

Holger F Bettinger

List of Publications by Year in descending order

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173
papers

6,145
citations

57758

44
h-index

91884

69
g-index

194
all docs

194
docs citations

194
times ranked

4882
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution Phase Reactivity of Dibenzo[c,e][1,2]azaborinine: Activation and Insertion into Si–E Single Bonds (E=H, OSi(CH ₃) ₃ , F, Cl) by a BN–Aryne. Chemistry - A European Journal, 2022, 28, .	3.3	6
2	Bright Luminescence by Combining Chiral [2.2]Paracyclophane with a Boron–Nitrogen–Doped Polyaromatic Hydrocarbon Building Block. Chemistry - A European Journal, 2022, 28, .	3.3	16
3	Kinetic stabilization allows structural analysis of a benzoborirene. Chemical Communications, 2022, 58, 2818-2821.	4.1	8
4	Hexacene on Cu(110) and Ag(110): Influence of the Substrate on Molecular Orientation and Interfacial Charge Transfer. Journal of Physical Chemistry C, 2022, 126, 5036-5045.	3.1	7
5	Germaboranes: Borylene Transfer Agents for the Synthesis of Iminoboranes. Chemistry - A European Journal, 2021, 27, 1981-1983.	3.3	15
6	Hydrogen adsorption on inorganic benzenes decorated with alkali metal cations: theoretical study. Physical Chemistry Chemical Physics, 2021, 23, 5315-5324.	2.8	14
7	B3N3-Substituted Nanographene Molecules: Influence of Planarity on the Electronic Structure and Molecular Orientation in Thin Films. ACS Applied Electronic Materials, 2021, 3, 825-837.	4.3	3
8	Going beyond Pentacene: Photoemission Tomography of a Heptacene Monolayer on Ag(110). Journal of Physical Chemistry C, 2021, 125, 2918-2925.	3.1	7
9	Frontispiece: Pushing the Limits of Acene Chemistry: The Recent Surge of Large Acenes. Chemistry - A European Journal, 2021, 27, .	3.3	0
10	Demonstrating the Impact of the Adsorbate Orientation on the Charge Transfer at Organic–Metal Interfaces. Journal of Physical Chemistry C, 2021, 125, 9129-9137.	3.1	10
11	Singlet Fission in Dideuterated Tetracene and Pentacene. ChemPhotoChem, 2021, 5, 758-763.	3.0	3
12	Synthesis of the [11]Cyclacene Framework by Repetitive Diels–Alder Cycloadditions. Molecules, 2021, 26, 3047.	3.8	1
13	Heteroatom Cycloaddition at the (BN) 2 Bay Region of Dibenzoperylene. Angewandte Chemie, 2021, 133, 15932-15936.	2.0	3
14	Intermediate-size fullerenes as degradation products of interstellar polycyclic aromatic hydrocarbons. Astronomy and Astrophysics, 2021, 650, A193.	5.1	11
15	Heteroatom Cycloaddition at the (BN) 2 Bay Region of Dibenzoperylene. Angewandte Chemie - International Edition, 2021, 60, 15798-15802.	13.8	6
16	Permanent Dipole Moments Enhance Electronic Coupling and Singlet Fission in Pentacene. Journal of Physical Chemistry Letters, 2021, 12, 7453-7458.	4.6	9
17	The Reaction of CO ₂ with a Borylnitrene: Formation of an Oxaziridinone. Angewandte Chemie - International Edition, 2021, 60, 23112-23116.	13.8	7
18	The Reaction of CO ₂ with a Borylnitrene: Formation of an Oxaziridinone. Angewandte Chemie, 2021, 133, 23296.	2.0	0

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19	Energetics of Formation of Cyclacenes from 2,3-Didehydroacenes and Implications for Astrochemistry. Chemistry - A European Journal, 2021, 27, 4605-4616.	3.3	7
20	Pushing the Limits of Acene Chemistry: The Recent Surge of Large Acenes. Chemistry - A European Journal, 2021, 27, 3193-3212.	3.3	83
21	Unusual Nitrene Oxidation Product Formation by Metathesis Involving the Dioxygen O ² and Borylnitrene B-N Bonds. Chemistry - A European Journal, 2020, 26, 12654-12663.	3.3	7
22	Impact of fluorination on interface energetics and growth of pentacene on Ag(111). Beilstein Journal of Nanotechnology, 2020, 11, 1361-1370.	2.8	4
23	Energy Level Engineering in Organic Thin Films by Tailored Halogenation. Advanced Functional Materials, 2020, 30, 2002987.	14.9	9
24	Visualization of the Borazine Core of B ₃ N ₃ -Doped Nanographene by STM. ACS Applied Materials & Interfaces, 2020, 12, 19218-19225.	8.0	15
25	Embedding a boroxazine ring into a nanographene scaffold by a concise bottom-up synthetic strategy. Chemical Communications, 2020, 56, 3847-3850.	4.1	9
26	Modulating the Electronic and Solid-State Structure of Organic Semiconductors by Site-Specific Substitution: The Case of Tetrafluoropentacenes. Chemistry - A European Journal, 2020, 26, 3420-3434.	3.3	16
27	A Free-Radical Prompted Barrierless Gas-Phase Synthesis of Pentacene. Angewandte Chemie, 2020, 132, 11430-11434.	2.0	5
28	A Free-Radical Prompted Barrierless Gas-Phase Synthesis of Pentacene. Angewandte Chemie - International Edition, 2020, 59, 11334-11338.	13.8	16
29	Correlation between UV resilience and wavelength of narrow diffuse interstellar bands. Astronomy and Astrophysics, 2020, 637, A74.	5.1	4
30	Synthesis and Photodimerization of 2- and 2,3-Disubstituted Anthracenes: Influence of Steric Interactions and London Dispersion on Diastereoselectivity. Journal of Organic Chemistry, 2019, 84, 10120-10135.	3.2	14
31	Accessing 1,2-Substituted Cyclobutanes through 1,2-Azaborine Photoisomerization. Angewandte Chemie - International Edition, 2019, 58, 18918-18922.	13.8	30
32	Accessing 1,2-Substituted Cyclobutanes through 1,2-Azaborine Photoisomerization. Angewandte Chemie, 2019, 131, 19094-19098.	2.0	8
33	Highly Oriented Hexacene Molecules Grown in Thin Films on Cu(110)-(2 × 1)O. Journal of Physical Chemistry C, 2019, 123, 27672-27680.	3.1	7
34	New Synthesis of a Dibenzoperylene Motif Featuring a Doubly Boron-Nitrogen-Doped Bay Region. Synthesis, 2019, 51, 4147-4152.	2.3	8
35	Photo electron transfer induced desilylation of N-bis(trimethylsilyl)aminodibenzoborole to aminodibenzoborole. Chemical Communications, 2019, 55, 7470-7473.	4.1	6
36	Polyacenes and diffuse interstellar bands. Astronomy and Astrophysics, 2019, 625, A41.	5.1	28

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37	Superelectrophilicity of 1,2-Azaborine: Formation of Xenon and Carbon Monoxide Adducts. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4061-4064.	13.8	16
38	Superelektrophilie des 1,2-Azaborins: Bildung von Addukten mit Xenon und Kohlenmonoxid. <i>Angewandte Chemie</i> , 2019, 131, 4103-4106.	2.0	4
39	Diels-Alder adduct formation at solid interfaces between fullerenes and acenes. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 034003.	1.8	4
40	The Dewar Isomer of 1,2-Dihydro-1,2-Azaborinines: Isolation, Fragmentation, and Energy Storage. <i>Angewandte Chemie</i> , 2018, 130, 5394-5398.	2.0	11
41	Bridging the Gap between Pentacene and Perfluoropentacene: Synthesis and Characterization of 2,3,9,10-Tetrafluoropentacene in the Neutral, Cationic, and Dicationic States. <i>Journal of Organic Chemistry</i> , 2018, 83, 3149-3158.	3.2	24
42	The Dewar Isomer of 1,2-Dihydro-1,2-Azaborinines: Isolation, Fragmentation, and Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5296-5300.	13.8	34
43	Borenium and boronium ions of 5,6-dihydro-dibenzo[c,e][1,2]azaborinine and the reaction with non-nucleophilic base: trapping of a dimer and a trimer of BN-phenanthryne by 4,4'-di-tert-butyl-2,2'-bipyridine. <i>Pure and Applied Chemistry</i> , 2018, 90, 711-722.	1.9	2
44	Computational Study of the Isomerization Reactions of Borirane. <i>Journal of Organic Chemistry</i> , 2018, 83, 1804-1809.	3.2	4
45	Thermal dehydrochlorination in the 4-fluoroaniline-trichloroborane system: identification of reactive intermediates involved in the formation of B ₂ B ₂ -trichloro-N,N'-tri((4-fluoro)phenyl)borazine. <i>Dalton Transactions</i> , 2018, 47, 17304-17316.	3.3	1
46	Synthesis and Ring Strain of a Benzoborirene-Heterocyclic Carbene Adduct. <i>Chemistry - A European Journal</i> , 2018, 24, 18634-18637.	3.3	8
47	Evolution of the Optical Gap in the Acene Series: Undecacene. <i>Angewandte Chemie</i> , 2018, 130, 10666-10669.	2.0	30
48	Electronic Structure of Hexacene and Interface Properties on Au(110). <i>Journal of Physical Chemistry C</i> , 2018, 122, 19491-19498.	3.1	15
49	Evolution of the Optical Gap in the Acene Series: Undecacene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10506-10509.	13.8	86
50	Resolving intramolecular-distortion changes induced by the partial fluorination of pentacene adsorbed on Cu(111). <i>Physical Review Materials</i> , 2018, 2, .	2.4	10
51	6,6'-1,1'-Tetra((triisopropylsilyl)ethynyl)-anti-[2.2](1,4)tetracenophane: a covalently coupled tetracene dimer and its structural, electrochemical, and photophysical characterization. <i>Organic Chemistry Frontiers</i> , 2017, 4, 853-860.	4.5	11
52	Cyano-Functional Group as an Anchoring Tool for Organic Small Molecules on Gold. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13660-13665.	3.1	5
53	Excited-State Deactivation Pathways and the Photocyclization of BN-Doped Polyaromatics. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5136-5146.	2.5	15
54	(Electro)chemical Oxidation of 6,13-Bis[tri(isopropyl)silylethynyl]pentacene to its Radical Cation and Dication. <i>ChemPhysChem</i> , 2017, 18, 2266-2278.	2.1	8

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55	Heptacene: Characterization in Solution, in the Solid State, and in Films. <i>Journal of the American Chemical Society</i> , 2017, 139, 4435-4442.	13.7	97
56	Photoreactions of Phenylborylene with Dinitrogen and Carbon Monoxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 15151-15159.	13.7	61
57	BN Doping and the Photochemistry of Polyaromatic Hydrocarbons: Photocyclization of Hexaphenyl Benzene and Hexaphenyl Borazine. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8359-8367.	2.5	8
58	Synthesis and Characterization of a Boron-Nitrogen Boron Zigzag-Edged Benzo[<i>a</i>]tetracene Motif. <i>Organic Letters</i> , 2017, 19, 4428-4431.	4.6	42
59	On-surface synthesis of heptacene and its interaction with a metal surface. <i>Nanoscale</i> , 2017, 9, 12461-12469.	5.6	59
60	Can HCCH/HBNH Break B-N/C-C Bonds of Single-Wall BN/Carbon Nanotubes at Their Surface?. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26044-26053.	3.1	0
61	Ring Enlargement of Three-Membered Boron Heterocycles upon Reaction with Organic π Systems: Implications for the Trapping of Borylenes. <i>Chemistry - A European Journal</i> , 2016, 22, 10661-10670.	3.3	9
62	Isomerization and fragmentation pathways of 1,2-azaborine. <i>Journal of Computational Chemistry</i> , 2016, 37, 110-116.	3.3	8
63	Electronically Excited States of Borylenes. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6332-6341.	2.5	17
64	Electronically Excited States of Higher Acenes up to Nonacene: A Density Functional Theory/Multireference Configuration Interaction Study. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 305-312.	5.3	43
65	Aufbau eines intern B ₃ N ₃ -dotierten Nanographenmoleküls. <i>Angewandte Chemie</i> , 2015, 127, 8402-8404.	2.0	31
66	1,2-Azaborine: The Boron-Nitrogen Derivative of <i>ortho</i> -Benzyne. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7819-7822.	13.8	48
67	1,2-Azaborine: The Boron-Nitrogen Derivative of <i>ortho</i> -Benzyne. <i>Angewandte Chemie</i> , 2015, 127, 7930-7933.	2.0	27
68	Construction of an Internally B ₃ N ₃ -Doped Nanographene Molecule. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8284-8286.	13.8	108
69	A nitrogen-base catalyzed generation of organotin(<i>ii</i>) hydride from an organotin trihydride under reductive dihydrogen elimination. <i>Chemical Science</i> , 2015, 6, 4737-4751.	7.4	53
70	Fingerprint of Fractional Charge Transfer at the Metal/Organic Interface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12538-12544.	3.1	24
71	Intercorrelation of Electronic, Structural, and Morphological Properties in Nanorods of 2,3,9,10-Tetrafluoropentacene. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19774-19780.	8.0	14
72	Pathways for the cyclotetramerization of dibenz[<i>c,e</i>][1,2]azaborine, a BN-phenanthryne. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 97-103.	1.9	19

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73	On-Surface Synthesis of BN-Substituted Heteroaromatic Networks. <i>ACS Nano</i> , 2015, 9, 9228-9235.	14.6	78
74	The Longest Acenes. <i>Chemical Record</i> , 2015, 15, 364-369.	5.8	71
75	Die Strukturchemie der 2-Chalkogeno-1,3,4,5-tetraisopropylimidazoline / The Structural Chemistry of the 2-Chalcogeno-1,3,4,5-tetraisopropylimidazolines. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2014, 69, 1384-1394.	0.7	0
76	Development of Metal Cyanurates: The Example of Barium Cyanurate (BCY). <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2536-2543.	2.0	24
77	Computational Study of van der Waals Complexes between Borylenes and Hydrocarbons. <i>Chemistry - A European Journal</i> , 2014, 20, 12858-12863.	3.3	4
78	Boron- π -nitrogen substituted perylene obtained through photocyclisation. <i>Chemical Communications</i> , 2014, 50, 7821-7823.	4.1	45
79	BN-Phenanthryne: Cyclotetramerization of an 1,2-Azaborine Derivative. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9380-9383.	13.8	81
80	Boryl Azides in 1,3-Dipolar Cycloadditions. <i>Journal of Organic Chemistry</i> , 2014, 79, 5478-5483.	3.2	16
81	Heptacene: Increased Persistence of a 4- π +2 π -Electron Polycyclic Aromatic Hydrocarbon by Oxidation to the 4- π -Electron Dication. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9818-9820.	13.8	57
82	Pentacene-based nanorods on Au(111) single crystals: Charge transfer, diffusion, and step-edge barriers. <i>Nano Research</i> , 2013, 6, 449-459.	10.4	14
83	Anti-[2.2](1,4)pentacenophane: A Covalently Coupled Pentacene Dimer. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11647-11650.	13.8	29
84	Beyond Pentacenes: Synthesis and Properties of Higher Acenes. <i>Topics in Current Chemistry</i> , 2013, 349, 1-30.	4.0	37
85	C-H functionalization of tetramethylsilane employing a borylnitrene. <i>Chemical Communications</i> , 2013, 49, 11773.	4.1	14
86	Mechanisms for the Formation of Acenes from β -Diketones by Bisdecarbonylation. <i>Journal of Organic Chemistry</i> , 2013, 78, 1851-1857.	3.2	18
87	Is There B-N Bond Length Alternation in 1,2:3,4:5,6-Tris(biphenylene)borazines?. <i>ChemPlusChem</i> , 2013, 78, 988-994.	2.8	22
88	The Lewis Acidity of the BO Triple Bond in Methyl(oxo)borane. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1199-1204.	1.2	2
89	Dispersion-Driven Conformational Isomerism in π -Bonded Dimers of Larger Acenes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10892-10895.	13.8	47
90	Ring opening of 2-aza-3-borabicyclo[2.2.0]hex-5-ene, the Dewar form of 1,2-dihydro-1,2-azaborine: stepwise versus concerted mechanisms. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 761-766.	2.2	9

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91	An inorganic propellane with central B-B bond. <i>Chemical Communications</i> , 2012, 48, 5886.	4.1	23
92	Photoisomerization of 1,2-Dihydro-1,2-Azaborine: A Matrix Isolation Study. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10880-10883.	13.8	41
93	Rearrangement from the heteroantiaromatic borole to the heteroaromatic azaborine motif. <i>Chemical Communications</i> , 2012, 48, 4564.	4.1	42
94	Nanoscale assembly, morphology and screening effects in nanorods of newly synthesized substituted pentacenes. <i>RSC Advances</i> , 2012, 2, 5112.	3.6	30
95	Unusual Low-Vibrational C=O Mode of COOH Can Distinguish between Carboxylated Zigzag and Armchair Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26072-26083.	3.1	13
96	Thermal Generation of Pentacenes from Soluble 6,13-Dihydro-6,13-ethenopentacene Precursors by a Diels-Alder-retro-Diels-Alder Sequence with 3,6-Disubstituted Tetrazines. <i>Journal of Organic Chemistry</i> , 2012, 77, 3538-3542.	3.2	22
97	Reactivity of Borylenes toward Ethyne, Ethene, and Methane. <i>Journal of the American Chemical Society</i> , 2012, 134, 17094-17103.	13.7	27
98	C-H Bond Amination by Photochemically Generated Transient Borylnitrenes at Room Temperature: A Combined Experimental and Theoretical Investigation of the Insertion Mechanism and Influence of Substituents. <i>Organometallics</i> , 2012, 31, 3894-3903.	2.3	30
99	The Overcrowded Borazine Derivative of Hexabenzotriphenylene Obtained through Dehydrohalogenation. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4634-4639.	2.4	27
100	B ₃ N ₃ Borazine Substitution in Hexa-peri-Hexabenzocoronene: Computational Analysis and Scholl Reaction of Hexaphenylborazine. <i>ChemPhysChem</i> , 2012, 13, 1173-1181.	2.1	47
101	The Influence of Terminal Push-Pull Substitution on the Electronic Structure and Optical Properties of Pentacenes. <i>Chemistry - A European Journal</i> , 2012, 18, 1789-1799.	3.3	23
102	Noble Gas Atoms as Electron Donors: Is the Stabilization of Strongly Electrophilic Borylnitrenes Feasible?. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 2169-2174.	1.2	6
103	The Oxyallyl Diradical: Observation of the Singlet and Triplet State by Negative-Ion Photoelectron Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 670-671.	13.8	16
104	Photogeneration of Octacene and Nonacene. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4125-4128.	13.8	317
105	Electronic structure of higher acenes and polyacene: The perspective developed by theoretical analyses. <i>Pure and Applied Chemistry</i> , 2010, 82, 905-915.	1.9	92
106	IR Characterization of Tip-Functionalized Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20955-20961.	3.1	19
107	Borylnitrenes: electrophilic reactive intermediates with high reactivity towards C-H bonds. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5477.	2.8	22
108	Synthesis and Structural Characterization of 9-Azido-9-Boraffluorene: Monomer and Cyclotrimer of a Borole Azide. <i>Inorganic Chemistry</i> , 2010, 49, 4499-4506.	4.0	65

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109	Borazine and Benzene Homo- and Heterodimers. Journal of Physical Chemistry A, 2009, 113, 3353-3359.	2.5	46
110	Insertion into dihydrogen employing the nitrogen centre of a borylnitrene. Chemical Communications, 2009, , 2186.	4.1	33
111	Synthesis, Stability, and Photochemistry of Pentacene, Hexacene, and Heptacene: A Matrix Isolation Study. Journal of the American Chemical Society, 2009, 131, 14281-14289.	13.7	226
112	Metal-Free Conversion of Methane and Cycloalkanes to Amines and Amides by Employing a Borylnitrene. Angewandte Chemie - International Edition, 2008, 47, 4744-4747.	13.8	81
113	A reinvestigation of the gas phase reaction of boron atoms, $11\text{B}(2\text{P})/10\text{B}(2\text{P})$ with acetylene, C_2H_2 .		

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127	Addition of Carbenes to the Sidewalls of Single-Walled Carbon Nanotubes. Chemistry - A European Journal, 2006, 12, 4372-4379.	3.3	61
128	Investigation of Thermal Decomposition of the Titanium MOCVD Precursor [Ti(OPri)2(thd)2], Employing Matrix Isolation-FTIR Technique. ECS Transactions, 2006, 2, 89-104.	0.5	1
129	How Good is Fluorine as a Hydrogen-Bond Acceptor in Fluorinated Single-Walled Carbon Nanotubes?. ChemPhysChem, 2005, 6, 1169-1174.	2.1	19
130	Oxidation of Matrix-Isolated Silylenes. ChemInform, 2005, 36, no.	0.0	0
131	Generation of Iodobenzoborirene, a Boraaromatic Cyclopropabenzene Derivative.. ChemInform, 2005, 36, no.	0.0	0
132	Generation of iodobenzoborirene, a boraaromatic cyclopropabenzene derivative. Chemical Communications, 2005, , 2756.	4.1	11
133	Thermolysis of Fluorinated Single-Walled Carbon Nanotubes: Identification of Gaseous Decomposition Products by Matrix Isolation Infrared Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 23218-23224.	2.6	24
134	The Reactivity of Defects at the Sidewalls of Single-Walled Carbon Nanotubes: The Stone-Wales Defect. Journal of Physical Chemistry B, 2005, 109, 6922-6924.	2.6	96
135	MOCVD of TiO ₂ thin films and studies on the nature of molecular mechanisms involved in the decomposition of [Ti(OPri)2(tbaoac)2]. Journal of Materials Chemistry, 2004, 14, 3231-3238.	6.7	30
136	Structural Models of Fluorine-Graphite Intercalation Compounds from Density Functional Theory. Journal of Physical Chemistry A, 2004, 108, 3016-3018.	2.5	26
137	Reaction of Benzene and Boron Atom: Mechanism of Formation of Benzoborirene and Hydrogen Atom. Journal of Physical Chemistry A, 2004, 108, 4576-4586.	2.5	31
138	Effects of Finite Carbon Nanotube Length on Sidewall Addition of Fluorine Atom and Methylene. Organic Letters, 2004, 6, 731-734.	4.6	69
139	Experimental and Computational Investigations of the Properties of Fluorinated Single-Walled Carbon Nanotubes. ChemPhysChem, 2003, 4, 1283-1289.	2.1	66
140	Towards Graphite: Magnetic Properties of Large Polybenzenoid Hydrocarbons. Journal of the American Chemical Society, 2003, 125, 6746-6752.	13.7	158
141	Scratching the Surface of Buckminsterfullerene: The Barriers for Stone-Wales Transformation through Symmetric and Asymmetric Transition States. Journal of the American Chemical Society, 2003, 125, 5572-5580.	13.7	122
142	Dehydrophenylnitrenes: Quartet versus Doublet States. Journal of the American Chemical Society, 2003, 125, 9726-9733.	13.7	23
143	Thermodynamics of yield in boron nitride nanotubes. Physical Review B, 2003, 68, .	3.2	68
144	A combined crossed-beam, ab initio, and Rice-Ramsperger-Kassel-Marcus investigation of the reaction of carbon atoms C(3Pj) with benzene, C ₆ H ₆ (X̂=1A _{1g}) and d ₆ -benzene, C ₆ D ₆ (X̂=1A _{1g}). Journal of Chemical Physics, 2002, 116, 3248-3262.	3.0	39

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145	Ring, Chain, and Cluster Compounds in the Cl ⁺ Ga ⁺ N ⁺ H System. <i>Inorganic Chemistry</i> , 2002, 41, 738-747.	4.0	31
146	Reaction of Phenyl Radicals with Propyne. <i>Journal of the American Chemical Society</i> , 2002, 124, 2781-2789.	13.7	65
147	Reactions of chemically activated C ₉ H ₉ species.. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2019-2027.	2.8	42
148	Mechanically induced defects and strength of BN nanotubes. <i>Physical Review B</i> , 2002, 65, .	3.2	132
149	Gas-Phase Detection of the Elusive Benzoborirene Molecule. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2350-2352.	13.8	24
150	Pathways for the thermally induced dehydrogenation of C ₆ H ₂ . <i>Chemical Physics Letters</i> , 2002, 360, 509-514.	2.6	17
151	Reaction of the ethynyl radical, C ₂ H, with methylacetylene, CH ₃ CCH, under single collision conditions: Implications for astrochemistry. <i>Journal of Chemical Physics</i> , 2001, 114, 3476-3487.	3.0	62
152	Thermochemistry of Fluorinated Single Wall Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2001, 123, 12849-12856.	13.7	97
153	DFT Modeling of Chemical Vapor Deposition of GaN from Organogallium Precursors. 2. Structures of the Oligomers and Thermodynamics of the Association Processes. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3249-3258.	2.5	42
154	Formation, Isolation, Spectroscopic Properties, and Calculated Properties of Some Isomers of C ₆₀ H ₃₆ . <i>Journal of the American Chemical Society</i> , 2001, 123, 8482-8495.	13.7	54
155	Fluorinated single-wall carbon nanotubes. <i>Physical Review B</i> , 2001, 63, .	3.2	143
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