

Chapter 1

Understanding Recep Tayyip Erdoğan and Turkey with Plasma as a Metaphor of the Fourth State of Matter

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Abstract This study is only concerned with and limited to “Recep Tayyip Erdoğan’s leadership and Turkey” as one of the unlimited topics discussed in an international context and Turkey regarding Recep Tayyip Erdoğan and Turkey itself. There is need to emphasize the fact that it is not easy at all to understand and explain Recep Tayyip Erdoğan’s leadership and Turkey. Why would you say so, because trying to understand and explain “Recep Tayyip Erdoğan’s leadership and Turkey” with ordinary concepts, approaches, and preconceptions, is not only difficult to correct but may be impossible and indeed a complex and an unusual case of perception altogether. This makes us seek a different, peculiar, original conception, and approach. Thus, because of the close relationship between leadership and some properties of the fourth state of matter, I have adopted plasma as a metaphor to explore Recep Tayyip Erdoğan’s leadership; and I have endeavored to negotiate such a jig-saw within a limited context.

1.1 Introduction

Recep Tayyip Erdoğan, Turkey and other political issues have been discussed intensively in local and international contexts for the last 12 years. When this article has been written, there are 4 months left to general in Turkey (June 2015), which will be the first time the AK Party goes into an election without Erdoğan during this period. Whether the expression will not be like other presidents or not remains to be seen since, as known, Erdoğan has kept the presidential system so active

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and put his on agenda throughout this period. This indeed makes his leadership, approach and views even the more prominent. This discussion includes a scale of instability point, positive and negative extremes, superficial or deep contexts, love and hate contexts, anger and gratitude context or different constructive and destructive emotions towards him. At this point in this discussion, it is important to emphasize the fact that I have offered a part of this study to the debate but our analysis has only captured some of the key idiocies intended. This study is a product of efforts to explain preconceptions and understanding without judgment of the 9 elections within about 12 years in the history of the Republic. At the same time, the study explores Turkey's 12th President, Recep Tayyip Erdoğan, a leader of Turkey first directly elected by 51.8 % of the vote in terms of his leadership style and performance. This effort is different, original, with an original conception as well as some properties of matter and thus, the result of our approach is a bold experiment in the academic sense for adoption of the fourth state of matter – plasma as a metaphor for examination of leadership.

At the same time, this work is a brave initiative in the context of academic stance against those who have claimed that Recep Tayyip Erdoğan, is a dictator and even those who attended his invitation from some artists has been lynched through social media in the world and in Turkey.

Come on now, let's talk about plasma as a fourth state of matter to understand Erdoğan's leadership.

1.2 Plasma as a Fourth State of Matter

Plasma refers to an ionized gas consisting of positive ions and free electrons in proportions resulting in more or less no overall electric charge, typically at low pressures (as in the upper atmosphere and in fluorescent lamps) or at very high temperatures (as in stars and nuclear fusion reactors). Plasma is the largest component of blood, making up about 55 % of its overall content. It's mainly made of water and surrounds the blood cells, carrying them around the body.

Plasma helps maintain blood pressure and regulates body temperature. It contains a complex mix of substances used by the body to perform important functions. These substances include minerals, salts, hormones and proteins. Three important proteins found in plasma are:

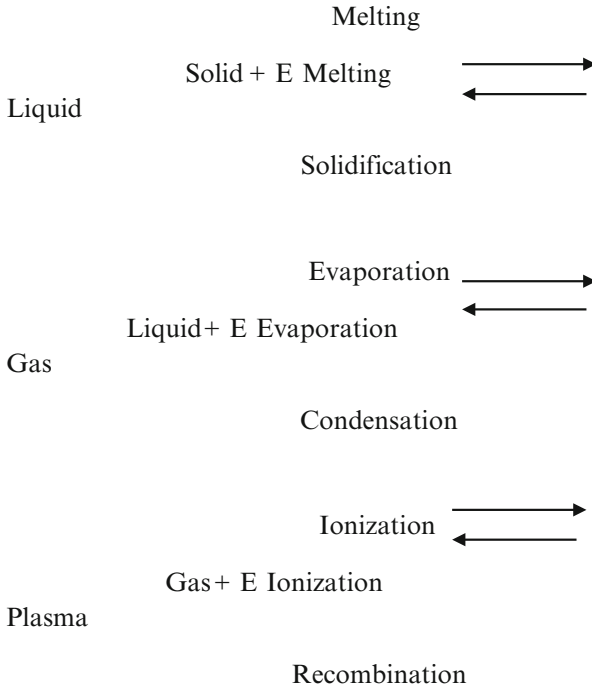
- albumin
- clotting (coagulation) factors
- immunoglobulins

The concept of Plasma began appearing in physics literature since the early 1920s. Czech scientist Johannes Purkinje used the concept of Plasma for the first time, in our language meaning 'blood fluid, serum' ([4], p. 1). In 1927, Nobel

Prize-winning chemist Irving Langmuir defined “plasma” as neutral, ionized gas; then in subsequent studies the concept of Plasma has been proposed as the “fourth state of matter” ([15], p. 12). Research on plasma has produced results such as, the ionosphere which reflects radio waves and the discovery of the radiation belts around the world, the understanding that the universe is largely composed of plasma. These results suggest that future possible energy sources evaluated as “controlled thermonuclear fusion” have been of great interest since their birth since the 1960s. These have been used especially in areas such as defense “of high power laser” which has led to the beginning of a massive production in the field ([10], p. 7):

Plasma is analyzed again as having a different structure from the principles of solids, liquids and gases. Solid, liquid and gaseous states I often experience in everyday life are well known structures. However there are key questions to pose here; what plasma? How close to us could this fourth state of matter be in everyday life? How much are you aware of the matter in this case? Introduction to the literature of the plasma concept seems a century ago. However, explaining the formation of the universe using the “big bang model” shows that the presence of the scope of plasma is about 15 billion years ago, based on the big bang. The debate on the structure of matter is as old as human history. Together with the big bang explosion, the first state of the universe in which everything is so hot is that of plasma. Later, when the universe cools, it turns into gas, liquid, and finally solid state respectively. If we are to look at this as the first state of matter, then Plasma should be known with a very high temperature. As this terrific energy cools, it gives life to the other states of matter ([6] pp. 1–3).

Matter’s structures are classified according to the arrangement of atoms and molecules; the temperature classification is associated with different states. At room temperature the solid state atoms are less active than the same in liquid state atoms. Mobility in the given internal structure of the heat substance or matter can be improved. Heating a solid material increases mobility in the microstructure and this means allow the passage of the liquid. If the temperature continues to deliver substances in the liquid, the distance between atoms or molecules and the mobility agent gradually increases and is converted into gas. Electrons in the gas move very quickly but around the atoms. If ionization starts, it continues to be necessary to heat the gas; stop the rotation of the electrons around the nucleus which is severed because it moves freely in the gas so that the free electrons of the inner structure of the material are observed that consist of positive and neutral core. This state is defined as the state of the plasma. In the plasma state, the atoms of the material are fragmented and become a system consisting of positively charged ions and electrons that move constantly. Free floating electrons in the plasma, take heat from the material and converts it back to sit substance trajectory in order to maintain the original state and accordingly the restructuring process (recombination) is realized. Karadeniz [14] has formulated this case as follows:



As the temperature increases, solid melts to liquid, liquid evaporates to gas, plasma makes a transition into the ionizing gas; when temperature decreases, the above substances are said to return to their original states respectively.

In general, the characteristics of Plasma are as follows ([11]: 1, [17]: 7–12, Anatolia Plasma Technology Energy Center, [1, 8, 13]: 8–15, [3]: 7, [2, 5, 12]):

1. Whereas liquid, solid and gas phase molecules are formed by one of the atoms and ion species; nuclear and electrons in the plasma are composed of all of these types of particles. In such a case, the solid does not behave as liquids and gases. In ordinary matter, electrons show a tendency to connect to an atom. One remains free from time to time but it is patched to another core immediately. However, any electrons in the plasma are not bound to one core.
2. Gases at high temperatures become positively charged ions and free electrons. If you have a gas collection composed of free electrons, charged ions, neutral atoms and molecules, it is in a state of plasma. Plasma is a community of ionized gas totally or partially.
3. The decomposition, ionization of plasma and continuous restructuring which is the inverse of these events may occur.
 - (a) And the sum of the ionization plasma decomposition which occurs in the combustion plasma for constant power must be constantly equal to reconstruction power.

- (b) If decomposition and ionization restructuring is greater than the plasma then power is increased and explosion is a possibility.
 - (c) Plasma ends with more restructuring from disassociation and ionization.
4. The plasma is electrically neutral. However, unlike gas,
 - (a) Because of free electrons and ions of electricity that have stayed, transmission of heat energy is more clear since it is very well known that silver conductive is highly conductive than copper
 - (b) Electrical and magnetic fields interact and this creates an electrical field.
 5. The gases tend to fill the gaps in a plasma collection.
 6. The chemical reaction takes place faster than the gas in the plasma.
 7. Plasma contains substantial freedom of movement and interaction when compared with solids.

Particles in the plasma are always in constant interaction. Coulomb forces between charged particles in the plasma are effective even at long distances. Thus, all particles are in constant interaction with other nearby particles in the plasma. Due to the above, these interactions show a collective harmony among themselves. Coulomb interaction between the particles occurs in the form of gas, but away from the radius of the sum of the two particles. The interaction of particles outside this distance is ignored.

1.3 Leadership and Plasma as a Metaphor

Leadership, just as in the entire human history, is one of the most debated issues in everyday life and scientific fields today [7]. Each new work still attempts to explain, understand and describe leadership. Leadership makes us feel the presence of other people in our lives every day and our presence is also felt strongly in everyday lives of others. This will basically continue to be so for as long as I have leaders and the led. Leadership as a phenomenon and concept is changing, evolving getting differentiated with humanity.

In a certain period of time, the presence of concepts agreed upon to explain the nature of life in a particular culture and perceptions of leadership in a particular area causes the emergence of theories based on the concept of leadership. Indeed, at any given time, the results of changes occurring in concepts and theories are reshaped with an effect on each other.

In this context there is need to accept that leadership is a dynamic and multivariate phenomenon and concept such as culture or time. For example, whatever the time period, political, military, cultural, scientific and other fields where leadership is at the forefront, the approaches related to leadership when examined are simply at the level of perceptions, facts and concepts. Sometimes extraordinary leaders such as Recep Tayyip Erdoğan, have characteristics that are known for their demonstrated leadership models and trying to explain and understand the concept in the ordinary manner may prove to be shallow and indeed limited. This situation may not work

in other fields of science where concepts and conditions can facilitate detection and understanding of leaders with different insights. It also led to the brand new and original literature that seeks to provide concepts and solutions. In this study the “plasma” concept is borrowed from physics because it possesses some features that can be used to evaluate and understand Recep Tayyip Erdoğan, and Turkey’s leadership. The concept of Plasma is considered as multi-dimensional in leadership and management literature. However, until this day, the first and only national and international study in leadership and management literature that places the concept of plasma into context is that of Erçetin et al. [8] entitled “multi-dimensional approach to leadership in a chaotic environment” which is a chapter in an edited book.

In the study, “plasma” is defined as a new leadership profile which is formed in the context of circumstances to cope with the chaotic situation. Basic assumptions adopted in the study are as follows:

1. It is not easy to examine leadership, and how leaders should behave in the context of chaos.
2. Reducing or increasing the effects to the system makes it go out of chaos to order and thus more passable; these two situations are based on the two concepts being substantially circular.
3. Chaos to order depends on the order in chaos. If you increase the degree of one, you can trigger the formation of the other.
4. The discussion of leadership from the perspective of chaos requires a multidimensional approach.
5. Each individual leadership type and model is compatible with the specific situation in certain measure and value.
6. How different parts that make up each whole also put forward the different types of leadership does not apply to all situations.
7. It is not true, as is said in this regard, to suggest that it is possible to set a leadership type compatible with all situations
8. Leadership in chaos there is need to create different compositions of leadership required for each case.
9. Leadership in chaos is based on developing the actual knowledge of when to use which type of leadership.
10. It is possible to decide on whether to apply a leadership model with a proper analysis of the situation we find ourselves in.

In the context of these basic assumptions, the following are expected from the plasma leader ([8]: 100):

1. Be aware of the system.
2. To explore the basic elements that affect the system.
3. To explore the relationship of these factors affecting the system periodically.
4. Take into account the power of network in decision making.

The most important thing is to draw a multidimensional leadership profile beyond usual leadership traits which includes all types and models with the ability to be used in situations beyond all models and types of leadership.

In the same study another step was added to the earlier “multi-dimensional perceptual model of leadership” developed by Erçetin and Düzer [9]. The final version of the model discusses leadership in terms of changes occurring whilst following a process of changing perceptions; and how the leadership situation at a certain time can be analyzed as well as what should be given special consideration. Six leadership statuses emerged based on perceptions of the leader and followers: “implicit”, “potential”, “reluctant”, “uninspiring”, “dull” and “ideal” ([8]: 94). Now at this point, the six leadership status in the multidimensional perceptual model of leadership are blended with the four states and properties of matter (Table 1.1).

Table 1.1 Forms of leadership and states of matter

Leadership forms	States of matter
Implicit leadership:	Solid state
Perceives other stakeholders as potential leaders to be passive, timid and with a low level of self-esteem	Regular, fixed, immobile molecular structure.
It is possible to move to different leadership situations in an appropriate environment.	Strong ties to feel it.
Embers leadership:	
The ideal leadership perception here is passive with shyness and low self-esteem, but after a certain period of time and due to various reasons, there is decrease in such leadership perceptions.	State change (liquid or gas)
It is possible to move to different leadership situations in an appropriate environment.	
Reluctant leadership:	Liquid state
There are some interaction problems with the followers	Surface tension: different interaction in liquid surface and the interior.
There is also gradual decline in the perception of leadership potential.	
Uninspiring leadership:	
The ideal leadership perception here is passive with shyness and low self-esteem, but after a certain period of time and due to various reasons, there is decrease in such leadership perceptions.	
Potential leadership:	The Gaseous state
Perceives other stakeholders as potential leaders who are active with a high level of self-esteem	Effective molecular structure.
Communication and interaction with each other is a reality	It makes you feel weak ties.
	There is energy and interaction potential, but the current lack of energy can convert it
Ideal leadership:	Plasma state
The awareness and differences of potential leaders contrasts with those of the neutrals.	Ionized molecular structure (which takes energy).
Leadership perceptions and self-esteem of themselves and others are at a high level.	
Powerful, fast, intense communication and interaction.	Balanced and neutral structure with energy at a high level.
The product of this interaction expressing total energy as well as values that make up the gravity lead to a common vision; the vision to realize the power of faith and energy	

Ideally, plasma leadership states can be examined by the properties of plasma. For example, Ideal states of plasma leadership should be defined as ideal at all different levels and in all different forms of leadership.

At this stage, the properties of plasma are not only the leader and leadership, but also a sense of who adopts the idea, the country of one revealing the context, and how society should highlight and use the idea to describe the regional location.

In essence, I have evaluated the concept of plasma up to this point; I have indeed tried to create a theoretical and conceptual framework.

To understand the “leadership of Recep Tayyip Erdoğan and Turkey”, it is important to explain the concept of Plasma in its original setting which offers a genuine insight and approach. I discuss this new approach to this in the next section.

1.4 Understanding Turkey and Recep Tayyip Erdoğan

Turkey is positioned between eastern and western zones consisting of three sides surrounded by the sea, in other words, the basic dynamics of the history of the country’s geopolitical position as a geographic source is that of high temperature. Throughout history, regions and countries need their own internal dynamics such as different levels of temperature as well as the influence of other factors. The critical point here which is perhaps often ignored or not taken into account is the heat which is now joined by the complex subatomic structural energy which reveals simple scattered structures. When forces in high temperature are simplified and combined, the super force is revealed.

Different types of particles in the plasma such as nuclear and electrons have been used to refer to the different ethnic and religious groups in the Turkish society. Turkey is a well known state of ethnic and religious diversity in the context of natural heritage and leadership. Turkey’s most important and most critical feature is the Ottoman Empire. Turkey is currently in more than 10 political and geographical boundaries of Turks, Kurds, Circassians, Laz, Arab, Georgian, Bosnian and Albanian ethnic groups; with the exception of Islam being the major religious denomination, there are a number of different religions and sects within Islam’s intellectual, institutional and corporate spectrum. As a leader, Recep Tayyip Erdoğan of Turkey has exhibited a high level of awareness about the dynamics based on these characteristics in the region. On 16 June 2009, during a Parliamentary group discussion, Erdoğan revealed this clearly and unequivocally when he said: “Turkey is a country that has for centuries lived together and intertwined with different cultures, different ethnic groups, different denominations, and different beliefs. These differences are richness for us, and all these different elements are an essential aspect of this country. Accordingly, another advantage of these elements is that one cannot have priority over another”.

One of the most important aspects of politics for change during the last 12 years has been the ethnic and religious groups. Development of rights of ethnic and religious groups have been controversial issue in Turkey. There have been ups

and downs in politics about ethnic and religious groups. Although there have been criticism towards Ak Party, there have positive steps in development of rights of ethnic and religious group in Turkey. Improving the rights of the different ethnic and religious groups has led to debate as a democratic necessity. In this sense, courage and policies put forth are very important. A Circular issued by the Prime Minister Recep Tayyip Erdoğan's office on 13 May 2010 and covered by the Official Gazette No. 27580 is also indicative of the commitment to the introduction of plasma leadership potential which ensures that all the different parts of society live in peace within the structure. "According to our Constitution the principle of equality; Turkish citizens belonging to non-Muslim minorities living in our country, like all citizens of the Republic of Turkey, they are an integral part of the next national culture and identity, they possess the ability to live and maintain their own identity and culture. Failure to remove their difficulties in this citizens States in front of the business and operations, lack of prejudice to the rights of the relevant legislation as it is necessary to our state and they being a part of the Turkish nation is of great importance and critical to our progress." As expected, it is not only legal arrangement within 12 years. Ak Party and Recep Tayyip Erdoğan initiated various social and cultural developments in rights of ethnic and religious.

Another very important example is the solution process. This process refers to a period in which memorization of Turkish political history was disrupted and the adopted approaches and understanding was fragmented. The process was started by the Democratic Initiative. Erdoğan, speaking at the address to nation in October of 2009, said the following about it. "We started this process with a democratic initiative name which is actually a multi-faceted process of National Unity. Because this issue is a matter of a nation, a state issue. The focus of this initiative is not just terrorism; but the well-being of our country; all obstacles to the brotherhood of our people are the subject of this initiative. This initiative is an expression of love, a peace initiative and a brotherhood opening. This is a social refreshment initiative; an awareness initiative."

Later this movement defined as the solution process is not only relevant to Turkey, but also a crucial step for regional and global politics. It can be said that with this process Erdoğan put his entire political career and everything at risk. In this context, the long-term resolution process refers to a situation where no one dared to address the complex challenges of society requiring intensive labor and effort from their onset to this day. Erdoğan's speech in Midyat, Mardin in 2013, coined the following words of the solution process openly and reveals the basic philosophy of the subject. "Our ancient civilization has never made such a difference, separation has never happened. Precision is always protected especially in our culture and our traditions. Whoever makes ethnic nationalism can do so, but he is in mischief is after tribulation. All that however is here say. Somehow we have stood as one in this land for a thousand years and with Allah's will, we shall still be one and alive, we shall always remain big and strong on this land." The process and the efforts put forth are another indication of Erdoğan's extraordinary vision as a leader. If the process is successful, it will be very critical to Turkey since all major problems that have occurred over the years in every sense of heavy and intense distress will be solved

once and for all. This will be an important step in the region and an example for world peace at the same time. With time, the resolution process continues with the occasional flash point of near-explosion and go-around.

As I mentioned earlier, plasma implies freedom of movement and interaction. In such a case, the solid does not behave as liquids and gases. Electrons in ordinary matter always show a tendency to connect to an atom. With time one remains free. But almost immediately one gets patched up to another core. However, electrons in the plasma are not bound to one core. As already discussed here the first feature of plasma is consistent with Turkey's changing and evolving regional and global role. At the same time the leadership of Recep Tayyip Erdoğan has seen a change in the vision and mission that embody the state of Turkey's foreign policy. In this regard, Erdoğan perceives the need to undertake leadership monitoring in Turkey's foreign policy. In fact, on 7th December, 2009 in the United States meeting on Turkey in World Politics, Erdoğan argued that "We can talk in the dock, you can talk with the West, at the same time we are a country that can talk to the north and south. We cannot assume destruction of one another while we are in contact with all of them; we also meet with all of them." As in many areas, Turkey's foreign policy is influenced by Erdoğan's winds of change and vision. There is no doubt, changing in Turkish foreign policy is theoretically built by Prime Minister and former Minister of Foreign Affairs Ahmet Davutoğlu but fostered and encouraged by Recep Tayyip Erdoğan.

At this point, Erdoğan emerged as the most important leader in every discourse by determining foreign policy as one of the most important values. The potential power behind the Turkish people was assured with the slogan of "self-confidence". Turkey's new foreign policy, which is the balance of power in this axis as well as the Middle East, and Africa, has come to the point of being a source of inspiration in South America and Central Asia. "Turkey's Prime Minister Erdoğan, who inspired the sound of the silent, the oppressed and the patron of those left homeless in their own land is a friendly regime spokesman who is suppressed by political leaders" [16]. Similar to this case also, the interaction of electric and magnetic fields in the plasma can be mimicked by creating an electrical field. Likewise, Turkey has established institutions and organizations to support development in health, economic and educational fields regardless of their settings and backgrounds all over the world.

Disassociation, ionization in the plasma and the restructuring events that are the opposite of these events occur tend to occur or take place. Here restructuring of plasma is a necessity for constantly being equal to the sum of the actual plasma since disassociation and ionization in the plasma is critical for combustion in stationary power. This feature can be used by many people to analyze and understand the structure of the strong bond between Erdoğan and his followers which is constantly renewed and hard to detect. Recep Tayyip Erdoğan's mayoral era of leadership has been perhaps the link between the most remarkable features of today and throughout the process of being Turkey's first elected president. Erdoğan constantly carries a plane which is equal to total disassociation and ionization restructuring. At this level he renews his colleagues and team, political life itself, and projects without

compromising any stance. For example, in this issue is related to the Turkish flag. The respect that has been extended to it during functions and places where people gather as well as the protection it is accorded have surprised many a leader the world over. This behavior has aroused both great love and admiration for Turkey; it also aroused curiosity of many people all over the world who watched in awe. Just like in plasma, Erdoğan's deep relationship with his followers, increases and is like an explosion which results into undeniable influence of personal characteristics that shape leadership.

Relationship between Recep Tayyip Erdoğan and his followers is interesting and mystical. It is very often to be observed thousands of crying people when Recep Tayyip Erdoğan recite a poem. So, any sole dynamic is not enough to understand relationship between Recep Tayyip Erdoğan and his followers. A research done between people of different ages, gender and educational qualification, some of the concepts most commonly used to define President Recep Tayyip Erdoğan as a leader are as follows: "patriotic, The World Leader, brave, honest, believing, Internally motivated, Compassionate, the Merciful Realistic Solution Focused, Action Man, Heart of Man, voice of the orphans." It can be said that both emotional bond and pragmatic relationship Erdoğan enjoys with his followers exceeds and makes him different from other leaders. Erdoğan looks at his followers as his own, sees them as a part of the family; and does not separate himself from them. In the words of the song adapted and used as a selection of music for a long time, it can be emphasized that Erdoğan has made it clear that leadership qualities can be realized. Like lyrics of political campaign "Together we walked in this way, we walked under the rain with . . ." Erdoğan does not keep his leadership independent from his followers and indeed quite the opposite; he perceives his success in his toughest political life via the support of followers. Therefore, his relationship with followers in terms of sharing feelings, thoughts and vision is intense, fast and at a very high level. On that point on 12 December 1997, Erdoğan was sent to prison where he stayed for 4 months; however the intensity of emotions following the reading of a poem at the poetry can be emphasized as the most interesting thing in those most critical times. The most recent example is of 27 August 2014 when Erdoğan was invited as the founding President of the AKP's first extraordinary congress of the party to give a farewell speech. During the party, a section of the poem, "Dear, oh dear, dearest" was read in his famous speech on the request of a young Turkish poet Sezai Karakoç, the brainchild of the said poem.

Beloved

The Most Beloved

Oh, Beloved.

Do not prolong my banishment on earth,

Are there any news from the birds of your country?

There is a spring rising up even from the graves

What comes out of the dead man when there is the Beloved?

There is an existence apart from existence and inexistence

I am not the only guilty one

There is an evil eye that ravages me

There are lines to sing adoring that song

*No matter what they do, there is a will that comes from the sky
 What happens if the day falls there is an architect who fixes the night
 What If I am burnt, there is a fortress made of my ashes
 There is a victory that grows in each failure
 You have the key to reach the secret of all secrets
 There is a vein in your heart that calls your banishment back
 I never lose hope of you,
 There is a plane in your heart named compassion.
 Beloved
 The Most Beloved
 Oh, Beloved*

Erdoğan is a powerful leader who is simple and clear enough despite the complexity at play, flexible and ready enough to make a timely transformation of the system, creative and sharing enough to transform the amount of wealth available, and a determinant of uncertainties abound. In this sense, he is a decisive and visionary leader who cannot be rejected by the audience. In this sense, Erdoğan exhibits a leadership profile which is above and beyond the leadership styles in other states of matter I know and may have considered in the context of this article. Thus, with such qualities, they leave behind their opponents in almost every election. This makes his supporters in The Republic of Turkey's 12 year continuous management to enjoy all contrasting structures, old stereotype problems, fast interaction, and instant variable agenda reminiscent of plasma dynamic structure, from parts of the energy to "collective harmony" as well as strong "plasma energy", which reflect "national will-stability".

As I emphasized at the beginning, this study was a bold experiment in academic sense; yet in terms of academic output it is equally a unique. The study should be regarded as a preamble and groundbreaking one in adopting a technical approach in trying to explain "Recep Tayyip Erdoğan's leadership and Turkey" in a different, unique, and original insight, again it must be remembered, that this study is of great importance not only to Turkey but the world in general.

References

1. Akar T (nd) Basics and characteristics of plasma as the fourth state of matter <http://www.fizikportali.com/forum/maddenin-4-hali-plazma-ve-temel-ozellikleri-t943.0.html>. Accessed 18 Aug 2013
2. Anadolu Plasma Technology Energy Center; taken from the address <http://www.anadoluplazma.com/plazmagazfark.aspx>. On 09/11/2014. Ankara
3. Aygun Y (2010) Low energy plasma focus fusion devices for construction and neutronic measurements. Unpublished PhD thesis, Ankara University, Graduate School of Science, Engineering Physics Department, Ankara
4. Bellan MP (2006) Fundamentals of plasma physics. Cambridge University Press, Cambridge
5. Bittencourt JA (2004) Fundamentals of plasma physics. Springer, New York. <http://www.bilgiustam.com/maddenin-dorduncu-hali-plazma/>. Accessed 10 Sept 2013. Dordrecht/Heidelberg/New York
6. Eliezer S, Eliezer Y (2001) The fourth state of matter. The Institute of Physics, London

7. Erçetin ŞŞ (2000) *Spiral leader in vision*. Nobel Publishing, Ankara
8. Erçetin ŞŞ, Açıkalın SN, Bülbül MŞ (2013) Multi-dimensional approach to leadership in chaotic environments. In: Banerjee S (ed) *Chaos and complexity theory for management: nonlinear dynamics*. IGI Global, Hershey, pp 89–104
9. Erçetin ŞŞ, Düzer A (2008) Multidimensional perceptual leadership model. *World Appl Sci J* 3(1):25–33
10. Fitzpatrick R (2014) address the <http://www.ucc.ie/academic/physics/tony/py4107lec01-12.pdf> was taken on 10 Oct 2014
11. Fridman A (2008) *Plasma chemistry*. Cambridge University Press, Cambridge
12. Gurnett D, Bhattacharjee A (2005) *Introduction to plasma physics: with space and laboratory applications*. Cambridge University Press, Cambridge
13. Inan US, Gołkowski M (2011) *Principles of plasma physics for scientists and engineers*. Cambridge University Press, New York
14. Karadeniz S (1990) *Plasma technique*. TMMOB Mechanical Engineers forum, Publication No: 137, Ankara
15. Kikuchi M (2011) *Frontiers physics in fusion and fusion research*. Springer, London
16. Küçükcan T (2011) New Turkey's foreign policy dynamism. *Sabah Newspaper* on 6 August
17. Smirnov BM (2012) *Fundamentals of ionized gases: basic topics in plasma physics*. Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany.