# Edward S Blurock

List of Publications by Year
in descending order

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|---|---|---|---|
| 22 papers | 494 citations | 840585<br>11 h-index | 839398<br>18 g-index |
| 24 all docs | 24 docs citations | 24 times ranked | 382 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 |