanics laws and Maxwell's electromagnetic theory; Certainly with the addition of a series of basic concepts in thermodynamics, hydrodynamics, optics, and so on. If the physics is over: the basic principles of nature have been understood, and which needs to be developed and then its application to the industrial world, engineering, technological development. In the same time, at the beginning of the 20th, the foundations of two great theories are found: quantum theory and the theory of relativity. The theory of relativity in a

limited version was developed based on Maxwell's electromagnetic theory.

Then it was Einstein (1905) who laid the physical foundations of special relativity explicitly and found surprising logical consistencies. During a period of very incentive weeks between April and May of 1905, Einstein struggled with the principle of relativity. Finally, in June 1905, Einstein formulated it in a paper with a simple title "About the Electrodynamics of Moving Things". This paper alters forever our understanding of space and time, and ends the controversy about aesther. However, this problem does not stop there, and Continued to disturb Einstein until ten years later, until he formulated the general theory of relativity. Meanwhile, in the holy book of Muslims, the Qur'an there are several verses that pertain to the theory of relativity, one of them in Surah Al-Hajj [22]: 47, which means, "Surely a day beside your Lord is like a thousand years from the years You count".

2 THEORY

Special relativity is the theory of space-time structure. Introduced by Einstein through his work of 1905, About the Electrodynamics of Moving Things (for other physicists' contributions see the History of Special Relativity). Special relativity indicates that if two observers are in an inert frame of reference and move at equal speed relative to other observers, then both observers can not experiment to determine whether they are moving or silent. The special theory of relativity rests on postulates that the speed of light will be equal to all observers in an inertial frame of reference.

General relativity is the theory of gravity developed by Einstein in 1907-1915. The development of general relativity begins with the principle of equivalence, in which the state of motion is accelerated and dwells on a gravitational field (eg, when located on the surface of the earth) that is physically identical. The result is free fall is the inertia motion: the falling object will fall because that is how the object moves when no force is applied to it, not by gravity as in the case of classical mechanics. Then this is incompatible with classical mechanics and special relativity because in theory these inertia-moving objects cannot accelerate against each other, but objects that fall freely can. To solve this problem, Einstein proposed that space-time is curvature.

Doubts scientists to ensure there is one theory that capable of being single theory to explain all existing theories, give an encouraging other inventors around the world to bring up their theory respectively. There are many scientist comes up from different perspective such as mathematics, sciences, economics, socials, religions, and other factors.

Theory H has been defined as (narrow) the archetype of dominant three theory in typical context with five dimensional array invariance. And (broad: most common usage) the basic concept theory of creation pattern in a certain relationship. H derived from Hahslm equation, stands for Huda, or Quran surah Hijr. H' or Big H In Indonesia, the name of H' was reserved for the Guidance Human of high or noble rank. The "H" prefix can reasonably be taken as meaning something to be guided, in the sense of "of the guidance of ...".

Modern science in the early 20th century AD was amazed by the discovery of a German scientist that published a special relativity theory in 1905. One decade later, Einstein Who was asked by Time Magazine as a figure of the XX century sparked the theory of general relativity (general relativity theory).

The theory of relativity was formulated as $E = mc^2$. The formula of such a popular theory of relativity suggests that the speed of light is constant. The special theory of relativity that Einstein relates to matter and light travels at incredibly high speeds.

Whereas, the general theory of relativity states, any mass object causes spacetime around it to bend (geodetic wrap effect). Through both the theory of relativity Einstein explains that electromagnetic waves do not correspond to the Newtonian movement theory. Electromagnetic waves are proved to be moving at a constant speed, unaffected by the observer.

The crux of both theories states that two observers moving relative to each will get different time and space interval for the same event. Even so, the contents of physical law will look the same by both. With the discovery of the theory of relativity, man can explain the properties of matter and the structure of the universe.

The theory of relativity is a revolution of mathematics and physics. Indeed, 1,100 years before Einstein sparked the theory of relativity, Muslim scientists in the 9th century AD have laid the foundations of the theory of relativity. Is a scientist and philosopher of the legendary Al-Kindi who sparked the theory.

It is not surprising that a great scientist of Al-Kindi had sparked the theory in the 9th century AD. Moreover, the 801-year-old Kufah-born scientist must have mastered the holy book of the Qur'an. For, no doubt if the verses of the Qur'an contain absolute knowledge and always be the key to the mystery covering the universe of this universe.

Adam and van Loon point out that reflexivity as self-confrontation is to mean anything in this context it is not a confrontation between two sets of calculations, and also reflexivity in this context requires us to compare that is looking back upon that which allows us to reflect in the first place (2000:7).

In Islam, sciences values came from Quran and Hadits in the form of universal principles. While other knowledge system only focused at causality and positive in a laboratory activity, Islam preferred to have ethics and values which is implied in theory activity. These values always constitute in every single Islamic environment.

The big picture of Islamic Science is based on kaffah thinking, which can be labelled as everything sciences, while Stephen Hawking proposed the theory of everything. The appearance of this everything sciences concept represent the beginning of whole life system.

The ontology of Kaffah concept is Islam. This can be conjunction with existing life system in human being, environment, and universe. All creations by God could be pointed as the form of Islam.

The word of Islam has root word from 3 initial letters and 1 letter which are alphabet 'a' or alif in Arabic ا, 's' or sin in Arabic س, alphabet 'l' or lam ل, and alphabet 'm' or mim in Arabic م. There is sentence in Holy Book from Moslem, Quran, as a ultimate source the meaning of ontology for Islam, that is QS. Ali Imran [3]: verses 19.

﴿إِنَّ الدِّينَ عِنْدَ اللَّهِ الْإِسْلَامُ﴾

Really, the system beside Allah is Islam.

The new concept can be made a Scientific Method if it has fundamental of knowledge according to basic science. One of requisite in philosophy study is epistemology. Epistemology is philosophy branch which study exhaustively the whole process to obtain science. Epistemology studied about knowledge philosophy which is

related to origin of science, how to get knowledge, and validity of thinking.

Islam can be meant as a system with holistic approach, comprehensive view, and Kaffah perspective. Then Islam as a system becomes the root of concept to integrate in science concept which called Kaffah.

Kaffah Science emerges in epistemology based on the argument that all concept of basic life is Islam which is considered as a system. This epistemology can be found in a sentence of Quran Surah Al-Baqarah [2]: verses 208:

يَتَأْتِيهَا الَّذِينَ ءَامَنُوا أَذْخُلُوا فِي السَّلَامِ كَافَّةً

To religious people enter all of you into Islam by Kâffah.

Studying about epistemology is not enough, without describing its axiology. In consequence of Islamic epistemology, there has to involve a picture of axiology. Analysis in Science Of Islam for axiology explains about know how in values and benefit of the knowledge. Human being will not conduct something without involving factor of advantages and disadvantages.

Function of epistemology in Kaffah Science made axiology in the form of equilibrium for human real life. Begin with ontology as Islam for the fundamental of life, then epistemology as Kaffah for science, and then axiology in the form of application of knowledge such as good and bad for balance.

In this axiology relation has 2 matters representing good and bad. The existence of Islam can be done by Kaffah concept. The equilibrium between well and ugly can be read in QS. Saba [34]: verses 28 which expressed 2 matters that is "carrier of good news and giver of commemoration".

يَتَأْتِيهَا الَّذِينَ ءَامِنُوا
أَذْخُلُوا فِي السَّلَامِ كَافَّةً

We have not sent thee but as a (Messenger) to all mankind, giving them glad tidings, and warning them.

Science of Everything based on above 3 science philosophy framework. First, ontology made Islam as basic thinking. Second, Kaffah epistemology of Kaffah represented value of

science. Third, axiology performed the balance in regard to good and bad.

From this three frameworks, it can be built new paradigm that is Scientific Method of Islam. This methodology can be referred to Quran with words 'Silmi Kâffah', with interpretation the word 'silmi' is derived from letters of sin lam mim⁸, and sinlammim is a root of Islam.

Scientific method of Sinlammim represents one of the solutions to break the stagnation of new science in order to solve some elementary problems. This approach has effort to integrate between the science and religion. Sinlammim is important to become a counter balance in overcome basic question of science. This new paradigm in line with growth of human latest knowledge which already need to look for a middle course of problems in existing science by having new way theory related to spiritual. From time to time human being wishes better civilization and can answer the basic question of life. One of the example how the methodology of Hahslm is very simple can be seen on human hand.

Definition of H Theory according to Roikhan (2015) are:

1. Narrowly, H Theory is defined as the theory of archetype by the dominant of three elements in a particular context at five-dimensional invariant arrangement.
2. Widely, for the most common use H Theory can be interpreted as a theory of the basic concepts in creation pattern with a certain relationship. H derived from the formula of Hahslm, quran letter of Hijr, also stands for Huda or Holy.

And the meaning of H Theory:

1. A complete set of systems / holistic / integrated part that consist of three main elements, primary (creator / intermediary), secondary (creation / receiver), tertiary (worship / transmitter).
2. These three elements will meet the statement that the primary is the highest and secondary is below, and do it tertiary (God created human to worship).

To know the philosophy of H Theory, it is necessary to deep understand about ontology that has been associated with Islam, both literally and meaning. Further development in epistemology that

Islamic institutions has Kaffah is presenting new terminology into a more comprehensive approach. In general philosophical H Theory can be sentenced sequentially: the background of H Theory is Islamic values with the comprehensiveness concept through a balanced way to embody the meaning of worship in life.

This is in accordance with the Quran that reads 'silmi kaffah' with the explanation that the word 'silmi' is a derivation of the letter sin lam mim. The word root of sinlammim in general is one solution to penetrate the development of the concept in order to solve the fundamental problems. It was felt the need for a better method to be a balance in addressing the limitations of the methodology in the study of Islam.

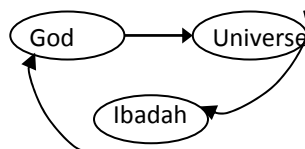
Figure 1 Posts Islam In The Human Hand



Source: Aziz, 2006

It is also in line with the current development of civilization that it deems necessary to find a bridge ground on the issue of existing civilization institutions by switching to matters which related to the spiritual. In the near future, human ask for more better idea, sharper and able to answer all aspects. This will be the impetus of proof that the H Theory is also includes the search for identity regarding the simplest of Islamic knowledge which started from a human hand.

Figure 2 Thinking Kaffah In Islam



Source: Aziz, 2010

The figure of kaffah thinking in Islam above means that a comprehensive system must be

worth of Islam, so that a kaffah system will consist of 3 main parts: God, Nature, and Worship. These 3 variables will metamorphosis into particular context of the focus topic. But the basic idea of a system or sub-system intact, it must consist of 3 things. H Theory approach can be developed in life such as actions institutional development. By changing the first element of the God to action macro elements, then the second element is nature which can be converted into a an action micro element, and third element is feedback can be converted into worship then transformed into action opportunities in life.

Basic word that consists of 4 letters (3 letters + 1 letter) became the main root word to form the word of Islam. Then this basic word will be written in a simple equation to proof about Islam equal to alif sinlammim.

Function 1

$$\text{Islam} = \text{Alif (Sin, Lam, Mim)}$$

Where, Islam = I, Alif = A, Sin = S, Lam = L, Mim = M.

Formula:

$$I = A (S, L, M) \dots\dots\dots (1)$$

Now from the word Islam that equation has 4 variables: alif, sin, lam, mim. These 4 variables will be used as benchmarks for the development of other formulas. There are verses in the Qur'an Surah Al-Hijr [15]: 87:

وَلَقَدْ آتَيْنَاكَ سَبْعًا مِّنَ الْمَثَانِي وَالْقُرْءَانَ الْعَظِيمَ

"And I gave you 7 repeated and Quran the deep" (Q.S. Al-Hijr [15]: 87).

From H Theory above, the formula obtained the dimensions of time and space. Implicitly Allah mentions 7 is repeated, then human civilization interprets that after 14 centuries later as a symbol of the time dimension from arguing the word of matsani or repeated. While the Quran is symbolized as dimension of space that divided into 4 forces, it is interpreted from word of azhiim or deep meaningful space. In the science, the dimensions of space has been divided into four forces.

According Roikhan (2015) from verse 15.87, the theory obtained two main variables, 7 (Seven) and the Qur'an. Seven (7) is regarded as an

absolute variable, and the Quran can be factorization into 2,3,1,9. In multiply function, the result of $2 \times 3 \times 19$ is 114. So the formula get five numbers, 7,2,3,1,9. To make it easier to be read in a formula, the numbers are converted into letter. In the above table can be seen 7 to A (Alif), 2 to h (Hanif), 3 to S (Sin), 1 to L (Lam) and 9 to M (Mim) the finally get AhSLM formula. To make an equation, it requires the dependent variable, the variable is H (Ha). Ha derived from the number 4. The number 4 is derived from the sum of independent variables: $2 + 3 + 7 + 1 + 9 = 22$. And 22 can be digital root into $2 + 2 = 4$. Finally, there was an equation that $H = Ah$ (S, L, M). This formula can be read as an everyday life, for example H is life then A reflects the corridor or boundary in the community, h reflect the balance of circumstances, S reflects the relationship with human and surrounding, L reflects the relationship with the creator of universe, and M reflect the intangible relationship or natural chain. Variable M is elusive in life.

The differentiation approach between the existing formula with the formula refers to scripture is the weighting factor. In the conventional approach, results category will be emphasized in the form of tangible or physical value that more visible. While the religious approach will emphasize the intangible or more than a physical perspective which also include the value of religiosity or worship. Even if these 2 approaches are aligned, there will look the same formula, but when implementation occurs then there will be deviation in results interpretation. Scientific secular will underlie the data segment implementable, or empirical. While Islamic scholars will continue to enter not only empirical but also the amount of religiosity or intangible value.

The research of technology more thoroughly to own up until nano technologies which build a science more better and more precise based on the scriptures the Quran. If it reaches the very high formula and very sharp, it is very easy to recognize the mistake, when there is a little difference among formula. So, if there is a formula which is more better and more precisely, then God has promised to give more easier and more accurate to get another invention.

3 ANALYSIS

Hahslm Theory can be benchmarked with theory in Physics, there are 3 important variables, space, time and motion. Time is represented by God that the ultimate dimension. Time is the enforcer of

life as God, the support for all its creatures. In the theory of Physics: time is closed to God think. Space is considered very important and it can be symbolized to sun. Space includes land space, sea space, and air space. Space is the place for all living things, a place to direct people to worship God. Last variable is motion where the entire universe moves like the earth that surrounds the sun.

The exposure of 3 important variables time is described as the spine that sustains human life. Time keeps spinning as time goes by. Muslims are obliged to always use the best time possible to practice worship. Spinning earth spinning the sun. This rotation slowly continues to slow because of the influence of the moon's gravity. In addition, the moon and the sun also have movements, the moon is identical to the night, at night, the illuminating is the moon, although dark, there is still light that will illuminate like a candle. Candles can provide light in the room.

More than 70% of the earth's surface is covered by water, and the remainder consists of continents and islands with many lakes and water sources. Water flowing of course used a lot of people for life. Water is used for cooking, drinking, washing, to perform ablution solat. With the clean water to meet the needs of the community, the community has a healthy body, thus making the community more productive in carrying out daily life. As a productive human being, must perform useful activities such as studying in college.

The universe is indeed filled with mystery. All that exists in this world is the work of God. And the key of all this is already in the Qur'an. In everyday life, the symptoms of time dilation can not be observed. This is because we move at a much smaller speed than the speed of light. Supersonic aircraft alone are only 3 or 4 times the speed of sound, which is 1 km / second. To observe the symptoms of time dilatation well required observer who has a reference speed U, which approaches the speed of light C is 300,000 km / sec.

The Qur'an has carved the science of Relativity in Surat al-Kahf. In the surah is told 3 pious young men who avoid the polytheism of his people that time. They hide in the cave, pray and bermunajat to his Rabb. This can be proven by analysis through modern physics, Einstein's theory of relativity. "If an object, a living thing or anything that moves at a certain speed (near the speed of light), then the object will experience time dilation and long contraction).

In Islamic evidence, the approach of existing era has a very strong basic to define two-

dimensional concept and no basis at all to explain the origin of 3 (three) dimensions. Islam has a very strong reason to explain the 3 (three) dimensions and as the property that belongs to Islam. And the evidence of structures 2 from conventional concept and structures 3 from Islamic concept is very strong, and it is absolute to distinguish between the secular and Islamic view.

The differentiation approach between the existing formula with the formula refers to scripture is the weighting factor. In the conventional approach, results category will be emphasized in the form of tangible or physical value that more visible. While the religious approach will emphasize the intangible or more than a physical perspective which also include the value of religiosity or worship. Even if these 2 approaches are aligned, there will look the same formula, but when implementation occurs then there will be deviation in results interpretation. Scientific secular will underlie the data segment implementable, or empirical. While Islamic scholars will continue to enter not only empirical but also the amount of religiosity or intangible value.

The research of technology more thoroughly to own up until nano technologies which build a science more better and more precise based on the scriptures the Quran. If it reaches the very high formula and very sharp, it is very easy to recognize the mistake, when there is a little difference among formula. So, if there is a formula which is more better and more precisely, then God has promised to give more easier and more accurate to get another invention.

4 CLOSING

4.1 Conclusions

The results of this study with the formula of Al-Quran, especially Al-Hijr [15]: 87 yields the equation that creation consists of time and space that is $H = Ah (S, L, M)$ which also corresponds to the conventional formula which states that there are dimension of time and space which consists of four forces. So the equation of conventional and Islam will make new era that H Theory as a new benchmark in better science and more appropriate, because it derived from the holy book the Quran itself which is the word of Allah as the creator of this universe.

Technically formula, the differentiation of Islamic H Theory is at variable of worship where in conventional theory it symbolized with gravity

force. In the empirical findings, the data represented by gravity in tangible value, while the value of worship represented in intangible value.

This modeling will be new nano-technology approach in the future due to its accuracy derived from the formula of God to be able to bridge the complexity of science which will be achieved by humans. So the purpose of this study is to provide a theoretical basis in the form of functions that can be used as a resultance point for the complexity of current knowledge but still refers to the holy book, as well as universal values given by Allah SWT.

4.2 Theoretical Implications

H Theory has become the new benchmark in Islamic science that inspired by the Quran. The theoretical implications of this new theory would add to the treasures of the theoretical basis for the science development. So that the references of current science not only the hard core theory of western theories or conventional theory, but also can refer to Islamic theory as the H Theory.

REFERENCES

- Acel, Amir. (1999). *God Equation: Einstein, Relativity, and the Expanding Universe*. New York, Random House.
- Al-Qur'an al-Karim dan Terjemahnya*. (2006). Lembaga Percetakan al-Qur'an Raja Fahd.
- Al-Zarqa, Mustafa Ahmad. (1968). *Al-Madkhal al-Fiqhi al-'Am*. Beirut: Dâr al-Fikr, Vol.1.
- Al-Zaydan, Abd al-Karim. (1989). *Al-Madkhal li Dirazah al-shari'ah al-Islamiyyah*. Beirut: Muassasah al-Risalah.
- Al-Zuhayli, Muhammad. (1992). *Marja' al-'Ulum al-Islamiyyah*. Damascus: Dâr al-Ma'rifah.
- Aziz, Roikhan Mochamad. (October, 2009). Kaffah Thinking On Sinlammim Method Through Digital Root, Proceeding, UKM Malaysia.
- Bagir, et al. (2005). *Integrasi Ilmu dan Agama: Intrepretasi dan Aksi*. Mizan Pustaka, Bandung.
- Doebelin, Ernest O. (1998). *System Dynamics: Modeling, Analysis, Simulation, Design*. Cambridge: CRC Press.
- Escultura, Edgar E. (2013). *The Logic and Fundamental Concepts of The Grand Unified Theory*. Journal of Modern Physics. India.
- Forrester, Jay W. (1981). *Industrial Dynamics: A Major Breakthrough of Decision Maker*. Editor Edward B. Roberts. Cambridge: *Managerial Applications of System Dynamics*, The MIT Press.
- Jumin, Hasan Basri. (2012). *Sains dan Teknologi dalam Islam*. Rajawali Pres, Jakarta.
- Mochamad Aziz, Roikhan. (2018). *Islam Dan Pengetahuan*. Salemba Diniyah, Jakarta.

- Richardson, George. (1991). *Feedback Thought in Social Science and Systems Theory*. Pennsylvania: Univ. of Pennsylvania Press.
- Roikhan, Mochamad Aziz. (2016). *Teori H Sebagai Turats Dan Wahyu Dalam Islam*. Jurnal Ushuluddin, UIN Riau.
- Sayyid, S. (2015). *Islam and Knowledge*. Dakota. Science Publishing.
- Shihab, M. Quraish. (2002). *Tafsir al-Misbah*. Jakarta: Lentera Hati.
- Taylor, Washington. (2001). *M(atrix) Theory: Matrix Quantum Mechanics As a Fundamental Theory*. Institute For Theoretical Physics. California.
- Zuhaili, Wahbah. (1999). *al-Fiqh al-Islâm wa Adillatuhu*. Terj. Jakarta: Bank Muamalat.

