

**KORELASI ANTARA *I'JAZ BAYANI* DAN *I'JAZ ILMI* DALAM SURAH
AL-A'RAF [7]: 54 (Analisis teori *Earth Rotation Theory*)**

TESIS

Diajukan untuk Memenuhi Sebagian Syarat
Memperoleh Gelar Magister dalam Program Studi
Ilmu Al-Qur'an dan Tafsir



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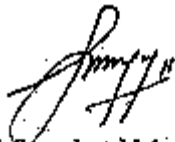
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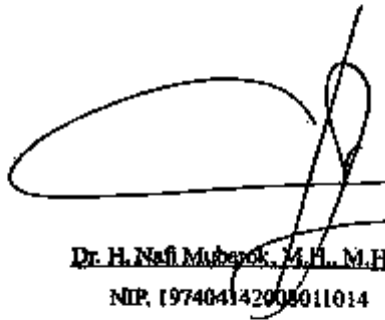
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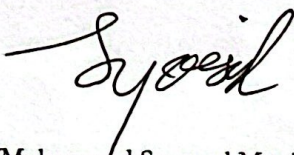
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(Muhammad Syamsul Munir)

ABSTRAK

Muhammad Syamsul Munir, 2025, KORELASI I'JĀZ BAYĀNĪ DAN I'JĀZ 'ILMĪ DALAM AL-QUR'AN SURAH AL-A'RAF [7]: 54 (Analisis Teori *Earth Rotation Theory*).

Penelitian ini dilatarbelakangi oleh kebutuhan untuk menyingkap korelasi antara *i'jāz bayānī* dan *i'jāz 'ilmī* dalam Al-Qur'an, khususnya Surah al-A'rāf ayat 54, yang secara linguistik menggambarkan fenomena pergantian siang dan malam melalui redaksi "يُغْشِي اللَّيْلُ النَّهَارَ يَطْلُبُهُ حَثِيثًا". Permasalahan utama penelitian ini terletak pada bagaimana kandungan *i'jāz bayānī* dan *i'jāz 'ilmī* dalam al-qur'an surah al-a'raf [7]: 54 berdasarkan temuan ilmu modern yaitu terhadap teori rotasi bumi (*Earth Rotation Theory*).

Maka tujuan penelitian ini adalah mengetahui *i'jāz bayānī* dan *i'jāz 'ilmī* dalam QS Al-A'raf ayat [7]: 54 serta menganalisa korelasi antara *i'jāz bayānī* dan *i'jāz 'ilmī* berdasarkan teori Rotasi Bumi (*Earth Rotation Theory*). Pendekatan yang digunakan adalah pendekatan *bayānī* dan *'ilmī*, melalui analisis teori (*Earth Rotation Theory*) yang dikembangkan oleh Copernicus dan disempurnakan oleh Newton melalui prinsip gravitasi universal. Metode yang diterapkan adalah analisis *deskriptif-kualitatif- content analysis*. Teknik pengumpulan data dilakukan melalui studi literatur terhadap kamus, kitab tafsir, jurnal ilmiah, serta penelitian-penelitian terkait.

Hasil penelitian menunjukkan bahwa QS. al-A'rāf [7]: 54 menghadirkan kemukjizatan ganda melalui perpaduan aspek *bayānī* dan *'ilmī*. Dari sisi *bayānī*, susunan redaksi ayat ini menampilkan ketepatan struktur, kekuatan ekspresi, dan kedalaman makna yang melampaui pola bahasa manusia. Sementara itu, sisi *'ilmī* tampak dari kesesuaiannya dengan prinsip rotasi bumi yang menjadi sebab terjadinya siklus siang dan malam sebagaimana dijelaskan astronomi modern. Harmoni antara keindahan bahasa dan ketepatan ilmiah ini menegaskan kesatuan *i'jāz* Al-Qur'an yang tidak tertandingi.

Kata Kunci: Korelas, *I'jāz Bayānī*, *I'jāz 'Ilmī*, QS. al-A'rāf: 54, *Earth Rotation Theory*.

ABSTRACT

Muhammad Syamsul Munir, 2025, CORRELATION BETWEEN I'JĀZ BAYĀNĪ AND I'JĀZ 'ILMĪ IN THE QUR'AN SURAH AL-A'RAF [7]: 54 (Analysis of Earth Rotation Theory).

This study is motivated by the need to uncover the correlation between *i'jāz bayānī* and *i'jāz 'ilmī* in the Qur'an, particularly Surah al-A'rāf verse 54, which linguistically describes the phenomenon of the alternation of day and night through the wording “يُغْشِي اللَّيْلُ النَّهَارَ يَطْلُبُهُ حَثِيثًا”. The main issue of this study lies in how the content of *i'jāz bayānī* and *i'jāz 'ilmī* in the Qur'an surah al-a'raf [7]: 54 is based on modern scientific findings, namely the Earth Rotation Theory..

Therefore, the purpose of this study is to identify the *i'jāz bayānī* and *i'jāz 'ilmī* in QS Al-A'raf verse [7]: 54 and to analyze the correlation between *i'jāz bayānī* and *i'jāz 'ilmī* based on the Earth Rotation Theory. The approach used is a *bayānī* and *'ilmī* approach, through an analysis of the Earth Rotation Theory developed by Copernicus and refined by Newton through the principle of universal gravity. The method applied is descriptive-qualitative content analysis. Data collection techniques were carried out through a literature study of dictionaries, tafsir books, scientific journals, and related research.

The results of the study show that QS. al-A'rāf [7]: 54 presents a double miracle through a combination of *bayānī* and *'ilmī* aspects. From the *bayānī* side, the composition of this verse displays structural accuracy, expressive power, and depth of meaning that transcends human language patterns. Meanwhile, the *'ilmī* aspect is evident in its consistency with the principle of the Earth's rotation, which causes the cycle of day and night, as explained by modern astronomy. The harmony between linguistic beauty and scientific accuracy confirms the unmatched unity of the *i'jāz* of the Qur'an.

Keywords: Correlation, *I'jāz Bayānī*, *I'jāz 'Ilmī*, QS. al-A'rāf: 54, Earth Rotation Theory.

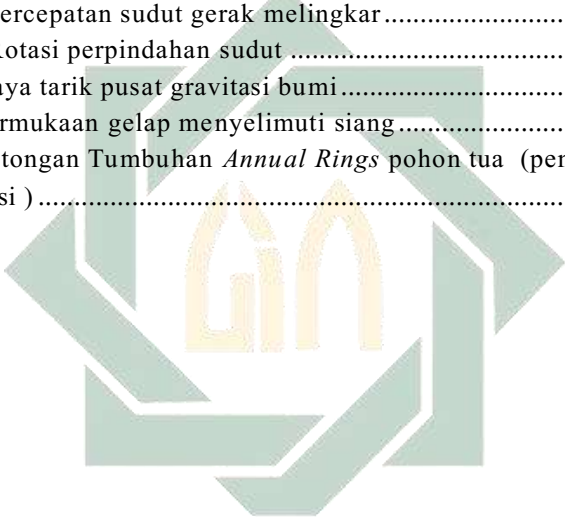
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DAFTAR PUSTAKA

- AB, Zuhreni. "Tafsir Isyari Dalam Corak Penafsiran Ibnu 'Arabi." *Al-Mu'ashirah* 13, no. 2 (July 2016).
- 'Abd al-Ḥamīd 'Umar, Aḥmad Mukhtār. *Mu'jam al-Lughah al-'Arabiyyah al-Mu'āshirah*. Edited by Farīq 'Amal. Ālam al-Kutub, 1429.
- "Abd. Al-Rahmān Bint al-Syāthi," 'Ā'isyah. *Al-I'Jāz al-Bayānī Lilqur'ānī*. 3. Nile Corniche: Dar Al-Ma'arif, 1119.
- Abdul-Raof, Hussein. *Theological Approaches to Qur'anic Exegesis*. London: Routledge, 2012.
- Abī Bakar Muḥammad ibn al-'Tīb, al-Bāqilānī. *I'jāz Al-Qur'ān*. Edited by Shoqir Ahmad. Mesir: Dār al-ma'arif, 403 AD.
- Abū al-Ḥasan al-Rummānī al-Mu'tazilī, 'Alī ibn 'Isā ibn 'Alī ibn 'Abd Allāh. *Al-Nukat Fī I'jāz al-Qur'ān*. Edited by Muḥammad Khalaf Allāh and Muḥammad Zaghlūl Salām. Mesir: Dār al-Ma'arif, 1976.
- Abū Ishāq al-Zajjāj, Ibrāhīm ibn al-Sarī ibn Sahl. *Ma'ānī Al-Qur'ān Wa-I'rābuhu Li-al-Zajjāj*. Jilid 1. Edited by 'Abd al-Jalīl 'Abduh Shalabī. Bayrūt: 'Ālam al-Kutub, 1431.
- Abū Ishāq, Ibrāhīm ibn Ishāq al-Ḥarbī. *Gharīb Al-Ḥadīth*. Al-Ūlā. Edited by Sulaymān Ibrāhīm Muḥammad al-'Āyid. Makkah: Jāmi'at Umm al-Qurā, 1405.
- Abū Maṣṣūr, Muḥammad ibn Aḥmad ibn al-Azharī al-Harawī. *Tahdhīb Al-Lughah*. Al-Ūlā. Edited by Muḥammad 'Awd Mar'ab. Bayrūt: Dār Iḥyā' al-Turāth al-'Arabī, 2001.
- Aditya Setyawan, Dodit. *Data Dan Metode Pengumpulan Data*. Surakarta: Politeknik Kesehatan Surakarta, 2013.
- Aḥmad al-Jammāl, Ḥasan 'Izz al-Dīn ibn Ḥusayn ibn 'Abd al-Fattāḥ. *Makḥṭūṭah Al-Jammāl – Mu'Jam Wa-Taḥṣīr Lughawī Li-Kalimāt al-Qur'Ān*. Al-Ṭab'ah al-Ūlā. Miṣr: Al-Hay'ah al-Miṣriyyah al-'Āmmah li al-Kitāb, 2003.
- Aḥmad al-Jammāl, Ḥasan 'Izz al-Dīn ibn Ḥusayn ibn 'Abd al-Fattāḥ. *Mu'Jam Wa Taḥṣīr Lughawī Li Kalimāt al-Qur'Ān*. Al-Ṭab'ah al-Ūlā. Miṣr: Al-Hay'ah al-Miṣriyyah al-'Āmmah li al-Kitāb, 2003.

- Ahmad, Hasbullah. "Integrasi Al-Qur'an dan Ilmu Sosial (Kontekstualitas al-Qur'an dalam Kehidupan Bermasyarakat)." *Ulumul Qur'an: Jurnal Kajian Ilmu Al-Qur'an dan Tafsir* 1, no. 2 (October 2021): 1–15. <https://doi.org/10.58404/uq.v1i2.69>.
- Ahmad, Meraj. "Literary Miracle Of The Qur'an." *Ar-Raniry, International Journal of Islamic Studies* 3, no. 1 (June 2016): 205. <https://doi.org/10.20859/jar.v3i1.82>.
- Al-Fādānī, Muḥammad Yāsīn 'Isa. *Balāḡa'ū Al-Muštāq Fī 'Ilmi Al-Iṣṭiqāq*. Dār Miṣra Littibā'ah, n.d.
- Al-Farahidiy. *Kitab Al-Ain Murattab 'al Huruf al-Mu'jam*. Bairut: Dar al-Kutub al-'Ilmiyah, 2003.
- Al-Faraj al-Ishbani, Abu. *Al-Agani by 'Al Ibn al-Usain*, n.d.
- Al-Masithoh, Silvinatin, and Khairolina Rachmawati. "Penafsiran Ayat Siang dan Malam Menurut Fakhruddin Al-Razy." *JADID : Journal of Quranic Studies and Islamic Communication* 1, no. 2 (2021): 151–63. <https://doi.org/10.33754/jadid.v1i2.477>.
- Al-Mushlih, Abdul Aziz Ibn Abdul Aziz. *Al-I'jaz Al-'Ilmiy Fi-l-Qur'an Wa As-Sunnah: Manhaju At-Tadris Al-Jami'iy*. Dar Jiyad lil-Nashr wa-al-Tawzi, 2008.
- Al-Šāṭi'ī, Aisyah Abdurrahman Binti. *Al-I'Jāz Al-Bayānī Lil Qur'ān Wamasā'īlu Ibnu Al-'Āzraq*. Dar Al-Ma'arif, 1984.
- Al-Shirazi, Sarton. *Introduction to the History of Science*. II. n.d.
- Al-Zandānī, 'Abdul Majīd. *Ta'aṣīlu Al-I'jāz Al-'Ilmī Fī Al-Qur'ān Wālsunnah*. Al-Maktabah Al-'Ashriyyah, 2008.
- Al-Zarkašī, Badru Al-Dīn Muḥammad Bin 'Abdullah. *Al-Burhān Fī 'ulūmi Al-Qur'ān*. Dār Ḥīā'i Al-Kutub Al-'Arabīyyah 'Isai Al-Bābī Al-Ḥalbī Waṣurakā'ih, 1957.
- 'Amru bin Ahmad Al-Zamakhshari, Abu Al-Qasim Mahmud bin. *Al-Kasyaf 'An Haqiq Ghawamidhi Al-Tanzil*. 2nd ed. Jilid. 3. Bairut: Dar Al-Kutub Al-'Arobiy, 1987.
- Ān Dūzī, Rīnhārt Bītar. *Takmilah Al-Ma'ājim al-'Arabīyyah*. With Muḥammad Salīm al-Nu'aymī. Al-Jumhūriyyah al-'Irāqiyyah: Wizārat al-Thaqāfah wa al-I'lām, 1979.

- Andalusī, Muḥammad ibn Yūsuf al-, al-shahīr bi-Abī Ḥayyān. *Al-Baḥr al-Muḥīṭ Fī al-Tafsīr*. Edited by Ṣidqī Muḥammad Jamīl al-‘Aṭṭār, Zuhayr Ju‘ayd, and ‘Irfān al-‘Ashshā Ḥassūnah (. Al-Tafsīr. Bayrūt: Dār al-Fikr, 1420.
- Andueza, Angel, Tom Smet, Paola Morales, and Joaquín Sevilla. “Disorder Effect in the Transmission Spectra of a Noncompact Single Layer of Dielectric Spheres Derived from Microwave Spectroscopy.” *Applied Optics* 50, no. 31 (2011): G91–97. <https://doi.org/10.1364/AO.50.000G91>.
- Anis, Ibrahim. *Al-Mu’jam Al-Wasith*. Jilid 2. Al-Qāhirah: Majmu’atu Al Lughah Al-‘Arobiyyah, 1972.
- Arif, Faiz, Abdul Aziz Ab Rahman, Khairul Nizam Abdul Maulud, and Amir Husni Kamaludin. “Debunking Flat Earth: From Geomatics Perspective.” *Int. Conf. Space Sci. Commun., IconSpace* 2019-July (2019): 150–53. <https://doi.org/10.1109/IconSpace.2019.8905955>.
- Arifin, Zarul, Maisyarah Rahmi Hasan, and Abdurrahman Raden Aji Haqqi. “Qat’i and Zanni Debate From the Prespective of Qur’anic Studies.” *QiST: Journal of Quran and Tafseer Studies* 2, no. 1 (December 2022): 63–67. <https://doi.org/10.23917/qist.v2i1.1248>.
- As-Sabakah Al-Islamiyah, Lajnah al-Fatwa. *Fatawa Al-Sabakah al-Islamiyah*. 1431.
- Baidan, Nashiruddin. *Metodologi Khusus Penelitian Tafsir*. Yogyakarta: Pustaka Pelajar, 2016.
- Bāqillānī, Abū Bakr Muḥammad ibn al-Ṭayyib al-. *I’Jāz al-Qur’Ān*. Beirut: Dār al-Ma‘ārif, 1954.
- Bashīr al-Azdī al-Balkhī, Abū al-Hasan Muqātil ibn Sulaymān ibn. *Tafsīr Muqātil Ibn Sulaymān*. Al-Ṭab‘ah al-Ūlā. With ‘Abd Allāh Maḥmūd Shaḥātah. Bayrūt: Dār Ihyā’ al-Turāth, 1431.
- Battānī, Abū ‘Abd Allāh Muḥammad ibn Jābir ibn Sinān al-Ḥarrānī al-Ṣābi al-. *Az-Zīj Aṣ-Ṣābi’*. Edited by Carlo Alfonso Nallino. 1. India: Dā’irat al-Ma‘ārif al-‘Uthmāniyyah, 1899.
- Benoit, Delphine, Yvan Simard, Jacques Gagné, Maxime Geoffroy, and Louis Fortier. “From Polar Night to Midnight Sun: Photoperiod, Seal Predation, and the Diel Vertical Migrations of Polar Cod (*Boreogadus Saida*) under Landfast Ice in the Arctic Ocean.” *Polar Biology* 33, no. 11 (November 2010): 1505–20. <https://doi.org/10.1007/s00300-010-0840-x>.

- Bin Āḥmad Al-Ḥanbalī, Muḥammad. *Syarḥu Al-Kawakib Al-Munīr*. Mesir: Maktabah Al 'Ubaykan, 1997.
- Bint al-Syāfī, 'Ā'isyah 'Abd al-Raḥmān. *Al-I'Jāz al-Bayānī Li al-Qur 'Ān*. Qāhirah: Dār al-Ma'ārif, 1971.
- Brienen, Roel J. W., and Pieter A. Zuidema. "Relating Tree Growth to Rainfall in Bolivian Rain Forests: A Test for Six Species Using Tree Ring Analysis." *Oecologia* 146, no. 1 (2005): 1–12. <https://doi.org/10.1007/s00442-005-0160-y>.
- Burstyn, Harold L. "The Deflecting Force of the Earth's Rotation from Galileo to Newton." *Annals of Science* 21, no. 1 (March 1965): 47–80. <https://doi.org/10.1080/00033796500200041>.
- Bustelo, A.J., and D.E. Barraco. "Hydrostatic Equilibrium Equation and Newtonian Limit of the Singular $f(R)$ Gravity." *Classical and Quantum Gravity* 24, no. 9 (2007): 2333–42. <https://doi.org/10.1088/0264-9381/24/9/011>.
- Cahya, Rosalina Cahya Safitri. "I'jaz al-Qur'an: Menyingkap Kemukjizatan Bahasa, Ilmu Pengetahuan, Dan Aspek Ghaib Dalam Al-Qur'an." *Jurnal Pendidikan Islam* 1, no. 3 (May 2024): 14. <https://doi.org/10.47134/pjpi.v1i3.464>.
- Cardinali, Daniel P., and Ana I. Esquifino. "Biological Rhythms in Neuroendocrinology." In *Neuroendocrine Correlates of Sleep/Wakefulness*, edited by Daniel P. Cardinali and S.R. Pandi-Perumal, 59–86. Springer US, 2006. https://doi.org/10.1007/0-387-23692-9_4.
- Carman, Christián Carlos. "The Planetary Increase of Brightness during Retrograde Motion: An Explanandum Constructed Ad Explanantem." *Studies in History and Philosophy of Science Part A* 54 (2015): 90–101. <https://doi.org/10.1016/j.shpsa.2015.09.007>.
- Casadio, Roberto, Andrea Giugno, Andrea Giusti, and Octavian Micu. "Horizon Quantum Mechanics: Spherically Symmetric and Rotating Sources." *Foundations of Physics* 48, no. 10 (2018): 1204–18. <https://doi.org/10.1007/s10701-018-0164-1>.
- Cazenave, A., and P. Paquet. "Earth Rotation: Solved and Unsolved Problems." *Eos, Transactions American Geophysical Union* 67, no. 38 (September 1986): 693–94. <https://doi.org/10.1029/EO067i038p00693>.
- Chen, Songze, Zhaoli Guo, and Kun Xu. "A Well-Balanced Gas Kinetic Scheme for Navier-Stokes Equations with Gravitational Potential."

- Communications in Computational Physics* 28, no. 3 (2020): 902–26. <https://doi.org/10.4208/CICP.OA-2019-0067>.
- Chiang, John C. H., and Anthony J. Broccoli. “A Role for Orbital Eccentricity in Earth’s Seasonal Climate.” *Geoscience Letters* 10, no. 1 (2023). <https://doi.org/10.1186/s40562-023-00313-7>.
- Connan-McGinty, Stacey, Neil S. Banas, Jørgen Berge, Finlo Cottier, Stephen Grant, Geir Johnsen, Tomasz P. Kopec, Marie Porter, and David McKee. “Midnight Sun to Polar Night: A Model of Seasonal Light in the Barents Sea.” *Journal of Advances in Modeling Earth Systems* 14, no. 10 (October 2022). <https://doi.org/10.1029/2022ms003198>.
- Copernicus, Nicolaus. *De Revolutionibus Orbium Coelestium Libri VI*. VI. Nuremberg, Jerman: Petreium, Johannes Petreius, 1543.
- . *On the Revolutions of the Heavenly Spheres*. 1995 (reprint of the 1543 edition). Translated by Charles Glenn Wallis. Amherst, New York: Prometheus Books, 1543.
- D’Alessandris. “5.01: Kinematics.” In *Spiral Physics – Calculus-Based*. LibreTexts, n.d. Accessed September 26, 2025. https://phys.libretexts.org/Bookshelves/University_Physics/Book%3A_Spiral_Physics_-_Calculus_Based_%28DAlessandris%29/Spiral_Mechanics_%28Calculus-Based%29/05%3A_Model_4/5.01%3A_New_Page.
- Dār, Abū Bakr ‘Abd al-Qāhir ibn ‘Abd al-Raḥmān ibn Muḥammad al-Fārisī al-Aṣl al-Jurjānī al-. *Dalā’il al-I’jāz Fī ‘Ilm al-Ma’ānī*. Edited by Abd al-Ḥamīd Hindāwī. Bayrūt: Dār al-Kutub al-‘Ilmiyyah, 1422.
- Dār, Abū Bakr ‘Abd al-Qāhir ibn ‘Abd al-Raḥmān ibn Muḥammad al-Fārisī al-Aṣl al-Jurjānī al-. *Dalā’il al-I’jāz Fī ‘Ilm al-Ma’ānī*. Edited by Yāsīn al-Ayyūbī. Al-Dār al-Namūdhaḥiyyah: Al-Maktabah al-‘Aṣriyyah, 471 AD.
- Darnis, G., L. Hobbs, M. Geoffroy, J. C. Grenvald, P. E. Renaud, J. Berge, F. Cottier, et al. “From Polar Night to Midnight Sun: Diel Vertical Migration, Metabolism and Biogeochemical Role of Zooplankton in a High Arctic Fjord (Kongsfjorden, Svalbard).” *Limnology and Oceanography* 62, no. 4 (July 2017): 1586–605. <https://doi.org/10.1002/lno.10519>.
- Darwis, Muhammad. *Kinematika Dan Dinamika Permesinan*. Edited by Hidayat and Maulidi Arsih Umaroh Islamiah. With Muhammad Suhardi and Randi Pratama Murtikusuma. Lombok: Pusat Pengembangan Pendidikan dan Penelitian Indonesia, 2023.

- Darwīsh, Muḥyī al-Dīn ibn Aḥmad Muṣṭafā. *I'Rāb al-Qur'Ān Wa-Bayānuh*. Jilid 4. Ḥimṣ, Sūriyyah: Dār al-Irshād li al-Syu'ūn al-Jāmi'iyyah, 1415.
- Duke, Dennis. "Greek Angles from Babylonian Numbers." *Archive for History of Exact Sciences* 64, no. 3 (2010): 375–94. <https://doi.org/10.1007/s00407-010-0058-x>.
- Durayd al-Azdī, Abū Bakr Muḥammad ibn al-Ḥasan ibn. *Al-Isytiqāq*. Edited by 'Abd al-Salām Muḥammad Hārūn. Al-Tarājim Wa-al-Ṭabaqāt. Bayrūt – Lubnān: Dār al-Jīl, 1411.
- Dutta, Kishore. "How Elliptical Orbits of Planets Clinch Newton's Laws of Motion and Gravitation." *Physics Education* 58, no. 1 (2023). <https://doi.org/10.1088/1361-6552/aca19e>.
- Fakhr al-Dīn al-Rāzī. *Tafsīr Al-Kabīr Maḥāṣin al-Ghayb*. Jilid 1. Lebanon, Beirut: Dar Fikr, 544.
- Fakhr al-Dīn al-Rāzī, Abū 'Abd Allāh Muḥammad ibn 'Umar ibn al-Ḥasan ibn al-Ḥusayn al-Taymī al-Rāzī. *Maḥāṣin al-Ghayb Aw al-Tafsīr al-Kabīr*. Jilid 3. 3. Bayrūt: Dār Iḥyā' al-Turāth al-'Arabī, 1420.
- Fārābī, Abū Naṣr Ismā'īl ibn Ḥammād al-Jawharī al-. *Al-Ṣiḥāḥ – Tāj al-Lughah Wa-Ṣiḥāḥ al-'Arabiyyah*. Al-Ṭab'ah al-Rābi'ah. With Aḥmad 'Abd al-Ghafūr 'Aṭṭār. Bayrūt: Dār al-'Ilm li-l-Malāyīn, 1407.
- Fāris ibn Zakariyyā, Abū al-Ḥusayn Aḥmad ibn. *Mu'jam Maqāyīs Al-Lughah*. Al-Ṭab'ah al-Thānīyah. Edited by Abd al-Salām Muḥammad Hārūn. Al-Gharīb Wa-al-Ma'ājim. Bayrūt: Sharikat Maktabat wa-Maṭba'at Muṣṭafā al-Bābī al-Ḥalabī wa-Awlādih bi-Miṣr, 1389.
- Faruq, Abdul Qudus Al. "Korelasi I'jaz Bayani Dan I'jaz Ilmī Dalam al-Qur'an Surah Fussilat [41]: 39 Dan al-Hajj [22]: 5 (Analisis Teori Brownian Motion Dan Plant Reproduction)." PhD Thesis, Universitas Negeri Sunan Ampel Surabaya, 2025.
- . "Korelasi I'jāz Bayānī Dan I'jāz 'ilmī Dalam Al-Qur'an Surah Fussilat [41]: 39 DAN AL-HAJJ [22]: 5 (Analisis Teori Brownian Motion Dan Plant Reproduction)." PhD Thesis, Universitas Islam Negeri Sunan Ampel Surabaya, 2025.
- Fatoni, Ahmad Sirfi. "Isytiqāq Dalam Bingkai Ilmu Fiqhul Lughah Dan Pendapat Para Ulama." *Tsaqofiya : Jurnal Pendidikan Bahasa Dan Sastra Arab* 3, no. 1 (January 2021): 1–15. <https://doi.org/10.21154/tsaqofiya.v3i1.64>.
- Ferawati, Dewi. *POLISEMI DALAM BAHASA ARAB*. 1, no. 1 (2018).

- Géza Lámer. *Displacement: Translation and Rotation. Differences and Similarities in the Discrete and Continuous Models*. Civil Engineering, vol. 4, no. 1 (03 2019). <https://doi.org/10.21791/IJEMS.2019.1.14>.
- Ghillebaert-Giuliani, Isabelle, and François Ghillebaert. "From Myth to Miracle on the Creation: Evaluation of Four Commentaries Regarding a Verse in the Quran." In *Eaux Industrielles Contaminées*, 183–205. Presses universitaires de Franche-Comté, 2017. <https://doi.org/10.4000/books.pufc.11022>.
- Guinot, Bernard. "Basic Problems in the Kinematics of the Rotation of the Earth." *Symposium - International Astronomical Union* 82 (1979): 7–18. <https://doi.org/10.1017/S0074180900035907>.
- Haidar, Amir Ahmad. "Lisān Al-‘Arab." In *Muḥammad Ibn-Mukarram Ibn-Manẓūr, Ṭab‘ah 2*. 1. Beirut, Lebanon: Dār al-kutub al-‘ilmīya, 2009.
- Ḥaidar, ‘Amir Aḥmad. "Lisān Al-‘Arab." In *Muḥammad Ibn-Mukarram Ibn-Manẓūr, Ṭab‘ah 2*. Bairūt: Dār al-kutub al-‘ilmīya, 2009.
- Hamdan Al-Lauhi, Abdussalam. *Al-I‘jāz Al-‘ilmī Fī Al-Qur‘ān Al-Karīm*. Gaza: Afaq, 2002.
- ḥamdānī, A‘bd al-jabbār al-. *i‘jāz al-qur‘ān al-karīm*. 4. Baḡdād: Dār al-kutub wālwatā‘iq, 2009.
- Hardani, and Nur Auliya Hikmatul. *Metode Penelitian Kualitatif & Kuantitatif*. 1. Yogyakarta: CV. Pustaka Ilmu Group Yogyakarta, 2020.
- Hariyati, Chindi Sri, Tasyah Ardany Hasibuan, Esha Daffa Fathansyach, and Harun Alrasyid. *Keunikan struktur bahasa Al-Qur‘an dalam Analisis I‘Jaz al-Bayānī*. n.d.
- Hasan ‘Abbas, Fadlu. *Lamasāt Wa Laṭā‘if Min Al-Ī‘jāz Al-Bayānī*. Dar al-Nafa‘is Linnasyr Wattaūzi’, 2015.
- Ḥasan Jabal, Muḥammad Ḥasan. *Al-Mu‘jam al-Isytiqāqī al-Mu‘aṣṣal Li-Alfāz al-Qur‘ān al-Karīm (Mu‘aṣṣal Bi-Bayān al-‘Alāqāt Bayna Alfāz al-Qur‘ān al-Karīm Bi-Aṣwāṭihā Wa-Bayna Ma‘ānīhā)*. Al-Ṭab‘ah al-Ūlā. Al-Gharīb Wa-al-Ma‘ājim. Al-Qāhirah: Maktabat al-Ādāb, 2010.
- Hāsyimī, Aḥmad al-. *Jawāhir Al-Balāghah Fī al-Ma‘ānī Wa al-Bayān Wa al-Badī‘*. Beirut: Dār al-Fikr, 1999.
- Ḥawwā, Sa‘īd. *Al-Asās Fī al-Tafsīr*. Al-Ṭab‘ah al-Ūlā. Al-Qāhirah: Dār al-Salām, 1405.

- Hayati, Nur, Indah Riskilawati, and Muhammad Idzhar Alfajri. "Gerak Dan Rotasi Bumi: Realitas Ilmiah Dalam Al-Qur'an." *JICN : Jurnal Intelek Dan Cendekiawan Nusantara* 1, no. 2 (June 2024): 4661–72.
- Hennebelle, P., C. Charbonnel, S. Fromang, and S. Mathis. "Angular Momentum during Star Formation and Early Evolution." *EAS Publ. Ser.* 62 (2013): 3–23. <https://doi.org/10.1051/eas/1362001>.
- Husain al-Dhahabi, Muhammad. *Al-Tafsīr Wa al-Mufasssirūn*. Kairo: Maktabah wahbah, 2000.
- Ibn Faris Ibn Zakariya, Abu Husayn. *Mu'jam Maqayish Lughoh*. 2nd ed. 2. Mesir: Syirkatu Maktabah wa Matba'ah Musthofa> al-Bābī al-Ḥalabī, 1969.
- Ibn Manzur, Jalaluddin. *Lisan Al-Arab*. Beirut, Lebanon: Dar Lisan al-Arab, 1994.
- Irham, Muhammad. "Implikasi perbedaan Qira'at terhadap penafsiran al-Qur'an." *Al-Bayan: Jurnal Studi Ilmu Al- Qur'an dan Tafsir* 5, no. 1 (July 2020). <https://doi.org/10.15575/al-bayan.v5i1.8563>.
- Isnainiyah, Nasrulloh, and Nurul Ainiy. "Kajian Linguistik Bahasa Arab Sebagai Pilar Mukjizat Al-Qur'an." *Muhadasah: Jurnal Pendidikan Bahasa Arab* 6, no. 2 (December 2024): 171–84. <https://doi.org/10.51339/muhad.v6i2.3027>.
- Iwanowska, Wilhelmina. "Nicolaus Copernicus And Modern Sciene." *The Journal Of The Royal Astronomical Society OF Canada* 67, no. 3 (June 1973): 105–14.
- J. L. E, Dreyer. *History of Planetary Systems*. Cambridge, n.d.
- Jamāl al-Dīn Ibn Manẓūr al-Anṣārī al-Ruwayfī al-Ifriqī, Muḥammad ibn Mukarram ibn 'Alī, Abū al-Faḍl. *Lisan Al-'rab*. 10th ed. With i-al-Yāzījī wa-jamā'ah min al-lughawīyyīn. 3. Bayrūt: Dār Ṣādir, 1414.
- Jawharī, Ṭanṭāwī, and MUhammad Amin Imran. *Al-Jawāhir Fī Tafsīr al-Qur'ān al-Karīm*. 4. Mesir: Muṣṭafā al-Bābī al-Ḥalabī, 1351.
- Jefri, Parrangan, Burhan Liputo, Ifan Wiranto, Yulianti Kadir, Nurfitra Yanto, Gede Yohan Kafrain, Reni Raafidiani, et al. *Mekanika Dasar*. Edited by Yüstina. Padang, Sumatera Barat: CV. Gita Lentera, 2024.
- Karshenboim, Savely G. "A Dual Concept of the Angle in Mathematics and Practice." Version 1. Preprint, arXiv, 2024. <https://doi.org/10.48550/ARXIV.2404.08560>.
- Khaṭṭābī, Abū Sulaymān al-. *Bayān I'Jāz al-Qur'Ān*. Beirut: Dār al-Fikr, n.d.

- Khawārizm, Abū al-Qāsim Maḥmūd ibn ʿUmar al-Zamakhsharī al-. *Al-Kashshāf ʿan Ḥaqāʾiq at-Tanzīl Wa-ʿUyūn al-Aqāwīl Fī Wujūh at-Taʾwīl*. 1st ed. 1. Riyadh: Maktabat al-ʿAbbās, 1415.
- Kleine, Thorsten, and Francis Nimmo. “Origin of the Earth.” In *Treatise on Geochemistry, Third Edition, 8 Volume Set*, 7:V7:325-V7:381. Elsevier, 2024. <https://doi.org/10.1016/B978-0-323-99762-1.00136-4>.
- Kočandrle, Radim. “Parmenides and the Origins of the Heavenly Sphere in Ancient Greek Cosmology.” *Apeiron* 57, no. 3 (2024): 339–62. <https://doi.org/10.1515/apeiron-2023-0110>.
- Kopeikin, Sergei M. “Local Gravitational Physics of the Hubble Expansion: Einstein’s Equivalence Principle in Cosmology.” *European Physical Journal Plus* 130, no. 1 (2015). <https://doi.org/10.1140/epjp/i2015-15011-y>.
- Kridalaksana, Harimurti. *Kamus Linguistik*. 3rd ed. Vol. 1. Gramedia Pustaka Utama, 1993.
- Kusuma, Afifah Amalia. “Ayat-Ayat tentang Silih Bergantinya Siang dan Malam Prespektif Tafsir Ilmi dan Tafsir Sufi.” Thesis, Universitas Negeri Siber Syekh Nurjati Cirebon, 2023.
- Kwok, Sun. “Empirical Evidence for the Heliocentric Model.” In *Our Place in the Universe - II*, 15–26. Springer International Publishing, 2021. https://doi.org/10.1007/978-3-030-80260-8_2.
- Llāh, Yaḥyā ibn Ḥamzah ibn ʿAlī ibn Ibrāhīm al-Ḥusaynī al-ʿAlawī al-Ṭalībī, Muʾayyad bi-. *Al-Ṭirāz Li-Asrār al-Balāghah Wa-ʿUlūm Ḥaqāʾiq al-Iʿjāz*. Al-ʾUlā. 3. Bayrūt: Al-Maktabah al-ʿAṣriyyah, 1423.
- Makhzūmī, Abū al-Ḥajjāj Mujaḥid ibn Jabr al-Ṭabīʿī al-Makkī al-Qurash al-, and Muḥammad ʿʿAbd al-Salām Abū al-Nīl. *Tafsīr Mujaḥid*. Al-Tafsīr. Miṣr: Dār al-Fikr al-Islāmī al-Ḥadīthah, 1410.
- Mālikī, Abū Muḥammad Makkī ibn Abī Ṭalīb Ḥammūsh ibn Muḥammad ibn Mukhtār al-Qaysī al-Qayrawānī thumma al-Andalusī al-Qurṭubī al-. *Al-Hidāyah Ilā Bulūgh al-Nihāyah Fī ʿIlm Maʾānī al-Qurʾān Wa-Tafsīrih, Wa-Aḥkāmih, Wa-Jumal Min Funūn ʿUlūmih*. Jilid 1. Edited by Majmūʿat Rasāʾil Jāmiʿiyyah bi-Kulliyyat al-Dirāsāt al-ʿUlyā wa-al-Baḥṭh al-ʿIlmī – Jāmiʿat al-Shāriqah bi-ishrāf al-Ustād al-Duktūr al-Shāhid al-Būshīkhī. Jāmiʿat al-Shāriqah: Majmūʿat Buḥūth al-Kitāb wa-al-Sunnah, Kulliyyat al-Sharīʿah wa-al-Dirāsāt al-Islāmiyyah, 1429.

- McColley, Grant. "The Theory of the Diurnal Rotation of the Earth." *Isis* 26, no. 2 (March 1937): 392–402. <https://doi.org/10.1086/347188>.
- Mishchenko, M., L. Travis, and A. Lacis. "Radiation Transfer in the Atmosphere: Scattering." In *Encyclopedia of Atmospheric Sciences: Second Edition*, 27–36. Elsevier Inc., 2015. <https://doi.org/10.1016/B978-0-12-382225-3.00340-6>.
- Mohd Nathir, Khairul Asyraf, and Mohd Sukki Othman. "I'jaz Bayaniy Dan Perkembangan Kajian Menerusi Al-Qur'an: I'jaz Bayaniy and Development of Research in Quran." *'Abqari Journal* 24, no. 1 (April 2021): 29–45. <https://doi.org/10.33102/abqari.vol24no1.315>.
- . "I'jaz Bayaniy Dan Perkembangan Kajian Menerusi Al-Qur'an: I'jaz Bayaniy and Development of Research in Quran." *'Abqari Journal* 24, no. 1 (April 2021): 29–45. <https://doi.org/10.33102/abqari.vol24no1.315>.
- Mufidatul Akbar AS, Sifa. "AL-AFKAR: Journal for Islamic Studies." *Journal for Islamic Studies* 8, no. 1 (2025).
- Muhammad Al-Ghazali, Abu Hamid. *Ihya' 'Ulumuddin*. Jilid. 2. Bairūt: Dar Al Ma'rifah, 1986.
- Muḥammad al-Naḥḥās, Abū Ja'far Aḥmad ibn. *Ma'ānī Al-Qur'ān Li-al-Naḥḥās*. Al-Ṭab'ah al-Ūlā. Al-Ṭab'ah al-Ūlā. Makkah al-Mukarramah: Jāmi'ah Umm al-Qurā, 1431.
- Muḥammad al-Wāḥidī, Abū al-Ḥasan 'Alī ibn Aḥmad ibn. *Al-Taḥsīn al-Basīṭ*. Al-Ṭab'ah al-Ūlā. With Jāmi'at al-Imām Muḥammad ibn Sa'ūd. Jāmi'at al-Imām Muḥammad ibn Sa'ūd al-Islāmiyyah: 'Imādat al-Baḥṭh al-'Ilmī, 1430.
- Muhammad Ibn Al-Sirī Al-Sirāj, Ābī Bakr, Muhammad A'li Idris, and Mushoffa. *Risālatu Al-Ishyiqāq*. Damaskus: Maktabah Jami'ah al-Yarmuk, 1972.
- Muḥammad ibn Jarīr al-Ṭabarī, Abū Ja'far. *Jāmi' Al-Bayān 'an Ta'wīl Āy al-Qur'ān*. Makkah al-Mukarramah: Dār al-Tarbiyah wa-al-Turāth, 7780.
- Muḥammad, Nādī Darwīš. *Al-Ī'jāz Al-'Ilmī Fī Al-Qur'ān Wālsunnah Waṣalath Bimanhaji Al-Da'wah Al-Islāmiyyah*. Maktabatu Al-Iman, 2011.
- Muḥammad 'Abd al-Ḥaqq ibn Ghālib ibn, 'Aṭīyyah al-Andalusī. *Al-Muḥarrar al-Wajīz*. Juz 2. Edited by 'abdu Salam. Istanbul: Dar al-Kutub al-'Ilmiyah, 546.

- Mukhtar, Umar. *Mu'jam al-Showab al-Lughawiy Dalil al-Muthaqafa al-Arabiy*. Kaherah: Alim al-Kutub, 2008.
- Mullins, Sara Brooke. *Angling for the Right Result: Students' Conceptualizations of Angles*. 29, no. 1 (n.d.).
- Mustafa, Ibrahim, Ahmad Ahmad Hassan al-Ziyat, and Hamid'Abd Qadir. *Al-Mu'jam al-Wasit*. Istanbul: Dar al-Da'wah, 2004.
- mutakhosisin, majmuah min al-asatidzah wa al-u'lama al-. *Al-Mausu'ah al-Qur'aniatul- al-Mutahsisoh*. 886th ed. Mesir, 2002.
- Mutawallī al-Sha'rāwī, Muḥammad. *Tafsīr Al-Sha'rāwī – al-Khawāṭir*. Maṭābi' Akhbār al-Yawm, 1431.
- Nādī Darwīš, Muḥammad. *Al-Ī'Jāz Al-'Ilmī Fī Al-Qur'ān Wāṣalath Bimanhajī Al-Da'wah Al-Īslāmīyyah*. Al-Qāhirah: Maktabatu Al-Iman, 2011.
- Naḥḥās, Abū Ja'far Aḥmad bin Muḥammad bin Ismā'īl bin Yūnus al-Murādī al-. *'Ulūm Al-Qur'ān Dan Uṣūl al-Tafsīr*. Beirut: Manṣūrāt Muḥammad 'Alī Bayḍūn, Dār al-Kutub al-'Ilmiyyah, 1421.
- Najjār, Zaḡlūl Rāḡib Muḥamad. *Madḥal Īlai Dirāsa' Al-Ī'Jāz Al-'ilmī Fī Al-Qur'ān Al-Karīm Wa Al-Sunnatu Al-Nabawīyyah Al-Muṭahirah*. 2nd ed. Dar Al-Ma'rifah, 2012.
- Nayya Ghifrani Alimin. "Islamic Science Epistemology: A Study of Kauniyah Verses and Their Relevance to Modern Science in a Global Context: Epistemologi Sains Islam: Studi Ayat-Ayat Kauniyah Dan Relevansinya Dengan Ilmu Pengetahuan Modern Dalam Konteks Global." *Averroes: Journal for Science and Religious Studies* 1, no. 03 (January 2024). <https://doi.org/10.62446/averroes.010305>.
- Neuwirth, Angelika. "Two Faces of the Qur'ān: Qur'ān and Muṣḥaf." *Oral Tradition* 25, no. 1 (March 2010). <https://doi.org/10.1353/ort.2010.a402427>.
- Niazi, Kaveh. "Book Four. On Distances and Bodies." In *Archimedes*, 58:367–405. Springer Nature, 2022. https://doi.org/10.1007/978-3-030-50761-9_7.
- Novianty, Anisa Utami, Nasrullah Bin Sapa, and Halimah Basri. *Keajaiban Ilmiah Al-Qur'an : I'Jaz dan Mukizatnya dalam kajian Sains Modern*. n.d.
- Nurkhatiqah, Atila, Camelia Fitri, and Dhiya Rahmatina. "Bedah Makna, Unsur dan Aspek Ijaz aL-Qur'an." *MUSHAF JOURNAL: Jurnal Ilmu Al Quran*

- dan Hadis* 2, no. 2 (February 2022): 150–58.
<https://doi.org/10.54443/mushaf.v2i2.29>.
- Obaidullah, Akmal Fajri, and Lailiyatur Rohmah Rohmah. “Pandangan Abdul Qahir Al-Jurjani Terhadap al-Fashahah Dalam Kitab Dala’il al-I’jaz.” *An-Nahdah Al-‘Arabiyah; Jurnal Bahasa Dan Sastra Arab* 2, no. 1 (September 2020): 6778.
- Pavethra, M., and M. Uma Devi. “Assessing Traditional Approaches for Atmospheric Light Estimation in Image Dehazing: Metrics and a Call for Innovation.” *Lect. Notes Networks Syst.* 886 (2025): 269–80.
https://doi.org/10.1007/978-981-97-8946-7_21.
- Pratama, Bayu Indra, Azizun Kurnia Illahi, Muhammad Rizki Pratama, Choiria Anggirani, and Putri Sekti Ari Dessanti. *Metode Analisis Isi*. Cetakan Pertama. Edited by Ahmad Mughini. Malang: Unisma Press, n.d.
- Pujiharti, Endang Sih. *Instrumen dan pengumpulan data dalam meningkatkan kualitas data pada penelitian Pendidikan*. 4 (2025).
- Putra, Rizki Maulana. *Dinamika perkembangan tafsir ‘ilmi di indonesia*. 3, no. 2 (2024).
- Qaradawi, Yusuf al-. *Kaifa Nata’āmal Ma’a al-Qur’ān al-‘Azīm*. Kairo: Maktabah wahbah, 1999.
- Qathan, Manna’ Khalil al-. *Mabaḥṡiṡ Fi Uluḡmil Qur’an*. Kairo: Maktabah wahbah, 1345.
- Qinnawjī, Abū al-Tayyib Muḥammad Ṣiddīq Khān ibn Ḥasan ibn ‘Alī ibn Luṭf Allāh al-Ḥusaynī al-Bukhārī al-. *Faṭḥ Al-Bayān Fī Maqāṣid al-Qur’ān*. Edited by Khādim al-‘Ilm ‘Abd Allāh ibn Ibrāhīm al-Anṣārī. Ṣaydā, Bayrūt: Al-Maktabah al-‘Aṣriyyah li-l-Ṭibā’ah wa-l-Nashr, 1412.
- Rachel Anne, Friedman. “Theorizing Language in Al-Bāqillānī’s I’jāz al-Qur’ān and Uṣūl al-Fiqh Texts.” Dissertation, University of California, 2015.
- Rāḡib Muḥamad Najjār, Zaglūl. *Madḥal Īlai Dirāsa’ Al-Ī’Jāz Al-‘ilmī Fī Al-Qur’ān Al-Karīm Wa Al-Sunnatu Al-Nabawīyyah Al-Muṭahirah*. 2nd ed. Bairūt: Dar Al-Ma’rifah, 2012.
- Rekier, Jérémy, Benjamin F. Chao, Jianli Chen, Véronique Dehant, Séverine Rosat, and Ping Zhu. “Earth’s Rotation: Observations and Relation to Deep Interior.” *Surveys in Geophysics* 43, no. 1 (February 2022): 149–75.
<https://doi.org/10.1007/s10712-021-09669-x>.

- Ridho, Ahmad. *Mu'jam Matsna Lughoh*. 5th ed. Bairūt: Dar Maktabah Hayat, 1438.
- Rosen, Edward. "English Translation Nicolaus Copernicus De Revolutionibus Orbium Cœlestium, Libri VI Nuremberg, 1543." In *De Revolutionibus Orbium Cœlestium*, 1st ed., 1–379. Polish Scientific Publications, 1978.
- Rubie, D.C., F. Nimmo, and H.J. Melosh. "9.03 - Formation of Earth's Core." In *Treatise on Geophysics: Volume 1-10*, edited by Gerald Schubert, 1–10:51–90. Elsevier, 2007. <https://doi.org/10.1016/B978-044452748-6.00140-1>.
- Rummānī, Abū al-Ḥasan 'Alī ibn 'Īsā al-. *Al-Nukat Fī I'Jāz al-Qur'Ān*. With Muḥammad Khalafallāh and Muḥammad Zaghāl. Beirut: Dār Ma'rifah, 1956.
- Russell, J. L. "Kepler's Laws of Planetary Motion: 1609–1666." *The British Journal for the History of Science* 2, no. 1 (June 1964): 1–24. <https://doi.org/10.1017/S0007087400001813>.
- Saifunnuha, Mukhamad. "Metodologi Tafsir Bayani Fadl Salih al-Samarra'i." Disertasi, UIN Syarif Hidayatullah Jakarta, 2024.
- Şālih, 'Abd al-Wāḥid. *Al-I'rāb al-Mufaṣṣal Li-Kitābi Allāh al-Munazzal*. Beirut: Dār al-Kutub al-'Ilmiyyah, 2000.
- Şālih, Bahjat 'Abd al-Wāḥid. *Al-I'rāb al-Mufaṣṣal Li-Kitāb Allāh al-Murattal*. 'Ammān: Dār al-Fikr li al-Ṭibā'ah wa al-Nashr wa al-Tawzī, 1418.
- SCHIAPARELLI, G. V. *Vorldufer Des Copernicus*. Leipzig, 1876.
- Shahvandi, Mostafa Kiani, Surendra Adhikari, Mathieu Dumberry, Siddhartha Mishra, and Benedikt Soja. "The Increasingly Dominant Role of Climate Change on Length of Day Variations." *Proceedings of the National Academy of Sciences* 121, no. 30 (July 2024). <https://doi.org/10.1073/pnas.2406930121>.
- Shāṭi', Ā'ishah Muḥammad 'Alī 'Abd al-Raḥmān ma'rūfah bi-Bint al-. *Al-I'jāz al-Bayānī Li-l-Qur'ān Wa-Masā'il Ibn al-Azraq*. Al-Thālithah. Mesir: Dār al-Ma'ārif, 1969.
- Shihab, M. Quraish. "Tafsir Al-Misbah (Pesan, Kesan Dan Keserasian al-Qur'an)." In *Tafsir Al-Mishbah*, 1st ed., 1:1–636. Lentera Hati, 2001.

- Siregar, Idris, Nadilla Putri, and Imelda Fedian. *I'jaz Bayani Pada Ayat-Ayat Alquran*. Zenodo, June 28, 2024. <https://doi.org/10.5281/ZENODO.12580257>.
- Siyoto, Sandu, and Ali Sodik. *Dasar Metodologi Penelitian*. Yogyakarta: Literasi Media Publishing, 2015.
- Sugiyono. *Metode Penelitian Pendidikan: Pendekatan Kuantitatif, Kualitatif, Dan R&D*. Book. Bandung: Alfabeta, 2017.
- Sukmadinata, Nana Syaodih. *Metode Penelitian Pendidikan*. Book. Bandung: Remaja Rosdakarya, 2011.
- Sulkifli, Sulkifli, Haniah Haniah, and Nafis Djuaeni. "Isytiqaq Dalam Pandangan Linguis Klasik Dan Modern." *Journal of Arabic Education and Linguistics* 2, no. 1 (December 2022): 11–19. <https://doi.org/10.24252/jael.v2i1.31389>.
- Surakhmad, Winarno. *Pengantar Penelitian Ilmiah Dasar, Metode Dan Teknik*. Bandung: Transito, 1980.
- Susiani, Dina. *Metodologi Penelitian Hukum*. Edited by Tahta Media. Tahta Media Group, 2024.
- Suthagar, S., K. Gopalakrishnan, T. Kumaran, and Praveen Kumar. "Role of Altitude in the Design of Aerospace Vehicles." In *Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics*, edited by Sathish K. Kumar and Naren Shankar Radhakrishnan, 1–25. IGI Global, 2022. <https://doi.org/10.4018/978-1-6684-4230-2.ch001>.
- Szapiro, Anibal. "Assumptions behind Ptolemy's Proof of the Earth's Centrality." *Journal for the History of Astronomy* 49, no. 2 (2018): 196–215. <https://doi.org/10.1177/0021828618765197>.
- Ṭahā al-Durrah, Muḥammad 'Alī. *Faṭḥ Al-Kabīr al-Muta'āl – I'rāb al-Mu'allaqāt al-'Ashr al-Ṭiwāl*. 2nd ed. Jeddah-Saudi Arabia: Maktabat al-Sawwādī, 1409.
- Tanti, Novri, Ahmad Su'udi, and Harry Gusti Nugroho. "Analisis Kecepatan dan Percepatan GERak Robot Joules Menggunakan METode Bilangan Kompleks." *Jurusan Teknik Mesin* 5, no. 2, (September 2014).
- The Times of India*. "Earth's Fastest Spin: July 9 2025 to Be One of the Shortest Days Ever Recorded, Scientists Eye Rare Negative Leap Second." July 9, 2025. <https://timesofindia.indiatimes.com/science/earths-fastest-spin->

july-9-2025-to-be-shortest-day-ever-recorded-scientists-eye-rare-negative-leap-second/articleshow/122343120.cms?utm_source=chatgpt.com.

- Thonthowi, Thonthowi, Abdul Mukhlis, Ahmad Zaki Annafiri, M. Iqbal Sarif, and M. Damar Muslim. "I'jaz Al-Quran in Linguistic Perspective and It's Impact on The Readers." *Insyirah: Jurnal Ilmu Bahasa Arab Dan Studi Islam* 7, no. 1 (June 2024): 117–32. <https://doi.org/10.26555/insyirah.v7i1.10516>.
- Tricarico, Pasquale. "Multi-Layer Hydrostatic Equilibrium of Planets and Synchronous Moons: Theory and Application to Ceres and to Solar System Moons." *Astrophysical Journal* 782, no. 2 (2014). <https://doi.org/10.1088/0004-637X/782/2/99>.
- ‘Umar, Aḥmad Mukhtār ‘Abd al-Ḥamīd. *Al-Mu‘Jam al-Mawsū‘ī Li Alfāz al-Qur‘ān al-Karīm Wa Qirā‘Ātih*. Al-Madīnah al-Munawwarah: Muḥamma‘ al-Malik Fahd li Ṭibā‘at al-Muṣṣhaf al-Syarīf, 2002.
- Umar al-Biqā‘ī, Burhān al-Dīn Abū al-Ḥasan Ibrāhīm ibn. *Naẓm Al-Durar Fī Tanāsuh al-Āyāt Wa-al-Suwar*. Jilid 1. Edited by Muḥammad ‘Abd al-Ma‘īd Khān. Ḥaydar Ābād – al-Hind: Dā‘irat al-Ma‘ārif al-‘Uthmāniyyah, 1389.
- Vila-Lameiro, P., and I.J. Díaz-Maroto. "Study of the Influence of Environmental Factors on the Width of Growth Rings in Quercus Petraea (Matts.) LIEBL. through Interpretation of Digital Images." *Wood Research* 50, no. 3 (2005): 23–36.
- W Woolard, Edgar. *Theory of the Rotation of the Earth Around Its Center of Mass*. United States: Nautical Almanac Office, U. S Naval Observatory By Direction of the Secretary Of the Navy and Under the Authority of Congress, 1953.
- Wu, Hanbo, Norman Murray, Kristen Menou, Christopher Lee, and Jeremy Leconte. "Why the Day Is 24 Hours Long: The History of Earth's Atmospheric Thermal Tide, Composition, and Mean Temperature." *Science Advances* 9, no. 27 (July 2023): eadd2499. <https://doi.org/10.1126/sciadv.add2499>.
- Yāsīn ‘īsa Al-Fādānī, Muhammad. *Balaḡā’u Al-Muṣṭāq Fī ‘Ilmi Al-Iṣṭiqāq*. n.d.
- Yi, Gao, and Xiao Nai-Yuan. "An Estimate of the Long-Term Tendency of Tidal Evolution of Earth-Lunar System." In *Solar System: Structure, Formation and Exploration*, edited by Matteo De Rossi, 97–104. Nova Science Publishers, Inc., 2012.

- Zaghlul Raghīb, Al-Najjar. *Tafsir Al-'ayah al-Kauniyyah Fi al-Qur'an al-Karim*. Kaherah: Maktabah al-Syurūq al-Dawliyyah, 2007.
- Zahroh, Muhammad Abu. *Al-Mu'jizat Al-Kubrā Al-Qur'ān*. Dar Al-Fikr Al-'Arabiyy, 1898.
- Ziyād al-Farrā', Abū Zakarīyā' Yahyā ibn. *Ma'Ānī al-Qur'Ān*. Edited by Aḥmad Yūsuf Najātī, Muḥammad Alī al-Najjār, and Abd al-Fattāḥ Ismā'īl Shalabī. Miṣr: Dār al-Ma'ārif, 1955.
- Zubaidi, Sujiat, Aqdi Rofiq Asnawi, and Muhammad Anwar Aditya. "Interrelation of Coalescence Theory and Qur'anic Perspectives on Rain Phenomenon: A Linguistic and Scientific Analysis." *Mutawatir : Jurnal Keilmuan Tafsir Hadis* 13, no. 2 (2023): 286–311. <https://doi.org/10.15642/mutawatir.2023.13.2.286-311>.
- 'Abd al-Qādir al-Rāfi'ī, Muṣṭafā Ṣādiq ibn 'Abd al-Razzāq ibn Sa'īd ibn Aḥmad ibn. *I'jāz Al-Qur'ān Wa-l-Balāghah al-Nabawiyyah*. Al-Thāminah: Dār al-Kitāb al-'Arabī, 1425.
- 'Akbarī, Abū al-Baqā' 'Abd Allāh ibn al-Ḥusayn ibn 'Abd Allāh al-. *Al-Tibyān Fī I'rāb al-Qur'ān*. Edited by Alī Muḥammad al-Bajāwī. 'Ulūm Al-Qur'ān Wa-Uṣūl al-Tafsīr. 'Isā al-Bābī al-Ḥalabī wa-Shurakā'uh, n.d.
- 'Alī al-Bābālī, Fu'ād 'Umar. "Al-Wujūh al-Balāghiyah wa-al-Dalāliyyah fī Tafsīr Darj al-Durar li-al-Imām 'Abd al-Qāhir al-Jurjānī." Disertasi, The Islamic University, 2017.
- 'Āshūr, Muhammad al-Ṭāhir ibn. *Al-Taḥrīr Wa-al-Tanwīr*. 1st ed. Juz 1. Tunisia: Dar Tunisia, 1984.
- 'Isa ibn A'ḥī bn Aḥmad, Abū al-ḥasn al-rumānī al-mu'tazlī, A'ḥī bn. *Al-Nukat Fī I'jāzī Al-Qur'an*. Dehli: Dār al-m'ārif bi misra, 1976.
- 'Umar, Aḥmad Mukhtār 'Abd al-Ḥamīd. *Mu'jam Al-Lughah al-'Arabiyyah al-Mu'āsirah*. Al-Ṭab'ah al-Ūlā,. Al-Gharīb Wa-al-Ma'ājim. 'Ālam al-Kutub, 1429.