

# Sougata Karmakar

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

328  
citations

933447

10  
h-index

996975

15  
g-index

62  
all docs

62  
docs citations

62  
times ranked

187  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Application of digital human modeling and simulation for vision analysis of pilots in a jet aircraft: a case study. <i>Work</i> , 2012, 41, 3412-3418.  | 1.1 | 34        |
| 2  | Emotion and interior space design: an ergonomic perspective. <i>Work</i> , 2012, 41, 1072-1078.   | 1.1 | 23        |
| 3  | Usability is more valuable predictor than product personality for product choice in human-product physical interaction. <i>International Journal of Industrial Ergonomics</i> , 2014, 44, 697-705.  | 2.6 | 22        |
| 4  | Towards virtual ergonomics: aviation and aerospace. <i>Aircraft Engineering and Aerospace Technology</i> , 2015, 87, 266-273.   | 0.8 | 21        |
| 5  | Occupational ergonomics research and applied contextual design implementation for an industrial shop-floor workstation. <i>International Journal of Industrial Ergonomics</i> , 2019, 72, 188-198.  | 2.6 | 17        |
| 6  | Nanomaterials in the field of design ergonomics: present status. <i>Ergonomics</i> , 2012, 55, 1453-1462.   | 2.1 | 16        |
| 7  | Digital human modeling (DHM) for improving work environment for specially-abled and elderly. <i>SN Applied Sciences</i> , 2019, 1, 1.   | 2.9 | 16        |
| 8  | Motorcycle riding posture: A review. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 134, 390-399.   | 5.0 | 16        |
| 9  | Musculoskeletal ailments in Indian injection-molded plastic furniture manufacturing shop-floor: Mediating role of work shift duration. <i>International Journal of Industrial Ergonomics</i> , 2015, 48, 89-98.   | 2.6 | 14        |
| 10 | Determination of the key anthropometric and range of motion measurements for the ergonomic design of motorcycle. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 159, 107751.  | 5.0 | 10        |
| 11 | Cognitive Theories of Product Emotion and Their Applications in Emotional Product Design. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 329-340.  | 0.6 | 9         |
| 12 | Anthropometric Measurement and Comparative Analysis of Ethiopian Army Personnel Across Age, Ethnicity, and Nationality. <i>Defence Science Journal</i> , 2020, 70, 383-396.   | 0.8 | 9         |
| 13 | Statistical Interpretation of Collected Anthropometric Data of Agricultural Workers From Northeast India and Comparison With National and International Databases. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2016, 4, 197-210. | 0.4 | 8         |
| 14 | A Review of Eye Tracking Studies Related to Visual Aesthetic Experience: A Bottom-Up Approach. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 391-403.   | 0.6 | 8         |
| 15 | Perceived comfortable posture and optimum riding position of Indian male motorcyclists for short-duration riding of standard motorcycles. <i>International Journal of Industrial Ergonomics</i> , 2021, 83, 103135.   | 2.6 | 8         |
| 16 | Applications of DHM in Agricultural Engineering: A Review. <i>Advanced Engineering Forum</i> , 0, 10, 16-21.  | 0.3 | 7         |
| 17 | Ergonomics Perspective in Agricultural Research: A User-Centred Approach Using CAD and Digital Human Modeling (DHM) Technologies. <i>Journal of the Institution of Engineers (India): Series A</i> , 2016, 97, 333-342.                                     | 1.2 | 7         |
| 18 | Emerging OSH Issues in Installation and Maintenance of Floating Solar Photovoltaic Projects and Their Link with Sustainable Development Goals. <i>Risk Management and Healthcare Policy</i> , 2021, Volume 14, 1939-1957.                                   | 2.5 | 7         |

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|----|--|-----|-----------|
| 19 | Ergonomic Evaluations and Design Interventions for Shop-Floors Dealing with Chemical Conversion Coatings: Case Study from India. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 857-868.   | 0.6 | 7         |
| 20 | Eye Tracking Based Objective Evaluation of Visual Aesthetics: A Review. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 370-381.  | 0.6 | 6         |
| 21 | A Comprehensive Review of Work-Related Musculoskeletal Disorders in the Mining Sector and Scope for Ergonomics Design Interventions. <i>IISE Transactions on Occupational Ergonomics and Human Factors</i> , 2020, 8, 113-131.                         | 0.8 | 6         |
| 22 | Scope of Improvement in Assembly-line of FMCG Industries through Ergonomic Design. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 201-214.  | 0.6 | 6         |
| 23 | Product personality rating style for satisfaction of tactile need of online buyers &#x2014; A human factors issue in the context of e-retailers' web-design. , 2013, , .   |     | 5         |
| 24 | Assessment of transmissibility of hand-arm vibration, noise exposure, and shift in hearing threshold among handicraft operativesâ€™: a cross-sectional study. <i>Journal of Industrial and Production Engineering</i> , 2020, 37, 134-147.             | 3.1 | 4         |
| 25 | A Study Exploring the Facets of Visual Elements in Ethnic Products: Case Study of Sarees from West Bengal. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 821-831.   | 0.6 | 4         |
| 26 | Redesign of Work-Accessories Towards Minimizing Awkward Posture and Reduction of Work Cycle Elements in an Indian Shop-Floor Workstation. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 219-232.                                      | 0.6 | 3         |
| 27 | Positioning of the Mobile Phone to Minimize Driverâ€™s Biomechanical Effort During Navigation: DHM-Based Approach. <i>Journal of the Institution of Engineers (India): Series C</i> , 2020, 101, 867-880.  | 1.2 | 3         |
| 28 | Exploring the OSH Scenario in Floating Solar PV Projects in India and Opportunities for Ergonomics Design Interventions. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 245-255.  | 0.6 | 3         |
| 29 | Virtual Ergonomics Evaluation of a Design Concept of Manual Powered Portable Paddy Thresher Suitable for Hilly Region Agriculture. <i>Smart Innovation, Systems and Technologies</i> , 2017, , 503-512.  | 0.6 | 3         |
| 30 | Association Study between Lead and Zinc Accumulation at Different Physiological Systems of Cattle by Canonical Correlation and Canonical Correspondence Analyses. <i>AIP Conference Proceedings</i> , 2010, , .  | 0.4 | 2         |
| 31 | Proactive ergonomics through digital human modeling and simulation for product design innovation: A case study. , 2013, , .  |     | 2         |
| 32 | Exploring the association of ridersâ€™ physical attributes with comfortable riding posture and optimal riding position. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2022, 236, 185-207. | 1.9 | 2         |
| 33 | Role of Colour and Form in Product Choice and Variation of Preferences Across Product Categories: A Review. <i>Smart Innovation, Systems and Technologies</i> , 2015, , 631-640.   | 0.6 | 2         |
| 34 | Classification of Motorcycles and Prediction of Indian Motorcyclistâ€™s Posture at the Conceptual Design Stage. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 141-153.  | 0.4 | 2         |
| 35 | OSH Risk Perception of Safety Managers and Scope for Ergonomics Design Interventions in Floating Solar Photovoltaic Projects. <i>Lecture Notes in Networks and Systems</i> , 2022, , 871-880.  | 0.7 | 2         |
| 36 | Introduction to Ergonomics. <i>International Journal of Industrial Ergonomics</i> , 2014, 44, 892-893.   | 2.6 | 1         |

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|----|---|-----|-----------|
| 37 | Understanding the synthesis of anthropometric diversity and workspace dimensions in ergonomic design of light armored vehicle. <i>Human Factors and Ergonomics in Manufacturing</i> , 2021, 31, 447-468.                  | 2.7 | 1         |
| 38 | Socio-Demography, Working Conditions, and Musculoskeletal Ailments among Pineapple Farmers in Northeast India. <i>Journal of Agromedicine</i> , 2022, 27, 245-257.  | 1.5 | 1         |
| 39 | Driver Distraction: Methodological Review. <i>Smart Innovation, Systems and Technologies</i> , 2017, , 849-859.   | 0.6 | 1         |
| 40 | Exploring the Purchase Experience of Assam Silk as a Memento Among the Tourists to Strengthen the Bond Between Visitors and Native People. <i>Smart Innovation, Systems and Technologies</i> , 2017, , 679-689.           | 0.6 | 1         |
| 41 | Mounting a smartphone on a steering-wheel to facilitate ease of visibility of the navigation screen: A systematic product design approach. <i>Work</i> , 2021, 70, 1-12.  | 1.1 | 1         |
| 42 | The Possibility of Sustainable Development of Sualkuchi (The Biggest Silk Village of Assam) Handloom Sector Through Promotion of Rural Tourism. <i>Design Science and Innovation</i> , 2022, , 213-221.                   | 0.3 | 1         |
| 43 | Traditional Cultivation Practices of Water Chestnut in Northeast India (Assam): A Field Survey. <i>Lecture Notes in Networks and Systems</i> , 2022, , 369-381.   | 0.7 | 1         |
| 44 | Framework of a KE Application Software Development for Emotive Design: A Computational Cognitive Science Perspective. <i>Smart Innovation, Systems and Technologies</i> , 2017, , 469-478.                                | 0.6 | 0         |
| 45 | Association Between Adopted Posture and Perceived Vibrational Discomfort Among Stone Polishing Workers. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 549-561.  | 0.6 | 0         |
| 46 | Urge for Human-Centered Design Intervention for Harvesting Aquatic Food Crops. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 59-69.   | 0.6 | 0         |
| 47 | Visual Features of Ethnic Handloom Products for Retention of the Unique Traditional Signatures Along with Detection of Authenticity. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 531-542.                 | 0.6 | 0         |
| 48 | Research Design for Simplifying Anthropometric Data Collection Process Using PCA. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 71-82.  | 0.6 | 0         |
| 49 | Implementation of Kansei Engineering to Develop a Framework to Retain Ethnicity of Indian Handloom Products. <i>Design Science and Innovation</i> , 2021, , 799-805.  | 0.3 | 0         |
| 50 | Effect of Hull Obliquity on Crew Protection, Mass and Space Occupancy of Light Armoured Vehicle. <i>Defence Science Journal</i> , 2021, 71, 619-629.  | 0.8 | 0         |
| 51 | D3-4ã€œOccupation imposed postural discomfort among the stone polishing workers from Guwahati, Assam: A systematic ergonomic evaluation. <i>Ningen Kogaku = the Japanese Journal of Ergonomics</i> , 2017, 53, S438-S441. | 0.1 | 0         |
| 52 | Ergonomic Design and Evaluation of Innovative MainStand of Motorcycle. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 1099-1111.  | 0.6 | 0         |
| 53 | A scoping review on role of communication media for effective OSH awareness and training. <i>International Journal of Reliability and Safety</i> , 2021, 15, 1.   | 0.2 | 0         |