Surya Prakash Singh

List of Publications by Year
in descending order

114 papers	3,682 citations	136950 32 h-index	155660 55 g-index
116 all docs	116 docs citations	116 times ranked	2462 citing authors

#	Article	IF	Citations
1	Connecting circular economy and industry 4.0. International Journal of Information Management, 2019, 49, 98-113.	17.5	358
2	Blockchain critical success factors for sustainable supply chain. Resources, Conservation and Recycling, 2020, 152, 104505.	10.8	238
3	Big data in operations and supply chain management: current trends and future perspectives. Production Planning and Control, 2017, 28, 877-890.	8.8	142
4	Fuzzy-TISM: A Fuzzy Extension of TISM for Group Decision Making. Global Journal of Flexible Systems Management, 2015, 16, 97-112.	6.3	128
5	A mixed-integer non-linear program to model dynamic supplier selection problem. Expert Systems With Applications, 2014, 41, 671-678.	7.6	127
6	Industry 4.0 â˜ challenges to implement circular economy. Benchmarking, 2021, 28, 1717-1739.	4.6	110
7	Sustainable procurement and logistics for disaster resilient supply chain. Annals of Operations Research, 2019, 283, 309-354.	4.1	98
8	Heuristic modeling for sustainable procurement and logistics in a supply chain using big data. Computers and Operations Research, 2018, 98, 301-321.	4.0	96
9	Identifying Industry 4.0 IoT enablers by integrated PCA-ISM-DEMATEL approach. Management Decision, 2019, 57, 1784-1817.	3.9	96
10	Multi-stage hybrid model for supplier selection and order allocation considering disruption risks and disruptive technologies. International Journal of Production Economics, 2021, 231, 107830.	8.9	90
11	Proactive and reactive models for disaster resilient supply chain. Annals of Operations Research, 2019, 283, 199-224.	4.1	88
12	Sustainable robust layout using Big Data approach: A key towards industry 4.0. Journal of Cleaner Production, 2018, 204, 643-659.	9.3	86
13	Modeling big data enablers for operations and supply chain management. International Journal of Logistics Management, 2018, 29, 629-658.	6.6	84
14	Integrated decisions for supplier selection and lot-sizing considering different carbon emission regulations in Big Data environment. Computers and Industrial Engineering, 2019, 128, 1052-1062.	6.3	81
15	Industry 4.0 Model for circular economy and cleaner production. Journal of Cleaner Production, 2020, 277, 123853.	9.3	75
16	Deep learning with long short-term memory networks and random forests for demand forecasting in multi-channel retail. International Journal of Production Research, 2020, 58, 4964-4979.	7.5	73
17	Impact of Industry4.0/ICTs, Lean Six Sigma and quality management systems on organisational performance. TQM Journal, 2020, 32, 815-835.	3.3	64
18	Food safety regulatory model in India. Food Control, 2014, 37, 401-413.	5.5	60

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19	Towards the next generation of manufacturing: implications of big data and digitalization in the context of industry 4.0. Production Planning and Control, 2022, 33, 101-104.	8.8	60
20	An improved heuristic approach for multi-objective facility layout problem. International Journal of Production Research, 2010, 48, 1171-1194.	7.5	59
21	An integrated fuzzy-ANP and fuzzy-ISM approach using blockchain for sustainable supply chain. Journal of Enterprise Information Management, 2021, 34, 54-78.	7.5	59
22	An Integer Linear Program for Integrated Supplier Selection: A Sustainable Flexible Framework. Global Journal of Flexible Systems Management, 2016, 17, 113-134.	6.3	55
23	Evaluating indicators for international manufacturing network under circular economy. Management Decision, 2019, 57, 811-839.	3.9	52
24	Sustainable stochastic production and procurement problem for resilient supply chain. Computers and Industrial Engineering, 2020, 139, 105560.	6.3	46
25	Critical success factors for lean six sigma in quality 4.0. International Journal of Quality and Service Sciences, 2021, 13, 123-156.	2.4	46
26	Dynamic supplier selection and lot-sizing problem considering carbon emissions in a big data environment. Technological Forecasting and Social Change, 2019, 144, 573-584.	11.6	44
27	Integrating big data analytic and hybrid firefly-chaotic simulated annealing approach for facility layout problem. Annals of Operations Research, 2018, 270, 489-514.	4.1	43
28	Three-level AHP-based heuristic approach for a multi-objective facility layout problem. International Journal of Production Research, 2011, 49, 1105-1125.	7.5	42
29	Modelling the drivers for sustainable agri-food waste management. Benchmarking, 2018, 25, 981-993.	4.6	38
30	Intelligent agent framework to determine the optimal conflict-free path for an automated guided vehicles system. International Journal of Production Research, 2002, 40, 4195-4223.	7.5	37
31	Modeling Flexible Supplier Selection Framework. Global Journal of Flexible Systems Management, 2014, 15, 261-274.	6.3	36
32	Formulating and solving sustainable stochastic dynamic facility layout problem: a key to sustainable operations. Annals of Operations Research, 2017, 253, 621-655.	4.1	35
33	Forecasting container throughput with long short-term memory networks. Industrial Management and Data Systems, 2019, 120, 425-441.	3.7	33
34	A cross-temporal hierarchical framework and deep learning for supply chain forecasting. Computers and Industrial Engineering, 2020, 149, 106796.	6.3	32
35	Flexible Sustainable Supply Chain Network Design: Current Trends, Opportunities and Future. Global Journal of Flexible Systems Management, 2016, 17, 109-112.	6.3	30
36	Sharing economic responsibility: Assessing end user's willingness to support E-waste reverse logistics for circular economy. Journal of Cleaner Production, 2022, 332, 130057.	9.3	30

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37	Analysis of fuzzy applications in the agri-supply chain: A literature review. Journal of Cleaner Production, 2021, 283, 124577.	9.3	29
38	Chance constraint-based multi-objective stochastic model for supplier selection. International Journal of Advanced Manufacturing Technology, 2015, 79, 1707-1719.	3.0	26
39	A similarity score-based two-phase heuristic approach to solve the dynamic cellular facility layout for manufacturing systems. Engineering Optimization, 2017, 49, 1848-1867.	2.6	26
40	Modified simulated annealing based approach for multi objective facility layout problem. International Journal of Production Research, 2013, 51, 4273-4288.	7.5	25
41	Integrated SEM-FTOPSIS framework for modeling and prioritization of risk sources in medical device development process. Benchmarking, 2018, 25, 178-200.	4.6	25
42	From predictive to prescriptive analytics: A data-driven multi-item newsvendor model. Decision Support Systems, 2020, 136, 113340.	5.9	25
43	Modeling low carbon procurement and logistics in supply chain: A key towards sustainable production. Sustainable Production and Consumption, 2017, 11, 5-17.	11.0	24
44	Modelling joint outsourcing and offshoring decisions. International Journal of Production Research, 2019, 57, 4278-4309.	7.5	24
45	A stochastic disaster-resilient and sustainable reverse logistics model in big data environment. Annals of Operations Research, 2022, 319, 853-884.	4.1	24
46	Industry 4.0 model for integrated circular economy-reverse logistics network. International Journal of Logistics Research and Applications, 2022, 25, 837-877.	8.8	24
47	A stochastic optimisation model for biomass outsourcing in the cement manufacturing industry with production planning constraints. Energy, 2019, 169, 515-526.	8.8	23
48	Flexible dynamic sustainable procurement model. Annals of Operations Research, 2019, 273, 651-691.	4.1	23
49	Big Data analytics in supply chain management: some conceptual frameworks. International Journal of Automation and Logistics, 2016, 2, 279.	0.2	21
50	Disaster resilient proactive and reactive procurement models for humanitarian supply chain. Production Planning and Control, 2022, 33, 576-589.	8.8	20
51	Precise decisions in Indian energy sector by imprecise evaluation. International Journal of Energy Sector Management, 2016, 10, 118-142.	2.3	18
52	A multi-objective integer linear program to integrate supplier selection and order allocation with market demand in a supply chain. International Journal of Procurement Management, 2017, 10, 335.	0.2	18
53	Integrated dynamic vendor selection and order allocation problem for the time dependent and stochastic data. Benchmarking, 2018, 25, 777-796.	4.6	17
54	An interpretive structural modeling of drivers and barriers of sustainable supply chain management. Management of Environmental Quality, 2020, 31, 1071-1090.	4.3	17

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55	Formulating multi-objective stochastic dynamic facility layout problem for disaster relief. Annals of Operations Research, 2019, 283, 837-863.	4.1	16
56	Designing dynamic reverse logistics network for post-sale service. Annals of Operations Research, 2022, 310, 89-118.	4.1	16
57	A new approach to determine the quality value of cotton fibres using multi-criteria decision making and genetic algorithm. Fibers and Polymers, 2014, 15, 2658-2664.	2.1	15
58	Estimation of E-waste at micro level for reverse logistics: A case of Delhi. Journal of Cleaner Production, 2021, 314, 128063.	9.3	15
59	Selection of healthcare waste disposal firms using a multi-method approach. Journal of Environmental Management, 2021, 295, 113117.	7.8	15
60	Sustainable coal consumption and energy production in India using life cycle costing and real options analysis. Sustainable Production and Consumption, 2016, 6, 26-37.	11.0	14
61	Distribution network model using big data in an international environment. Science of the Total Environment, 2020, 707, 135549.	8.0	14
62	Hierarchy of Critical Success Factors (CSF) for Lean Six Sigma (LSS) in Quality 4.0. International Journal of Global Business and Competitiveness, 2021, 16, 1-14.	2.4	14
63	A resilient pricing and service quality level decision for fresh agri-product supply chain in post-COVID-19 era. International Journal of Logistics Management, 2023, 34, 1101-1140.	6.6	14
64	Integrated SA-DEA-TOPSIS-based solution approach for multi objective stochastic dynamic facility layout problem. International Journal of Business and Systems Research, 2017, 11, 82.	0.3	12
65	Food safety assessment in India: modelling enablers. Benchmarking, 2018, 25, 2478-2495.	4.6	12
66	Carbon management framework for sustainable manufacturing using life cycle assessment, IoT and carbon sequestration. Benchmarking, 2021, 28, 1396-1409.	4.6	12
67	Identifying infrastructural gap areas for smart and sustainable tribal village development: A data science approach from India. International Journal of Information Management Data Insights, 2021, 1, 100041.	9.7	12
68	Understanding the role of contractor capability in risk management: a comparative case study of two similar projects. Construction Management and Economics, 2020, 38, 223-238.	3.0	11
69	A location-allocation model for influenza pandemic outbreaks: A case study in India. Operations Management Research, 2022, 15, 487-502.	8.5	11
70	Designing Flexible Stochastic Dynamic Layout: An Integrated Firefly and Chaotic Simulated Annealing-Based Approach. Global Journal of Flexible Systems Management, 2017, 18, 89-98.	6.3	10
71	An environmentally sustainable manufacturing network model under an international ecosystem. Clean Technologies and Environmental Policy, 2019, 21, 1237-1257.	4.1	10
72	Forecasting the impact of epidemic outbreaks on the supply chain: modelling asymptomatic cases of the COVID-19 pandemic. International Journal of Production Research, 2023, 61, 2670-2695.	7.5	10

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73	A WIP control policy for tandem lines. International Journal of Production Research, 2009, 47, 1127-1149.	7.5	9
74	"Systematic inquiry for energy security and sustainability"(a case study approach for India using) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.0	9
75	Evaluating elements of national food control system: Indian context. Food Control, 2018, 90, 121-130.	5.5	9
76	Simulated Annealing-Based Embedded Meta-Heuristic Approach to Solve Bi-objective Robust Stochastic Sustainable Cellular Layout. Global Journal of Flexible Systems Management, 2018, 19, 69-93.	6.3	9
77	Cognitive aspects of Lean Six Sigma. Quality and Quantity, 2022, 56, 607-666.	3.7	9
78	A non-greedy systematic neighbourhood search heuristic for solving facility layout problem. International Journal of Advanced Manufacturing Technology, 2013, 68, 1665-1675.	3.0	8
79	Enlightening grey portions of energy security towards sustainability. International Journal of Energy Sector Management, 2017, 11, 118-142.	2.3	8
80	A new heuristic approach for solving facility layout problem. International Journal of Advanced Operations Management, 2013, 5, 137.	0.3	7
81	Environmentally sustainable stochastic procurement model. Management of Environmental Quality, 2018, 29, 472-498.	4.3	7
82	Multi-echelon agri-food supply chain network design integrating operational and strategic objectives: a case of public distribution system in India. Annals of Operations Research, 2021, , 1-58.	4.1	6
83	Modeling Flexible Procurement Problem. Flexible Systems Management, 2016, , 147-170.	0.2	5
84	Optimal selection of multi-criteria unequal area facility layout problem: an integer linear program and Borda-Kendall-based method. International Journal of Business and Systems Research, 2017, 11, 62.	0.3	5
85	Fuzzy Modeling for Low-Carbon Dynamic Procurement Problem. International Journal of Fuzzy Systems, 2017, 19, 1238-1248.	4.0	5
86	An integrated NPV-based supply chain configuration with third-party logistics services. Journal of Revenue and Pricing Management, 2019, 18, 367-375.	1.1	5
87	Diversification-based learning simulated annealing algorithm for hub location problems. Benchmarking, 2019, 26, 1995-2016.	4.6	5
88	Designing robust stochastic bi-objective cellular layout in manufacturing systems. International Journal of Management Concepts and Philosophy, 2017, 10, 147.	0.1	4
89	Modeling critical factors for assessing Indian food safety practices. International Journal of Quality and Reliability Management, 2018, 35, 2272-2288.	2.0	4
90	Studying the interrelationship between third party logistic service provider enablers using ISM methodology. Journal of Modelling in Management, 2019, 15, 182-200.	1.9	4

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91	Optimal contract design for the exchange of tradable truck permits at multiterminal ports. International Journal of Production Economics, 2020, 230, 107815.	8.9	4
92	Preface: sustainable operations in manufacturing enterprise. Annals of Operations Research, 2020, 290, 1-4.	4.1	4
93	Understanding relationship between risks and claims for assessing risks with project data. Engineering, Construction and Architectural Management, 2021, 28, 1014-1037.	3.1	4
94	Trajectory of research on maritime transportation in the era of digitization. Benchmarking, 2022, 29, 194-216.	4.6	4
95	Analysis of Competitiveness in Agri-Supply Chain Logistics Outsourcing: A B2B Contractual Framework. Sustainability, 2022, 14, 6866.	3.2	4
96	Hybrid clusteing algorithm and Neural Network classifier for satellite image classification. , 2015, , .		3
97	Deriving the hierarchical relationship of factors of fly ash handling. Management of Environmental Quality, 2018, 29, 444-455.	4.3	3
98	A clean global production network model considering hybrid facilities. Journal of Cleaner Production, 2021, 281, 124463.	9.3	3
99	Analyzing glacial lake outburst flood triggers for sustainable disaster risk mitigation: an interpretive structuralAmodelling based approach. Management of Environmental Quality, 2021, 32, 1284-1297.	4.3	3
100	Customer satisfaction â€" dilemma of comparing multiple scale scores. Total Quality Management and Business Excellence, 2023, 34, 32-56.	3.8	3
101	Non-greedy systematic neighbourhood search heuristic for multi-objective facility layout problem. International Journal of Services and Operations Management, 2012, 12, 118.	0.2	2
102	Cellular facility layout problem: a case of tower manufacturing industry. Management of Environmental Quality, 2019, 30, 1345-1360.	4.3	2
103	Modified SA Algorithm for Bi-objective Robust Stochastic Cellular Facility Layout in Cellular Manufacturing Systems. Advances in Intelligent Systems and Computing, 2019, , 19-33.	0.6	2
104	Location of competitive facilities: aÂcomprehensive review and future research agenda. Benchmarking, 2023, 30, 1171-1230.	4.6	2
105	Two phase algorithm for bi-objective relief distribution location problem. Annals of Operations Research, 0, , .	4.1	2
106	An Approximate Algorithm to Solve Facility Layout Problem. , 2009, , .		1
107	Goal-based approach for environmentally sustainable stochastic procurement problem. International Journal of Services and Operations Management, 2018, 30, 226.	0.2	1
108	An Approximate Algorithm for Solving Dynamic Facility Layout Problem. Communications in Computer and Information Science, 2010, , 504-509.	0.5	0

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109	Modelling Sustainable Procurement: A Case of Indian Manufacturing Firm. Advances in Intelligent Systems and Computing, 2018, , 221-229.	0.6	0
110	Modeling Stochastic Dynamic Facility Layout Using Hybrid Fireworks Algorithm and Chaotic Simulated Annealing: A Case of Indian Garment Industry. Advances in Intelligent Systems and Computing, 2018, , 31-40.	0.6	0
111	EQ&OR: environmental quality and operations research. Management of Environmental Quality, 2018, 29, 386-387.	4.3	0
112	Ant System Embedded with Local Search for Solving Facility Layout Problem. Communications in Computer and Information Science, 2010, , 621-628.	0.5	0
113	A Non-greedy Local Search Heuristic for Facility Layout Problem. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 176-181.	0.3	0
114	Low-Carbon Logistics Network for Smart Cities: A Conceptual Framework. , 2017, , 199-212.		0