

Johan Springael

List of Publications by Year in descending order

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44
papers

1,715
citations

430442

18
h-index

276539

41
g-index

47
all docs

47
docs citations

47
times ranked

1414
citing authors

#	ARTICLE	IF	CITATIONS
1	PROMETHEE and AHP: The design of operational synergies in multicriteria analysis.. European Journal of Operational Research, 2004, 153, 307-317.	3.5	617
2	A metaheuristic for the school bus routing problem with bus stop selection. European Journal of Operational Research, 2013, 229, 518-528.	3.5	128
3	Soliton Equations and Simple Combinatorics. Acta Applicandae Mathematicae, 2008, 102, 147-178.	0.5	125
4	On a direct bilinearization method: Kaup's higher-order water wave equation as a modified nonlocal Boussinesq equation. Journal of Physics A, 1994, 27, 5325-5334.	1.6	88
5	On a direct procedure for the disclosure of Lax pairs and Bäcklund transformations. Chaos, Solitons and Fractals, 2001, 12, 2821-2832.	2.5	73
6	Classical Darboux transformations and the KP hierarchy. Inverse Problems, 2001, 17, 1067-1074.	1.0	73
7	Simulation with system dynamics and fuzzy reasoning of a tax policy to reduce CO2 emissions in the residential sector. European Journal of Operational Research, 2008, 185, 1285-1299.	3.5	56
8	Metaheuristics for the risk-constrained cash-in-transit vehicle routing problem. European Journal of Operational Research, 2015, 244, 457-470.	3.5	50
9	MISTRAL: A game-theoretical model to allocate security measures in a multi-modal chemical transportation network with adaptive adversaries. Reliability Engineering and System Safety, 2015, 138, 105-114.	5.1	46
10	The k-dissimilar vehicle routing problem. European Journal of Operational Research, 2015, 244, 129-140.	3.5	43
11	Construction of Bäcklund Transformations with Binary Bell Polynomials. Journal of the Physical Society of Japan, 1997, 66, 2211-2213.	0.7	41
12	A large neighbourhood metaheuristic for the risk-constrained cash-in-transit vehicle routing problem. Computers and Operations Research, 2017, 78, 547-556.	2.4	29
13	The performance of beer packaging: Vibration damping and thermal insulation. Food Packaging and Shelf Life, 2017, 11, 91-97.	3.3	29
14	Sustainability indicators for biobased chemicals: A Delphi study using Multi-Criteria Decision Analysis. Resources, Conservation and Recycling, 2019, 144, 198-208.	5.3	25
15	The zero-emission certificates: A novel CO2-pollution reduction instrument applied to the electricity market. European Journal of Operational Research, 2004, 153, 386-399.	3.5	24
16	An integrated techno-sustainability assessment (TSA) framework for emerging technologies. Green Chemistry, 2021, 23, 1700-1715.	4.6	23
17	Reducing postharvest losses of apples: Optimal transport routing (while minimizing total costs). Computers and Electronics in Agriculture, 2018, 146, 136-144.	3.7	22
18	Vibration and shock analysis of specific events during truck and train transport of food products. Food Packaging and Shelf Life, 2018, 15, 95-104.	3.3	18

#	ARTICLE	IF	CITATIONS
19	A biobjective decision model to increase security and reduce travel costs in the cash&in&transit sector. <i>International Transactions in Operational Research</i> , 2017, 24, 59-76.	1.8	17
20	Measurement and analysis of vibration and shock levels for truck transport in Belgium with respect to packaged beer during transit. <i>Food Packaging and Shelf Life</i> , 2018, 15, 134-143.	3.3	17
21	Opening the research agenda for selection of hot spots for human biomonitoring research in Belgium: a participatory research project. <i>Environmental Health</i> , 2010, 9, 33.	1.7	16
22	Policy interpretation of human biomonitoring research results in Belgium: priorities and complexity, politics and science. <i>Environmental Policy and Governance</i> , 2009, 19, 115-129.	2.1	15
23	On the Hirota Representation of Soliton Equations with One Tau-Function. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 605-608.	0.7	14
24	The interaction effect between vibrations and temperature simulating truck transport on the flavor stability of beer. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 2165-2174.	1.7	14
25	Bilinearization of the non-local Boussinesq equation. <i>Journal of Physics A</i> , 1995, 28, 5963-5972.	1.6	12
26	On modified NLS, Kaup and NLBq equations: differential transformations and bilinearization. <i>Journal of Physics A</i> , 1997, 30, 8705-8717.	1.6	11
27	A Bäcklund transformation and nonlinear superposition formula for the Lotka-Volterra hierarchy. <i>ANZIAM Journal</i> , 2002, 44, 121-128.	0.3	11
28	Binary Bell polynomials and Darboux covariant Lax pairs. <i>Glasgow Mathematical Journal</i> , 2001, 43, 53-63.	0.2	10
29	Design of a chemical batch plant with parallel production lines: Plant configuration and cost effectiveness. <i>Computers and Chemical Engineering</i> , 2017, 99, 21-30.	2.0	8
30	Bilinear Characterization of Higher Order Ito-Equations. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 1222-1226.	0.7	7
31	A matheuristic approach for the design of multiproduct batch plants with parallel production lines. <i>European Journal of Operational Research</i> , 2019, 273, 933-947.	3.5	7
32	A model to simulate the overall ageing score impact of temperature and time on the sensorial quality of lager. <i>Journal of the Institute of Brewing</i> , 2019, 125, 364-373.	0.8	6
33	Decomposition approaches for the design and scheduling of multiproduct multistage batch plants with parallel lines. <i>Computers and Chemical Engineering</i> , 2019, 127, 111-126.	2.0	6
34	Towards statistical multicriteria decision modelling: a first approach. <i>Journal of Multi-Criteria Decision Analysis</i> , 2002, 11, 305-313.	1.0	5
35	Negotiated Complexity: Framing Multi-Criteria Decision Support in Environmental Health Practice. <i>American Journal of Operations Research</i> , 2013, 03, 153-166.	0.2	5
36	Simulation D'un Marché De Certificats Verts Pour La Promotion De L'Énergie Éolienne En Belgique. <i>Infor</i> , 2002, 40, 241-258.	0.5	4

#	ARTICLE	IF	CITATIONS
37	Progressive Multi-Objective Optimization. International Journal of Information Technology and Decision Making, 2014, 13, 917-936.	2.3	4
38	An Elementary Approach to Hierarchies of Soliton Equations. Journal of the Physical Society of Japan, 2007, 76, 054005.	0.7	3
39	Extended Peer Evaluation of an Analytical Deliberative Decision Support Procedure in Environmental Health Practice. European Journal of Risk Regulation, 2014, 5, 25-35.	0.8	3
40	Win-win possibilities through capacity tariffs and battery storage in microgrids. Renewable and Sustainable Energy Reviews, 2019, 113, 109238.	8.2	3
41	Intelligent Systems in Managerial Decision Making. Intelligent Systems Reference Library, 2015, , 377-403.	1.0	1
42	A Fuzzy Methodology for Evaluating a Market of Tradable CO ₂ -Permits. , 2005, , 149-173.		0
43	Tackling the complexity of designing multiproduct multistage batch plants with parallel lines: the application of a cooperative optimization approach. Computer Aided Chemical Engineering, 2018, 43, 979-984.	0.3	0
44	Design of a chemical batch plant: a study of dedicated parallel lines with intermediate storage and the plant performance. Computer Aided Chemical Engineering, 2016, , 739-744.	0.3	0