|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Paper** | **Opportunities** | | | | | | | | | | | | |
| **O1** | **O2** | **O3** | **O4** | **O5** | **O6** | **O7** | **O8** | **O9** | **O10** | **O111** | **O12** | **O13** |
| Bhasin et al. (2024) | X | X | X | X | X | X | X | X |  |  | X | X | X |
| Sæterbø and Solvang (2024) |  |  |  | X | X |  |  |  | X | X | X | X |  |
| Peron et al. (2024) | X | X | X | X | X | X | X | X | X |  |  |  |  |
| Chatterjee et al. (2023) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ronchini et al. (2023) |  |  |  | X |  |  |  |  |  | X | X | X |  |
| Bernard et al. (2023) |  |  |  | X | X |  | X |  |  |  | X | X | X |
| Haug et al. (2023) |  |  |  | X | X | X | X | X | X | X |  |  |  |
| Priyadarshini et al. (2022) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Haleem and Javaid (2022) |  |  |  |  |  |  |  |  |  |  | X |  |  |
| Naghshineh and Carvalho (2022) |  |  |  | X |  |  | X |  |  |  |  | X |  |
| Verma et al. (2023) |  |  |  |  |  |  |  |  |  |  |  | X |  |
| Besklubova et al. (2021) |  |  | X | X | X |  |  | X | X | X | X |  |  |
| Tan and Choong (2021) | X |  |  |  |  |  |  |  |  |  |  | X |  |
| Chekurov et al. (2021) |  |  |  |  |  |  |  |  |  |  | X | X |  |
| Boer et al. (2020) | X | X |  | X | X | X | X | X | X | X |  | X | X |
| Olsen and Tomlin (2020) |  | X |  | X | X |  | X |  | X | X | X | X |  |
| Niaki et al. (2019) |  |  |  | X | X | X |  |  |  |  | X | X | X |
| Stentoft et al. (2020) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Attaran (2017) |  | X |  | X | X | X | X |  |  | X | X | X | X |
| Murmura and Bravi (2018) |  | X | X | X | X | X | X |  |  | X | X | X | X |
| Chan et al. (2018) |  |  |  | X | X |  | X |  |  |  | X |  |  |
| Ballardini et al. (2018) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thomas-Seale et al. (2018) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Martinsuo and Luomaranta (2018) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shukla et al. (2018) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dwivedi et al. (2017) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Durach et al. (2017) |  |  |  | X | X |  | X |  |  |  | X | X | X |
| Ford and Despeisse (2016) |  | X |  | X |  |  | X | X | X | X |  | X |  |
| Naghshineh (2024) |  | X |  | X | X |  | X | X | X |  | X | X | X |
| Tavares et al. (2023) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Naghshineh and Carvalho (2022) |  | X | X | X | X | X | X | X | X | X | X | X | X |
| Gao et al. (2022) | X |  |  | X |  |  |  |  |  | X | X | X |  |
| Khorram Niaki and Nonino (2017) |  | X |  | X | X | X | X |  |  |  | X | X | X |
| Akbari (2023) |  | X |  | X | X | X | X | X | X | X |  | X | X |
| Rayna and West (2023) |  | X |  | X | X | X | X | X | X | X | X | X |  |
| Patil et al. (2023) | X |  |  | X | X | X | X |  |  |  |  | X | X |
| Priyadarshini et al. (2023) | X | X | X | X | X | X | X | X | X | X | X | X |  |
| Luomaranta and Martinsuo (2022) |  |  |  | X | X |  | X |  | X | X | X | X | X |
| Corsini et al. (2022). | X |  | X | X | X |  | X | X |  |  |  | X | X |
| Kunovjanek et al. (2022) |  | X |  | X | X | X | X | X | X | X | X | X | X |
| Franco et al. (2020) |  |  | X | X | X | X | X |  |  |  | X | X |  |

**References**

Akbari, M. (2023), “Data-driven review of additive manufacturing on supply chains: Regionalization, key research themes and future directions”, Computers & Industrial Engineering, Vol. 184, 109600

Attaran, M. (2017), “The rise of 3-D printing: The advantages of additive manufacturing over traditional manufacturing”, Business Horizons, Vol. 60, No. 5, pp. 677-688

Ballardini, R.M., Flores Ituarte, I. and Pei, E. (2018), "Printing spare parts through additive manufacturing: legal and digital business challenges", Journal of Manufacturing Technology Management, Vol. 29 No. 6, pp. 958-982

Bernard, A., Kruth, J.-P., Cao, J., Lanza, G., Bruschi, S., Merklein, M., Vaneker, T., Schmidt, M., Sutherland, J. W., Donmez, A., and da Silva, E. J. (2023), “Vision on metal additive manufacturing: Developments, challenges and future trends”, CIRP Journal of Manufacturing Science and Technology, Vol. 47, pp. 18-58

Besklubova, S., Skibniewski, M. J., and Zhang, X. (2021), “Factors Affecting 3D Printing Technology Adaptation in Construction”, Journal of Construction Engineering and Management, Vol. 147, No. 5, pp. 04021026

Bhasin, S., Singari, R. M., Arora, P. K., and Kumar, H. (2024), “Implications of Additive Manufacturing on Supply Chain Management”, Journal of Industrial Integration and Management, Vol. 9, No. 1, pp. 117-131

Chan, H. K., Griffin, J., Lim, J. J., Zeng, F., and Chiu, A. S. F. (2018), “The impact of 3D Printing Technology on the supply chain: Manufacturing and legal perspectives”, International Journal of Production Economics, Vol. 205, pp. 156-162

Chatterjee, P., Greenland, S., Low, D., Watson, C., and Nguyen, N. (2023), “Barriers to sustainable innovation adoption: A qualitative investigation of metal additive printing from supply and demand perspectives”, Cleaner Logistics and Supply Chain, Vol. 9, 100128

Chekurov, S., Salmi, M., Verboeket, V., Puttonen, T., Riipinen, T. and Vaajoki, A. (2021), "Assessing industrial barriers of additively manufactured digital spare part implementation in the machine-building industry: a cross-organizational focus group interview study", Journal of Manufacturing Technology Management, Vol. 32 No. 4, pp. 909-931

Corsini, L., Aranda-Jan, C. B., and Moultrie, J. (2020), “The impact of 3D printing on the humanitarian supply chain”, Production Planning & Control, Vol. 33, No. 6–7, pp. 692–704

den Boer, J., Lambrechts, W., and Krikke, H. (2020), “Additive manufacturing in military and humanitarian missions: Advantages and challenges in the spare parts supply chain”, Journal of Cleaner Production, Vol. 257, 120301

Durach, C.F., Kurpjuweit, S. and Wagner, S.M. (2017), "The impact of additive manufacturing on supply chains", International Journal of Physical Distribution & Logistics Management, Vol. 47 No. 10, pp. 954-971

Dwivedi, G., Srivastava, S.K. and Srivastava, R.K. (2017), "Analysis of barriers to implement additive manufacturing technology in the Indian automotive sector", International Journal of Physical Distribution & Logistics Management, Vol. 47 No. 10, pp. 972-991

Ford, S., and Despeisse, M. (2016), “Additive manufacturing and sustainability: an exploratory study of the advantages and challenges”, Journal of Cleaner Production, Vol. 137, pp. 1573-1587

Franco, D., Devós Ganga, G. M., de Santa-Eulalia, L. A., and Godinho Filho, M. (2020), “Consolidated and inconclusive effects of additive manufacturing adoption: A systematic literature review”, Computers & Industrial Engineering, Vol. 148, 106713

Gao, M., Li, L., Wang, Q., Ma, Z., Li, X., and Liu, Z. (2022), “Integration of Additive Manufacturing in Casting: Advances, Challenges, and Prospects”, International Journal of Precision Engineering and Manufacturing-Green Technology, Vol. 9, pp. 305–322

Haleem, A., and Javaid, M. (2022), “Enablers, Barriers, and Critical Success Factors for Effective Adoption of Color-Jet 3D Printing Technology”, Journal of Industrial Integration and Management, Vol. 7, No. 4, pp. 599-625

Haug, A., Wickstrøm, K. A., Stentoft, J., and Philipsen, K. (2023), “Adoption of additive manufacturing: A survey of the role of knowledge networks and maturity in small and medium-sized Danish production firms”, International Journal of Production Economics, Vol. 255, 108714

Khorram Niaki, M., and Nonino, F. (2016), “Additive manufacturing management: a review and future research agenda”, International Journal of Production Research, Vol. 55, No. 5, pp. 1419–1439

Kunovjanek, M., Knofius, N., anf Reiner, G. (2020), “Additive manufacturing and supply chains – a systematic review”, Production Planning & Control, Vol. 33, No. 13, pp. 1231–1251

Luomaranta, T. and Martinsuo, M. (2022), "Additive manufacturing value chain adoption", Journal of Manufacturing Technology Management, Vol. 33 No. 9, pp. 40-60

Martinsuo, M. and Luomaranta, T. (2018), "Adopting additive manufacturing in SMEs: exploring the challenges and solutions", Journal of Manufacturing Technology Management, Vol. 29 No. 6, pp. 937-957

Murmura, F. and Bravi, L. (2018), "Additive manufacturing in the wood-furniture sector: Sustainability of the technology, benefits and limitations of adoption", Journal of Manufacturing Technology Management, Vol. 29 No. 2, pp. 350-371

Naghshineh, B. (2024), “Additive manufacturing technology adoption for supply chain agility: a systematic search and review”, International Journal of Production Research, pp. 1–33

Naghshineh, B. and Carvalho, H. (2022), "Exploring the interrelations between additive manufacturing adoption barriers and supply chain vulnerabilities: the case of an original equipment manufacturer", Journal of Manufacturing Technology Management, Vol. 33 No. 8, pp. 1473-1489

Naghshineh, B., and Carvalho, H. (2022), The implications of additive manufacturing technology adoption for supply chain resilience: A systematic search and review”, International Journal of Production Economics, Vol. 247, 108387

Niaki, M. J., Torabi, S. A., and Nonino, F. (2019), “Why manufacturers adopt additive manufacturing technologies: The role of sustainability”, Journal of Cleaner Production, Vol. 222, pp. 381-392

Olsen, T. L., and Tomlin, B. (2019), “Industry 4.0: Opportunities and Challenges for Operations Management”, Manufacturing & Service Operations Management, Vol. 22, No. 1, pp. 113-122

Patil, H., Niranjan, S., Narayanamurthy, G. and Narayanan, A. (2023), “Investigating contingent adoption of additive manufacturing in supply chains”, International Journal of Operations and Production Management, Vol. 43 No. 3, pp. 489-519

Peron, M., Saporiti, N., Shoeibi, M., Holmström, J. and Salmi, M. (2024), "Additive manufacturing in the medical sector: from an empirical investigation of challenges and opportunities toward the design of an ecosystem model", International Journal of Operations & Production Management, Vol. ahead-of-print No. ahead-of-print

Priyadarshini, J., Singh, R. K., Mishra, R., and Kamal, M. M. (2022), “Adoption of additive manufacturing for sustainable operations in the era of circular economy: Self-assessment framework with case illustration”, Computers & Industrial Engineering, Vol. 171, 108514

Priyadarshini, J., Singh, R. K., Mishra, R., Chaudhuri, A., and Kamble, S. (2023), “Supply chain resilience and improving sustainability through additive manufacturing implementation: a systematic literature review and framework”, Production Planning & Control, pp. 1–24

Rayna, T., and West, J. (2023), “Where digital meets physical innovation: Reverse salients and the unrealized dreams of 3D printing”, Journal of Product Innovation Management, Vol. 40, No. 4, pp. 530-553

Ronchini, A., Moretto, A.M. and Caniato, F. (2023), "Adoption of additive manufacturing technology: drivers, barriers and impacts on upstream supply chain design", International Journal of Physical Distribution & Logistics Management, Vol. 53 No. 4, pp. 532-554

Sæterbø, M., and Solvang, W. D. (2024), “Metal additive manufacturing adoption in SMEs: Technical attributes, challenges, and opportunities”, Journal of Manufacturing Processes, Vol. 128, pp. 175-189\

Shukla, M., Todorov, I., and Kapletia, D. (2018), “Application of additive manufacturing for mass customisation: understanding the interaction of critical barriers”, Production Planning & Control, Vol. 29, No. 10, pp. 814–825

Stentoft, J., Philipsen, K., Haug, A. and Wickstrøm, K.A. (2021), "Motivations and challenges with the diffusion of additive manufacturing through a non-profit association", Journal of Manufacturing Technology Management, Vol. 32 No. 4, pp. 841-861

Tan, H. W., and Choong, Y. Y. C. (2021), “Additive manufacturing in COVID-19: recognising the challenges and driving for assurance”, Virtual and Physical Prototyping, Vol. 16, No. 4, pp. 498–503

Tavares, T. M., Devós Ganga, G. M., Godinho Filho, M., and Picanço Rodrigues, V. (2023), “The benefits and barriers of additive manufacturing for circular economy: A framework proposal”, Sustainable Production and Consumption, Vol. 37, pp. 369-388

Thomas-Seale, L.E.J., Kirkman-Brown, J. C., Attallah, M. M., Espino, D. M., and Shepherd, D. E. T. (2018), “The barriers to the progression of additive manufacture: Perspectives from UK industry”, International Journal of Production Economics, Vol. 198, pp. 104-118

Verma, V. K., Kamble, S. S., Ganapathy, L., Mani, V., Belhadi, A., and Shi, Y. (2023), “Exploring the barriers in medical additive manufacturing from an emerging economy”, Production Planning & Control, pp. 1–21