

Xiaoqing Zeng

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9388976/xiaoqing-zeng-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

1,284
citations

21
h-index

28
g-index

123
ext. papers

1,466
ext. citations

6.5
avg, IF

4.49
L-index

#	Paper	IF	Citations
115	Elusive diazirinone, N ₂ CO. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1720-3	16.4	45
114	Synthesis and characterization of carbonyl diazide, OC(N ₃) ₂ . <i>Inorganic Chemistry</i> , 2010 , 49, 9694-9	5.1	44
113	Thermally persistent fluorosulfonyl nitrene and unexpected formation of the fluorosulfonyl radical. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2096-9	16.4	39
112	Gas-Phase Generation and Decomposition of a Sulfinylnitrene into the Iminyl Radical OSN. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1507-10	16.4	36
111	Reaction of AgN ₃ with SOCl ₂ : evidence for the formation of thionyl azide, SO(N ₃) ₂ . <i>Inorganic Chemistry</i> , 2004 , 43, 4799-801	5.1	35
110	The iminyl radical O ₂ SN. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7981-4	16.4	32
109	Formyl azide: properties and solid-state structure. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3503-6	16.4	31
108	The missing link: triplet fluorocarbonyl nitrene FC(O)N. <i>Chemistry - A European Journal</i> , 2011 , 17, 3977-84	4.8	31
107	Simplest N-Sulfonylamine HNSO ₂ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 11509-12	16.4	28
106	Direct Observation of Carbamoylnitrenes. <i>Chemistry - A European Journal</i> , 2016 , 22, 7856-62	4.8	28
105	Nitrosyl isocyanate (ONNCO): gas-phase generation and a HeI photoelectron spectroscopy study. <i>Inorganic Chemistry</i> , 2005 , 44, 9283-7	5.1	28
104	Parent Thioketene S-Oxide H CCSO: Gas-Phase Generation, Structure, and Bonding Analysis. <i>Chemistry - A European Journal</i> , 2017 , 23, 16566-16573	4.8	27
103	Fast Heavy-Atom Tunneling in Trifluoroacetyl Nitrene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15672-15676	16.4	26
102	Photochemistry of matrix isolated (trifluoromethyl)sulfonyl azide, CF ₃ SO ₂ N ₃ . <i>Journal of Physical Chemistry A</i> , 2015 , 119, 2281-8	2.8	25
101	Thermally persistent carbonyl nitrene: FC(O)N. <i>Journal of Organic Chemistry</i> , 2015 , 80, 2006-9	4.2	25
100	Elusive O=P?N, a rare example of phosphorus π ^δ -coordination. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20696-9	16.4	24
99	Two complexes (Cu, Zn) with 1,10-phenanthroline and a tridentate amino-Schiff-base: crystal structures, spectra, thermogravimetric analyses and superoxide dismutase activity. <i>Journal of Coordination Chemistry</i> , 2009 , 62, 745-756	1.6	23

98	Elusive Fluoro Sulfinyl Nitrite, FS(O)NO, Produced by Photolysis of Matrix-isolated FS(O)2N. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 638, 526-533	1.3	22
97	Fascinating Diazirone: A Violet Gas. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 3403-3409	2.3	21
96	Experimental observation of the 16-electron molecules SPN, SNP, and cyclic PSN. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3334-9	16.4	21
95	First Experimental Observation of Gas-Phase Nitrosyl Thiocyanate. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 2469-2475	2.3	21
94	Bis(trifluoroaceto) disulfide (CF ₃ C(O)OSSOC(O)CF ₃): a HeI photoelectron spectroscopy and theoretical study. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5685-91	2.8	21
93	Matrix isolation of two isomers of N ₄ CO. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 482-5	16.4	20
92	Magnetically Bistable Nitrenes: Matrix Isolation of Furoylnitrenes in Both Singlet and Triplet States and Triplet 3-Furylnitrene. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10-13	16.4	20
91	Synthesis and characterization of sulfuryl diazide, O ₂ S(N ₃) ₂ . <i>Inorganic Chemistry</i> , 2011 , 50, 8679-84	5.1	19
90	Photolysis of Carbonyl Diisocyanate: Generation of Isocyanatocarbonyl Nitrene and Diazomethanone. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2953-2959	4.5	18
89	The decomposition of benzenesulfonyl azide: a matrix isolation and computational study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3792-3799	3.6	17
88	Direct observation of methoxycarbonylnitrene. <i>Chemical Communications</i> , 2017 , 53, 4783-4786	5.8	17
87	Chlorodifluoroacetyl azide, ClF ₂ CC(O)N ₃ : preparation, properties, and decomposition. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6456-62	4.2	17
86	Azidoacetylene--interpretation of gas phase infrared spectra based on high-level vibrational configuration interaction calculations. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6719-25	3.6	17
85	Methoxyphosphinidene and Isomeric Methylphosphinidene Oxide. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13604-13608	16.4	17
84	Heterocumulene Sulfinyl Radical OCNSO. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2140-2144	16.4	15
83	Anomeric effects in sulfonyl compounds: an experimental and computational study of fluorosulfonyl azide, FSO(2)N(3), and trifluoromethylsulfonyl azide, CF(3)SO(2)N(3). <i>Journal of Physical Chemistry A</i> , 2010 , 114, 7624-30	2.8	15
82	Electronic structures of acyl nitrites and nitrates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 64, 949-55	4.4	15
81	Methanesulfonyl Azide: Molecular Structure and Photolysis in Solid Noble Gas Matrices. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 5590-7	2.8	15

80	Capture of SO isomers in the oxidation of sulfur monoxide with molecular oxygen. <i>Chemical Communications</i> , 2018 , 54, 1690-1693	5.8	15
79	Conformational composition, molecular structure and decomposition of difluorophosphoryl azide in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8784-91	3.6	14
78	A Singlet Thiophosphoryl Nitrene and Its Interconversion with Thiazyl and Thionitroso Isomers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10942-5	16.4	14
77	Capture of the Sulfur Monoxide-Hydroxyl Radical Complex. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2175-2179	16.4	13
76	The near-UV absorber OSSO and its isomers. <i>Chemical Communications</i> , 2018 , 54, 4517-4520	5.8	13
75	Phenylsulfinyl Radical: Gas-Phase Generation, Photoisomerization, and Oxidation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9972-9978	16.4	13
74	Das Iminyl-Radikal O ₂ SN. <i>Angewandte Chemie</i> , 2013 , 125, 8139-8142	3.6	13
73	Toward Understanding the Decomposition of Carbonyl Diazide (N ₃) ₂ C=O and Formation of Diazirone cycl-N ₂ CO: Experiment and Computations. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 8903-8911 ^{2,8}	11	12
72	N-Methylcarbamoyl azide: spectroscopy, X-ray structure and decomposition via methylcarbamoyl nitrene. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 1839-1848	5.2	11
71	Contrasting Photolytic and Thermal Decomposition of Phenyl Azidoformate: The Curtius Rearrangement Versus Intramolecular C-H Amination. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 8604-8613 ^{2,8}	13	11
70	Phosphorus Analogues of Methyl Nitrite and Nitromethane: CH OPO and CH PO. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12164-12169	16.4	11
69	The Trifluoromethyl Sulfinyl and Oxathiyl Radicals. <i>Chemistry - A European Journal</i> , 2018 , 24, 1505-1508	4.8	11
68	The Photochemical and Thermal Decomposition of Azidoacetylene in the Gas Phase, Solid Matrix, and Solutions. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 4077-4082	3.2	11
67	Fast Heavy-Atom Tunneling in Trifluoroacetyl Nitrene. <i>Angewandte Chemie</i> , 2017 , 129, 15878-15882	3.6	11
66	Gas-Phase Generation and Decomposition of a Sulfinylnitrene into the Iminyl Radical OSN. <i>Angewandte Chemie</i> , 2016 , 128, 1529-1532	3.6	11
65	Oxidation of a phosphinidene oxide: formation of a dioxaphosphirane oxide with oxygen scrambling. <i>Chemical Communications</i> , 2018 , 55, 245-248	5.8	10
64	Photoisomerization of matrix isolated F ₂ CS into cis and trans FCSF. <i>Chemical Communications</i> , 2009 , 5162-4	5.8	10
63	The Methylsulfonyloxyl Radical, CH ₃ SO ₃ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11404-8	16.4	9

62	Decomposition of fluorophosphoryl diazide: a joint experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6433-9	3.6	9
61	Dichlorophosphanyl isocyanate - spectroscopy, conformation and molecular structure in the gas phase and the solid state. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26245-26253	3.6	9
60	Caged Nitric Oxide-Thiyl Radical Pairs. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3361-3365	16.4	9
59	Methoxysulfinyl Radical CHOSO: Gas-Phase Generation, Photochemistry, and Oxidation. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 3818-3825	2.8	8
58	Photoinduced Sulfur-Nitrogen Bond Rotation and Thermal Nitrogen Inversion in Heterocumulene OSNSO. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1231-1234	16.4	8
57	Experimental Observation of the 16-Electron Molecules SPN, SNP, and Cyclic PSN. <i>Angewandte Chemie</i> , 2012 , 124, 3390-3395	3.6	8
56	Photochemistry of OPN: Formation of Cyclic PON and Reversible Combination with Carbon Monoxide. <i>Chemistry - A European Journal</i> , 2018 , 24, 14627-14630	4.8	7
55	Formylazid: Eigenschaften und Festkörperstruktur. <i>Angewandte Chemie</i> , 2013 , 125, 3587-3591	3.6	7
54	Isomers of disulfur dinitride, S ₂ N ₂ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2758-61	16.4	7
53	A Self-Assembled 3D Hydrogen Bonded Network Constructed from Polyoxovanadate and Protonated Organic Substrate With a Solvent Hydrolysis Reaction. <i>Journal of Cluster Science</i> , 2009 , 20, 717-724	3	7
52	Hydrogen-Atom Tunneling in Metaphosphorous Acid. <i>Chemistry - A European Journal</i> , 2020 , 26, 8205-8209	16.4	7
51	Decomposition of Sulfonyl Azide Isocyanate and Sulfonyl Diazide: The Oxygen-Shifted Curtius Rearrangement via Sulfonyl Nitrenes. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 8511-8519	2.8	7
50	Flash vacuum pyrolysis of methoxysulfinyl azide: Stepwise decomposition via methoxysulfinyl nitrene. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 124, 610-617	6	6
49	Difluoroacetyl azide: Synthesis, characterization, and decomposition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 125, 209-217	6	6
48	Ab initio calculation of rovibrational states for non-degenerate double-well potentials: cis-trans isomerization of HOPO. <i>Journal of Chemical Physics</i> , 2020 , 152, 174306	3.9	6
47	Spectroscopic characterization and constitutional and rotational isomerism of ClC(O)SCN and ClC(O)NCS. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2383-99	2.8	6
46	Heterocumulene Sulfinyl Radical OCNSO. <i>Angewandte Chemie</i> , 2017 , 129, 2172-2176	3.6	5
45	The Simplest, Isolable, Alkynyl Isocyanate HC≡CNCO: Synthesis and Characterization. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17277-17281	16.4	5

44	Photodecomposition of Thienylsulfonyl Azides: Generation and Spectroscopic Characterization of Triplet Thienylsulfonyl Nitrenes and 3-Thienylnitrene. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9311-9320	2.8	5
43	The hypothiocyanite radical OSCN and its isomers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16713-16720	1.6	5
42	Structure and Conformational Properties of Azido(difluoro)phosphane, F ₂ PN ₃ . <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 895-905	2.3	5
41	Copper-Chalcogenide-Based Multimodal Nanotheranostics.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6529-6537	1.1	5
40	Sulfamoyl nitrenes: singlet or triplet ground state?. <i>Chemical Communications</i> , 2018 , 54, 6136-6139	5.8	5
39	Spectroscopic Characterization of Nicotinoyl and Isonicotinoyl Nitrenes and the Photointerconversion of 4-Pyridylnitrene with Diazacycloheptatetraene. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 3793-3801	2.8	4
38	Photochemistry of HNSO in cryogenic matrices: spectroscopic identification of the intermediates and mechanism. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7975-7983	3.6	4
37	Spectroscopic Identification of H NSO and syn- and anti-HNSOH Radicals. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7513-7517	16.4	4
36	Synthesis, structure and superoxide dismutase activity of two self-assembly transition metal complexes containing a tridentate amino-Schiff base deviating from salicylaldehyde with glycine. <i>Science Bulletin</i> , 2009 , 54, 3508-3514	10.6	4
35	Novel gaseous transient species: Generation and characterization. <i>Science in China Series B: Chemistry</i> , 2007 , 50, 145-169		4
34	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21949-21953	16.4	4
33	Photodecomposition of 1H-Pyrrole Carbonyl Azides: Direct Observation of Singlet 1H-Pyrrole Carbonyl Nitrenes and Triplet 1H-3-Pyrrylnitrene. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 401-411	3.2	4
32	Synthesis, conformation, and photochemistry of difluoroacetyl isocyanate CF ₂ HC(O)NCO and isothiocyanate CF ₂ HC(O)NCS. <i>Journal of Molecular Structure</i> , 2018 , 1172, 25-32	3.4	3
31	Flash vacuum pyrolysis of sulfamoyl azides and chlorides: Facile gas-phase generation of transient N-sulfonylamines. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 134, 476-483	6	3
30	Phosphorus Analogues of Methyl Nitrite and Nitromethane: CH ₃ OPO and CH ₃ PO ₂ . <i>Angewandte Chemie</i> , 2019 , 131, 12292-12297	3.6	3
29	A novel heterogeneous reaction for generating gaseous nitrous acid. <i>Science Bulletin</i> , 2007 , 52, 3056-3060		3
28	Generation and Characterization of the C O Anion with an Unexpected Unsymmetrical Structure. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4518-4523	16.4	3
27	Dihalogenated Methylperoxy Radicals: Spectroscopic Characterization and Photodecomposition by Release of HO. <i>Chemistry - A European Journal</i> , 2020 , 26, 2817-2820	4.8	3

26	Spectroscopic identification of monomeric methyl metaphosphate. <i>Dalton Transactions</i> , 2019 , 48, 13907-13912	4.3	1
25	Asparaginyl endopeptidase may promote liver sinusoidal endothelial cell angiogenesis via PI3K/Akt pathway. <i>Revista Espanola De Enfermedades Digestivas</i> , 2019 , 111, 214-222	0.9	2
24	Acryloylnitrenes: Spectroscopic Characterization, Spin Multiplicities, and Rearrangement to Vinyl Isocyanates. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6319-6329	2.8	2
23	Vibrational spectrum and photochemistry of phosphaketene HPCO. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19237-19243	3.6	2
22	3-Nitrene-2-formylthiophene and 3-Nitrene-2-formylfuran: Matrix Isolation, Conformation, and Rearrangement Reactions. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3786-3794	2.8	1
21	Spectroscopic Characterization of HSO and HOSO Intermediates Involved in SO Geoengineering. <i>Journal of Physical Chemistry A</i> , 2021 ,	2.8	1
20	Matrix-isolated trifluoromethylthiyl radical: sulfur atom transfer, isomerization and oxidation reactions. <i>Chemical Communications</i> , 2021 , 57, 12143-12146	5.8	1
19	Spectroscopic identification of the BSNO isomers. <i>Journal of Chemical Physics</i> , 2020 , 153, 094303	3.9	1
18	Spectroscopic Properties, Conformation and Structure of Difluorothiophosphoryl Isocyanate in the Gaseous and Solid Phase. <i>ChemistryOpen</i> , 2020 , 9, 913-920	2.3	1
17	Heterocumulenic carbene nitric oxide radical OCCNO. <i>Chemical Communications</i> , 2019 , 55, 13510-13513	5.8	1
16	Spectroscopic characterization and photochemistry of the vinylsulfinyl radical. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 16307-16315	3.6	1
15	Chloro- and Dichloro-methylsulfonyl Nitrenes: Spectroscopic Characterization, Photoisomerization, and Thermal Decomposition. <i>Molecules</i> , 2018 , 23,	4.8	1
14	The simplest alkynyl thiocyanate HCCSCN and its isomers. <i>Chemical Communications</i> , 2021 , 57, 3343-3346	5.8	1
13	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. <i>Angewandte Chemie</i> , 2020 , 132, 22133-22137	3.7	0
12	Synthesis, Characterization and Energetic Performance of Oxalyl Diazide, Carbamoyl Azide, and N,NVbis(azidocarbonyl)hydrazine. <i>ChemPlusChem</i> , 2021 , 86, 870-874	2.8	0
11	Synthesis and characterization of phosphorous(III) diisocyanate and triisocyanate. <i>Dalton Transactions</i> , 2021 , 50, 3299-3307	4.3	0
10	Spectroscopic Identification of the Heterocumulenic Isocyanatoborane Radical HBNCO.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 2619-2624	6.4	0
9	Hydrogen-Atom Tunneling in Metaphosphorous Acid. <i>Chemistry - A European Journal</i> , 2020 , 26, 8174	4.8	

- 8 Spectroscopic Identification of H₂NSO and syn- and anti-HNSOH Radicals. *Angewandte Chemie*, **2018**, 130, 7635-7639 3.6
- 7 The Simplest, Isolable, Alkynyl Isocyanate HC≡CNCO: Synthesis and Characterization. *Angewandte Chemie*, **2019**, 131, 17437-17441 3.6
- 6 Spectroscopic characterization and photochemistry of the Criegee intermediate CFC(H)OO.. *Journal of Environmental Sciences*, **2022**, 114, 160-169 6.4
- 5 Röntgenbild: The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide (Angew. Chem. 49/2020). *Angewandte Chemie*, **2020**, 132, 22452-22452 3.6
- 4 Synthesis and characterizations of fluorophosphoryl diazide and diisocyanate. *Journal of Fluorine Chemistry*, **2021**, 242, 109694 2.1
- 3 Generation and Characterization of the C₃O₂⁻ Anion with an Unexpected Unsymmetrical Structure. *Angewandte Chemie*, **2021**, 133, 4568-4573 3.6
- 2 Preparation and Properties of Chlorosulfonyl Chloroformate, ClC(O)OSOCl. *Inorganic Chemistry*, **2018**, 57, 14834-14842 5.1
- 1 A combined computational and experimental study on the vibrational structure of ethynyl isothiocyanate, HCCNCS, a molecule with a Champagne bottle potential. *Journal of Molecular Spectroscopy*, **2022**, 111626 1.3