Bibliometrics Analysis in Articles of Bullying in Children

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ABSTRACT

Research on child bullying is a topic that is mostly carried out by researchers which is shown in bibliometric result using the Publish or Perish application and VOSviewer. Bibliometric analysis using data from Scopus, Google Scholar and Crossref produced 1,400 articles on child abuse from 2017 to 2022. The article entitled "Bullying in schools: the state of knowledge and effective interventions" written by E Menesini, C Salmivalli was published in the journal Psychology, health & medicine is the article with the highest number of citations, namely 542 citations. Bibliometrics using VOSviewer shows three main topics regarding child bullying, namely victims of bullying, students and relationships. Child abuse is divided into 6 clusters with cluster 1 consisting of 84 links and 45 items, cluster 2 consisting of 121 links and 28 items, cluster 3 consisting of 59 links and 27 items, cluster 4 consisting of 80 links and 16 items, cluster 5 consisting of 50 links and 13 items, and cluster 6 consisting of 50 links and 2 items. The result from bibliometrics can be used to analyze research on child bullying by emphasizing preventive programs, handling victims of bullying and positive interactions between students.

Keywords: bibliometric analysis, bullying, children

INTRODUCTION

Bullying is a repeated negative action that aims to hurt another person where the action is carried out by one or more people who have dominance of power that is carried out by one or more people (Gómez Tabares & Landinez-Martínez, 2021; Goryl et al., 2013). Bullying according to the Centers for Disease Control and Prevention (CDC) is aggressive behavior that cannot be accepted by a person because of differences in strength between individuals and tends to occur repeatedly (Kennedy, 2020).

Negative actions are carried out in the form of physical contact, words, spreading rumors, ostracizing others in the group or by expressing facial and body movements(Olweus, 2003). Physical bullying is more common followed by verbal and relational bullying and boys are more likely to be involved in physical and verbal bullying than girls (Qiu et al., 2021).

Bullying has a short, long and medium term impact both academically such as a decrease in math performance(Mahriza et al., 2020), as well as non-academic namely mental and psychological health(Ayu Suciartini & Unix Sumartini, 2019) even to extreme actions such as suicide(Haslan et al., 2021). The serious impact on bullying events requires preventive efforts to prevent bullying in schools, both in the form of a long-term

anti-bullying effect (OBPP) program(Olweus et al., 2020) and detection of bullying by identifying the predictors of perpetrators and victims through interviews and questionnaires. given to parents, teachers and students(Natesan et al., 2018) as well as questions to identify the role of students in bullying on the Bullying Participant Behaviors Questionnaire (BPBQ) instrument(Demaray et al., 2016).

Bullying is a global problem experienced by children, especially in their interactions at school(Vlachou et al., 2011)therefore conducting research on bullying is important, especially in exploring novelty in their research. Efforts to carry out novelty in bullying research can be done by using bibliometric studies. Research searches about bullying use the Publish or Perish application and are visualized in VosViewer. Bullying analysis data was taken from Scopus, Crossref and Google Scholar data by tracing research about bullying in children.

Bibliometrics using VOSviewer to explore research on bullying that has been carried out, namely verbal bullying and Cyberbullying(Barragán Martín et al., 2021; Kurniasih et al., 2020). The bibliometric study in this article will explore research about child bullying using the Publish or Perish and VosViewer applications. Publish or Perish analyzed various studies on child bullying using 3 metadata, namely Scopus, Google Scholar and Crossref which were carried out on mapping on VOSviewer.

METHOD
Bibliometrics uses the Publish or Perish application with the keyword bullying on children. The method used is descriptive quantitative which explores research on bullying in children. Bibliometric analysis by taking data based on Scopus, Crossref and Goggle Scholar. Research topics regarding bullying began in 2017-2022 and were traced to 200 Scopus articles, 1000 Crossref articles and 200 Google Scholar articles. Journal publication data

obtained through the Publish or Perish application is stored in a database with .RIS format for further visualization in the VosViewer application so that visualization forms related to the renewal of research topics regarding child abuse can be generated.

RESULTS AND DISCUSSION
Based on metadata searches obtained from keyword searches on the Publish or Perish application using the keywords bullying in children from Scopus, Google Scholar and Crossref. A search through the Publish or Perish application using the keyword bullying in children found 200 articles sourced from Scopus, with the highest number of citations, namely 348 citations with the article title "Screening for obesity in children and adolescents us preventive services task force recommendation statement" written by DC Grossman was published in the journal JAMA - Journal of the American Medical Association in 2017.

Articles sourced from Crossref obtained 1000 articles with the highest number of citations, namely 68 citations with the article title "Examining the Effectiveness of School-Bullying Intervention Programs Globally: a Meta-analysis" written by Hannah Gaffney, David P. Farrington, Maria M. Ttofi published in the journal International Journal of Bullying Prevention in 2019.

Articles sourced from google scholar obtained 200 articles with the highest number of citations, namely 542 citations with the article title "Bullying in schools: the state of knowledge and effective interventions" written by E Menesini, C Salmivalli published in the journal Psychology, health & medicine in 2017.

The results of the bilbiometrics with the keywords child abuse were divided into 6 clusters as follows:
1. **Cluster 1 (Red) with 84 links and 45 items namely**
anxiety, bullied child, bully victim, bullying, involvement, bullying perpetration, bullying prevention program,

bullying role, bullying victimization, cross sectional study, cyber bullying, depression, effectiveness, empathy, gender difference, increase, intervention program, involvement, life satisfaction, meta-analysis, moderating role, moral disengagement, pain, parenting style, perpetration, physical bullying, primary school, primary school child, protective factor, quality, relational aggression, relational bullying, relationship, sample, school aged child, school aged children, school context, self-efficacy, self-harm, sibling, stress, symptom, systematic review, theory, traditional bullying, younger child.

Cluster 1 shows that bullying is closely related to the impact that occurs on children, such as the emergence of a sense of anxiety, depression, stress and other impacts. Victims of bullying experience short-term and long-term impacts, while the severe impacts that occur due to non-verbal bullying can affect the mental and psychological health of the victim (Nyoman et al., 2018).
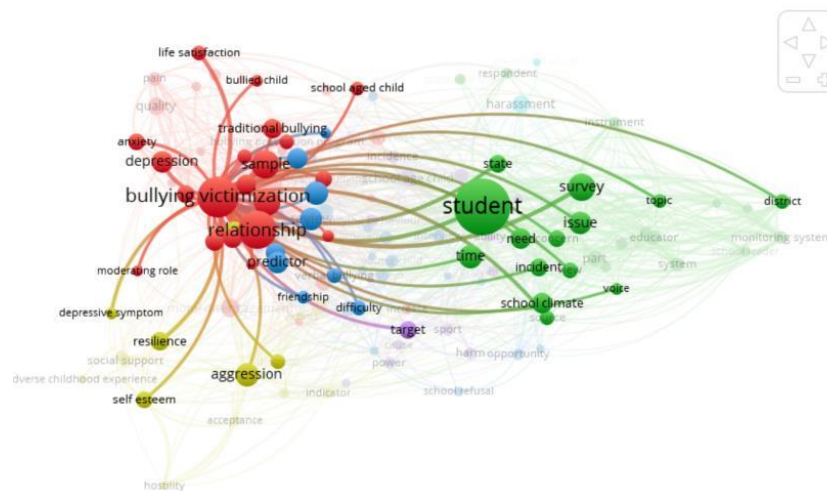

Figure 1. Cluster 1 Visualization

1.

The visualization in cluster 1 shows the interconnectedness of the nets, which indicates that research with the keyword child bullying has many links to other articles and refers to the big theme, namely victims of bullying.

2. Cluster 2 (green) with 121 links and 28 items namely aspect, concern, culture, district, educator, incident, instance, instrument, issue, monitoring system, need, part, respondent, safety, school climate, school leader, school violence, solution, source, state, student, substance use, survey, system, time, topic, view, voice.
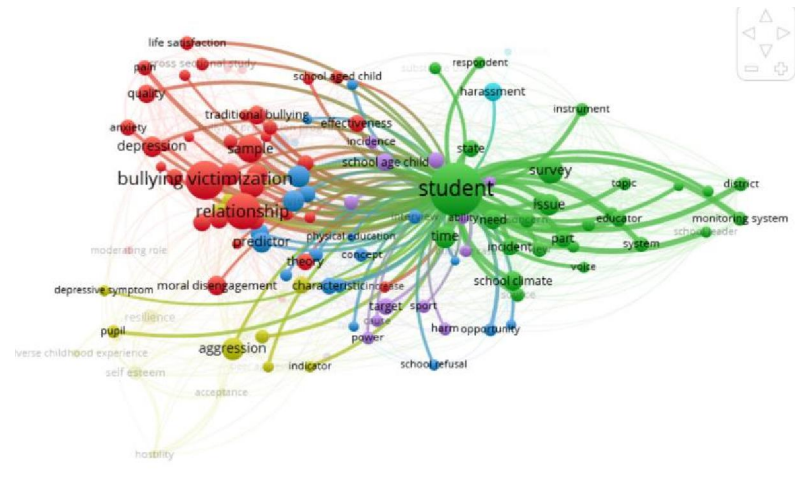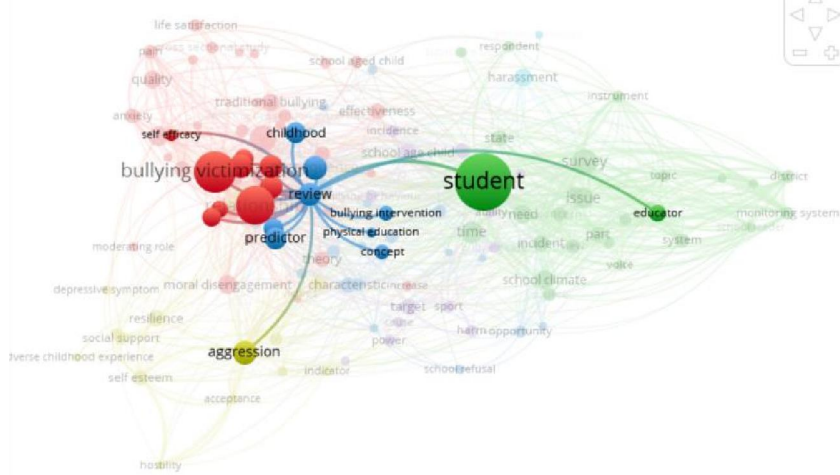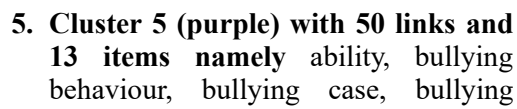
Figure 2. Cluster 2 Visualization

Visualization of cluster 2 above shows that bullying that occurs in children at school can be prevented by changing school culture and increasing awareness regarding bullying behavior. This can be done with a preventive program to intervene in things that have the potential to become bullying behavior. One form of intervention that can be done is intervention to observers(Rawlings & Stoddard, 2019).

3. **Cluster 3 (blue) with 59 links and 27 items namely** bullying intervention, characteristic, childhood, childhood bullying, concept, consequence, difficulty, early childhood, feeling, friendship, interview, majority, opportunity, peer victimization, physical activity, physical education, predictor, preschool child, reason, review, risk factor, school refusal, school setting, severity, verbal bullying, victimication, young child

4. **Cluster 4 (yellow) with 80 links and 16 items namely** acceptance, adverse childhood experience, aggression, attitude, bullying victimication, depressive symptom, distress, exposure, hostility, indicator, peer aggression, pupil, resilience, self-esteem, social support, victims.

5. **Cluster 5 (purple) with 50 links and 13 items namely** ability, bullying behaviour, bullying case, bullying research, cause, elementary school, harm, implementation, incidence, power, school age child, sport, target.

Figure 5. Cluster 5 Visualization

6. Cluster 6 (light blue) with 50 links and 2 items namely emotional abuse dan harassment.
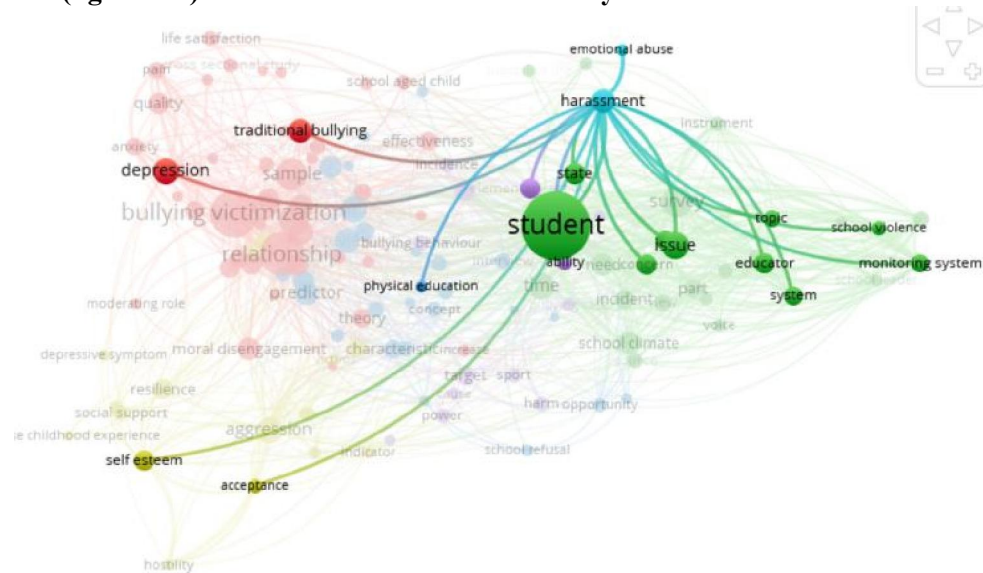

Figure 6. Cluster 6 Visualization

The visualization of the analysis using VOSviewer by using the child bullying keyword as a whole is shown as follows:
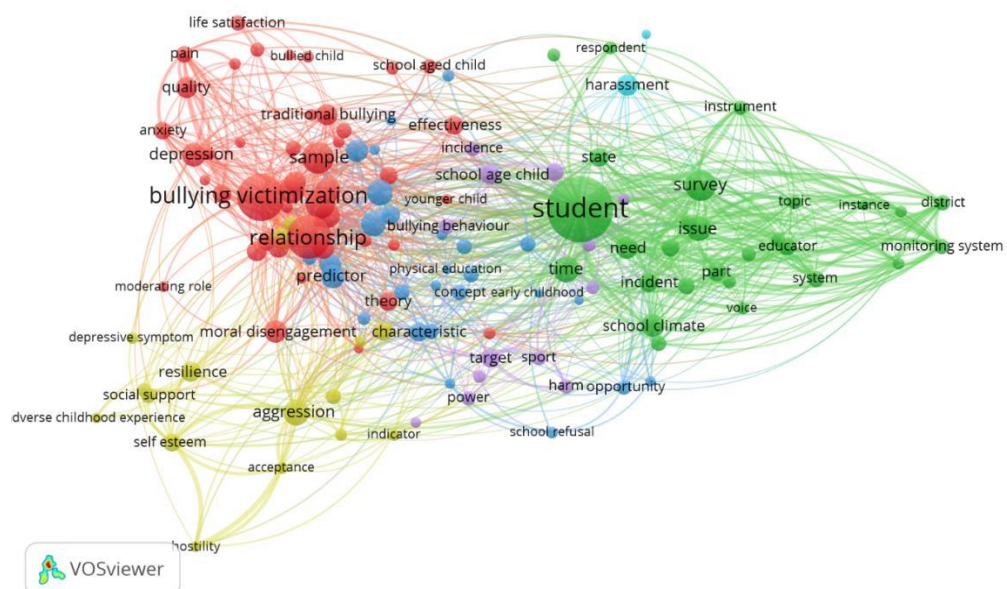

Figure 7. Network Visualization

Figure 7, network visualization shows that many researches have been done with the theme of victims of bullying with red networks, students with green networks.

The red network with the largest bubble, namely victims of bullying, is connected to relationships between students, depression, anxiety, traditional bullying,

students at school, children who experience bullying and life satisfaction. Meanwhile, in the green network with the

largest bubble, students are connected to need, time, incident, state, school climate, issue, monitoring system, educator

Figure 8. Overlay Visualization

Figure 9. Density Visualization

Figure 8 on Overlay Visualization, 2018 research focuses on student themes and the latest in 2019 is self-esteem.**Figure 9,**Density visualization, three main themes

that are often researched on child bullying are victims of bullying, students and relationships.

From the visualization, it was found

that the research that had been carried out discuss many themes regarding bullying in children, but it can be seen that there were three main points that became the research themes, namely victims of bullying, students and also the relationship between the roles of bullying behavior. This shows that at present these themes are themes that are being studied a lot related to bullying.

The bibliometric analysis was continued by summarizing the articles with the highest citations in Scopus, Google Schoolar and Crossref as follows:

Table 1. Most Cited Article on Scopus

No	Cites	Author	Title	Year	Publisher
1	205	E. Menesini	Bullying in schools: the state of knowledge and effective interventions(Menesini & Salmivalli, 2017)	2017	Psychology, Health and Medicine
2	181	S.J. Pont	Stigma experienced by children and adolescents with obesity (Pont et al., 2017)	2017	Pediatrics
3	170	C.D. Bethell	Methods to Assess Adverse Childhood Experiences of Children and Families: Toward Approaches to Promote Child Well-being in Policy and Practice (Bethell et al., 2017)	2017	Academic Pediatrics
4	148	C. Cha	Annual Research Review: Suicide among youth – epidemiology, (potential) etiology, and treatment (Bethell et al., 2017)	2018	Journal of Child Psychology and Psychiatry and Allied Disciplines
5	144	H. Turner	Effects of Poly-Victimization on Adolescent Social Support, Self-Concept, and Psychological Distress (Turner et al., 2017)	2017	Journal of Interpersonal Violence
6	137	J. Mersky	Rethinking the Measurement of Adversity: Moving Toward Second-Generation Research on Adverse Childhood Experiences (Mersky et al., 2017)	2017	Child Maltreatment
7	125	I. Zych	Protective factors against bullying and cyberbullying: A systematic review of meta-analyses (Zych et al., 2019)	2019	Aggression and Violent Behavior
8	118	L. Arseneault	Annual Research Review: The persistent and pervasive impact of being bullied in childhood and adolescence: implications for policy and practice (Arseneault, 2018)	2018	Journal of Child Psychology and Psychiatry and Allied Disciplines
9	113	A. John	Self-harm, suicidal	2018	Journal of Medical

			behaviours, and cyberbullying in children and young people: Systematic review (Arseneault, 2018)		Internet Research
10	101	T. Matthews	Lonely young adults in modern Britain: Findings from an epidemiological cohort study (Arseneault, 2018)	2019	Psychological Medicine

Table 1 shows the data on the most cited articles on the Scopus page related to the keyword bullying in children, namely the article written by E. Menesini with the title Bullying in schools: the state of knowledge and effective interventions . written in 2017 published in the journal Psychology, Health and Medicine with a total of 205 citations. The citation is connected to the Vosviewer application which can finally display a visualization as in the previous image.

Table 2. Most Cited Article On Google Scholar

No	Cites	Author	Title	Year	Publisher
1	542	E Menesini, C Salmivalli	Bullying in schools: the state of knowledge and effective interventions (Menesini & Salmivalli, 2017)	2017	Psychology, health & medicine
2	520	SE Moore, RE Norman, S Suetani	Consequences of bullying victimization in childhood and adolescence: A systematic review and meta-analysis (Matthews et al., 2019)	2017	World journal
3	317	PK Smith, D Thompson	Practical approaches to bullying (Moore et al., 2017)	2017	Taylor&Francis
4	283	H Gaffney, MM Ttofi, DP Farrington	Evaluating the effectiveness of school-bullying prevention programs: An updated meta-analytical review (Smith & Thompson, 2017)	2019	Aggression and violent behavior
5	258	A John, AC Glendenning, A Marchant	Self-harm, suicidal behaviours, and cyberbullying in children and young people: Systematic review (John et al., 2018)	2018	Journal of Medical Internet Research
6	232	I Zych, DP Farrington, MM Ttofi	Protective factors against bullying and cyberbullying: A systematic review of meta-analyses (Zych et al., 2019)	2019	Aggression and violent behavior
7	215	NB Webb	Social work practice with children (Jackson et al., 2010)	2018	Guilford
8	208	L Arseneault	Annual Research Review: The persistent and pervasive impact of being bullied in childhood and adolescence: implications for policy and practice (Arseneault, 2018)	2018	Journal of child psychology and psychiatry

| 9 | 208 | M van Geel, A Goemans, F Toprak, P Vedder | Which personality traits are related to traditional bullying and cyberbullying? A study with the Big Five, Dark Triad and sadism (van Geel et al., 2017) | 2017 | Personality and individual |
| 10 | 205 | AA Volk, R Veenstra, DL Espelage | So you want to study bullying? Recommendations to enhance the validity, transparency, and compatibility of bullying research (Volk et al., 2017) | 2017 | Aggression and violent behavior |

Table 2 displays data on the most cited articles on the Google Scholar page using the keyword child bullying in the search column, namely articles written by E. Menesini with the title Bullying in schools: the state of knowledge and effective interventions written in 2017 published in the journal Psychology, Health and Medicine with a total of 524 citations.

Table 3. Most Cited Article On Crossref

No	Cites	Author	Title	Year	Publisher
1	68	Hannah Gaffney, David P. Farrington, Maria M. Ttofi	Examining the Effectiveness of School-Bullying Intervention Programs Globally: a Meta-analysis (Gaffney et al., 2019)	2019	International Journal of Bullying Prevention
2	52	Rebecca Ford, Tania King, Naomi Priest, Anne Kavanagh	Bullying and mental health and suicidal behaviour among 14- to 15-year-olds in a representative sample of Australian children (Ford et al., 2017)	2017	Australian & New Zealand Journal of Psychiatry
3	40	Jonathan Bradshaw, Gemma Crous, Gwyther Rees, Nick Turner	Comparing children's experiences of schools-based bullying across countries (Bradshaw et al., 2017)	2017	Children and Youth Services Review
4	31	Dorothy L. Espelage, Alberto Valido, Tyler Hatchel, Katherine M. Ingram, Yuanhong Huang, CagilTorgal	A literature review of protective factors associated with homophobic bullying and its consequences among children & adolescents (Espelage et al., 2019)	2019	Aggression and Violent Behavior
5	28	IzabelaZych, David P. Farrington, Vicente J. Llorent, Maria M. Ttofi	Protecting Children Against Bullying and Its Consequences (Zych et al., 2017)	2017	SpringerBriefs in Psychology
6	26	KristelCampaert, AnnalauraNocentini, ErsiliaMenesini	The efficacy of teachers' responses to incidents of bullying and victimization: The mediational role of moral disengagement for	2017	Aggressive Behavior

			bullying (Campaert et al., 2017)		
7	24	Andrew T Fong, Constance H Katelaris, BrynnWainstein	Bullying and quality of life in children and adolescents with food allergy (Fong et al., 2017)	2017	Journal of Paediatrics and Child Health
8	23	Ling Li, Xu Chen, Hui Li	Bullying victimization, school belonging, academic engagement and achievement in adolescents in rural China: A serial mediation model (L. Li et al., 2020)	2020	Children and Youth Services Review
9	22	Sujung Cho, Jeoung Min Lee	Explaining physical, verbal, and social bullying among bullies, victims of bullying, and bully-victims: Assessing the integrated approach between social control and lifestyles-routine activities theories (Cho & Lee, 2018)	2018	Children and Youth Services Review
10	22	Jiameng Li, AissataMahamadou Sidibe, XiaoyunShen, Therese Hesketh	Incidence, risk factors and psychosomatic symptoms for traditional bullying and cyberbullying in Chinese adolescents (J. Li et al., 2019)	2019	Children and Youth Services Review

Table 3shows the data for the most cited articles on the Crossref page using the keyword bullying in children. The article that was widely cited was the article written by Hannah Gaffney, David P. Farrington, Maria M. Ttofi with the title Examining the Effectiveness of School-Bullying Intervention Programs Globally: a Meta-analysis written in 2019 published in the journal International Journal of Bullying Prevention with a total of 68 citations.

CONCLUSION

A search using data from Scopus, Google Scholar and Crossref found 1,400 research articles on child bullying. The research article "Bullying in schools: the state of knowledge and effective interventions" written by E Menesini, C Salmivalli published in the journal Psychology, Health & Medicine receive the most citations with 542 citations. This shows that bullying at school gets high attention from researchers because bullying often occurs when children are at school. Based on the visualization of VOSviewer, victims of bullying, students and the interaction relationship with the largest bubble where these three topics/themes have been intensely researched so that the emphasis on victims of bullying that occurs to students is very important.

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