Alastair S Wood

List of Publications by Year
in descending order

21 papers	476 citations	1163117 8 h-index	1058476 14 g-index
21 all docs	21 docs citations	21 times ranked	408 citing authors

#	Article	IF	Citations
1	Kinetic parameter estimation and simulation of trickle-bed reactor for hydrodesulfurization of crude oil. Chemical Engineering Science, 2011, 66, 859-871.	3.8	93
2	Sensor-fusion of hydraulic data for burst detection and location in a treated water distribution system. Information Fusion, 2003, 4, 217-229.	19.1	81
3	Metamodel-based collaborative optimization framework. Structural and Multidisciplinary Optimization, 2009, 38, 103-115.	3.5	74
4	Kinetic model development and simulation of simultaneous hydrodenitrogenation and hydrodemetallization of crude oil in trickle bed reactor. Fuel, 2011, 90, 2165-2181.	6.4	69
5	Improvement of the Middle Distillate Yields during Crude Oil Hydrotreatment in a Trickle-Bed Reactor. Energy & Fuels, 2011, 25, 773-781.	5.1	33
6	Species based evolutionary algorithms for multimodal optimization: A brief review. , 2010, , .		30
7	Review of Suspended Sediment Transport Mathematical Modelling Studies. Fluids, 2022, 7, 23.	1.7	22
8	Whole Crude Oil Hydrotreating from Small-Scale Laboratory Pilot Plant to Large-Scale trickle-Bed Reactor: Analysis of Operational Issues through Modeling. Energy & Fuels, 2012, 26, 629-641.	5.1	20
9	An adaptive species conservation genetic algorithm for multimodal optimization. International Journal for Numerical Methods in Engineering, 2009, 79, 1633-1661.	2.8	14
10	Application of permutation genetic algorithm for sequential model building–model validation design of experiments. Soft Computing, 2016, 20, 3023-3044.	3.6	8
11	Enhancement of Productivity of Distillate Fractions by Crude Oil Hydrotreatment: Development of Kinetic Model for the Hydrotreating Process. Computer Aided Chemical Engineering, 2011, , 261-265.	0.5	7
12	Hybrid Genetic Algorithm (GA) for job shop scheduling problems and its sensitivity analysis. International Journal of Intelligent Systems Technologies and Applications, 2012, 11, 49.	0.2	6
13	PermGA algorithm for a sequential optimal space filling DoE framework. , 2014, , .		5
14	Use of Global Approximations in the Collaborative Optimization Framework. , 2004, , .		3
15	Species-conserving particle swarm optimisation for multimodal functions. International Journal of Modelling, Identification and Control, 2009, 8, 290.	0.2	3
16	Reliability-inspired species conservation for multimodal functions. , 2010, , .		3
17	Simulation and Modeling of Bi-Fuel Engine for Improving the Performance Parameters. , 2010, , .		2
18	Economic Analysis of an Industrial Refining Unit Involving Hydrotreatment of Whole Crude Oil in Trickle Bed Reactor using gPROMS. Computer Aided Chemical Engineering, 2012, 30, 652-656.	0.5	2

#	Article	IF	Citations
19	Modelling and Optimization of Crude Oil Hydrotreating Process in Trickle Bed Reactor: Energy Consumption and Recovery Issues. Chemical Product and Process Modeling, 2011, 6, .	0.9	1
20	Editorial: Special Issue of CAPE FORUM 2011. Chemical Product and Process Modeling, 2011, 6, .	0.9	0
21	Detoxification of Crude Oil. Green Energy and Technology, 2018, , 173-194.	0.6	0