List of Publications by Year in descending order

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124 papers	4,637 citations	126907 33 h-index	110387 64 g-index
125 all docs	125 docs citations	125 times ranked	2652 citing authors

#	Article	IF	Citations
1	An Improved Differential Evolution Algorithm for Practical Dynamic Scheduling in Steelmaking-Continuous Casting Production. IEEE Transactions on Evolutionary Computation, 2014, 18, 209-225.	10.0	329
2	A review of planning and scheduling systems and methods for integrated steel production. European Journal of Operational Research, 2001, 133, 1-20.	5.7	303
3	A multiple traveling salesman problem model for hot rolling scheduling in Shanghai Baoshan Iron & Steel Complex. European Journal of Operational Research, 2000, 124, 267-282.	5.7	275
4	Differential Evolution With an Individual-Dependent Mechanism. IEEE Transactions on Evolutionary Computation, 2015, 19, 560-574.	10.0	252
5	A Hybrid Multiobjective Evolutionary Algorithm for Multiobjective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2013, 17, 20-45.	10.0	205
6	A mathematical programming model for scheduling steelmaking-continuous casting production. European Journal of Operational Research, 2000, 120, 423-435.	5.7	195
7	Steel-making process scheduling using Lagrangian relaxation. International Journal of Production Research, 2002, 40, 55-70.	7.5	187
8	Scheduling a hybrid flowshop with batch production at the last stage. Computers and Operations Research, 2007, 34, 2718-2733.	4.0	106
9	Modeling and solution of the joint quay crane and truck scheduling problem. European Journal of Operational Research, 2014, 236, 978-990.	5.7	100
10	A two-stage flow shop scheduling problem on a batching machine and a discrete machine with blocking and shared setup times. Computers and Operations Research, 2010, 37, 960-969.	4.0	92
11	A new Lagrangian relaxation algorithm for hybrid flowshop scheduling to minimize total weighted completion time. Computers and Operations Research, 2006, 33, 3344-3359.	4.0	83
12	Integrated Charge Batching and Casting Width Selection at Baosteel. Operations Research, 2014, 62, 772-787.	1.9	81
13	Decision support system for the batching problems of steelmaking and continuous-casting production. Omega, 2008, 36, 976-991.	5.9	77
14	An adaptive multi-population differential evolution algorithm for continuous multi-objective optimization. Information Sciences, 2016, 348, 124-141.	6.9	73
15	A discrete particle swarm optimization algorithm with self-adaptive diversity control for the permutation flowshop problem with blocking. Applied Soft Computing Journal, 2012, 12, 652-662.	7.2	71
16	Modelling and a genetic algorithm solution for the slab stack shuffling problem when implementing steel rolling schedules. International Journal of Production Research, 2002, 40, 1583-1595.	7.5	70
17	Data analytics and optimization for smart industry. Frontiers of Engineering Management, 2021, 8, 157-171.	6.1	69
18	Iterated local search algorithm based on very large-scale neighborhood for prize-collecting vehicle routing problem. International Journal of Advanced Manufacturing Technology, 2006, 29, 1246-1258.	3.0	65

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19	A multi-objective model for purchasing of bulk raw materials of a large-scale integrated steel plant. International Journal of Production Economics, 2003, 83, 325-334.	8.9	64
20	A population-based variable neighborhood search for the single machine total weighted tardiness problem. Computers and Operations Research, 2009, 36, 2105-2110.	4.0	63
21	A machine-learning based memetic algorithm for the multi-objective permutation flowshop scheduling problem. Computers and Operations Research, 2017, 79, 60-77.	4.0	61
22	An improved Benders decomposition algorithm for the logistics facility location problem with capacity expansions. Annals of Operations Research, 2013, 210, 165-190.	4.1	58
23	A mathematical programming model and solution for scheduling production orders in Shanghai Baoshan Iron and Steel Complex. European Journal of Operational Research, 2007, 182, 1453-1468.	5.7	51
24	Two-agent group scheduling with deteriorating jobs on a single machine. International Journal of Advanced Manufacturing Technology, 2010, 47, 657-664.	3.0	48
25	Two-Agent Scheduling with Linear Deteriorating Jobs on a Single Machine. Lecture Notes in Computer Science, 2008, , 642-650.	1.3	47
26	Two-machine flowshop scheduling problems involving a batching machine with transportation or deterioration consideration. Applied Mathematical Modelling, 2009, 33, 1187-1199.	4.2	46
27	Research into container reshuffling and stacking problems in container terminal yards. IIE Transactions, 2015, 47, 751-766.	2.1	46
28	Steelmaking and refining coordinated scheduling problem with waiting time and transportation consideration. Computers and Industrial Engineering, 2010, 58, 239-248.	6.3	42
29	Adaptive Multiobjective Differential Evolution With Reference Axis Vicinity Mechanism. IEEE Transactions on Cybernetics, 2019, 49, 3571-3585.	9.5	41
30	Multiobjective Operation Optimization of Naphtha Pyrolysis Process Using Parallel Differential Evolution. Industrial & Engineering Chemistry Research, 2013, 52, 14415-14428.	3.7	39
31	Modelling and a segmented dynamic programming-based heuristic approach for the slab stack shuffling problem. Computers and Operations Research, 2010, 37, 368-375.	4.0	38
32	A combination of Lagrangian relaxation and column generation for order batching in steelmaking and continuous-casting production. Naval Research Logistics, 2011, 58, 370-388.	2.2	37
33	Models and algorithms for shuffling problems in steel plants. Naval Research Logistics, 2012, 59, 502-524.	2.2	37
34	Integrated scheduling of rolling sector in steel production with consideration of energy consumption under time-of-use electricity prices. Computers and Chemical Engineering, 2018, 111, 55-65.	3.8	35
35	Modeling and solution for steelmaking scheduling with batching decisions and energy constraints. Computers and Chemical Engineering, 2018, 116, 368-384.	3.8	34
36	A Benders decomposition-based framework for solving quay crane scheduling problems. European Journal of Operational Research, 2019, 273, 504-515.	5.7	34

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37	Multiobjective Differential Evolution With Personal Archive and Biased Self-Adaptive Mutation Selection. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 5338-5350.	9.3	33
38	Integration of batching and scheduling for hot rolling production in the steel industry. International Journal of Advanced Manufacturing Technology, 2008, 36, 431-441.	3.0	32
39	A hybrid two-stage transportation and batch scheduling problem. Applied Mathematical Modelling, 2008, 32, 2467-2479.	4.2	32
40	The coordination of transportation and batching scheduling. Applied Mathematical Modelling, 2009, 33, 3854-3862.	4.2	32
41	Competitive two-agent scheduling with deteriorating jobs on a single parallel-batching machine. European Journal of Operational Research, 2017, 263, 401-411.	5.7	32
42	Scheduling a single semi-continuous batching machine. Omega, 2008, 36, 992-1004.	5.9	30
43	An Improved Particle Swarm Optimization Algorithm for the Hybrid Flowshop Scheduling to Minimize Total Weighted Completion Time in Process Industry. IEEE Transactions on Control Systems Technology, 2010, , .	5.2	28
44	Integrated Scheduling of Production and Two-Stage Delivery of Make-to-Order Products: Offline and Online Algorithms. INFORMS Journal on Computing, 2019, 31, 493-514.	1.7	28
45	Least squares support vector machine with self-organizing multiple kernel learning and sparsity. Neurocomputing, 2019, 331, 493-504.	5.9	28
46	Bicriteria scheduling on a single batching machine with job transportation and deterioration considerations. Naval Research Logistics, 2014, 61, 269-285.	2.2	27
47	Coil Batching to Improve Productivity and Energy Utilization in Steel Production. Manufacturing and Service Operations Management, 2016, 18, 262-279.	3.7	27
48	Modelling and discrete differential evolution algorithm for order rescheduling problem in steel industry. Computers and Industrial Engineering, 2019, 130, 586-596.	6.3	27
49	Optimal and near-optimal algorithms to rolling batch scheduling for seamless steel tube production. International Journal of Production Economics, 2007, 105, 357-371.	8.9	26
50	Flowshop scheduling problems with transportation or deterioration between the batching and single machines. Computers and Industrial Engineering, 2009, 56, 1289-1295.	6.3	25
51	Simultaneously scheduling multiple turns for steel color-coating production. European Journal of Operational Research, 2009, 198, 715-725.	5.7	25
52	A Two-Phase Heuristic for the Production Scheduling of Heavy Plates in Steel Industry. IEEE Transactions on Control Systems Technology, 2010, 18, 104-117.	5.2	25
53	Two-machine flowshop scheduling with intermediate transportation under job physical space consideration. Computers and Operations Research, 2011, 38, 1267-1274.	4.0	25
54	A stochastic production planning problem with nonlinear cost. Computers and Operations Research, 2012, 39, 1977-1987.	4.0	25

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55	Novel time-space network flow formulation and approximate dynamic programming approach for the crane scheduling in a coil warehouse. European Journal of Operational Research, 2017, 262, 424-437.	5.7	25
56	Minimizing makespan in a two-machine flowshop scheduling with batching and release time. Mathematical and Computer Modelling, 2009, 49, 1071-1077.	2.0	24
57	An improved scatter search algorithm for the single machine total weighted tardiness scheduling problem with sequence-dependent setup times. Applied Soft Computing Journal, 2015, 29, 184-195.	7.2	24
58	Operation Optimization in the Hot-Rolling Production Process. Industrial & Engineering Chemistry Research, 2014, 53, 11393-11410.	3.7	23
59	Computational strategies for improved MINLP algorithms. Computers and Chemical Engineering, 2015, 75, 40-48.	3.8	23
60	A branch-and-price algorithm to solve the molten iron allocation problem in iron and steel industry. Computers and Operations Research, 2007, 34, 3001-3015.	4.0	22
61	Generation Scheduling Under a CO₂ Emission Reduction Policy in the Deregulated Market. IEEE Transactions on Engineering Management, 2013, 60, 386-397.	3.5	21
62	Crane scheduling in a warehouse storing steel coils. IIE Transactions, 2014, 46, 267-282.	2.1	21
63	Reheat furnace scheduling with energy consideration. International Journal of Production Research, 2015, 53, 1642-1660.	7.5	21
64	An exact algorithm for the unidirectional quay crane scheduling problem with vessel stability. European Journal of Operational Research, 2021, 291, 271-283.	5.7	21
65	A predictive reactive scheduling method for color-coating production in steel industry. International Journal of Advanced Manufacturing Technology, 2008, 35, 633-645.	3.0	20
66	Integrated storage space allocation and ship scheduling problem in bulk cargo terminals. IIE Transactions, 2016, 48, 428-439.	2.1	20
67	Novel Formulation for Optimal Schedule with Demand Side Management in Multiproduct Air Separation Processes. Industrial & Engineering Chemistry Research, 2019, 58, 3104-3117.	3.7	20
68	Hybrid backward and forward dynamic programming based Lagrangian relaxation for single machine scheduling. Computers and Operations Research, 2007, 34, 2625-2636.	4.0	19
69	Storage space allocation problem at inland bulk material stockyard. Transportation Research, Part E: Logistics and Transportation Review, 2020, 134, 101856.	7.4	18
70	Scheduling of a single crane in batch annealing process. Computers and Operations Research, 2009, 36, 2853-2865.	4.0	17
71	Scheduling of cracking production process with feedstocks and energy constraints. Computers and Chemical Engineering, 2016, 94, 92-103.	3.8	17
72	Improved quadratic cuts for convex mixed-integer nonlinear programs. Computers and Chemical Engineering, 2018, 109, 77-95.	3.8	17

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73	A Scatter Search Algorithm for a Multistage Production Scheduling Problem With Blocking and Semi-Continuous Batching Machine. IEEE Transactions on Control Systems Technology, 2011, 19, 976-989.	5.2	16
74	A New ILS Algorithm for Cast Planning Problem in Steel Industry. ISIJ International, 2007, 47, 443-452.	1.4	15
75	The Charge Batching Planning Problem in Steelmaking Process Using Lagrangian Relaxation Algorithm. Industrial & Engineering Chemistry Research, 2009, 48, 7780-7787.	3.7	15
76	Parallel Machine Scheduling under the Disruption of Machine Breakdown. Industrial & Engineering Chemistry Research, 2009, 48, 6660-6667.	3.7	14
77	Modeling and solution for the ship stowage planning problem of coils in the steel industry. Naval Research Logistics, 2015, 62, 564-581.	2.2	14
78	Two Hybrid Metaheuristic Algorithms for Hot Rolling Scheduling. ISIJ International, 2009, 49, 529-538.	1.4	13
79	Strip Hardness Prediction in Continuous Annealing Using Multiobjective Sparse Nonlinear Ensemble Learning With Evolutionary Feature Selection. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2397-2411.	5.2	12
80	Color-Coating Production Scheduling for Coils in Inventory in Steel Industry. IEEE Transactions on Automation Science and Engineering, 2008, 5, 544-549.	5.2	11
81	A case of rule-based heuristics for scheduling hot rolling seamless steel tube production. Expert Systems, 2006, 23, 145-158.	4.5	10
82	Corrective Unit Commitment to an Unforeseen Unit Breakdown. IEEE Transactions on Power Systems, 2012, 27, 1729-1740.	6.5	10
83	Modeling and Solution for the Coil Sequencing Problem in Steel Color-Coating Production. IEEE Transactions on Control Systems Technology, 2012, 20, 1409-1420.	5.2	10
84	Twoâ€stage minimax stochastic unit commitment. IET Generation, Transmission and Distribution, 2018, 12, 947-956.	2.5	10
85	Logistics optimisation of slab pre-marshalling problem in steel industry. International Journal of Production Research, 2020, 58, 4050-4070.	7.5	10
86	A Memetic Algorithm Based on Probability Learning for Solving the Multidimensional Knapsack Problem. IEEE Transactions on Cybernetics, 2022, 52, 2284-2299.	9.5	10
87	A new Lagrangian Relaxation Algorithm for scheduling dissimilar parallel machines with release dates. International Journal of Systems Science, 2011, 42, 1133-1141.	5.5	9
88	Scenario-based Modeling Approach and Scatter Search Algorithm for the Stochastic Slab Allocation Problem in Steel Industry. ISIJ International, 2014, 54, 1324-1333.	1.4	9
89	Improvement of Kriging interpolation with learning kernel in environmental variables study. International Journal of Production Research, 0, , 1-14.	7.5	9
90	Operations Research Transforms Baosteelâ€™s Operations. Interfaces, 2014, 44, 22-38.	1.5	8

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91	Integrated scheduling of loading and transportation with tractors and semitrailers separated. Naval Research Logistics, 2015, 62, 416-433.	2.2	8
92	A Scatter Search Algorithm for the Slab Stack Shuffling Problem. Lecture Notes in Computer Science, 2010, , 382-389.	1.3	8
93	An efficient optimal solution to the coil sequencing problem in electro-galvanizing line. Computers and Operations Research, 2010, 37, 1780-1796.	4.0	7
94	Parallel machine scheduling with batch deliveries to minimize total flow time and delivery cost. Naval Research Logistics, 2016, 63, 492-502.	2.2	7
95	An Estimation of Distribution Algorithm With Filtering and Learning. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1478-1491.	5.2	7
96	Multiple crane scheduling in a batch annealing process with no-delay constraints for machine unloading. Applied Mathematical Modelling, 2017, 49, 470-486.	4.2	6
97	Color-Coating Scheduling With a Multiobjective Evolutionary Algorithm Based on Decomposition and Dynamic Local Search. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1590-1601.	5.2	6
98	Low Carbon Iron-making Supply Chain Planning in Steel Industry. Industrial & Engineering Chemistry Research, 2014, 53, 18326-18338.	3.7	5
99	Black box operation optimization of basic oxygen furnace steelmaking process with derivative free optimization algorithm. Computers and Chemical Engineering, 2021, 150, 107311.	3.8	5
100	Improving the efficiency of iron and steel purchasing using supply chain coordination. International Journal of Operational Research, 2007, 2, 98.	0.2	4
101	Continuous-time formulation and differential evolution algorithm for an integrated batching and scheduling problem in aluminium industry. International Journal of Production Research, 2021, 59, 3169-3184.	7.5	4
102	Production Scheduling with Power Price Coordination in Steel Industry. , 2010, , .		3
103	An operation optimization method based on improved EDA for BOF end-point control. , 2016, , .		3
104	A Multi-Objective Evolutionary Algorithm for Multi-Energy Allocation Problem Considering Production Changeover in the Integrated Iron and Steel Enterprise. IEEE Access, 2019, 7, 40428-40444.	4.2	3
105	M/PH/C queue under a congestion-based staffing policy with applications in steel industryÂoperations. International Journal of Production Research, 2021, 59, 1319-1330.	7.5	3
106	Benders approach for the raw material transportation scheduling problem in steel industry. , 2013, , .		2
107	Soft constraint handling for a real-world multiobjective energy distribution problem. International Journal of Production Research, 2020, 58, 6061-6077.	7.5	2
108	A graph partitioning based cooperative coevolution for the batching problem in steelmaking production. International Journal of Production Research, 2022, 60, 5876-5891.	7.5	2

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109	Optimal plate design problem in steel production. International Journal of Production Research, 2023, 61, 1575-1590.	7.5	2
110	Color-Coating Production Scheduling in the Steel Industry. , 0, , .		1
111	A Lagrangian relaxation for flexible order batching problem in iron and steel industry. , 2008, , .		1
112	A Lagrangian Relaxation based heuristic approach for steel grade assignment problem. , 2008, , .		1
113	A simplified scatter search for a special single machine scheduling problem to minimize total weighted tardiness. , 2009, , .		1
114	An Effective Tabu Search Based Algorithm for Integrated Pickling-Rolling Scheduling and Coil Shuffling in Iron and Steel Industry. , 2009, , .		1
115	Modeling and an ILP-Based Algorithm Framework for the Slab Stack Shuffling Problem Considering Crane Scheduling. , 2010, , .		1
116	Integer programming model and dynamic programming based heuristic algorithm for the heavy plate shuffling problem in the Iron and steel industry. , 2010, , .		1
117	On-line Energy Allocation Based on Approximate Dynamic Programming for Iron and Steel Industry. ISIJ International, 2016, 56, 2214-2223.	1.4	1
118	A differential evolution algorithm with double-mode crossover for supply chain scheduling in cold rolling. , 2016, , .		1
119	A subpopulation-based differential evolution algorithm for scheduling with batching decisions in steelmaking-continuous casting production. , 2016, , .		1
120	Global Method for a Class of Operation Optimization Problem in Steel Rolling Systems. Industrial & Engineering Chemistry Research, 2019, 58, 5552-5566.	3.7	1
121	The refining scheduling problem with crane non-collision constraint in steelmaking process. , 2008, , .		0
122	The coordinated scheduling of steelmaking with multi-refining and tandem transportation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14870-14875.	0.4	0
123	Hot rolling turn scheduling using Lagrangian relaxation. , 2009, , .		0
124	A multi-objective differential evolution algorithm with memory based population construction. , 2016, , .		0