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The Effects of Gain and Loss Message Framing in Climate Change News Headlines on Urban Citizens' News Believability, Risk Perception, Behavioral Intentions to Mitigate Climate Change, and Support for Government Policies  
TASHA DIAN FEBRINA, Ir. Hilya Mudrika Arini, S.T., M.Sc., M.Phil., Ph.D., IPM., ASEAN Eng.  
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## BIBLIOGRAPHY

- Ajzen, I., 1985, From Intentions to Actions: A Theory of Planned Behavior. *Action Control*.
- Armbruster, S. T., Manchanda, R. V., and Vo, N., 2022, When Are Loss Frames More Effective in Climate Change Communication? An Application of Fear Appeal Theory. *Sustainability (Switzerland)*, Vol.14, No.12.,
- Bappenas, 2020, *THE NATIONAL MEDIUM-TERM DEVELOPMENT PLAN FOR 2020-2024*.
- BNPB, 2024, Statistik Bencana Menurut Jenis. Retrieved July 25, 2024, from <https://dibi.bnrb.go.id/kbencana2>
- Broude, T., and Henckels, C., 2021, Not all rights are created equal: A loss-gain frame of investor rights and human rights. *Leiden Journal of International Law*, Vol.34, No.1, pp.93–108.
- IPCC, 2023: *Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, H. Lee and J. Romero (eds.)]*. IPCC, Geneva, Switzerland. (P. Arias, M. Bustamante, I. Elgizouli, G. Flato, M. Howden, C. Méndez-Vallejo, J. J. Pereira, R. Pichs-Madruga, S. K. Rose, Y. Saheb, R. Sánchez Rodríguez, D. Ürge-Vorsatz, C. Xiao, N. Yassa, J. Romero, J. Kim, E. F. Haites, Y. Jung, R. Stavins, A. Birt, et al., Eds.).
- Cappelli, F., Costantini, V., and Consoli, D., 2021, The trap of climate change-induced “natural” disasters and inequality. *Global Environmental Change*, Vol.70, .
- Carleton, T. A., and Hsiang, S. M., 2016, September 9, Social and economic impacts of climate. *Science*. American Association for the Advancement of Science.
- Chen, Y., Conroy, N. J., and Rubin, V. L., 2015, Misleading online content: Recognizing clickbait as “false news.” *WMDD 2015 - Proceedings of the*



- ACM Workshop on Multimodal Deception Detection, co-located with ICMI 2015* (pp. 15–19). Association for Computing Machinery, Inc.
- Choi, S. I., Zhang, J., and Jin, Y., 2023, The effects of threat type and gain–loss framing on publics’ responses to strategic environmental risk communication. *Corporate Communications*, Vol.28, No.3, pp.363–380.
- Clarke, B., Otto, F., Stuart-Smith, R., and Harrington, L., 2022, Extreme weather impacts of climate change: an attribution perspective. *Environmental Research: Climate*, Vol.1, No.1, pp.012001.
- de Graaf, J. A., Stok, F. M., de Wit, J. B. F., and Bal, M., 2023, The climate change skepticism questionnaire: Validation of a measure to assess doubts regarding climate change. *Journal of Environmental Psychology*, Vol.89, .
- Dembedza, V. P., Chopera, P., Mapara, J., and Macheka, L., 2022, December 1, Impact of climate change-induced natural disasters on intangible cultural heritage related to food: a review. *Journal of Ethnic Foods*. BioMed Central Ltd.
- Djalante, R., Jupesta, J., and Aldrian, E., 2021, *Springer Climate*. Retrieved from <http://www.springer.com/series/11741>
- Dor, D., 2003, *On newspaper headlines as relevance optimizers*. Retrieved from [www.elsevier.com/locate/pragma](http://www.elsevier.com/locate/pragma)
- Esen, E., Taştan, S., and Degercan, N., 2021, The Impact of Perceived Corporate Reputation of Sport Clubs on Social Media Usage: a Study with the Lenses of Social Capital. *Postmodern Openings*, Vol.12, No.3, pp.350–383.
- Frondel, M., Simora, M., and Sommer, S., 2017, Risk Perception of Climate Change: Empirical Evidence for Germany. *Ecological Economics*, Vol.137, pp.173–183.
- Gantiva, C., Jiménez-Leal, W., and Urriago-Rayó, J., 2021a, Framing Messages to Deal With the COVID-19 Crisis: The Role of Loss/Gain Frames and Content. *Frontiers in Psychology*, Vol.12, .



- Gantiva, C., Jiménez-Leal, W., and Urriago-Rayó, J., 2021b, Framing Messages to Deal With the COVID-19 Crisis: The Role of Loss/Gain Frames and Content. *Frontiers in Psychology*, Vol.12, .
- Hart, P. S., 2011, One or many? The influence of episodic and thematic climate change frames on policy preferences and individual behavior change. *Science Communication*, Vol.33, No.1, pp.28–51.
- Hoornweg, D., Sugar, L., and Gómez, C. L. T., 2018, Cities and greenhouse gas emissions: Moving forward. *Planning for Climate Change: A Reader in Green Infrastructure and Sustainable Design for Resilient Cities* (pp. 62–71). Taylor and Francis.
- Houston, J. B., Schraedley, M. K., Worley, M. E., Reed, K., and Saidi, J., 2019, Disaster journalism: fostering citizen and community disaster mitigation, preparedness, response, recovery, and resilience across the disaster cycle. *Disasters*, Vol.43, No.3, pp.591–611.
- IEA, 2022, *An Energy Sector Roadmap to Net Zero Emissions in Indonesia*. Retrieved from <https://www.iea.org/reports/an-energy-sector-roadmap-to-net-zero-emissions-in-indonesia>
- Ifantidou, E., 2009, Newspaper headlines and relevance: Ad hoc concepts in ad hoc contexts. *Journal of Pragmatics*, Vol.41, No.4, pp.699–720.
- Intergovernmental Panel on Climate Change (IPCC), 2023, Annex VII: Glossary. *Climate Change 2021 – The Physical Science Basis* (pp. 2215–2256). Cambridge University Press.
- Jin, E., and Atkinson, L., 2021, The Moderating Role of Emotion: The Combinatory Effects of Positive Emotion and News Framing Techniques on Climate Change Attitudes. *Journalism and Mass Communication Quarterly*, Vol.98, No.3, pp.749–768.
- Jun, J., Wen, T. J., and Wu, L., 2021, The Effects of Self vs. Group Affirmation and Message Framing on College Students' Vape-Free Campus Policy Support. *Health Communication*, Vol.36, No.11, pp.1441–1451.



- Kahneman, D., and Tversky, A., 2000, Choices, values, and frames. *Choices, Values, and Frames* (pp. 1–16). Cambridge University Press.
- Kemp, L., Xu, C., Depledge, J., Ebi, K. L., Gibbins, G., Kohler, T. A., Rockstrom, J., Scheffer, M., Schellnhuber, H. J., Steffen, W., and Lenton, T. M., 2022, May 1, Climate Endgame: Exploring catastrophic climate change scenarios. *PNAS*. John Wiley and Sons Inc.
- Kim, T. K., in press. *KOREAN JANESTHESIOL*. Retrieved from <http://ekja.org>
- Kim, Y., Collier, J., and Stroud, N. J., 2021, The Effectiveness of Gain and Loss Frames in News Subscription Appeals. *Digital Journalism*, Vol.9, No.3, pp.300–318.
- Kusmanoff, A. M., Fidler, F., Gordon, A., Garrard, G. E., and Bekessy, S. A., 2020, Five lessons to guide more effective biodiversity conservation message framing. *Conservation Biology*, Vol.34, No.5, pp.1131–1141.
- Lee, B. G., Liu, J., Choung, H., and McLeod, D. M., 2021, Exploring Numerical Framing Effects: The Interaction Effects of Gain/Loss Frames and Numerical Presentation Formats on Message Comprehension, Emotion, and Perceived Issue Seriousness. *Journalism and Mass Communication Quarterly*, Vol.98, No.2, pp.387–406.
- Leiserowitz, A., 2006, Climate change risk perception and policy preferences: The role of affect, imagery, and values. *Climatic Change* (Vol. 77, pp. 45–72).
- McComas, K. A., Schuldt, J. P., Burge, C. A., and Roh, S., 2015, Communicating about marine disease: The effects of message frames on policy support. *Marine Policy*, Vol.57, pp.45–52.
- Ministry of National Development Planning/Bappenas, 2021, *A GREEN ECONOMY FOR A NET-ZERO FUTURE: How Indonesia can build back better after COVID-19 with the Low Carbon Development Initiative (LCDI)*.
- Mo, Z., Li, X., Zhai, Y., Men, Y., Tang, Y., Qiao, J., Jia, X., Huang, Y., and Wang, B., 2023, Reliability and validity of a questionnaire measuring



knowledge, attitude and practice regarding “oil, salt and sugar” among canteen staff. *Scientific Reports*, Vol.13, No.1.,

Monteiro, B. A., and Bressan, A. A., 2021, Framing effects of information on investment risk perception. *Revista Contabilidade e Financas*, Vol.32, No.86, pp.285–300.

Mulcahy, R., Riedel, A., Beatson, A., Keating, B., and Mathews, S., 2024, I'm a believer! Believability of social media marketing. *International Journal of Information Management*, Vol.75, .

Mulyana, W., 2014, *Rural-Urban Linkages: Indonesia Case Study*. Retrieved from [www.rimisp.org](http://www.rimisp.org)

Nan, X., Daily, K., and Qin, Y., 2018, October 2, Relative persuasiveness of gain-vs. loss-framed messages: A review of theoretical perspectives and developing an integrative framework. *Review of Communication*. Routledge.

Ngo, C. C., Poortvliet, P. M., and Klerkx, L., 2022, The persuasiveness of gain vs. loss framed messages on farmers' perceptions and decisions to climate change: A case study in coastal communities of Vietnam. *Climate Risk Management*, Vol.35, .

PDSI Pusdatinkom BNPB, 2024, *Data Bencana Indonesia 2023*. Retrieved from <https://bnpb.go.id/buku/buku-data-bencana-indonesia-tahun-2023>

Pengnate, S. F., Chen, J., and Young, A., 2021, Effects of Clickbait Headlines on User Responses: An Empirical Investigation. *Journal of International Technology and Information Management*, Vol.30, No.3, pp.1–18.

Qi, A., Ji, Z., Gong, Y., Yang, B., and Sun, Y., 2022, The Impact of the Gain-Loss Frame on College Students' Willingness to Participate in the Individual Low-Carbon Behavior Rewarding System (ILBRS): The Mediating Role of Environmental Risk Perception. *International Journal of Environmental Research and Public Health*, Vol.19, No.17.,



- Ropret Homar, A., and Knežević Cvelbar, L., 2021, May 1, The effects of framing on environmental decisions: A systematic literature review. *Ecological Economics*. Elsevier B.V.
- Rosemary, R., Syam, H. M., and Sartika, M., 2023, Framing Disaster Coverage of Earthquakes and Tsunamis on Online Media. *International Journal of Disaster Management*, Vol.6, No.2, pp.141–152.
- Russell, S. V., and Ashkanasy, N. M., 2021, Pulling on heartstrings: Three studies of the effectiveness of emotionally framed communication to encourage workplace pro-environmental behavior. *Sustainability (Switzerland)*, Vol.13, No.18.,
- Tversky, A., and Kahneman, D., 1981, *The Framing of Decisions and the Psychology of Choice*. Retrieved from <http://science.sciencemag.org/>
- van Dijk, T. A., 1988, News As A Discourse. *LAWRENCE ERLBAUM ASSOCIATES, PUBLISHERS*.
- Van't Riet, J., D. Cox, A., Cox, D., D. Zimet, G., De Bruijn, G.-J., Van den Putte, B., De Vries, H., Werrij, M. Q., and Ruiter, R. A. C., 2016, Does Perceived Risk Influence the Effects of Message Framing? Revisiting the Link Between Prospect Theory and Message Framing, pp.447–459.
- Wicks, R. H., 2005, Message Framing and Constructing Meaning: An Emerging Paradigm in Mass Communication Research. *Annals of the International Communication Association*, Vol.29, No.1, pp.335–362.
- Wolske, K. S., and Stern, P. C., 2018, Contributions of psychology to limiting climate change. *Psychology and Climate Change: Human Perceptions, Impacts, and Responses* (pp. 127–160). Elsevier.
- Zobeidi, T., Yazdanpanah, M., Warner, L. A., Lamm, A., Löhr, K., and Sieber, S., 2023, Personal and Professional Mitigation Behavioral Intentions of Agricultural Experts to Address Climate Change. *Environmental Management*, Vol.72, No.2, pp.396–409.