

## **BAB III**

### **METODE PENELITIAN**

#### **A. Pendekatan dan Jenis Penelitian**

Penelitian ini menggunakan pendekatan kualitatif dengan metode deskriptif. Penjelasan Systematic Literature Review (SLR) digunakan dalam penelitian ini untuk menemukan, mengevaluasi, dan menganalisis artikel dengan sangat hati-hati dan serius. Selanjutnya jawaban atas pertanyaan penelitian diperoleh melalui pemeriksaan yang cermat (Snyder, 2019; Xiao & Watson, 2019). Tinjauan literatur yang komprehensif ini menyajikan penilaian singkat mengenai kemajuan, kontribusi, dan peluang untuk penelitian berpikir kritis di masa depan. Hal ini dieksplorasi dengan menggunakan pendekatan metodis dan transparan dalam menangani topik penelitian (Kurniati et al., 2022).

#### **B. Kehadiran Peneliti**

Dalam penelitian yang dilakukan secara kualitatif, peneliti sendiri yang melakukan proses penelitian, tidak dapat diwakili oleh orang lain. Oleh karena itu, untuk pengumpulan data, kehadiran peneliti sangat penting. Dalam penelitian ini peneliti bertindak sebagai Human instrumen. Peneliti menentukan fokus penelitian, memilih sumber data, mengumpulkan data, menganalisis data, menafsirkan data, dan yang terakhir yaitu menarik kesimpulan.

#### **C. Tempat dan Waktu Penelitian**

##### **1. Tempat Penelitian**

Tempat penelitian akan dilakukan di Universitas Muhammadiyah Malang.

## 2. Waktu Penelitian

Waktu pelaksanaan penelitian yang digunakan peneliti yakni dari bulan Desember 2023 hingga bulan Mei 2024.

### D. Sumber Data

"Critical AND thinking AND elementary AND students" adalah kata kunci yang digunakan dalam menu pencarian penelitian dari database Scopus. Temuan yang disajikan menjadi lebih jelas, menarik, dan komunikatif karena peneliti menggunakan software VOS-viewer.

Riwayat pencarian artikel di Scopus yaitu (TITLE-ABS-KEY ( critical AND thinking AND elementary AND students ) AND ( LIMIT-TO (SUBJAREA , "SOC" ) ) AND ( LIMIT-TO ( DOCTYPE , "ar" ) ) AND (LIMIT-TO ( LANGUAGE , "English" ) ) AND ( LIMIT-TO (EXACTKEYWORD , "Critical Thinking" ) OR LIMIT-TO (EXACTKEYWORD , "Elementary Students" ) ) AND ( LIMIT-TO (SRCTYPE , "j" ) ) AND ( LIMIT-TO ( OA , "all" ) ).

### E. Metode Pengumpulan Data dan Instrumen Penelitian

#### 1. Pengumpulan Data

Menu pencarian database Scopus menggunakan kata kunci “critical AND thinking AND elementary AND student”. Pencarian artikel dilakukan sampai bulan Desember 2023. Data hasil pencarian disimpan dalam format \*CSV dan \*RIS, dan kemudian disinkronkan menggunakan aplikasi (Mendeley), Manajer Referensi. Data yang disajikan menjadi lebih jelas,

menarik, dan komunikatif karena peneliti menggunakan software VOS-viewer. Riwayat pencarian artikel di Scopus yaitu (TITLE-ABS-KEY (critical AND thinking AND elementary AND students ) AND ( LIMIT-TO ( SUBJAREA , "SOC" ) ) AND ( LIMIT-TO ( DOCTYPE , "ar" ) ) AND ( LIMIT-TO ( LANGUAGE , "English" ) ) AND ( LIMIT-TO ( EXACTKEYWORD , "Critical Thinking" ) OR LIMIT-TO ( EXACTKEYWORD , "Elementary Students" ) ) AND ( LIMIT-TO ( SRCTYPE , "j" ) ) AND ( LIMIT-TO ( OA , "all" ). Pencarian kata kunci tersebut menemukan 622 artikel. Peneliti menemukan artikel yang tepat dengan menggunakan model Preferred Reporting Items for Systematic Reviews and Meta-Analysis (PRISMA). Menurut (Gallagher et al., 2016), Penulis sering menggunakan model PRISMA dalam SLR Yang telah dipublikasikan sebelumnya (Nurwidodo et al., 2023; Rahardjanto et al., 2022). Kriteria inclusion SLR ini didasarkan pada beberapa catatan: (1) Menggunakan subjek area “Social Sciences”; (2) publikasi termasuk jenis artikel research/original articles; (3) bahasa utama publikasi adalah bahasa inggris; (4) hanya publikasi yang bersifat open akses; (5) Artikel difilter dengan kata kunci “critical thinking”, “elementary students”.

## 2. Instrumen Penelitian

Panduan analisis ini menggunakan tabel distribusi tahun, jenis penelitian, kewarganegaraan penulis, kolaborasi internasional, dan jumlah penulis dalam publikasi:

### a. Distribusi Penelitian dalam Tahun

**Tabel 3.1 Distribusi dalam Tahun**

No.	Judul	Tahun
1.	<i>Examining the Influence of TASC Model Implementation in Instruction of Mathematics to Develop Cognitive Skills of Learners</i> (Alzahrani, 2023)	2023
2.	<i>Elementary students' engagement in transduction and creative and critical thinking</i> (Pantaleo, 2023)	2023
3.	<i>Social Construction of Technology: An Experience for Development of Critical-thinking and Nature of Science and Technology</i> (Ortega-Quevedo et al., 2023)	2023
4.	<i>Critical and creative thinking in teaching probability in the early years of elementary school</i> (de Carvalho et al., 2023)	2023
5.	<i>The Effectiveness of Hybrid Learning-Based Adaptive Media to Empower Student's Critical Thinking Skills: Is It Really for VARK Learning Style?</i> (Sulistyanto et al., 2023)	2023
6.	<i>Media and Information Literacy As Critical Pedagogy? Case Study of The Sarajevo Hasaan Kikic Elementary School</i> (Silajđić et al., 2022)	2022
7.	<i>The Effect of a Training Program Based on Mathematical Problem-Solving Strategies on Critical Thinking Among Seventh-Grade Students</i> (Alfayez et al., 2022)	2022
8.	<i>Critical thinking among fourth grade elementary school students: A gender perspective</i> (Kawuryan et al., 2022)	2022
9.	<i>Fake News and the "Wild Wide Web": A Study of Elementary Students' Reliability Reasoning</i> (Pilgrim & Vasinda, 2021)	2021
10.	<i>Improving Elementary School Students Critical Thinking Skill in Science Through Hots-Based Science Questuins; A Quasi-Experimental study</i> (Sidiq et al., 2021)	2021
11.	<i>The Impact Of Online Mentoring In Implementing RADEC Learning To The Elementary School Teachers Competence in Training Students Critical Thinking Skills: A Case Study During Covid-19 Pandemic</i> (H. Lestari et al., 2021)	2021
12.	<i>Implementing Inquiry Based Ethno-Constructivism learning module to Improve Students' Critical Thinking Skills and Attitudes Towards Cultural Values</i> (Syahril et al., 2021)	2021

13. *The Implementation of Mathematics Comic through Contextual Teaching and Learning to Improve Critical Thinking Ability and Character* (F. P. Lestari et al., 2021) 2021
  14. *Enhancing Pre-Service Elementary Teachers' Self-Efficacy and Critical Thinking using Problem-Based Learning* (Saputro et al., 2020) 2020
  15. *Reading and Critical Thinking Techniques on Understanding Reading Skills for Early Grade Students in Elementary School* (Ardhian et al., 2020) 2020
  16. *Analyzing Languages and Communication Textbooks in the Context of Achieving Competence: Student as a Critical Thinker* (Ismajli & Neziri, 2019) 2019
  17. *Computational Thinking Equity in Elementary Classrooms: What Third-Grade Students Know and Can Do* (Tran, 2019) 2019
  18. *Multidisciplinary Integrated Project-based Learning to Improve Critical Thinking Skills and Collaboration* (Trisdiono et al., 2019) 2019
  19. *Systems Thinking in a Second Grade Curriculum: Students Engaged to Address a Statewide Drought* (Curwen et al., 2018) 2018
  20. *An Analysis of the Units "I'm Learning my Past" and "The Place where We Live" in the Social Studies Textbook Related to Critical Thinking Standards* (AYBEK & ASLAN, 2016) 2016
  21. *Formation of Integrating Perceptions through Dual Treatments* (Kërënxhi, 2014) 2014
  22. *The impact of illustrations and warnings on solving mathematical word problem realistically* (Dewolf et al., 2014) 2014
  23. *Planning Science Instruction for Critical Thinking: Two Urban Elementary Teachers' Responses to a State Science Assessment* (Mangiante, 2013) 2013
  24. *The Effect of Critical Thinking Instruction on Verbal Descriptions of Music* (Daniel C. Johnson, 2011) 2011
  25. *The Effect of "Bilingualism" on Iranian ELT Student's "Critical thinking ability" (CT)* (Merrikhi, 2011) 2011
  26. *Faculty-Librarian Collaboration to Teach Research Skills: Electronic Symbiosis* (Bhavnagri & Bielat, 2005) 2005
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## b. Jenis Penelitian

Tabel 3.2. Jenis Penelitian

No.	Judul	Jenis Penelitian
1.	<i>Examining the Influence of TASC Model Implementation in Instruction of Mathematics to Develop Cognitive Skills of Learners</i> (Alzahrani, 2023)	Kuantitatif
2.	<i>Elementary students' engagement in transduction and creative and critical thinking</i> (Pantaleo, 2023)	Studi Kasus
3.	<i>Social Construction of Technology: An Experience for Development of Critical- thinking and Nature of Science and Technology</i> (Ortega-Quevedo et al., 2023)	Metode Campuran
4.	<i>Critical and creative thinking in teaching probability in the early years of elementary school</i> (de Carvalho et al., 2023)	Kualitatif
5.	<i>The Effectiveness of Hybrid Learning-Based Adaptive Media to Empower Student's Critical Thinking Skills: Is It Really for VARK Learning Style?</i> (Sulistiyanto et al., 2023)	Pengembangan
6.	<i>Media and Information Literacy As Critical Pedagogy? Case Study of The Sarajevo Hasaan Kikic Elementary School</i> (Silajdzic et al., 2022)	Studi Kasus
7.	<i>The Effect of a Training Program Based on Mathematical Problem-Solving Strategies on Critical Thinking Among Seventh-Grade Students</i> (Alfayez et al., 2022)	Kuantitatif
8.	<i>Critical thinking among fourth grade elementary school students: A gender perspective</i> (Kawuryan et al., 2022)	Kuantitatif
9.	<i>Fake News and the "Wild Wide Web": A Study of Elementary Students' Reliability Reasoning</i> (Pilgrim & Vasinda, 2021)	Kualitatif
10.	<i>Improving Elementary School Students Critical Thinking Skill in Science Through Hots-Based Science Questuins; A Quasi-Experimental study</i> (Sidiq et al., 2021)	Kuantitatif
11.	<i>The Impact Of Online Mentoring In Implementing RADEC Learning To The Elementary School Teachers Competence in Training Students Critical Thinking Skills: A Case Study During Covid-19 Pandemic</i> (H. Lestari et al., 2021)	Kuantitatif
12.	<i>Implementing Inquiry Based Ethno-Constructivism</i>	Kuantitatif

- learning module to Improve Students' Critical Thinking Skills and Attitudes Towards Cultural Values* (Syahril et al., 2021)
13. *The Implementation of Mathematics Comic through Contextual Teaching and Learning to Improve Critical Thinking Ability and Character* (F. P. Lestari et al., 2021) Kuantitatif
  14. *Enhancing Pre-Service Elementary Teachers' Self-Efficacy and Critical Thinking using Problem-Based Learning* (Saputro et al., 2020) Kuantitatif
  15. *Reading and Critical Thinking Techniques on Understanding Reading Skills for Early Grade Students in Elementary School* (Ardhian et al., 2020) Kuantitatif
  16. *Analyzing Languages and Communication Textbooks in the Context of Achieving Competence: Student as a Critical Thinker* (Ismajli & Neziri, 2019) Metode Campuran
  17. *Computational Thinking Equity in Elementary Classrooms: What Third-Grade Students Know and Can Do* (Tran, 2019) Metode Campuran
  18. *Multidisciplinary Integrated Project-based Learning to Improve Critical Thinking Skills and Collaboration* (Trisdiono et al., 2019) Kuantitatif
  19. *Systems Thinking in a Second Grade Curriculum: Students Engaged to Address a Statewide Drought* (Curwen et al., 2018) Kualitatif
  20. *An Analysis of the Units "I'm Learning my Past" and "The Place where We Live" in the Social Studies Textbook Related to Critical Thinking Standards* (AYBEK & ASLAN, 2016) Kualitatif
  21. *Formation of Integrating Perceptions through Dual Treatments* (Kërënxhi, 2014) Kualitatif
  22. *The impact of illustrations and warnings on solving mathematical word problem reaktivally* (Dewolf et al., 2014) Kuantitatif
  23. *Planning Science Instruction for Critical Thinking: Two Urban Elementary Teachers' Responses to a State Science Assessment* (Mangiante, 2013) 2013
  24. *The Effect of Critical Thinking Instruction on Verbal Descriptions of Music* (Daniel C. Johnson, 2011) Kuantitatif
  25. *The Effect of "Bilingualism" on Iranian ELT Student's "Critical thinking ability" (CT)* (Merrikhi, 2011) Kuantitatif

26. *Faculty-Librarian Collaboration to Teach Research Skills: Electronic Symbiosis*  
(Bhavnagri & Bielat, 2005) Kualitatif

c. Kewarganegaraan Penulis dan Kolaborasi Internasional

**Tabel 3.3. Kewarganegaraan Penulis**

No.	Judul	Asal Negara
1.	<i>Examining the Influence of TASC Model Implementation in Instruction of Mathematics to Develop Cognitive Skills of Learners</i> (Alzahrani, 2023)	Saudi Arabia
2.	<i>Elementary students' engagement in transduction and creative and critical thinking</i> (Pantaleo, 2023)	Kanada
3.	<i>Social Construction of Technology: An Experience for Development of Critical-thinking and Nature of Science and Technology</i> (Ortega-Quevedo et al., 2023)	Spanyol
4.	<i>Critical and creative thinking in teaching probability in the early years of elementary school</i> (de Carvalho et al., 2023)	Brazil
5.	<i>The Effectiveness of Hybrid Learning-Based Adaptive Media to Empower Student's Critical Thinking Skills: Is It Really for VARK Learning Style?</i> (Sulistiyanto et al., 2023)	Indonesia
6.	<i>Media and Information Literacy As Critical Pedagogy? Case Study of The Sarajevo Hasaan Kikic Elementary School</i> (Silajdžić et al., 2022)	Bosnia Herzegovina
7.	<i>The Effect of a Training Program Based on Mathematical Problem-Solving Strategies on Critical Thinking Among Seventh-Grade Students</i> (Alfayez et al., 2022)	Yordania
8.	<i>Critical thinking among fourth grade elementary school students: A gender perspective</i> (Kawuryan et al., 2022)	Indonesia
9.	<i>Fake News and the "Wild Wide Web": A Study of Elementary Students' Reliability Reasoning</i> (Pilgrim & Vasinda, 2021)	Amerika Serikat
10.	<i>Improving Elementary School Students Critical Thinking Skill in Science Through Hots-Based Science Questuins; A Quasi-Experimental study</i> (Sidiq et al., 2021)	Indonesia
11.	<i>The Impact Of Online Mentoring In Implementing RADEC Learning To The Elementary School Teachers</i>	Indonesia



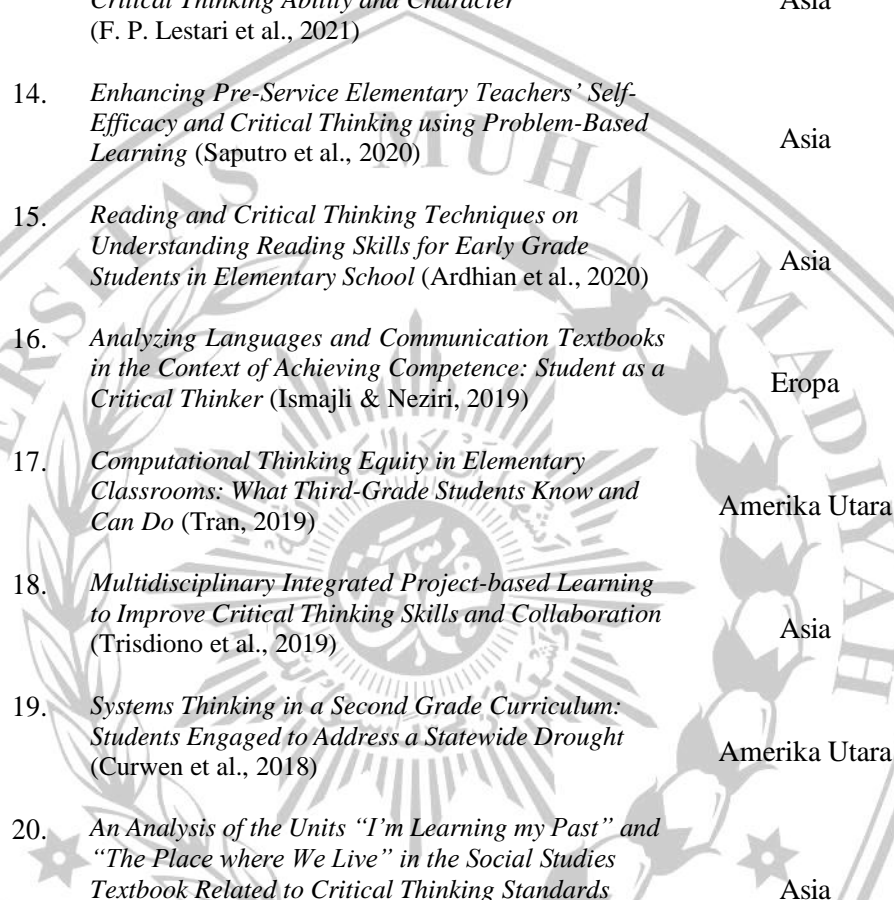
- Competence in Training Students Critical Thinking Skills: A Case Study During Covid-19 Pandemic* (H. Lestari et al., 2021)
12. *Implementing Inquiry Based Ethno-Constructivism learning module to Improve Students' Critical Thinking Skills and Attitudes Towards Cultural Values* (Syahrial et al., 2021) Indonesia
  13. *The Implementation of Mathematics Comic through Contextual Teaching and Learning to Improve Critical Thinking Ability and Character* (F. P. Lestari et al., 2021) Indonesia
  14. *Enhancing Pre-Service Elementary Teachers' Self-Efficacy and Critical Thinking using Problem-Based Learning* (Saputro et al., 2020) Indonesia
  15. *Reading and Critical Thinking Techniques on Understanding Reading Skills for Early Grade Students in Elementary School* (Ardhian et al., 2020) Indonesia
  16. *Analyzing Languages and Communication Textbooks in the Context of Achieving Competence: Student as a Critical Thinker* (Ismajli & Neziri, 2019) Albania
  17. *Computational Thinking Equity in Elementary Classrooms: What Third-Grade Students Know and Can Do* (Tran, 2019) Amerika Serikat
  18. *Multidisciplinary Integrated Project-based Learning to Improve Critical Thinking Skills and Collaboration* (Trisdiono et al., 2019) Indonesia
  19. *Systems Thinking in a Second Grade Curriculum: Students Engaged to Address a Statewide Drought* (Curwen et al., 2018) Amerika Serikat
  20. *An Analysis of the Units "I'm Learning my Past" and "The Place where We Live" in the Social Studies Textbook Related to Critical Thinking Standards* (AYBEK & ASLAN, 2016) Turki
  21. *Formation of Integrating Perceptions through Dual Treatments* (Kërënxhi, 2014) Albania
  22. *The impact of illustrations and warnings on solving mathematical word problem realistically* (Dewolf et al., 2014) Belgia
  23. *Planning Science Instruction for Critical Thinking: Two Urban Elementary Teachers' Responses to a State Science Assessment* (Mangiante, 2013) Amerika Serikat
  24. *The Effect of Critical Thinking Instruction on Verbal Descriptions of Music* (Daniel C. Johnson, 2011) Amerika Serikat

25.	<i>The Effect of "Bilingualism" on Iranian ELT Student's "Critical thinking ability" (CT) (Merrikhi, 2011)</i>	Iran
26.	<i>Faculty-Librarian Collaboration to Teach Research Skills: Electronic Symbiosis (Bhavnagri &amp; Bielat, 2005)</i>	Amerika Serikat

## d. Kolaborasi Penulis

Tabel 3.4. Kolaborasi penulis

No.	Judul	Asal Benua
1.	<i>Examining the Influence of TASC Model Implementation in Instruction of Mathematics to Develop Cognitive Skills of Learners (Alzahrani, 2023)</i>	Asia
2.	<i>Elementary students' engagement in transduction and creative and critical thinking (Pantaleo, 2023)</i>	Amerika Utara
3.	<i>Social Construction of Technology: An Experience for Development of Critical- thinking and Nature of Science and Technology (Ortega-Quevedo et al., 2023)</i>	Eropa
4.	<i>Critical and creative thinking in teaching probability in the early years of elementary school (de Carvalho et al., 2023)</i>	Amerika Selatan
5.	<i>The Effectiveness of Hybrid Learning-Based Adaptive Media to Empower Student's Critical Thinking Skills: Is It Really for VARK Learning Style? (Sulistyanto et al., 2023)</i>	Asia
6.	<i>Media and Information Literacy As Critical Pedagogy? Case Study of The Sarajevo Hasaan Kikic Elementary School (Silajdžić et al., 2022)</i>	Eropa
7.	<i>The Effect of a Training Program Based on Mathematical Problem-Solving Strategies on Critical Thinking Among Seventh-Grade Students (Alfayez et al., 2022)</i>	Asia
8.	<i>Critical thinking among fourth grade elementary school students: A gender perspective (Kawuryan et al., 2022)</i>	Asia
9.	<i>Fake News and the "Wild Wide Web": A Study of Elementary Students' Reliability Reasoning (Pilgrim &amp; Vasinda, 2021)</i>	Amerika Utara
10.	<i>Improving Elementary School Students Critical Thinking Skill in Science Through Hots-Based Science Questuins; A Quasi-Experimental study (Sidiq et al., 2021)</i>	Asia

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11. *The Impact Of Online Mentoring In Implementing RADEC Learning To The Elementary School Teachers Competence in Training Students Critical Thinking Skills: A Case Study During Covid-19 Pandemic* (H. Lestari et al., 2021) Asia
12. *Implementing Inquiry Based Ethno-Constructivism learning module to Improve Students' Critical Thinking Skills and Attitudes Towards Cultural Values* (Syahrial et al., 2021) Asia
13. *The Implementation of Mathematics Comic through Contextual Teaching and Learning to Improve Critical Thinking Ability and Character* (F. P. Lestari et al., 2021) Asia
14. *Enhancing Pre-Service Elementary Teachers' Self-Efficacy and Critical Thinking using Problem-Based Learning* (Saputro et al., 2020) Asia
15. *Reading and Critical Thinking Techniques on Understanding Reading Skills for Early Grade Students in Elementary School* (Ardhian et al., 2020) Asia
16. *Analyzing Languages and Communication Textbooks in the Context of Achieving Competence: Student as a Critical Thinker* (Ismajli & Neziri, 2019) Eropa
17. *Computational Thinking Equity in Elementary Classrooms: What Third-Grade Students Know and Can Do* (Tran, 2019) Amerika Utara
18. *Multidisciplinary Integrated Project-based Learning to Improve Critical Thinking Skills and Collaboration* (Trisdiono et al., 2019) Asia
19. *Systems Thinking in a Second Grade Curriculum: Students Engaged to Address a Statewide Drought* (Curwen et al., 2018) Amerika Utara
20. *An Analysis of the Units "I'm Learning my Past" and "The Place where We Live" in the Social Studies Textbook Related to Critical Thinking Standards* (AYBEK & ASLAN, 2016) Asia
21. *Formation of Integrating Perceptions through Dual Treatments* (Kërënxhi, 2014) Eropa
22. *The impact of illustrations and warnings on solving mathematical word problem realistically* (Dewolf et al., 2014) Eropa
23. *Planning Science Instruction for Critical Thinking: Two Urban Elementary Teachers' Responses to a State Science Assessment* (Mangiante, 2013) Amerika Utara
24. *The Effect of Critical Thinking Instruction on Verbal* Amerika Utara

*Descriptions of Music* (Daniel C. Johnson, 2011)

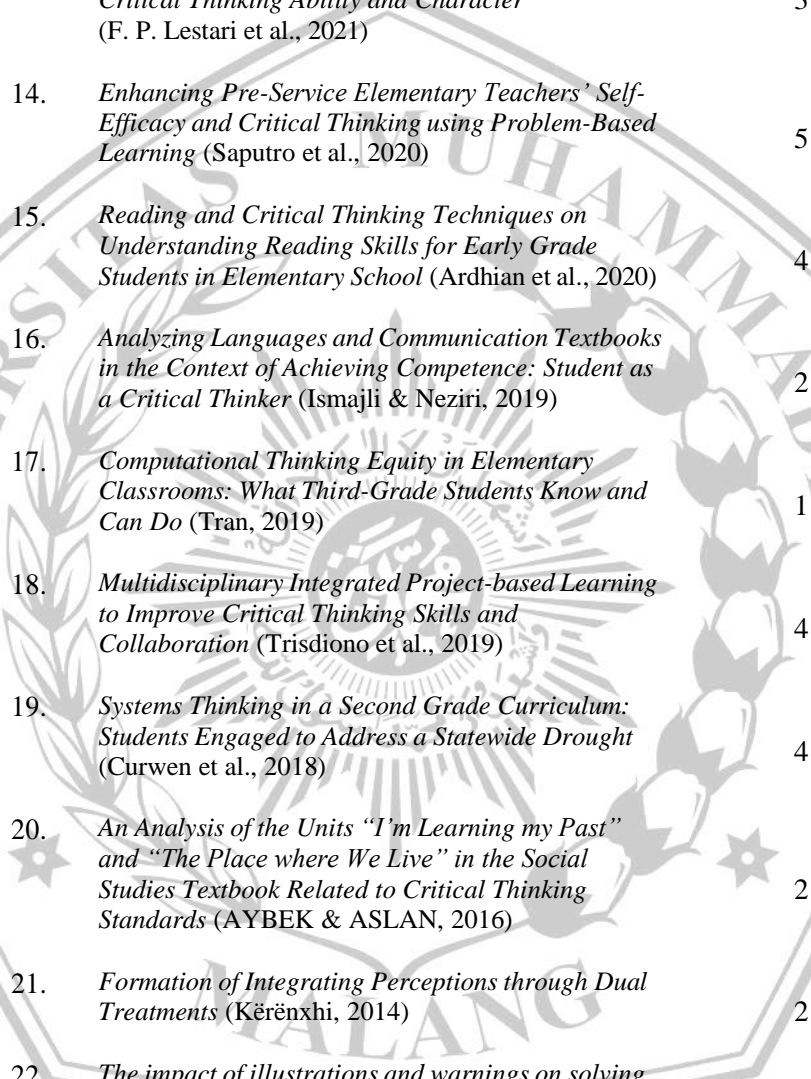
25. *The Effect of "Bilingualism" on Iranian ELT Student's "Critical thinking ability" (CT)* (Merrikhi, 2011) Asia

26. *Faculty-Librarian Collaboration to Teach Research Skills: Electronic Symbiosis* (Bhavnagri & Bielat, 2005) Amerika Utara

e. Jumlah Penulis dalam Publikasi

**Tabel 3.5. Jumlah penulis dalam publikasi**

No.	Judul	Jumlah Penulis
1.	<i>Examining the Influence of TASC Model Implementation in Instruction of Mathematics to Develop Cognitive Skills of Learners</i> (Alzahrani, 2023)	1
2.	<i>Elementary students' engagement in transduction and creative and critical thinking</i> (Pantaleo, 2023)	1
3.	<i>Social Construction of Technology: An Experience for Development of Critical- thinking and Nature of Science and Technology</i> (Ortega-Quevedo et al., 2023)	3
4.	<i>Critical and creative thinking in teaching probability in the early years of elementary school</i> (de Carvalho et al., 2023)	3
5.	<i>The Effectiveness of Hybrid Learning-Based Adaptive Media to Empower Student's Critical Thinking Skills: Is It Really for VARK Learning Style?</i> (Sulistyanto et al., 2023)	5
6.	<i>Media and Information Literacy As Critical Pedagogy? Case Study of The Sarajevo Hasaan Kikic Elementary School</i> (Silajdžić et al., 2022)	3
7.	<i>The Effect of a Training Program Based on Mathematical Problem-Solving Strategies on Critical Thinking Among Seventh-Grade Students</i> (Alfayez et al., 2022)	3
8.	<i>Critical thinking among fourth grade elementary school students: A gender perspective</i> (Kawuryan et al., 2022)	3
9.	<i>Fake News and the "Wild Wide Web": A Study of Elementary Students' Reliability Reasoning</i> (Pilgrim & Vasinda, 2021)	2
10.	<i>Improving Elementary School Students Critical Thinking Skill in Science Through Hots-Based Science Questuins; A Quasi-Experimental study</i> (Sidiq et al., 2021)	6

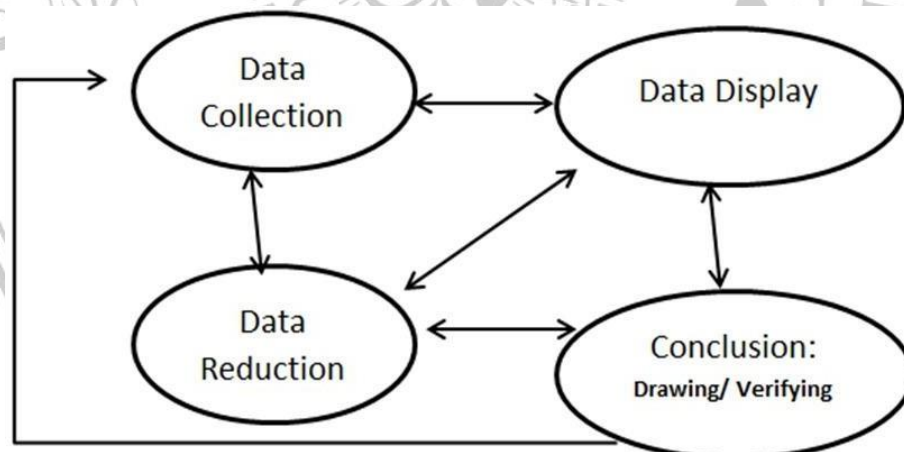
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11. *The Impact Of Online Mentoring In Implementing RADEC Learning To The Elementary School Teachers Competence in Training Students Critical Thinking Skills: A Case Study During Covid-19 Pandemic* (H. Lestari et al., 2021) 6
12. *Implementing Inquiry Based Ethno-Constructivism learning module to Improve Students' Critical Thinking Skills and Attitudes Towards Cultural Values* (Syahril et al., 2021) 5
13. *The Implementation of Mathematics Comic through Contextual Teaching and Learning to Improve Critical Thinking Ability and Character* (F. P. Lestari et al., 2021) 3
14. *Enhancing Pre-Service Elementary Teachers' Self-Efficacy and Critical Thinking using Problem-Based Learning* (Saputro et al., 2020) 5
15. *Reading and Critical Thinking Techniques on Understanding Reading Skills for Early Grade Students in Elementary School* (Ardhian et al., 2020) 4
16. *Analyzing Languages and Communication Textbooks in the Context of Achieving Competence: Student as a Critical Thinker* (Ismajli & Neziri, 2019) 2
17. *Computational Thinking Equity in Elementary Classrooms: What Third-Grade Students Know and Can Do* (Tran, 2019) 1
18. *Multidisciplinary Integrated Project-based Learning to Improve Critical Thinking Skills and Collaboration* (Trisdiono et al., 2019) 4
19. *Systems Thinking in a Second Grade Curriculum: Students Engaged to Address a Statewide Drought* (Curwen et al., 2018) 4
20. *An Analysis of the Units "I'm Learning my Past" and "The Place where We Live" in the Social Studies Textbook Related to Critical Thinking Standards* (AYBEK & ASLAN, 2016) 2
21. *Formation of Integrating Perceptions through Dual Treatments* (Kërënxhi, 2014) 2
22. *The impact of illustrations and warnings on solving mathematical word problem reaktivistically* (Dewolf et al., 2014) 4
23. *Planning Science Instruction for Critical Thinking: Two Urban Elementary Teachers' Responses to a State Science Assessment* (Mangiante, 2013) 1
24. *The Effect of Critical Thinking Instruction on Verbal* 1

*Descriptions of Music* (Daniel C.Johnson, 2011)

- |     |   |   |
|-----|---|---|
| 25. | <i>The Effect of "Bilingualism" on Iranian ELT Student's "Critical thinking ability" (CT)</i><br>(Merrikhi, 2011)   | 1 |
| 26. | <i>Faculty-Librarian Collaboration to Teach Research Skills: Electronic Symbiosis</i><br>(Bhavnagri & Bielat, 2005) | 2 |
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## F. Analisis Data

Analisis data adalah proses menyusun, mengkategorikan, dan menemukan pola atau tema dalam data untuk mengetahui maknanya. Analisis data adalah proses mengklasifikasikan dan mengelompokkan kumpulan data. Analisis data dalam penelitian kualitatif adalah proses pengambilan dan pengumpulan data yang sistematis dikumpulkan atau diperoleh dari catatan lapangan, wawancara, serta sumber lainnya, sehingga hasilnya lebih mudah untuk dipahami, serta temuannya dapat diinformasikan kepada orang lain. Menurut perspektif ini, analisis dilakukan dalam tiga alur kerja: reduksi data, penyajian data, dan penarikan Kesimpulan (Miles & Huberman, 1994).



Gambar 3.1. Gambar bagan tahap analisis data

### 1. Pengumpulan Data

Pengumpulan data dengan menggunakan model PRISMA

## 2. Reduksi Data

Penyederhanaan data menjadi kategori-kategori (seperti distribusi tahun, dll.) dikenal sebagai reduksi data. Gambaran yang lebih jelas dan pengumpulan data yang lebih mudah diperoleh melalui penggunaan reduksi data.

## 3. Penyajian Data

Penyajian data adalah proses yang mempermudah peneliti dalam menemukan data yang lebih jelas dan informatif. Pada tahap ini, peneliti menyajikan data dalam bentuk penjelasan singkat yang terdiri dari kalimat-kalimat sederhana.

Peneliti menggunakan deskriptif dengan bantuan perangkat lunak VOS-viewer. Langkah-langkah yang harus diikuti untuk pencarian perangkat lunak VOS-Viewer adalah sebagai berikut:

- a. Masuk ke Aplikasi VOS-viewer
- b. Input RIS Scopus di aplikasi
- c. Memilih Keyword pencarian
- d. Memperoleh bagan hasil Aplikasi

## 4. Penarikan Kesimpulan

Penarikan kesimpulan adalah tahap paling akhir. Menurut (Miles & Huberman, 1994), penarikan kesimpulan adalah sebagian dari suatu kegiatan dan susunan yang tetap utuh. Saat penelitian disampaikan pada tahap penyajian data, Kesimpulan dari penelitian kualitatif memungkinkan untuk menemukan solusi untuk masalah yang telah dirumuskan pada awalnya serta untuk mendapatkan jawaban yang didukung oleh hasil penelitian.

## G. Prosedur Penelitian

### 1. Persiapan

Peneliti menggunakan sistematik diagram dengan alur pencarian pertama di database Scopus dengan kata kunci "*critical thinking AND elementary students*" 622 artikel ditemukan pada awal pencarian. Setelah dilakukan penyaringan artikel pada kategori "social sciences", ditemukan 421 artikel. Kemudian menggunakan kriteria artikel, diperoleh 322 artikel. Sebanyak 99 artikel hasil conference paper, book chapter, book, conference review, review, note. Selanjutnya, kami menggunakan artikel berbahasa inggris, diperoleh sebanyak 304. 18 artikel yang menggunakan bahasa Spanish, Chinese, Portuguese, dan Slovenian dihilangkan. Selanjutnya kami mengambil artikel dengan keyword "critical thinking" dan "elementary students" serta menghilangkan kata kunci "*Critical thinking skills, Students, Elementary Education, Elementary School, Teaching, Mathematics, Learning, Creative Thinking, Elementary Schools, Education, Computational Thinking, Teaching/Learning, Social Studies, Elementary School Students, Education, E-learning, Collaborative Learning, Thinking Skills, Teaching/Learning Strategy, Teacher Education, Social Justice, Reading Comprehension, Problem-based Learning, Motivation, Literacy, Learning systems, Interactive Learning Environments, Gender, Equity, Engineering Education, Elementary Science, Curriculum, Computer Aided Instruction, Cognition, Argumentation, Technology Integration, Teaching Practices, Systems Thinking, Science Learning, Professional Development, Problem Solving, Multimodality, Learning Achievement, Instruction, Inquiry,*



*Environmental Education, Elementary, Digital Literacy, Decision Making, Curricula, Computer Science, Comprehension, Collaboration, Children's Literature, Assessment, Visual Literacy, Virtual Reality, United States, Teaching And Learning, Teachers, Student, Scientific Inquiry, Science, Reading, Primary Education, Pre-service Teachers, Peer Learning, Multimedia, Metacognition, Mathematics education, Learning Motivation, Improving Classroom Teaching, Human, Higher Education, Gifted Education, Elementary Teacher Preparation, Early Childhood Education, Creativity, Computational Thinkings, Communication, Child, Case Study, Augmented Reality, Attitudes, Article, Social Sciences, Service Learning, Scientific Literacy, Science Teaching, Science Teacher Education, Science Education, Science Comics, School Education, School Buildings, STEM Education, Robotics, Robot Programming, Reflective Thinking, Reflection, Reasoning, Quality Of Education, Qualitative Research, Problem-Based Learning, Primary School, Preservice Elementary Teachers, Physical Education, Performance Assessment, Peer Interactions, Pedagogy, Pedagogical Issues, Nature Of Science, Multiple Representations, Mobile Learning, Middle School, Mexico, Mapping, Male, Learning Style, Learning Performance, Leadership, Instrument Development, Information Literacy, Humans, History, HOTS, Graphic Novels, Giftedness, Gifted, Geometry, Flipped Classroom, Female, Experimental Groups, Evolution, English Learners, Empathy, Elementary Teachers, Elementary Student, Elementary Science Education, Elementary School Teacher, Elementary Math, ElementaryLevel, Elementary Grades, Educational Technology, Educational*

*Robotics, Education Program, Education Computing, Dual Threatment, Differentiation, Critical Pedagogy, Critical Literacy, Conceptual Understanding, Education Computing, Dual Treatment, Differentiation, Critical Pedagogy, Critical Literacy, Conceptual Understanding, Cognitive Skills, Archive, Applications In Subject Areas, Active Learning, 21st-century Ability, 21st-century Abilities, 21st Century Skills*". Sebanyak 226 artikel dihilangkan. Lalu dibatasi Jurnal, diperoleh 77 jurnal. Setelah itu menggunakan filter open akses artikel, hasilnya menunjukkan bahwa 26 artikel yang memenuhi kriteria. Hal ini menunjukkan terdapat artikel yang diexclude.

## 2. Pelaksanaan

Menganalisis artikel yang memenuhi kriteria dengan menggunakan pedoman analisis yang sudah disediakan.

## H. Pengecekan Keabsahan Data

Dalam Penelitian ini penggunaan perangkat lunak VOS-viewer untuk pengecekan keabsahan data membuat data lebih jelas, menarik, dan komunikatif. VOS-viewer ini adalah aplikasi yang dikembangkan oleh Pusat Studi Sains dan Teknologi (CWTS) Universitas Leiden. Aplikasi ini dapat melakukan data, visualisasi dan teknik. Melalui VOS-viewer, peneliti dapat memvisualisasi jaringan bibliometrik. Jaringan bibliometrik ini dapat mencakup publikasi seperti jurnal, peneliti, atau individu. Mereka dapat dibangun berdasar hubungan antar tulisan, kutipan bersama, visualisasi bibliografi, atau kutipan.