Edward S Blurock

List of Publications by Year
in descending order

22 papers	494 citations	840585 11 h-index	839398 18 g-index
24 all docs	24 docs citations	24 times ranked	382 citing authors

#	Article	IF	Citations
1	Towards cleaner combustion engines through groundbreaking detailed chemical kinetic models. Chemical Society Reviews, 2011, 40, 4762.	18.7	111
2	Reaction: System for Modeling Chemical Reactions. Journal of Chemical Information and Computer Sciences, 1995, 35, 607-616.	2.8	88
3	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
4	AUTOMATIC GENERATION OF A DETAILED MECHANISM FOR THE OXIDATION OF n-DECANE. Combustion Science and Technology, 2006, 178, 2025-2038.	1.2	33
5	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
6	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
7	Structure of C4H7+. Journal of the American Chemical Society, 1979, 101, 5537-5539.	6.6	24
8	Detailed Mechanism Generation. 2. Aldehydes, Ketones, and Olefins. Journal of Chemical Information and Computer Sciences, 2004, 44, 1348-1357.	2.8	18
9	Automatic Generation of Detailed Mechanisms. Green Energy and Technology, 2013, , 59-92.	0.4	18
10	Automatic learning of chemical concepts: Research octane number and molecular substructures. Computers & Chemistry, 1995, 19, 91-99.	1.2	14
11	JTHERGAS: Thermodynamic estimation from 2D graphical representations of molecules. Energy, 2012, 43, 161-171.	4.5	12
12	Phase optimized skeletal mechanisms for engine simulations. Combustion Theory and Modelling, 2010, 14, 295-313.	1.0	11
13	Hexadecane mechanisms: Comparison of hand-generated and automatically generated with pathways. Fuel, 2014, 115, 132-144.	3.4	9
14	Computer aided organic synthesis: Development and implementation of a complete synthetic strategy. Tetrahedron Computer Methodology, 1989, 2, 207-222.	0.2	7
15	Characterizing complex reaction mechanisms using machine learning clustering techniques. International Journal of Chemical Kinetics, 2003, 36, 107-118.	1.0	7
16	Automatic characterization of ignition processes with machine learning clustering techniques. International Journal of Chemical Kinetics, 2006, 38, 621-633.	1.0	6
17	Phase Optimized Skeletal Mechanisms in a Stochastic Reactor Model for Engine Simulation. , 2005, , .		4
18	Modeling Combustion with Detailed Kinetic Mechanisms. Green Energy and Technology, 2013, , 17-57.	0.4	4

#	Article	IF	Citations
19	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
20	Detailed Mechanism Generation. Part 1. Generalized Reactive Properties as Reaction Class Substructures.. ChemInform, 2004, 35, no.	0.1	0
21	Detailed Mechanism Generation. Part 2. Aldehydes, Ketones, and Olefins.. ChemInform, 2004, 35, no.	0.1	0
22	Towards dynamically reduced mechanisms based on domain splitting. , 2003, , 1430-1433.		0