David M Birney

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3357069/publications.pdf

Version: 2024-02-01

47	2,006	218381	233125
papers	citations	26 h-index	45 g-index

49	49	49	1253
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A pseudopericyclic [3,5]-sigmatropic rearrangement of a coumarin trichloroacetimidate derivative. Organic and Biomolecular Chemistry, 2018, 16, 874-879.	1.5	3
2	A Computational Study on the Addition of HONO to Alkynes toward the Synthesis of Isoxazoles; a Bifurcation, Pseudopericyclic Pathways and a Barrierless Reaction on the Potential Energy Surface. Journal of Organic Chemistry, 2017, 82, 8873-8881.	1.7	7
3	Competitive Pseudopericyclic [3,3]- and [3,5]-Sigmatropic Rearrangements of Trichloroacetimidates. Journal of Organic Chemistry, 2015, 80, 11734-11743.	1.7	17
4	An efficient synthesis of 4-substituted coumarin derivatives via a palladium-catalyzed Suzuki cross-coupling reaction. Tetrahedron Letters, 2014, 55, 6627-6630.	0.7	14
5	Optimizing esterification of safflower, cottonseed, castor and used cottonseed oils. Industrial Crops and Products, 2013, 41, 102-106.	2.5	16
6	Experimental and Computational Studies on the [3,3]- and [3,5]-Sigmatropic Rearrangements of Acetoxycyclohexadienones: A Non-ionic Mechanism for Acyl Migration. Journal of the American Chemical Society, 2013, 135, 14438-14447.	6.6	23
7	Selective oxygenation of olefins with hydrogen peroxide catalyzed by iron(II) bipyridine complex included in NaY zeolite under visible light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 266, 22-27.	2.0	5
8	Viscosity reduction of castor oil esters by the addition of diesel, safflower oil esters and additives. Industrial Crops and Products, 2012, 36, 267-270.	2.5	22
9	Potential Energy Surface for (Retro-)Cyclopropanation: Metathesis with a Cationic Gold Complex. Journal of the American Chemical Society, 2011, 133, 12162-12171.	6.6	72
10	Sodium carbonate as a solid-phase reagent for the generation of acetylketene. Tetrahedron Letters, 2009, 50, 1295-1297.	0.7	10
11	Multiphoton Infrared Initiated Thermal Reactions of Esters: Pseudopericyclic Eight-Centered cis-Elimination. Journal of the American Chemical Society, 2009, 131, 528-537.	6.6	29
12	Cyclohexane Isomerization. Unimolecular Dynamics of the Twist-Boat Intermediate. Journal of Physical Chemistry A, 2009, 113, 4570-4580.	1.1	35
13	A Computational Study of the Formation and Dimerization of Benzothiet-2-one. Organic Letters, 2008, 10, 245-248.	2.4	10
14	Photochemical dehydration of acetamide in a cryogenic matrix. Physical Chemistry Chemical Physics, 2007, 9, 1099.	1.3	26
15	Stopped-Flow Kinetics of Tetrazine Cycloadditions; Experimental and Computational Studies toward Sequential Transition Statesâ€. Journal of Physical Chemistry A, 2006, 110, 1288-1294.	1.1	31
16	A Theoretical Study of the [4 + 4] Dimerization of Thioformylketene. Organic Letters, 2005, 7, 5817-5820.	2.4	8
17	Experimental and Theoretical Studies of the Dimerizations of Imidoylketenes. Journal of Organic Chemistry, 2004, 69, 86-94.	1.7	32
18	Experimental Support for Planar Pseudopericyclic Transition States in Thermal Cheletropic Decarbonylations. Organic Letters, 2004, 6, 4289-4292.	2.4	41

#	Article	IF	Citations
19	Nitrosation of Amides Involves a Pseudopericyclic 1,3-Sigmatropic Rearrangement. Organic Letters, 2004, 6, 851-854.	2.4	30
20	The Stereochemistry of the Thermal Cheletropic Decarbonylation of 3-Cyclopentenone As Determined by Multiphoton Infrared Photolysis/Thermolysis. Journal of the American Chemical Society, 2003, 125, 8529-8533.	6.6	22
21	Sequential Transition States and the Valleyâ˜Ridge Inflection Point in the Formation of a Semibullvalene. Organic Letters, 2002, 4, 3279-3282.	2.4	29
22	A Density Functional Theory Study Clarifying the Reactions of Conjugated Ketenes with Formaldimine. A Plethora of Pericyclic and Pseudopericyclic Pathways. Journal of the American Chemical Society, 2002, 124, 5231-5241.	6.6	91
23	Structural Investigations into theretro-Diels-Alder Reaction. Experimental and Theoretical Studies. Journal of the American Chemical Society, 2002, 124, 5091-5099.	6.6	66
24	Experimental and Theoretical Studies on the Thermal Decomposition of Heterocyclic Nitrosimines1. Journal of the American Chemical Society, 2001, 123, 7479-7486.	6.6	37
25	Reinvestigation of the Reactions of Camphorketene:Â Structural Evidence for Pseudopericyclic Pathways1. Journal of Organic Chemistry, 2001, 66, 5832-5839.	1.7	61
26	Felkinâ˜Anh Stereoselectivity in Cycloadditions of Acetylketene:Â Evidence for a Concerted, Pseudopericyclic Pathway. Journal of Organic Chemistry, 2000, 65, 7731-7739.	1.7	44
27	Design of Experiments (about J. Chem. Educ. 1999, 76, 1560-1561). Journal of Chemical Education, 2000, 77, 1557.	1.1	0
28	Electrocyclic Ring Openings of 2-Furylcarbene and Related Carbenes:Â A Comparison between Pseudopericyclic and Coarctate Reactions. Journal of the American Chemical Society, 2000, 122, 10917-10925.	6.6	96
29	Orthoquinone monoketal chemistry. Experimental and density functional theory studies on orthoquinol acetate rearrangements. Tetrahedron Letters, 1999, 40, 615-618.	0.7	49
30	[1,3], [3,3], and [3,5] Sigmatropic Rearrangements of Esters Are Pseudopericyclic. Angewandte Chemie - International Edition, 1999, 38, 189-193.	7.2	88
31	Parallel Combinatorial Esterification: A Simple Experiment for Use in the Second-Semester Organic Chemistry Laboratory. Journal of Chemical Education, 1999, 76, 1560.	1.1	36
32	[1,3], [3,3], and [3,5] Sigmatropic Rearrangements of Esters Are Pseudopericyclic. , 1999, 38, 189.		3
33	Pericyclic and Pseudopericyclic Thermal Cheletropic Decarbonylations:Â When Can a Pericyclic Reaction Have a Planar, Pseudopericyclic Transition State?1. Journal of the American Chemical Society, 1997, 119, 4509-4517.	6.6	140
34	Chemoselectivity in the Reactions of Acetylketene and Acetimidoylketene:Â Confirmation of Theoretical Predictions. Journal of Organic Chemistry, 1997, 62, 7114-7120.	1.7	74
35	FTIR andab InitioStudies of Gaseous Nitrosoketene via Pyrolysis of Isonitroso Meldrum's Acid. Journal of Physical Chemistry A, 1997, 101, 3936-3941.	1.1	22
36	Further ab initio studies on the reactivity of nitrosoketene. Tetrahedron Letters, 1997, 38, 5925-5928.	0.7	14

#	Article	IF	Citations
37	Further Pseudopericyclic Reactions:Â Anab InitioStudy of the Conformations and Reactions of 5-Oxo-2,4-pentadienal and Related Molecules. Journal of Organic Chemistry, 1996, 61, 243-251.	1.7	114
38	Imidoylketene:â€‰ An ab Initio Study of Its Conformations and Reactions. Journal of Organic Chemistry, 1996, 61, 3962-3968.	1.7	36
39	On the Development of Aromaticity in Cycloadditions: Ab Initio Transition Structures for the Trimerization of Acetylene and for the Addition of Ethylene and Acetylene to Formyl ketene. Journal of Organic Chemistry, 1995, 60, 2853-2859.	1.7	57
40	An ab initio study of the reactivity of nitrosoketene with formaldehyde. Tetrahedron Letters, 1994, 35, 8113-8116.	0.7	20
41	Conformations and Infrared Spectra of .alpha.-Oxo Ketenes from ab Initio Calculations: The Role of Electrostatics. Journal of Organic Chemistry, 1994, 59, 2557-2564.	1.7	31
42	An ab Initio Study of the Reactivity of Formylketene. Pseudopericyclic Reactions Revisited. Journal of the American Chemical Society, 1994, 116, 6262-6270.	6.6	150
43	Transition structures of the Lewis acid-catalyzed Diels-Alder reaction of butadiene with acrolein. The origins of selectivity. Journal of the American Chemical Society, 1990, 112, 4127-4133.	6.6	196
44	Geometry of the transition state of the decarbonylation of bicyclo[2.2.1]hepta-2,5-dien-7-one. Experimental and ab initio theoretical studies. Journal of the American Chemical Society, 1988, 110, 6631-6642.	6.6	14
45	Synthesis of the covalent benzene-carbon monoxide cycloadduct, norborna-2,5-dien-7-one. Tetrahedron, 1986, 42, 1561-1570.	1.0	30
46	Norborna-2,5-dien-7-one: a covalent benzene-carbon monoxide adduct. A new point on the cycloreversion structure-reactivity correlation curve. Journal of the American Chemical Society, 1985, 107, 4553-4554.	6.6	27
47	Kinetics of nucleophilic addition of tertiary phosphines to dicarbonylnitrosyl(cyclobutadiene)iron cation and tricarbonyl(cycloheptatriene)manganese cation. Journal of Organometallic Chemistry, 1978, 152, 187-192.	0.8	17