

Iman Dianat

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EXPERIENCE

2009-Present	Professor in Occupational Health & Ergonomics, Tabriz University of Medical Sciences, Tabriz, Iran
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Iman Dianat is a Professor and academic member of the Occupational Health & Ergonomics Department in Tabriz University of Medical Sciences and holds a PhD in Ergonomics from the University of Nottingham. His research focuses on health and performance (physical and cognitive), workplace design, work physiology, anthropometry, inclusive design, product design, usability, work psychology and workplace safety. He has conducted and supervised over 50 research projects.

2002-2004	Lecturer in Department of Occupational Health, Kerman University of Medical Sciences, Kerman, Iran
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EDUCATION

2005–2009	PhD in Human Factors / Ergonomics, School of Mechanical, Material and Manufacturing Engineering, University of Nottingham, UK Thesis title: Evaluating Effects of Protective Gloves on Hand and Comfort in Industrial Assembly Work
1999-2001	MSc in Occupational Health, Faculty of Health, Iran University of Medical Sciences, Iran Dissertation: Manual Material Handling and Musculoskeletal Symptoms among Material Handler Workers in a Shipping Port in Southwest Iran
1995-1998	BSc in Occupational Health, Faculty of Health, Isfahan University of Medical Sciences, Iran Final year project: Evaluation of Noise Level in an Iranian Metal Work Industry

RESEARCH MANAGEMENT EXPERIENCE

2015-Present	PhD supervisor for the Tabriz University of Medical Sciences
2010-Present	Supervision of Master dissertations in the Tabriz university of medical sciences
2009-2014	Annual supervision of undergraduate students during their final year projects

TEACHING EXPERIENCE

- 2020-Present** Working as a full-time Professor in the Tabriz University of Medical Sciences Tabriz, Iran, teaching postgraduate students:
- MSc courses taught: Assessment Methods in Ergonomics; Ergonomics in Design; Participatory Ergonomics; Cognitive Ergonomics; Anthropometry; Work Physiology; Inclusive Design
 - PhD course taught: Evaluation of Human Work; Ergonomics in Design; Anthropometry; Design of Experimental Studies; Inclusive Design
- 2015-2020** Working as a full-time Associate Professor in the Tabriz University of Medical Sciences, Tabriz, Iran, teaching postgraduate students:
- MSc courses taught: Assessment Methods in Ergonomics; Ergonomics in Design; Participatory Ergonomics; Cognitive Ergonomics; Anthropometry; Work Physiology; Inclusive Design
 - PhD course taught: Evaluation of Human Work; Ergonomics in Design; Anthropometry; Design of Experiments; Inclusive Design
- 2009-2014** Working as a full-time Assistant professor in the Tabriz University of Medical Sciences, Tabriz, Iran, teaching undergraduate and postgraduate students:
- BSc courses taught: Principles of Occupational Health & Safety; Safety at Work; Human Factors/Ergonomics; Risk Assessment; Thermal Conditions of Working Places
 - MSc courses taught: Assessment Methods in Ergonomics; Ergonomics in Design; Participatory Ergonomics; Cognitive Ergonomics; Anthropometry; Work Physiology; Inclusive Design
- 2002-2004** Working as a Lecturer in the Kerman University of Medical Sciences, Kerman, Iran, teaching undergraduate students:
- BSc courses taught: Safety at Work, Human Factors/Ergonomics, Occupational Accidents, Environmental Conditions of Working Places

FUNDING AND AWARDS

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- 2010-2024** Research grants awarded by the Vice Chancellor for Research of the Tabriz University of Medical Sciences and different industries for conducting 35 research projects
- 2005-2008** PhD scholarship awarded by Iranian Ministry of Health and Medical Education (ranked 2nd among more than 250 applicants in the national entrance exam for PhD admissions), covered three years of tuition fees and four years living expenses and traveling costs for my PhD at the University of Nottingham, UK
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ACTIVITIES AND ACHIEVEMENTS

2023	Research vice-chancellor of Faculty of Health, Tabriz University of Medical Sciences in 2023
2020	Distinguished researcher award, awarded by the Tabriz University of Medical Sciences in 2020
2016	Award for distinguished teaching, awarded by the Tabriz University of Medical Sciences in 2016
2016	Keynote speaker in the 2nd International Iranian Ergonomics Conference in 2016, Shiraz, Iran
2015	Distinguished researcher award, awarded by the Tabriz University of Medical Sciences in 2015
2015	Award for distinguished teaching, awarded by the Tabriz University of Medical Sciences in 2015
2012-Present	Editorial Board Member, Journal of Ergonomics (In Persian)
2010-Present	Refereeing for journals (including Ergonomics, Applied Ergonomics, Human Factors, Journal of Occupational Health, Work, Health Promotion Perspectives)
2010-Present	Running workshops on the occupational health and safety and ergonomic related issues (over 400 hours) in different organisations/industries
2010-Present	Associate Editor, Health Promotion Perspectives (HPP) Journal

PUBLICATIONS (H-INDEX = 37)

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- Mohebbi, V., Dianat, I. and Castellucci, H.I., 2023. Psychometric properties of the Iranian version of the wheelchair seating discomfort assessment tool (WcS-DAT)– section II: a revised two-dimensional structure of comfort and discomfort to improve inclusive design practice. *Disability and Rehabilitation: Assistive Technology*. DOI: [org/10.1080/17483107.2023.2176556](https://doi.org/10.1080/17483107.2023.2176556).
 - Bravo, G., Castellucci, H.I., Lavallière, M., Campos, A., Martínez, M. and Dianat, I., 2024. Ageing and performance in professional bus driving–A case study from Chile. *Safety Science*, 174, p.106480.
 - Nourollahi-Darabad, M., Mojaddam, M., Dianat, I. and Afshari, D., 2024. Biomechanical and physiological responses to allowable load handling limits in Iranian female workers. *Human Factors and Ergonomics in Manufacturing & Service Industries*, 34(1), pp.31–39.
 - Ahmadi Charkhabi, S., Motamedzade, M., Dianat, I., Mortazavi, S.M. and Faradmal, J., 2023. Investigation of the multi-component ergonomics intervention effects on improving musculoskeletal outcomes and speech communication: A case study in open-plan offices. *Work*, 76(1), pp.275–288.
 - Maleki-Ghahfarokhi, A., Azghani, M.R., Asghari-Jafarabadi, M. and Dianat, I., 2023. Effects of tool grip span, workpiece orientation, moving direction, and working height on two-handed torque strength and subjective measures. *Work*, 74 (4), pp. 1539–1549.
 - Bazazan, A., Noman, Y., Norouzi, H., Maleki-Ghahfarokhi, A., Sarbakhsh, P. and Dianat, I., 2023. Physical and psychological job demands and fatigue experience among offshore workers. *Heliyon*, 9 (6).
 - Maleki-Ghahfarokhi, A., Dianat, I., Azghani, M.R., Asghari-Jafarabadi, M. and Parnianpour, M., 2023. T-shaped handle set-up: effects of handle diameter, between-handle distance, workpiece orientation, working height, and exertion direction on two-

handed torque strength, usability, comfort, and discomfort. *Ergonomics*, 66 (7), pp. 1015–1030.

- Adelirad, F., Salimi, M.M., Dianat, I., Asghari-Jafarabadi, M., Chattu, V.K. and Allahverdipour, H., 2022. The relationship between cognitive status and retained activity participation among community-dwelling older adults. *European Journal of Investigation in Health, Psychology and Education*, 12 (4), pp. 400–416.
- Papi, S., Allahverdipour, H., Jahan, A., Dianat, I., Jafarabadi, M. and Salimi, M., 2022. The effect of transcranial photobiomodulation on cognitive function and attentional performance of older women with mild cognitive impairment: a randomized controlled trial. *Menopause Review/Przegląd Menopauzalny*, 21 (3). pp. 157-164.
- Papi, S., Salimi, M., Behboodi, L., Dianat, I., Jafarabadi, M. and Allahverdipour, H., 2022. Cognitive and balance performance of older adult women during COVID-19 pandemic quarantine: an ex post facto study. *Menopause Review/Przegląd Menopauzalny*, 21 (2), pp. 117-123.
- Laybidi, M.I., Rasoulzadeh, Y., Dianat, I., Samavati, M., Jafarabadi, M.A. and Nazari, M.A., 2022. Cognitive performance and electroencephalographic variations in air traffic controllers under various mental workload and time of day. *Physiology & Behavior*, 252, pp.113842.
- Azemi, S., Dianat, I., Abdollahzade, F., Bazazan, A. and Afshari, D., 2022. Work-related stress, self-efficacy and mental health of hospital nurses. *Work*, 72 (3), pp.1007-1014.
- Abouee-Mehrizi, A., Saed-Moucheshi, S., Dianat, I., 2022. Review of anthropometric considerations for agricultural equipment design: a systematic review. *Int J Sys Assur Eng Manag*. 13, pp. 571–581.
- Maleki-Ghahfarokhi, A., Azghani, M.R., Dianat, I., 2022. Effects of handle characteristics of manual hand tools on maximal torque exertions: A literature review. *Int J Occup Saf Ergon*. 28 (3), pp.1387-1402.
- Mahdavi, N., Faradmal, J., Dianat, I., Heidaramoghadam, R., Khotanlou, H., 2022. Investigation of Hand Muscle Fatigue and Its Influential Factors in Manual tasks. *Int J Occup Safety Ergon*. 28 (3), pp. 1911–1923.
- Bravo, G., Viviani, C.A., Lavallière, M., Arezes, P.M., Martínez, M., Dianat, I., Bragança, S., Castellucci, H.I., 2021. Do older workers suffer more workplace injuries? A Systematic Review. *Int J Occup Safety Ergon*. 28 (1), pp. 398-427.
- Allahverdipour, H., Dianat, I., Mameh, G., Asghari-Jafarabadi, M., 2021. Effects of cognitive and physical loads on dynamic and static balance performance of healthy older adults under single-, dual-, and multi-task conditions. *Hum Factors*, 63(7), pp. 1133-1140.
- Dianat, I., Azemi, S., Abdollahzade, F., Bazazan, A., Jafarabadi, M.A., 2021. Does self-efficacy mediate the relationship between occupational stress and mental health problems? A study among nursing professionals. *Health Promot Perspect*, 11(3), pp.344.
- Dianat, I., Asadi, B., Castellucci, H.I., 2021. Mismatch between jar opening demands and wrist torque strength of consumers in Iran. *Appl Ergon*, 94, pp.103421.
- Rezapur-Shahkolai, F., Gheysvandi, E., Karimi-Shahanjarini, A., Tapak, L., Heidaramoghadam, R., Dianat, I., 2021. Identification of factors related to behaviors associated with musculoskeletal pain among elementary students. *BMC Musculoskeletal Disorders*, 22(1), pp.1-12.
- Mahmoudi, D., Nazari, S., Ignacio Castellucci, H., Dianat, I., 2021. Perception of just culture and its association with work-related psychosocial factors in an Iranian industrial setting: Implications for prevention of errors. *Work*, 68, pp.1179–1186.

- Viviani, C.A., Bravo, G., Lavallière, M., Arezes, P.M., Martínez, M., Dianat, I., Bragança, S., Castellucci, H.I., 2021. Productivity in older versus younger workers: A systematic literature review. *Work*, 68, pp.577–618.
- Bakhtiari, N., Dianat, I., Nedaei, M., 2021. Electromyographic evaluation of different handle shapes of masons' trowels. *Int J Occup Saf Ergon*, 27(1), pp.106–111.
- Mahdavi, N., Dianat, I., Heidarimoghadam, R., Khotanlou, H., Faradmal, J., 2020. A review of work environment risk factors influencing muscle fatigue. *Int J Ind Ergon*, 80, pp.103028.
- Nourollahi-Darabad, M., Afshari, D., Dianat, I., Jodakinia, L., 2020. Long-duration assessment of upper arm posture and motion and their association with perceived symptoms among bakery workers. *Int J Ind Ergon*, 80, pp.103029.
- Jiskani, I.M., Han, S., Shahani, N.M., Ali, M., Dianat, I., Chalgri, S.R., 2020. Evaluation of physical and environmental working conditions of underground coal mines within the framework of ergonomics. *Int J Mining Mineral Engin*, 11(3), pp.240-256.
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- Rezapur-Shahkolai, F., Gheysvandi, E., Tapak, L., Dianat, I., Karimi-Shahanjarini, A. and Heidarimoghadam, R., 2020. Risk factors for low back pain among elementary school students in western Iran using penalized logistic regression. *Epidemiol Health*, 42, pp.e2020039.
- Castellucci, H., Viviani, C., Arezes, P., Molenbroek, J.F., Martínez, M., Aparici, V., Dianat, I., 2020. Applied anthropometry for common industrial settings design: Working and ideal manual handling heights. *Int J Ind Ergon*, 78, pp.102963.
- Karimi, A., Dianat, I., Barkhordari, A., Yusefzade, I., Rohani-Rasaf, M., 2020. A multicomponent ergonomic intervention involving individual and organisational changes for improving musculoskeletal outcomes and exposure risks among dairy workers. *Appl Ergon*, 88, pp.103159.
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- Dianat, I., Afshari, D., Sarmasti, N., Sangdeh, M.S., Azaddel, R., 2020. Work posture, working conditions and musculoskeletal outcomes in agricultural workers. *Int J Ind Ergon*, 77, pp.102941.
- Heidari- Moghadam, R., Morteza pour, A., Mosaferchi, S., Dianat, I., 2019. Colour and ergonomics: On the selection of a “colour of the year”. *Color Res Appl*, 44(6), pp.1042–1044.
- Gheysvandi, E., Dianat, I., Heidarimoghadam, R., Tapak, L., Karimi-Shahanjarini, A., Rezapur-Shahkolai, F., 2019. Neck and shoulder pain among elementary school students: prevalence and its risk factors. *BMC Pub Health*, 19(1), pp.1-11.
- Dianat, I., Adeli, P., Jafarabadi, M.A., Karimi, M.A., 2019. User-centred web design, usability and user satisfaction: The case of online banking websites in Iran. *Appl Ergon*, 81, pp.102892.
- Maleki-Ghahfarokhi, A., Dianat, I., Feizi, H., Asghari-Jafarabadi, M., 2019. Influences of gender, hand dominance, and anthropometric characteristics on different types of pinch strength: A partial least squares (PLS) approach. *Appl Ergon*, 79, pp.9-16.
- Asghari, E., Dianat, I., Abdollahzadeh, F., Mohammadi, F., Asghari, P., Jafarabadi, M.A., Castellucci, H.I., 2019. Musculoskeletal pain in operating room nurses: associations with quality of work life, working posture, socio-demographic and job characteristics. *Int J Ind Ergon*, 72, pp.330-337.

- Feyzi, M., Navid, H., Dianat, I., 2019. Ergonomically based design of tractor control tools. *Int J Ind Ergon*, 72, pp.298-307.
- Bazazan, A., Dianat, I., Bahrampour, S., Talebian, A., Zandi, H., Sharafkhaneh, A., Maleki-Ghahfarokhi, A., 2019. Association of musculoskeletal disorders and workload with work schedule and job satisfaction among emergency nurses. *Int Emerg Nurs*, 44, pp.8-13.
- Dianat, I., Asadollahi, S., Nedaei, M., 2019. Evaluation of design alternatives for sewing scissors with respect to hand performance, discomfort and usability. *Int J Occup Safe Ergon*, 25(3), pp.386-393.
- Javanshir, E., Dianat, I., Asghari-Jafarabadi, M., 2019. Psychometric properties of the Iranian version of the Copenhagen Burnout Inventory. *Health Promot Perspect*, 9(2), pp.137.
- Dianat, I., Bakhtiari, N., Nedaei, M., Afshari, D., 2019. Ergonomic design and evaluation of masons' trowels for construction work. *Int J Hum Factors Ergon*, 6(1), pp.18-34.
- Bazazan, A., Dianat, I., Mombeini, Z., Aynehchi, A., Jafarabadi, M.A., 2019. Fatigue as a mediator of the relationship between quality of life and mental health problems in hospital nurses. *Accident Anal Prev*, 126, pp.31-36.
- Ahmadi, O., Dianat, I., 2019. Qualitative aspects of traffic noise in Tabriz city, Iran: effects, habituation, and possible improvements. *Int J Environ Sci Technol*, 16(4), pp.2009-2016.
- Bazazan, A., Rasoulzadeh, Y., Dianat, I., Safaiyan, A., Mombeini, Z., 2019. Occupational fatigue and mental health complaints among 8-hour shift workers of petrochemical industries in Iran. *Work*, 62(2), pp.309-317.
- Dianat, I., Molenbroek, J., Castellucci, H.I., 2018. A review of the methodology and applications of anthropometry in ergonomics and product design. *Ergonomics*, 61(12), pp.1696-1720.
- Bazazan, A., Dianat, I., Feizollahi, N., Mombeini, Z., Shirazi, A.M., Castellucci, H.I., 2019. Effect of a posture correction–based intervention on musculoskeletal symptoms and fatigue among control room operators. *Appl Ergon*, 76, pp.12-19.
- Asadollahi, S., Dianat, I., Nedaei, M., 2018. Ergonomic evaluation of four different handle shapes for sewing scissors. *Iran Occup Health*, 15(2), pp. 1–10.
- Alipour, A., Dianat, I., Halvani, G.H., Falah Zadeh, H., 2018. Individual and job factors affecting the exposure to occupational violence among health care workers in the hospitals in Yazd province in 2016. *Health Saf Work*, 8(2), pp.175-186.
- Dianat, I., Alipour, A. and Jafarabadi, M.A., 2018. Multigroup latent class model of musculoskeletal pain combinations in children/adolescents: identifying high-risk groups by gender and age. *J Headache Pain*, 19(1), pp.52.
- Bazazan, A., Dianat, I., Rastgoo, L., Zandi, H., 2018. Relationships between dimensions of fatigue and psychological distress among public hospital nurses. *Health Promot Perspect*, 8(3), pp.195–199.
- Bazazan, A., Dianat, I., Rastgoo, L. and Mombeini, Z., 2018. Factors associated with mental health status of hospital nurses. *Int J Ind Ergon*, 66, pp.194-199.
- Nouroollahi, M., Afshari, D. and Dianat, I., 2018. Awkward trunk postures and their relationship with low back pain in hospital nurses. *Work*, 59(3), pp.317-323.
- Asghari Jafarabadi, M., Sadeghi-Bazrgani, H., Dianat, I., 2018. A critical appraisal of the reporting quality of published randomized controlled trials in the fall injuries. *Int J Inj Cont Saf Promot*, 25(2), pp.222-228.
- Dianat, I., Bazazan, A., Azad, M.A.S., Salimi, S.S., 2018. Work-related physical, psychosocial and individual factors associated with musculoskeletal symptoms among surgeons: Implications for ergonomic interventions. *Appl Ergon*, 67, pp.115-124.

- Viviani, C., Arezes, P.M., Braganca, S., Molenbroek, J., Dianat, I., Castellucci, H.I., 2018. Accuracy, precision and reliability in anthropometric surveys for ergonomics purposes in adult working populations: A literature review. *Int J Ind Ergon*, 65, pp.1-16.
- Dianat, I., Alipour, A., Asgari Jafarabadi, M., 2018. Risk factors for neck and shoulder pain among schoolchildren and adolescents. *J Paediat Child Health*, 54(1), pp.20–27.
- Dianat, I., Asadollahi, S., Nedaei, M., 2017. Ergonomic investigation of bent-handle fabric scissors. *Work*, 57(4), pp.529–534.
- Dianat, I., Alipour, A., Jafarabadi, M.A., 2017. Prevalence and risk factors of low back pain among school age children in Iran. *Health Promot Perspect*, 7(4), pp.223–229.
- Ghahramanian, A., Rezaei, T., Abdullahzadeh, F., Sheikhalipour, Z., Dianat, I., 2017. Quality of healthcare services and its relationship with patient safety culture and nurse-physician professional communication. *Health Promot Perspect*, 7(3), pp.168–174.
- Dianat, I., Rahimi, S., Nedaei, M., Jafarabadi, M.A., Oskouei, A.E., 2017. Effects of tool handle dimension and workpiece orientation and size on wrist ulnar/radial torque strength, usability and discomfort in a wrench task. *Appl Ergon*, 59, pp.422-430.
- Aminian, M., Dianat, I., Miri, A., Asghari-Jafarabadi, M., 2017. The Iranian version of the Copenhagen Psychosocial Questionnaire (COPSOQ) for assessment of psychological risk factors at work. *Health Promot Perspect*, 7(1), pp.7–13.
- Dianat, I., Adeli, P., Talebian, A.H., 2016. Ergonomic approaches and challenges in product design. *Iranian J Ergon*, 4(2), pp.8-16.
- Dianat, I., Karimi, M.A., 2016. Musculoskeletal symptoms among handicraft workers engaged in hand sewing tasks. *J Occup Health*, 58, pp.644–652.
- Abdollahzade, F., Mohammadi, F., Dianat, I., Asghari, E., Asghari-Jafarabadi, M., Sokhanvar, Z., 2016. Working posture and its predictors in hospital operating room nurses. *Health Promot Perspect*, 6(1), pp.17–22.
- Dianat, I., Vahedi, A., Dehnavi, S., 2016. Association between objective and subjective assessments of environmental ergonomic factors in manufacturing plants. *Int J Ind Ergon*, 54, pp.26-31.
- Dianat, I., Asadi, B., Jafarabadi, M.A., 2016. Wrist ulnar/radial torque strength measurements among Iranian population: the effects of age, gender, Body Mass Index and hand dominance. *Work*, 53(2), pp.279-284.
- Ghaffari, F., Rasoulzadeh, Y., Jafarabadi, M.A., Dianat, I., 2016. The variety and rate of human error in reception staff of clinical laboratories in Tehran and Tabriz in 2014. *Iran Occup Health*, 12(6), pp.28-38.
- Shakerkhatibi, M., Dianat, I., Jafarabadi, M.A., Azak, R., Kousha, A., 2015. Air pollution and hospital admissions for cardiorespiratory diseases in Iran: artificial neural network versus conditional logistic regression. *Int J Environ Sci Technol*, 12(11), pp.3433-3442.
- Rasoulzadeh, Y., Bazazan, A., Safaiyan, A., Dianat, I., 2015. Fatigue and psychological distress: a case study among shift workers of an Iranian petrochemical plant, during 2013, in Bushehr. *Iranian Red Cres Med J*, 17(10), pp.e28021.
- Dianat, I., Kord, M., Yahyazade, P., Karimi, M.A., Stedmon, A.W., 2015. Association of individual and work-related risk factors with musculoskeletal symptoms among Iranian sewing machine operators. *Appl Ergon*, 51, pp.180-188.
- Dianat, I., Feizi, H., Hasan-Khali, K., 2015. Pinch strengths in healthy Iranian children and young adult population. *Health Promot Perspect*, 5(1), pp.52–58.
- Dianat, I., Nedaei, M. and Nezami, M.A.M., 2015. The effects of tool handle shape on hand performance, usability and discomfort using masons' trowels. *Int J Ind Ergon*, 45, pp.13-20.

- Oskouei, A.E., Ferdosrad, N., Dianat, I., Jafarabadi, M.A., Nazari, J., 2014. Electromyographic activity of soleus and tibialis anterior muscles during ascending and descending stairs of different heights. *Health Promot Perspect*, 4(2), pp.173–179.
- Bazazan, A., Rasoulzadeh, Y., Dianat, I., Safaiyan, A., Mombeini, Z., Shiravand, E., 2014. Demographic factors and their relation to fatigue and mental disorders in 12-hour petrochemical shift workers. *Health Promot Perspect*, 4(2), pp.165–172.
- Ghaderi, E., Maleki, A., Dianat, I., 2014. Design of combine harvester seat based on anthropometric data of Iranian operators. *Int J Ind Ergon*, 44(6), pp.810-816.
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- Dianat, I., Haslegrave, C.M., Stedmon, A.W., 2014. Design options for improving protective gloves for industrial assembly work. *Appl Ergon*, 45(4), pp.1208-1217.
- Mosaferi, M., Dianat, I., Khatibi, M.S., Mansour, S.N., Fahiminia, M., Hashemi, A.A., 2014. Review of environmental aspects and waste management of stone cutting and fabrication industries. *J Mat Cycles Waste Manag*, 16(4), pp.721-730.
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