

**PENGEMBANGAN MEDIA MEMBACA PERMULAAN (MP)  
 MENGGUNAKAN METODE FONIK UNTUK MENINGKATKAN  
 KEMAMPUAN MEMBACA PERMULAAN SISWA FASE A  
 SEKOLAH DASAR**



**TESIS**

Diajukan untuk memenuhi syarat memperoleh gelar Magister Pendidikan  
pada Program Studi Pendidikan Dasar

oleh  
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**PROGRAM STUDI MAGISTER PENDIDIKAN DASAR  
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FAKULTAS ILMU PENDIDIKAN  
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S.Pd Universitas Pendidikan Indonesia, 2023

Sebuah Tesis yang diajukan untuk memenuhi salah satu syarat memperoleh gelar  
Magister Pendidikan (M.Pd.) pada Fakultas Ilmu Pendidikan

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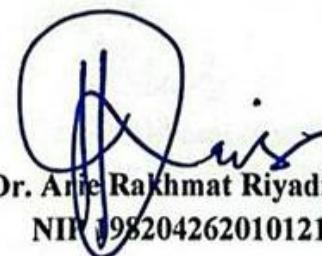
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Dengan ini menyatakan bahwa tesis yang berjudul “*Pengembangam Media Membaca Permulaan (MP) Menggunakan Metode Fonik untuk Meningkatkan Kemampuan Membaca Permulaan Siswa Fase A Sekolah Dasar*” beserta isinya merupakan hasil kerja saya sendiri. Saya tidak melakukan penjiplakan atau pengutipan dengan cara-cara yang tidak sesuai dengan etika ilmu yang berlaku dalam masyarakat keilmuan. Atas pernyataan ini, saya siap menanggung resiko/sanksi apabila di kemudian hari ditemukan adanya pelanggaran etika keilmuan atau ada klaim dari pihak lain terhadap keaslian karya saya ini.

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## KATA PENGANTAR

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Tesis berjudul "*Pengembangan Media Membaca Permulaan (MP) Menggunakan Metode Fonik untuk Meningkatkan Kemampuan Membaca Permulaan Siswa Fase A Sekolah Dasar*" disusun sebagai salah satu syarat akademik. Penelitian ini bertujuan mengevaluasi efektivitas metode fonik melalui media MP dalam meningkatkan kemampuan membaca permulaan siswa.

Terselesaikannya tesis ini tidak terlepas dari bantuan, bimbingan, dan dukungan dari berbagai pihak. Oleh karena itu, dengan segala kerendahan hati, penulis menyampaikan penghargaan dan terima kasih yang sebesar-besarnya kepada:

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## **ABSTRAK**

### **PENGEMBANGAN MEDIA MEMBACA PERMULAAN (MP) MENGGUNAKAN METODE FONIK UNTUK MENINGKATKAN KEMAMPUAN MEMBACA PERMULAAN SISWA FASE A SEKOLAH DASAR**

Penelitian ini bertujuan untuk mengembangkan media membaca permulaan (MP) menggunakan metode fonik sebagai upaya untuk meningkatkan kemampuan membaca permulaan siswa sekolah dasar. Permasalahan yang melatarbelakangi penelitian ini adalah masih banyak siswa sekolah dasar yang mengalami kesulitan dalam mengenal huruf, merangkai suku kata, dan membaca kata sederhana sehingga berdampak pada keterlambatan penguasaan membaca permulaan. Metode penelitian yang digunakan adalah *Design and Development* (D&D) yang meliputi empat tahapan yaitu analisis, desain, pengembangan, implementasi, dan evaluasi. Pada tahap pengembangan, media MP dirancang melalui serangkaian proses, mulai dari penyusunan materi pembelajaran, *Storyboard*, hingga pembuatan produk media secara menyeluruh. Uji coba terbatas dilakukan pada siswa kelas IC SDN di Dago dan kelas ID SDN di Jatihandap dengan melibatkan 14 siswa yang belum mahir dalam membaca. Hasil penelitian menunjukkan bahwa media MP menggunakan metode fonik memiliki kelayakan sangat tinggi dengan penilaian dari ahli media, ahli materi, guru, dan siswa yang seluruhnya termasuk dalam kategori “sangat layak” untuk diimplementasikan. Selain itu, hasil *post-test* menunjukkan peningkatan kemampuan membaca permulaan dalam kategori “baik sekali” didukung oleh hasil uji *paired samples t-test* yang menunjukkan peningkatan signifikan secara statistik, serta perolehan nilai n-gain yang termasuk dalam kategori “efektif”. Dengan demikian, media MP menggunakan metode fonik ini dinyatakan valid, praktis, dan efektif serta dapat dijadikan alternatif inovatif dalam pembelajaran membaca di jenjang sekolah dasar.

**Kata kunci:** membaca permulaan, metode fonik, pengembangan media

## ***ABSTRACT***

### ***DEVELOPMENT OF EARLY READING MEDIA USING THE PHONIC METHOD TO IMPROVE THE EARLY READING SKILLS OF PHASE A STUDENTS ELEMENTARY SCHOOL***

*This study aims to develop early reading media using the phonics method as an effort to improve the early reading skills of elementary school students. The problem behind this study is that many elementary school students still have difficulty recognizing letters, stringing syllables together, and reading simple words, which results in delays in mastering early reading. The research method used was Design and Development (D&D), which consisted of four stages: analysis, design, development, implementation, and evaluation. In the development stage, the MP media was designed through a series of processes, starting from the preparation of learning materials and storyboards to the creation of the final media product. Limited trials were conducted on students in class IC of SDN in Dago and class ID of SDN in Jatihandap, involving 14 students who were not yet proficient in reading. The results showed that the MP media using the phonics method was highly feasible, with assessments from media experts, material experts, teachers, and students all falling into the "highly feasible" category for implementation. In addition, the post-test results showed an improvement in early reading skills in the "very good" category, supported by the results of the paired samples t-test, which showed a statistically significant improvement, as well as n-gain scores that fell into the "effective" category. Thus, MP media using the phonics method is declared valid, practical, and effective and can be used as an innovative alternative in reading instruction at the elementary school level.*

***Keywords:*** reading beginners, phonics method, media development

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## DAFTAR PUSTAKA

- Abbas, D. F. (2024). Social Factors Affecting Style Variation. *American Journal Of Social Sciences And Humanity Research*, 4(8), 229–243. <https://doi.org/10.37547/ajsshr/Volume04Issue08-17>
- Abdurrahman. (2012). *Anak Berkesulitan Belajar; Teori, Diagnosis dan Remediasinya*. Dedikbud.
- Achirtantik, D., Widayati, M., & Nurnaningsih. (2024). Pengembangan Media Pembelajaran Tabung Pintar Kreatif untuk Meningkatkan Keterampilan Bercerita di TK Aisyiyah VI Kecamatan Baturetno. *MENDIDIK: Jurnal Kajian Pendidikan Dan Pengajaran*, 10(1), 22–29. <https://doi.org/10.30653/003.2024101.85>
- Adnyana, I. M., Arnyana, I. B. P., & Margunayasa, I. G. (2023a). Digital Phonics Literacy Media to Support the Initial Reading Skills of First-Grade Students in Multicultural Bilingual Schools. *Jurnal Pendidikan Multikultural Indonesia*, 6(1), 14–25. <https://doi.org/10.23887/jpmu.v6i1.58838>
- Adnyana, I. M., Arnyana, I. B. P., & Margunayasa, I. G. (2023b). Digital Phonics Literacy Media to Support the Initial Reading Skills of First-Grade Students in Multicultural Bilingual Schools. *Jurnal Pendidikan Multikultural Indonesia*, 6(1), 14–25. <https://doi.org/10.23887/jpmu.v6i1.58838>
- Agin, A. M. (2024). Features of the artist's work when creating an image in interactive media. *Человек и Культура*, 6, 76–94. <https://doi.org/10.25136/2409-8744.2024.6.71871>
- Alwasila Alteyp, O. A. (2023). Assimilation and Elision of Lateral and Nasal Sounds in English. *Sumerianz Journal of Education, Linguistics and Literature*, 64, 83–85. <https://doi.org/10.47752/sjell.64.83.85>
- Ariyanti, F. (2022). Penggunaan Metode Fonik (Phonic Method) Untuk Meningkatkan Kemampuan Membaca Anak Disleksia Di Kelas 1 SD Negeri 187/1 Teratai. *Indonesian Journal of Education Research (IJoER)*, 3(1), 16–20. <https://doi.org/10.37251/ijoer.v3i1.552>
- Arlinda, C. P., Marianti, A., & Rahayuningsih, M. (2022). The Implementation of Project-Based Learning Model with Instagram Media towards Students' Critical Thiking and Creativity. *Unnes Science Education Journal*, 11(1), 9–16. <https://doi.org/10.15294/usej.v11i1.46495>
- Audina, N., Ma'muroh, S., & Ulfah, R. N. (2022a). The Advantages of the Phonics Method for Early Childhood Reading Skills. *JEdu: Journal of English Education*, 2(2), 130–137. <https://doi.org/10.30998/jedu.v2i2.6666>
- Audina, N., Ma'muroh, S., & Ulfah, R. N. (2022b). The Advantages of the Phonics Method for Early Childhood Reading Skills. *JEdu: Journal of English Education*, 2(2), 130–137. <https://doi.org/10.30998/jedu.v2i2.6666>
- Ayuni, N. M., & Paramita, M. V. A. (2024). The Impact of Using Audio Visual Media to Improve Letter Recognition Ability in Kindergarten. *Jurnal*

- Pendidikan Anak Usia Dini Undiksha*, 12(1), 147–154.  
<https://doi.org/10.23887/paud.v12i1.74906>
- Azzahra, A., Mira Maulidya Fajar, Sukma Rabbani, Chandra Chandra, & Ari Suriani. (2024). Analysis of Level I Fluent Reading Skills in Primary Schools. *Protasis: Jurnal Bahasa, Sastra, Budaya, Dan Pengajarannya*, 3(1), 171–182. <https://doi.org/10.55606/protasis.v3i1.152>
- Beck, K. (2024). Study population. In *Translational Orthopedics* (pp. 97–100). Elsevier. <https://doi.org/10.1016/B978-0-323-85663-8.00066-0>
- Bodrova, E., & Leong, D. J. (2007). *Tools of the mind: The Vygotskian approach to early childhood education* (2nd ed.). Upper Saddle River, NJ: Pearson Merrill Prentice Hall.
- Bowers, J. (2020). Reconsidering the Evidence That Systematic Phonics Is More Effective Than Alternative Methods of Reading Instruction. *Educational Psychology Review*, 32(3), 681–705. <https://doi.org/10.1007/s10648-019-09515-y>
- Brooks, G. (2022). *Current Debates Over the Teaching of Phonics*. Oxford University Press.  
<https://doi.org/10.1093/acrefore/9780190264093.013.1543>
- Budianto, A. A., & Hairit, A. (2024). Mentoring Teachers in the Application of Digital Learning Media to Improve Education Quality. *Ngejha*, 4(1), 8–15. <https://doi.org/10.32806/nja.v4i1.732>
- Budjevac, N., & Baucal, A. (2014). Development of reading literacy during first four grades of the primary school. *Inovacije u Nastavi*, 27(2), 22–32. <https://doi.org/10.5937/inovacije1402022B>
- Butler-Henderson, K., & Crawford, J. (2020). A systematic review of online examinations: A pedagogical innovation for scalable authentication and integrity. *Computers & Education*, 159, 104024. <https://doi.org/10.1016/j.compedu.2020.104024>
- Carthy, K. M., & Skoruppa, K. (2023). Language-specific phonological skills and the relationship with reading accuracy in Sylheti-English sequential bilinguals. *Child Development*, 94(2). <https://doi.org/10.1111/cdev.13880>
- Cavanagh, T. M., & Kiersch, C. (2023). Using commonly available technologies to create online multimedia lessons through the application of the Cognitive Theory of Multimedia Learning. *Educational Technology Research and Development*, 71(3), 1033–1053. <https://doi.org/10.1007/s11423-022-10181-1>
- Chaiklin, S. (2003). The zone of proximal development in Vygotsky's analysis of learning and instruction. In A. Kozulin, B. Gindis, V. S. Ageyev, & S. M. Miller (Eds.), *Vygotsky's educational theory in cultural context* (pp. 39–64). Cambridge: Cambridge University Press.
- Christianti, M., Retnowati, T. H., & Wening, S. (2023). Predictors of Children's Literacy: A Meta-Analysis Study Alphabet of Knowledge. *Jurnal Obsesi : Jurnal Pendidikan Anak Usia Dini*, 7(2), 2428–2442. <https://doi.org/10.31004/obsesi.v7i2.4193>

- Chusna, N., Khasanah, U., & Najikhah, F. (2024). Interactive Digital Media for Learning in Primary Schools. *Asian Pendidikan*, 4, 72–78. <https://doi.org/10.53797/aspen.v4i2.10.2024>
- Daryanto, E., & Darwin, D. (2020). Needs Analysis and Implementation Training Management Model Development. *Proceedings of the Proceedings of the 3rd Annual Conference of Engineering and Implementation on Vocational Education, ACEIVE 2019, 16 November 2019, Universitas Negeri Medan, North Sumatra, Indonesia*. Proceedings of the the 3rd Annual Conference of Engineering and Implementation on Vocational Education, ACEIVE 2019, 16 November 2019, Universitas Negeri Medan, North Sumatra, Indonesia, Medan, Indonesia. <https://doi.org/10.4108/eai.16-11-2019.2293238>
- Denieffe, S. (2020). Commentary: Purposive sampling: complex or simple? Research case examples. *Journal of Research in Nursing*, 25(8), 662–663. <https://doi.org/10.1177/1744987120928156>
- Daniels, H. (2016). *Vygotsky and pedagogy* (2nd ed.). London: Routledge
- Deva, Khairani, & Yani Lubis. (2023). The Influence Of Phonological Awareness On Early Literacy Development. *Guruku: Jurnal Pendidikan Dan Sosial Humaniora*, 1(3), 01–14. <https://doi.org/10.59061/guruku.v1i3.185>
- Devi, M. Y., & Rusbinal, R. (2023). Validation of Digital Learning Media to Improve the Basic Literacy Skills of Low-Grade Elementary School Students. *Jurnal Obsesi : Jurnal Pendidikan Anak Usia Dini*, 7(1), 119–129. <https://doi.org/10.31004/obsesi.v7i1.3713>
- Efendi, E., Fatika, A., Mahrani, Z., & Miranda, R. (2024). Komunikasi Simbiotik dalam Masyarakat. *Da'watuna: Journal of Communication and Islamic Broadcasting*, 3(4), 1753–1761. <https://doi.org/10.47467/dawatuna.v3i4.454>
- Ehri, L. C. (2022a). What Teachers Need to Know and Do to Teach Letter-Sounds, Phonemic Awareness, Word Reading, and Phonics. *The Reading Teacher*, 76(1), 53–61. <https://doi.org/10.1002/trtr.2095>
- Ehri, L. C. (2022b). What Teachers Need to Know and Do to Teach Letter-Sounds, Phonemic Awareness, Word Reading, and Phonics. *The Reading Teacher*, 76(1), 53–61. <https://doi.org/10.1002/trtr.2095>
- Erita, Y., Henita, N., & Nadia, D. O. (2024). Peningkatan Kemampuan Membaca Permulaan Menggunakan Media Kartu Suku Kata Di Sekolah Dasar. *ENGGANG: Jurnal Pendidikan, Bahasa, Sastra, Seni, Dan Budaya*, 4(1), 298–308. <https://doi.org/10.37304/enggang.v4i1.11717>
- Erwina, E., Syarfina, T., & Chitra, B. P. (2024). Indonesian Sound Errors in Television Advertisements. *Mimbar Ilmu*, 29(1), 56–66. <https://doi.org/10.23887/mi.v29i1.73129>
- Farag Hanna, C. H. (2023). *Phonic Faces as a Method for Improving Decoding for Children with Persistent Decoding Deficits* [Master of Arts, Louisiana State University and Agricultural and Mechanical College]. [https://doi.org/10.31390/gradschool\\_theses.5725](https://doi.org/10.31390/gradschool_theses.5725)
- Fatimah, S. (2024). Pengaruh Penggunaan Aplikasi Quizizz Terhadap Hasil Belajar Pendidikan Agama Islam dan Budi Pekerti di Kelas VII SMP

- Negeri 3 Bahorok. *Mutiara : Jurnal Penelitian Dan Karya Ilmiah*, 2(5), 206–215. <https://doi.org/10.59059/mutiara.v2i5.1923>
- Fenuku, S. D. (2024). The Core Aspects of Effective Language Pedagogy: Listening, Speaking, Writing and Reading. *Jurnal Smart*, 10(2), 132–154. <https://doi.org/10.52657/js.v10i2.2345>
- Festiyed, Daulay, H., & Ridhatullah, M. (2023). Influence of Interactive Multimedia Teaching Materials on Cognitive Learning Outcomes of Students in Science Lessons: A Meta-Analysis. *Jurnal Penelitian Pendidikan IPA*, 9(8), 387–396. <https://doi.org/10.29303/jppipa.v9i8.2693>
- Fikri, H., Sri Madona, A., & Morelent, Y. (2019). Validity after Limited Scale Trial in Designing Indonesian Language Learning Multimedia for Class V Elementary School Students. *KnE Social Sciences*, 3(15), 273. <https://doi.org/10.18502/kss.v3i15.4373>
- Fitriyah, R., Hilmiyati, F., & Juhji, J. (2024). Effectiveness of Canva-Based Interactive Animation Media in Enhancing Learning Interest of Second-Grade Madrasah Ibtidaiyah Students. *Al-Adzka: Jurnal Ilmiah Pendidikan Guru Madrasah Ibtidaiyah*, 14(2), 135–150. <https://doi.org/10.18592/aladzkapgmi.v14i2.13896>
- Gea, E., Rukmanti, F., Manik, D. M. B., Hulu, A. D., & Zebua, W. S. (2024). Strategi Guru dalam Mengembangkan Kemampuan Literasi Siswa di Sekolah Dasar. *Sinar Dunia: Jurnal Riset Sosial Humaniora Dan Ilmu Pendidikan*, 3(3), 56–62. <https://doi.org/10.58192/sidu.v3i3.2413>
- Ghazzoul, N. (2023). The Role of Linguistic Structure in Sentence and Text Comprehension: A Comparative Analysis of Depth-First Versus Breadth-First Models. *Theory and Practice in Language Studies*, 13(2), 267–275. <https://doi.org/10.17507/tpls.1302.01>
- Golder, P. N., & Mitra, D. (2018). New product development research: Consolidating the present and guiding the future. In P. N. Golder & D. Mitra (Eds.), *Handbook of Research on New Product Development*. Edward Elgar Publishing. <https://doi.org/10.4337/9781784718152.00007>
- Grigoryan, A. (2020). Major Stages Of Reading Skills Development. *Armenian Journal of Special Education*, 4(2), 42–51. <https://doi.org/10.24234/se.2020.1.1.71>
- Guana, J., Arteaga, Y., Criollo, S., & Cajamarca, D. (2024). Use of Interactive Technologies to Increase Motivation in University Online Courses. *Education Sciences*, 14(12), 1406. <https://doi.org/10.3390/educsci14121406>
- Gumelar, W. S., & Lestari, T. S. (2024). The Phonics Method to Increase English Pronunciation for Young Learners. *Jurnal Simki Pedagogia*, 7(2), 350–362. <https://doi.org/10.29407/jsp.v7i2.687>
- Hardiyansyah, A., Doyan, A., Jufri, A. W., Susilawati, S., & Jamaluddin, J. (2019). Analysis of Validation Development of Learning Media of Microscope Digital Portable Auto Design to Improve Student Creativity and Problem-Solving Ability. *Jurnal Penelitian Pendidikan IPA*, 5(2), 228–232. <https://doi.org/10.29303/jppipa.v5i2.273>

- Harjasujana, A., & Damaianti, V. (2003). *Membaca dalam Tori dan Praktik*. Mutiara.
- Haviz, M. (2016). Research and Development; Penelitian Di Bidang Kependidikan Yang Inovatif, Produktif Dan Bermakna. *Ta'dib*, 16(1). <https://doi.org/10.31958/jt.v16i1.235>
- Hemant Patil, Saurabh S. Sirsikar, & Nitin N. Gholap. (2017). Product Design and Development: Phases and Approach. *International Journal of Engineering Research And*, V6(07). <https://doi.org/10.17577/ijertv6is070136>
- Hammond, J., & Gibbons, P. (2005). Putting scaffolding to work: The contribution of scaffolding in articulating ESL education. *Prospect*, 20(1), 6–30
- Hidayat, M., & Astuti, W. (2019). The Effect of Small Step Reading Method and Stepping Stone Method on The Ability of Beginning Reading of Elementary School Students. *Proceedings of the Proceedings of the 4th Progressive and Fun Education International Conference, Profunedu 2019, 6-8 August 2019, Makassar, Indonesia*. Proceedings of the 4th Progressive and Fun Education International Conference, Profunedu 2019, 6-8 August 2019, Makassar, Indonesia, Makassar, Indonesia. <https://doi.org/10.4108/eai.7-8-2019.2288409>
- Hudson, A., Koh, P. W., & Moore, K. (2020). Fluency Interventions for Elementary Students with Reading Difficulties: A Synthesis of Research from 2000–2019. *Education Sciences*, 10(3), 52. <https://doi.org/10.3390/educsci10030052>
- Hulme, C., Nash, H. M., Gooch, D., Lervåg, A., & Snowling, M. J. (2015). The Foundations of Literacy Development in Children at Familial Risk of Dyslexia. *Psychological Science*, 26(12), 1877–1886. <https://doi.org/10.1177/0956797615603702>
- Husaini, A., Syarifuddin, H., & Usmadi, U. (2019). The Practicality of Learning Devices Cooperative Models Based on Blended Learning to Improve Learning Outcomes of 10th-Grade MA Students. *International Journal of Trends in Mathematics Education Research*, 2(3), 157–160. <https://doi.org/10.33122/ijtmer.v2i3.121>
- Igland, M.-A. (2023). Soner for nært skriveutvikling: Ei utviklings- og danningsorientert tilnærming til responsdialogar. In *Læring i et Vygotsky-perspektiv: Muligheter og konsekvenser for opplæringen* (pp. 153–175). Cappelen Damm Akademisk/NOASP. <https://doi.org/10.23865/noasp.191.ch9>
- Inayah, P., Muttaqien, Z., Maharani, D., & Sukmawati, S. (2024). Improving Indonesian Language Learning Outcomes Through a Cultural Responsive Teaching Approach and the Secret Cards Game Method. *JUPE : Jurnal Pendidikan Mandala*, 9(2), 347. <https://doi.org/10.58258/jupe.v9i2.6976>
- Irdawati. (2014). Peningkatkan Kemampuan Membaca Permulaan dengan Menggunakan Media Gambar Kelas 1 di MIN Boul. *Jurnal Kreatif Tadulako Online*, 5(4), 1–14.

- Istikomah, Puji Astutik, A., & Jannah, M. (2021). The Website-based Information Literacy system and Application in Education Facing the Age of Industrial Revolution 4.0". *Journal of Physics: Conference Series*, 1779(1), 012055. <https://doi.org/10.1088/1742-6596/1779/1/012055>
- Jamalludin, J., Handayani, R. D., & Prastowo, S. H. B. (2023). Development of Science Learning Media Using Supcath Educational Games to Improve Student Learning Outcomes. *Jurnal Penelitian Pendidikan IPA*, 9(5), 2397–2402. <https://doi.org/10.29303/jppipa.v9i5.3499>
- Jasper, J., Elliott-Negri, L., Jabola-Carolus, I., Kagan, M., & Mahlbacher, J. (2022). *Gains and Losses: How Protestors Win and Lose* (1st ed.). Oxford University PressNew York. <https://doi.org/10.1093/oso/9780197623251.001.0001>
- Jayanti, W., Fortinasari, P., & Putri, N. (2024). Building a Strong Foundation in English with Phonics Method among the First Graders of Elementary School in Magelang. *Satya Widya*, 40(1), 62–72. <https://doi.org/10.24246/j.sw.2024.v40.i1.p62-72>
- Jeblaoui, Z. (2022). The Syllabic Awareness and Upgrading the Reading Abilities of Learners. *International Journal of Humanities and Educational Research*, 4(2). <https://doi.org/10.47832/2757-5403.13.7>
- Jones, T., Brim, M. J., & Vallee, G. (2017). UNITY: Unified Memory and File Space. *Proceedings of the 7th International Workshop on Runtime and Operating Systems for Supercomputers ROSS 2017*, 1–8. <https://doi.org/10.1145/3095770.3095776>
- Kartal, G., & Terziyan, T. (2016). Development and Evaluation of Game-Like Phonological Awareness Software for Kindergarteners: JerenAli. *Journal of Educational Computing Research*, 53(4), 519–539. <https://doi.org/10.1177/0735633115608397>
- Khairiah Zahra, Zahira Shofa Sihotang, & Yani Lubis. (2023). Changes In Indonesian Phonology In The Medan Dialect: Generative Analysis. *Atmosfer: Jurnal Pendidikan, Bahasa, Sastra, Seni, Budaya, Dan Sosial Humaniora*, 1(3), 206–215. <https://doi.org/10.59024/atmosfer.v1i3.237>
- Khotimah, H., Ratno Abidin, Wahono, & Suweleh, W. (2023). The Phonics Approach Improves Early Reading Skills in Preschoolers Aged 4-5 Years. *Jurnal Pendidikan Anak Usia Dini Undiksha*, 11(1), 24–30. <https://doi.org/10.23887/paud.v11i1.56614>
- Kim, M. H., & Ha, J.-W. (2016). Effects of auditory and visual presentation on phonemic awareness in 5- to 6- year-old children. *Phonetics and Speech Sciences*, 8(1), 71–80. <https://doi.org/10.13064/KSSS.2016.8.1.071>
- Kurunziza, S. (2024). The Role of Phonological Awareness in Early Reading Development. *European Journal of Linguistics*, 3(3), 15–26. <https://doi.org/10.47941/ejl.2051>
- Labov, W. (2020). The regularity of regular sound change. *Language*, 96(1), 42–59. <https://doi.org/10.1353/lan.2020.0001>
- Lantolf, J. P., & Thorne, S. L. (2006). *Sociocultural theory and the genesis of second language development*. Oxford: Oxford University Press

- Lestari, A. F., Salahudin, A., & Sofyan, M. (2022). Penerapan Metode Fonik Untuk Meningkatkan Kemampuan Membaca Permulaan Pada Siswa Kelas I SDN Babakan 04 Cilacap Jawa Tengah. *Edukasi: Jurnal Penelitian Dan Artikel Pendidikan*, 14(2), 145–156. <https://doi.org/10.31603/edukasi.v14i2.8143>
- Liu, C., Wang, L., Pi, Z., & Yang, J. (2024). Interaction matters: Co-viewing facilitates learning from live video streaming for elementary students. *Education and Information Technologies*, 29(2), 2387–2411. <https://doi.org/10.1007/s10639-023-11920-4>
- Mado, T. (2023). Aplikasi Multimedia Pembelajaran Huruf Dan Angka Untuk Anak—Anak. *HOAQ (High Education of Organization Archive Quality) : Jurnal Teknologi Informasi*, 12(1), 38–44. <https://doi.org/10.5297/hoaq.vol12no1.p38-44>
- Majorano, M., Bastianello, T., Florit, E., Lavelli, M., Bertelli, B., & Ferrari, R. (2023). An Intervention Program Based on the Syllabic Method for Enhancing Early Literacy in Preschool Children. *Journal of Research in Childhood Education*, 37(4), 550–563. <https://doi.org/10.1080/02568543.2022.2147258>
- Makhsudova, O. (2023). The Impact of Phonetics in the Teaching of Language. *Current Research Journal of Pedagogics*, 04(01), 89–93. <https://doi.org/10.37547/pedagogics-crjp-04-01-13>
- Mayer, R. E. (Ed.). (2014). Cognitive Theory of Multimedia Learning. In *The Cambridge Handbook of Multimedia Learning* (2nd ed., pp. 43–71). Cambridge University Press. <https://doi.org/10.1017/CBO9781139547369.005>
- Miclea, E. M., Roman, A. F., & Faculty of Educational Sciences, Psychology and Social Work, “Aurel Vlaicu” University of Arad, Arad, Romania. (2024). Using Multimodal Text to Support Learning in the Developmental Curriculum Cycle. *Educatia* 21, 28, 167–173. <https://doi.org/10.24193/ed21.2024.28.18>
- Miftah, M. (2014). Pemanfaatan Media Pembelajaran Untuk Peningkatan Kualitas Belajar Siswa. *Kwangsan: Jurnal Teknologi Pendidikan*, 2(1), 1. <https://doi.org/10.31800/jtp.kw.v2n1.p1--12>
- Mittag, M., Alho, K., Takegata, R., Makkonen, T., & Kujala, T. (2013). Audiovisual attention boosts letter-speech sound integration. *Psychophysiology*, 50(10), 1034–1044. <https://doi.org/10.1111/psyp.12085>
- Moats, L. (2019). Phonics and Spelling: Learning the Structure of Language at the Word Level. In D. A. Kilpatrick, R. M. Joshi, & R. K. Wagner (Eds.), *Reading Development and Difficulties* (pp. 39–62). Springer International Publishing. [https://doi.org/10.1007/978-3-030-26550-2\\_3](https://doi.org/10.1007/978-3-030-26550-2_3)
- Moll, L. C. (2014). *L. S. Vygotsky and education*. New York: Routledge
- Mossbridge, J., Zweig, J., Grabowecky, M., & Suzuki, S. (2017). An Association between Auditory Visual Synchrony Processing and Reading Comprehension: Behavioral and Electrophysiological Evidence. *Journal of Cognitive Neuroscience*, 29(3), 435–447. [https://doi.org/10.1162/jocn\\_a\\_01052](https://doi.org/10.1162/jocn_a_01052)

- Moustafa, A., & Ghani, M. Z. (2016). *The Effectiveness of a Multi Sensory Approach in Improving Letter-Sound Correspondence among Mild Intellectual Disabled Students in State of Kuwait*.
- Mukhibun, A., Andayani, A., & Suhita, R. (2024). Indonesian Language Learning Strategy for Foreign Speakers Using the Sangiran Museum: Case Study of TISOL Learners from Kokushikan University. *Journal of Learning Improvement and Lesson Study*, 4(1), 51–61. <https://doi.org/10.24036/jlls.v4i1.84>
- Munir, M. (2021). The Effectiveness of Phonic Based Approach in Young Esl Learners. *International Journal of Literature, Linguistics and Translation Studies*, 1, 78–108. <https://doi.org/10.37605/ijllts.v1i1.4>
- Munir, M., & Ahmad, A. (2021). The Effectiveness of Phonic Based Approach in Young Esl Learners. *International Journal of Literature, Linguistics and Translation Studies*, 1, 78–108. <https://doi.org/10.37605/ijllts.v1i1.4>
- Nabilah, B., Supriadi, S., Zakir, S., & Efriyanti, L. (2024). Development of Learning Media Using Canva in Class XI Science at MAN 2 Bukittinggi. *JIM: Jurnal Ilmiah Mahasiswa Pendidikan Sejarah*, 9(1), 317–325. <https://doi.org/10.24815/jimps.v9i1.29601>
- Nachshon, O., & Horowitz, T. (2019). Cognitive and emotional challenges in children with reading difficulties. *Acta Paediatrica*, 108(6), 1110–1114. <https://doi.org/10.1111/apa.14672>
- Naji, R. (2020). On the Origin and Causes of Sound Change: A Review of Related Literature. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3717891>
- Najwah, L., & Putra, M. (2024). Dasar-Dasar Fonetik Dalam Pembelajaran Bahasa. *Jurnal Sathar*, 2(2), 78–91. <https://doi.org/10.59548/js.v2i2.284>
- Narayan, K. G., Sinha, D. K., & Singh, D. K. (2023). Sampling Techniques. In K. G. Narayan, D. K. Sinha, & D. K. Singh, *Veterinary Public Health & Epidemiology* (pp. 111–123). Springer Nature Singapore. [https://doi.org/10.1007/978-981-19-7800-5\\_12](https://doi.org/10.1007/978-981-19-7800-5_12)
- Nigrum, S., & Fradana, A. (2024). Penggunaan Multimedia Interaktif Dalam Meningkatkan Kemampuan Membaca Permulaan Di Sekolah Dasar. *Jurnal Ilmiah Pendidikan Dasar*, 9(2). <https://doi.org/10.23969/jp.v9i2.13235>
- Nikleva, D., & Rodriguez, F. (2022). Effects of a visual literacy programme for the improvement of reading comprehension in primary and secondary school students. *L1-Educational Studies in Language and Literature*, 22, 1–19. <https://doi.org/10.21248/l1esll.2022.22.1.394>
- Novianti, R., Syihabuddin, S., & Rochyadi, E. (2019). Phonology-based reading instruction to improve dyslexic students' early reading ability. *Indonesian Journal of Applied Linguistics*, 9(2). <https://doi.org/10.17509/ijal.v9i2.20242>
- Pancajaksan, I., & K, V. (2020). Research designs-an overview. *Kerala Journal of Psychiatry*, 32(1). <https://doi.org/10.30834/KJP.32.1.2019.179>
- Pasaribu, G. R., Arfianty, R., & Bunce, J. (2024). Exploring Early Childhood Linguistic Intelligence Through English Language Learning Methods.

- Innovations in Language Education and Literature*, 1(2), 68–73.  
<https://doi.org/10.31605/ilere.v1i2.4337>
- Pirie, J., Kappus, L., Sudikoff, S. N., & Bhanji, F. (2016). Simulation Curriculum Development, Competency-Based Education, and Continuing Professional Development. In V. J. Grant & A. Cheng (Eds.), *Comprehensive Healthcare Simulation: Pediatrics* (pp. 181–193). Springer International Publishing. [https://doi.org/10.1007/978-3-319-24187-6\\_14](https://doi.org/10.1007/978-3-319-24187-6_14)
- Pratama, R. S., Aditya, F., Daely, V. G., & Febriana, I. (2024). Peran Bahasa Indonesia Dalam Pembangunan Bangsa. *Morfologi: Jurnal Ilmu Pendidikan, Bahasa, Sastra Dan Budaya*, 2(3), 65–71. <https://doi.org/10.61132/morfologi.v2i3.607>
- Purnamasari, I. (2023). Increasing Literacy Through Interactive Media In Early Childhood. *Jurnal Obsesi : Jurnal Pendidikan Anak Usia Dini*, 7(3), 2685–2694. <https://doi.org/10.31004/obsesi.v7i3.4414>
- Putri, M. A., & Andriana, L. (2022). Pembelajaran Bahasa dan Sastra Indonesia di SD 114 Bojongkoneng Bandung. *Protasis: Jurnal Bahasa, Sastra, Budaya, Dan Pengajarannya*, 1(1), 136–141. <https://doi.org/10.55606/protasis.v1i1.34>
- Rabindran, & Madanagopal, D. (2020). Piaget's Theory and Stages of Cognitive Development- An Overview. *Scholars Journal of Applied Medical Sciences*, 8(9), 2152–2157. <https://doi.org/10.36347/sjams.2020.v08i09.034>
- Rahmah, W., & Pandjaitan, L. (2018). The Effectivity of Phonics Method in Improving Reading Ability of 1st Grade Elementary School Students. *Proceedings of the 1st International Conference on Education Innovation (ICEI 2017)*. 1st International Conference on Education Innovation (ICEI 2017), Surbaya, Indonesia. <https://doi.org/10.2991/icei-17.2018.101>
- Rahman, T. (2024). Game-based Digital Media Development to Improve Early Children's Literacy. *Indian Journal of Information Sources and Services*, 14(2), 104–108. <https://doi.org/10.51983/ijiss-2024.14.2.15>
- Rahman, Walipah, Sopandi, & Sujana. (2020). School Literacy Movement in the Industrial Revolution Era 4.0 in Building Speed Reading Skills. *International Conference on Elementary Education*, 2(1), 1763–1770.
- Ratumbuisang, K. F. (2023). Interactive Multimedia as Instructional Media for Elementary School Students. *Jurnal Inovasi Pendidikan Dan Teknologi Informasi (JIPTI)*, 4(2), 245–254. <https://doi.org/10.52060/pti.v4i2.1516>
- Redhamah, G., Jamain, R. R., & Noorhapizah, N. (2024). Implementation of English Language Acquisition with the Phonics Method (Multi-site Study at Hasanuddin Madjedi and Madinaturramlah Islamic Integrated Early Childhood Center in Banjarmasin City). *Formosa Journal of Applied Sciences*, 3(4), 2083–2100. <https://doi.org/10.55927/fjas.v3i4.8806>
- Rivaldi & Agnan. (2023). Analisis Variasi Fonologis Bahasa Jawa. *Sintaksis : Publikasi Para Ahli Bahasa Dan Sastra Inggris*, 1(6), 38–47. <https://doi.org/10.61132/sintaksis.v1i6.227>

- Rohl, M. (2020). Learning about words, sounds and letters. In C. Barratt-Pugh & M. Rohl (Eds.), *Literacy learning in the early years* (1st ed., pp. 57–80). Routledge. <https://doi.org/10.4324/9781003116325-3>
- Rogoff, B. (1990). *Apprenticeship in thinking: Cognitive development in social context*. New York: Oxford University Press
- Rudinskiy, I. D., Parakhina, O. V., Pugacheva, N. S., & Kravets, O. J. (2020). Educational engineering: The technological basis for creating educational products. *Journal of Physics: Conference Series*, 1691(1), 012157. <https://doi.org/10.1088/1742-6596/1691/1/012157>
- Rulyandi, R., Hafiz, H. S., Haris, A., & Nasri, U. (2024). Indonesian Language Education as an Agent of Social Change: Sociological and Religious Approaches. *Scholars International Journal of Linguistics and Literature*, 7(03), 67–72. <https://doi.org/10.36348/sijll.2024.v07i03.001>
- Safi, M. F., Al Sadrani, B., & Mustafa, A. (2023). Virtual voice assistant applications improved expressive verbal abilities and social interactions in children with autism spectrum disorder: A Single-Subject experimental study. *International Journal of Developmental Disabilities*, 69(4), 555–567. <https://doi.org/10.1080/20473869.2021.1977596>
- Saputra, R., & Masykuri, A. (2023). Analisis Variasi Fonologis Bahasa Jawa. *Sintaksis : Publikasi Para Ahli Bahasa Dan Sastra Inggris*, 1(6), 38–47. <https://doi.org/10.61132/sintaksis.v1i6.227>
- Sari, H. S. E., & Liansari, V. (2021). Analysis of Beginning Reading Ability in Elementary School. *Academia Open*, 6. <https://doi.org/10.21070/acopen.6.2022.2400>
- Schiller, V. (2021). An Educational Game for Programming in the Unity Engine. *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems*, 1–5. <https://doi.org/10.1145/3411763.3451852>
- Sethi, N., Dev, A., & Bansal, P. (2022). Multimodal Machine Translation for Sanskrit-Hindi: An Empirical Analysis. *2022 4th International Conference on Artificial Intelligence and Speech Technology (AIST)*, 1–4. <https://doi.org/10.1109/AIST55798.2022.10064790>
- Shankweiler, D. (2012). Reading and Phonological Processing. In *Encyclopedia of Human Behavior* (pp. 249–256). Elsevier. <https://doi.org/10.1016/B978-0-12-375000-6.00279-2>
- Shankweiler, D., & Fowler, C. A. (2019). Relations Between Reading and Speech Manifest Universal Phonological Principle. *Annual Review of Linguistics*, 5(1), 109–129. <https://doi.org/10.1146/annurev-linguistics-011718-012419>
- Silviyani, A., Suryana, D., & Zahara Nurani, R. (2023). Analisis Kesulitan Belajar Membaca Permulaan Pada Siswa Kelas II SD Negeri Manggalasari. *Pendas : Jurnal Ilmiah Pendidikan Dasar*, 8(1), 4331–4340. <https://doi.org/10.23969/jp.v8i1.7776>
- Singh, S., & Kaur, A. (2022). Game Development using Unity Game Engine. *2022 3rd International Conference on Computing, Analytics and Networks (ICAN)*, 1–6. <https://doi.org/10.1109/ICAN56228.2022.10007155>
- Siqueira, V., Cortez, P. A., Galvão, J. K. C. S., & Rocha, M. L. (2016). ABECE: An Application for Initial Literacy though the Phonic Method.

- International Journal of E-Education, e-Business, e-Management and e-Learning*, 6(2), 84–90. <https://doi.org/10.17706/ijeeee.2016.6.2.84-90>
- Siregar, R. T., & Devianty, R. (2024). Strategi Pembelajaran Bahasa Indonesia untuk Meningkatkan Keterampilan Berbahasa. *BLAZE : Jurnal Bahasa Dan Sastra Dalam Pendidikan Linguistik Dan Pengembangan*, 2(2), 102–111. <https://doi.org/10.59841/blaze.v2i2.1203>
- Smith, S. K., Tayman, J., & Swanson, D. A. (2013). Fundamentals of Population Analysis. In S. K. Smith, J. Tayman, & D. A. Swanson, *A Practitioner's Guide to State and Local Population Projections* (Vol. 37, pp. 19–43). Springer Netherlands. [https://doi.org/10.1007/978-94-007-7551-0\\_2](https://doi.org/10.1007/978-94-007-7551-0_2)
- Sri, Iin Purnamasari, Duwi Nuvitalia, & Andiani Rahmawati. (2023). Kompetensi 4c Dalam Implementasi Kurikulum Merdeka Di Kelas Iv Sekolah Dasar. *Didaktik : Jurnal Ilmiah PGSD STKIP Subang*, 9(2), 5202–5210. <https://doi.org/10.36989/didaktik.v9i2.1136>
- Sriastuti, L., & Masing, M. (2022). Application of Jean Piaget's Cognitive Learning Theory in Early Childhood Education. *SOKO GURU: Jurnal Ilmu Pendidikan*, 2(1), 14–22. <https://doi.org/10.55606/sokoguru.v2i1.101>
- Stefaniak, J. E., & Hwang, H. (2021). A systematic review of how expertise is cultivated in instructional design coursework. *Educational Technology Research and Development*, 69(6), 3331–3366. <https://doi.org/10.1007/s11423-021-10064-x>
- Sucipta, I. M. D., & Yuliantini, N. N. (2023). Perkembangan Bahasa Dan Pengaruhnya Terhadap Perubahan Kaidah Ejaan Bahasa Indonesia. *Prosiding Seminar Nasional Riset Bahasa Dan Pengajaran Bahasa*, 5(1), 1–12. <https://doi.org/10.31940/senarilip.v5i1.1-12>
- Sunde, K., Furnes, B., & Lundetrae, K. (2020). Does Introducing the Letters Faster Boost the Development of Children's Letter Knowledge, Word Reading and Spelling in the First Year of School? *Scientific Studies of Reading*, 24(2), 141–158. <https://doi.org/10.1080/10888438.2019.1615491>
- Susanti, F. E., & Fitria, Y. (2023). Kelayakan Media Interaktif Berbasis Masalah Dalam Pembelajaran Tematik Terpadu di Sekolah Dasar. *E-Jurnal Inovasi Pembelajaran Sekolah Dasar*, 11(1), 1. <https://doi.org/10.24036/e-jipsd.v11i1.14385>
- Susanto, H., Setiawan, D., Firdaus, Z., Kusmayadi, C. T., & Fitriyati, U. (2024). Visual, audio, and kinesthetic students' learning independence: Improvement through the development of augmented reality media. *Journal of Research in Instructional*, 4(2). <https://doi.org/10.30862/jri.v4i2.420>
- Suteja, Era Sastra Pangestu, & Faiqotussana. (2022). The Phonics Method in Aṣwat Learning and Its Influence on the Reading Ability of Ibtidaiyyah Madrasah Students: Metode Fonetik dalam Pembelajaran Aṣwat dan Pengaruhnya Terhadap Kemampuan Membaca Siswa Madrasah Ibtidaiyyah. *Al Mahāra: Jurnal Pendidikan Bahasa Arab*, 8(2), 231–247. <https://doi.org/10.14421/almahara.2022.082-03>

- Tiani, F., Simbolon, M. E., & Hermawati, E. (2023). Penerapan Metode Fonik Terhadap Kemampuan Membaca Permulaan Siswa. *Jurnal Ilmiah Aquinas*, 172–178. <https://doi.org/10.54367/aquinas.v6i2.2796>
- Unruh, S., & McKellar, N. A. (2017). Reading Fluency and Vocabulary. In S. Unruh & N. A. McKellar, *Assessment and Intervention for English Language Learners* (pp. 81–96). Springer International Publishing. [https://doi.org/10.1007/978-3-319-52645-4\\_6](https://doi.org/10.1007/978-3-319-52645-4_6)
- Uzmi, M. F., & Nurul, A. (2024). Hakikat Fonologi Dalam Kajian Linguistik. *Jurnal Sathar*, 2(2), 55–66. <https://doi.org/10.59548/js.v2i2.282>
- Velda, N. M., & Mustika, D. (2022). Validitas Media Animasi Kartun Materi Siklus Air Kelas V Sekolah Dasar. *IJoIS: Indonesian Journal of Islamic Studies*, 3(2), 249–262. <https://doi.org/10.59525/ijois.v3i2.125>
- Virdyna, N. K. (2015). Penerapan Metode Fonik Dalam Pembelajaran Bahasa Inggris Bagi Anak Usia Dini. *OKARA: Jurnal Bahasa dan Sastra*, 9(1), 113. <https://doi.org/10.19105/ojbs.v9i1.584>
- Voinea, L. (2018). Formative Assessment as Assessment for Learning Development. *Revista de Pedagogie - Journal of Pedagogy*, LXVI(1), 7–23. <https://doi.org/10.26755/RevPed/2018.1/7>
- Vu, N. N., Hung, B. P., & Van, N. T. T. (2022). Theoretical and Instructional Aspects of Using Multimedia Resources in Language Education: A Cognitive View. In R. Kumar, R. Sharma, & P. K. Pattnaik (Eds.), *Multimedia Technologies in the Internet of Things Environment, Volume 2* (Vol. 93, pp. 165–194). Springer Singapore. [https://doi.org/10.1007/978-981-16-3828-2\\_9](https://doi.org/10.1007/978-981-16-3828-2_9)
- Vygotsky, L. S. (1978). *Mind in Society: The Development of Higher Psychological Processes*. Cambridge, MA: Harvard University Press
- Wahjusaputri, S., & Zulviana, D. (2024). *Metode Phonics: Panduan Belajar Bahasa Inggris Bagi Anak Usia Dini* (Vol. viii). Bintang Semesta Media Yogyakarta.
- Wahyu, D. (2024). Penggunaan Media Video & Gambar Dalam Pembelajaran IPAS Pada Siswa Kelas 4 SDN 1 Wonoboyo. *BAHUSACCA : Pendidikan Dasar Dan Manajemen Pendidikan*, 4(1), 26–30. <https://doi.org/10.53565/bahusacca.v4i1.928>
- Wahyuni, N. T. (2022). Trial of Synthetic Phonics extended to Storybook Reading to Improve Reading Skills of Indonesian Third Graders Enrolled in a Bilingual School. *International Journal of Instruction*, 15(4), 1091–1112. <https://doi.org/10.29333/iji.2022.15458a>
- Wood, D., Bruner, J. S., & Ross, G. (1976). The role of tutoring in problem solving. *Journal of Child Psychology and Psychiatry*, 17(2), 89–100
- Wulandari, D., Rochmiyati, S., Nuryani, E., Khosiyono, B. H. C., Febriarti, G. N., Nurrohmah, M. F., & Zumaroh, M. N. (2022). Implementation of Interactive Multimedia for the First-grade Beginning Readers of Elementary School. *Tamansiswa International Journal in Education and Science*, 3(2), 47–53. <https://doi.org/10.30738/tijes.v3i2.12185>
- Wulansari, K., Cahyani, I., & Sastromiharjo, A. (2024). The Role of Indonesian Language Teachers in Creative Industry-Led Learning. *Proceedings of*

- International Conference on Education*, 2(1), 191–195.  
<https://doi.org/10.32672/pice.v2i1.1341>
- Wust, M., Maskut, N., Baumann, L., Heitplatz, V. N., Wilkens, L., Dirks, S., & Bühler, C. (2023). Easy Reading – Keeping the User at the Digital Original: Assessment and Potential Use of Easy Reading for Digital Accessibility. In M. Antona & C. Stephanidis (Eds.), *Universal Access in Human-Computer Interaction* (Vol. 14021, pp. 469–487). Springer Nature Switzerland. [https://doi.org/10.1007/978-3-031-35897-5\\_34](https://doi.org/10.1007/978-3-031-35897-5_34)
- Yoliando, F. T. (2022). Multi-sensory Approach in Designing Augmented Learning Kit for Children with Dyslexia. *Ultimart: Jurnal Komunikasi Visual*, 15(2), 151–159. <https://doi.org/10.31937/ultimart.v15i2.2840>
- Yu, A. (2006). Sound Change: Phonetics. In *Encyclopedia of Language & Linguistics* (pp. 525–528). Elsevier. <https://doi.org/10.1016/B0-08-044854-2/01871-X>
- Yusoff, Z., Katmon, S. A., Ahmad, M. N., & Miswan, S. H. M. (2013). Visual Representation: Enhancing Students' Learning Engagement through Knowledge Visualization. *2013 International Conference on Informatics and Creative Multimedia*, 242–247. <https://doi.org/10.1109/ICICM.2013.48>
- Zerva, I. K. (2023). Early Signs of Reading Difficulties and Phonological Awareness in Early School Age: In M. Sofologi, G. Kougioumtzis, & C. Koundourou (Eds.), *Advances in Educational Technologies and Instructional Design* (pp. 21–36). IGI Global. <https://doi.org/10.4018/978-1-6684-8203-2.ch002>
- Zhang, C., & Lu, Y. (2017). An Educational Tool based on Virtual Construction Site Visit Game. *Modern Applied Science*, 11(8), 47. <https://doi.org/10.5539/mas.v11n8p47>
- Zhou, L. (2024). Reading Ability Development in Children: Key Factors and the Role of the Teachers' Reading Instruction Competence. *Science Insights Education Frontiers*, 25(2), 4091–4093. <https://doi.org/10.15354/sief.24.co371>