Edward S Blurock

List of Publications by Year
in descending order

22	494	949033 11	939365 18
papers	citations	h-index	g-index

24	24	24	452
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hexadecane mechanisms: Comparison of hand-generated and automatically generated with pathways. Fuel, 2014, 115, 132-144.	3.4	9
2	Modeling Combustion with Detailed Kinetic Mechanisms. Green Energy and Technology, 2013, , 17-57.	0.4	4
3	Automatic Generation of Detailed Mechanisms. Green Energy and Technology, 2013, , 59-92.	0.4	18
4	JTHERGAS: Thermodynamic estimation from 2D graphical representations of molecules. Energy, 2012, 43, 161-171.	4.5	12
5	Towards cleaner combustion engines through groundbreaking detailed chemical kinetic models. Chemical Society Reviews, 2011, 40, 4762.	18.7	111
6	Phase optimized skeletal mechanisms for engine simulations. Combustion Theory and Modelling, 2010, 14, 295-313.	1.0	11
7	AUTOMATIC GENERATION OF A DETAILED MECHANISM FOR THE OXIDATION OF n-DECANE. Combustion Science and Technology, 2006, 178, 2025-2038.	1.2	33
8	Automatic characterization of ignition processes with machine learning clustering techniques. International Journal of Chemical Kinetics, 2006, 38, 621-633.	1.0	6
9	Phase Optimized Skeletal Mechanisms in a Stochastic Reactor Model for Engine Simulation. , 2005, , .		4
10	Detailed Mechanism Generation. Part 1. Generalized Reactive Properties as Reaction Class Substructures.. ChemInform, 2004, 35, no.	0.1	0
11	Detailed Mechanism Generation. Part 2. Aldehydes, Ketones, and Olefins.. ChemInform, 2004, 35, no.	0.1	0
12	Detailed Mechanism Generation. 2. Aldehydes, Ketones, and Olefins. Journal of Chemical Information and Computer Sciences, 2004, 44, 1348-1357.	2.8	18
13	Detailed Mechanism Generation. 1. Generalized Reactive Properties as Reaction Class Substructures. Journal of Chemical Information and Computer Sciences, 2004, 44, 1336-1347.	2.8	32
14	Characterizing complex reaction mechanisms using machine learning clustering techniques. International Journal of Chemical Kinetics, 2003, 36, 107-118.	1.0	7
15	Towards dynamically reduced mechanisms based on domain splitting. , 2003, , 1430-1433.		0
16	Use of Atomic and Bond Parameters in a Spectral Representation of a Molecule for Physical Property Determination. Journal of Chemical Information and Computer Sciences, 1998, 38, 1111-1118.	2.8	3
17	Automatic learning of chemical concepts: Research octane number and molecular substructures. Computers & Chemistry, 1995, 19, 91-99.	1.2	14
18	Reaction: System for Modeling Chemical Reactions. Journal of Chemical Information and Computer Sciences, 1995, 35, 607-616.	2.8	88

#	Article	IF	Citations
19	Computer-aided synthesis design at RISC-Linz: automatic extraction and use of reaction classes. Journal of Chemical Information and Computer Sciences, 1990, 30, 505-510.	2.8	32
20	Computer aided organic synthesis: Development and implementation of a complete synthetic strategy. Tetrahedron Computer Methodology, 1989, 2, 207-222.	0.2	7
21	Molecular orbital theory of the properties of inorganic and organometallic compounds. 2. STO-NG basis sets for fourth-row main-group elements. Inorganic Chemistry, 1981, 20, 3650-3654.	1.9	60
22	Structure of C4H7+. Journal of the American Chemical Society, 1979, 101, 5537-5539.	6.6	24